

MP aes attributes backends basexx bibtex bit32  
blobs boolean buffers builders bytemap caches  
callback callbacks catcodes characters  
chemistry commands containers context  
converters coroutine ctxrunner debug dir  
directives document documentdata drivers  
effects environment experiments figures file  
fio floats font fonts functions globaldata  
globals graphics gzip helper images  
interactions interfaces io job kpse language  
languages layouts lfs libraries lmx loaders  
logs lpdf lpeg lua luac luatex lxml math  
mathematics md5 metapost mime moduledata  
modules mp mplib nanojpeg noads node nodes  
number objects optional os package  
pagebuilders parametersets pdf pdfdecode pdfex  
physics pngdecode posit potrace publications  
qrcodegen regimes resolvers sandbox scripts  
serial set sha2 sio socket sorters sparse  
statistics status storage streams string  
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tracers trackers typesetters updaters url  
userdata utf8 utilities vector visualizers  
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ConTeXt LMTX

# global (alias: \_G)

<b>CONTEXTLMTXMODE</b>	number	<b>directives</b>	table
<b>LUAFORMAT</b>	number	<b>document</b>	table
<b>LUAMAJORVERSION</b>	number	<b>documentdata</b>	table
<b>LUAMINORVERSION</b>	number	<b>dofile</b>	function
<b>LUATEXENGINE</b>	string	<b>drivers</b>	table
<b>LUATEXFORMATID</b>	number	<b>effects</b>	table
<b>LUATEXFUNCTIONALITY</b>	number	<b>environment</b>	table
<b>LUATEXVERBOSE</b>	string	<b>error</b>	function
<b>LUATEXVERSION</b>	number	<b>experiments</b>	table
<b>LUAVERSION</b>	number	<b>figures</b>	table
<b>MP</b>	function	<b>file</b>	table
<b>SAVEDREQUIRE</b>	function	<b>fio</b>	table
<b>aes</b>	table	<b>floats</b>	table
<b>arg</b>	table	<b>font</b>	table
<b>assert</b>	function	<b>fonts</b>	table
<b>attributes</b>	table	<b>functions</b>	table
<b>backends</b>	table	<b>getmetatable</b>	function
<b>basexx</b>	table	<b>globaldata</b>	table
<b>bibtex</b>	table	<b>globals</b>	table
<b>bit32</b>	table	<b>graphics</b>	table
<b>blobs</b>	table	<b>gzip</b>	table
<b>boolean</b>	table	<b>helper</b>	table
<b>buffers</b>	table	<b>images</b>	table
<b>builders</b>	table	<b>inspect</b>	function
<b>bytemap</b>	table	<b>interactions</b>	table
<b>caches</b>	table	<b>interfaces</b>	table
<b>callback</b>	table	<b>io</b>	table
<b>callbacks</b>	table	<b>ipairs</b>	function
<b>catcodes</b>	table	<b>job</b>	table
<b>characters</b>	table	<b>kpse</b>	table
<b>chemistry</b>	table	<b>language</b>	table
<b>collectgarbage</b>	function	<b>languages</b>	table
<b>commands</b>	table	<b>layouts</b>	table
<b>containers</b>	table	<b>lfs</b>	table
<b>context</b>	function	<b>libraries</b>	table
<b>converters</b>	table	<b>lmx</b>	table
<b>coroutine</b>	table	<b>load</b>	function
<b>ctxrunner</b>	table	<b>loaders</b>	data table
<b>debug</b>	table	<b>loadfile</b>	function
<b>dimen</b>	function	<b>loadstring</b>	function
<b>dir</b>	table	<b>logs</b>	table

<b>lpdf</b>	table	<b>regimes</b>	table
<b>lpeg</b>	table	<b>require</b>	function
<b>lua</b>	table	<b>resolvers</b>	table
<b>luac</b>	table	<b>sandbox</b>	table
<b>luatex</b>	table	<b>scripts</b>	table
<b>lxml</b>	table	<b>select</b>	function
<b>math</b>	table	<b>serial</b>	table
<b>mathematics</b>	table	<b>set</b>	table
<b>md5</b>	table	<b>setinspector</b>	function
<b>metapost</b>	table	<b>setmathparameters</b>	function
<b>mime</b>	table	<b>setmetatable</b>	function
<b>moduledata</b>	table	<b>sha2</b>	table
<b>modules</b>	table	<b>sio</b>	table
<b>mp</b>	function	<b>socket</b>	table
<b>mplib</b>	table	<b>sorters</b>	table
<b>nanojpeg</b>	table	<b>sparse</b>	table
<b>next</b>	function	<b>statistics</b>	table
<b>noads</b>	table	<b>status</b>	table
<b>node</b>	table	<b>storage</b>	table
<b>nodes</b>	table	<b>streams</b>	table
<b>number</b>	table	<b>string</b>	table
<b>objects</b>	table	<b>structures</b>	table
<b>optional</b>	table	<b>table</b>	table
<b>optionalrequire</b>	function	<b>tex</b>	table
<b>os</b>	table	<b>texconditionals</b>	data table
<b>package</b>	table	<b>texconfig</b>	table
<b>pagebuilders</b>	table	<b>texconstants</b>	data table
<b>pairs</b>	function	<b>texifs</b>	data table
<b>parametersets</b>	table	<b>texio</b>	table
<b>pcall</b>	function	<b>texisdefined</b>	data table
<b>pdf</b>	table	<b>texmodes</b>	data table
<b>pdfdecode</b>	table	<b>texsystemmodes</b>	data table
<b>pdfe</b>	table	<b>thirddata</b>	table
<b>physics</b>	table	<b>toboolean</b>	function
<b>pngdecode</b>	table	<b>todecimal</b>	function
<b>posit</b>	table	<b>token</b>	table
<b>potrace</b>	table	<b>tokens</b>	table
<b>print</b>	function	<b>tonumber</b>	function
<b>publications</b>	table	<b>tostring</b>	function
<b>qrcodegen</b>	table	<b>tracers</b>	table
<b>rawequal</b>	function	<b>trackers</b>	table
<b>rawget</b>	function	<b>type</b>	function
<b>rawlen</b>	function	<b>typesetters</b>	table
<b>rawset</b>	function	<b>unpack</b>	function

<b>updaters</b>	table	<b>xcomplex</b>	table
<b>url</b>	table	<b>xdecimal</b>	table
<b>userdata</b>	table	<b>xmath</b>	table
<b>utf</b>	table	<b>xml</b>	table
<b>utf8</b>	table	<b>xpcall</b>	function
<b>utilities</b>	table	<b>xzip</b>	table
<b>vector</b>	table	<b>zip</b>	table
<b>visualizers</b>	table	<b>zlib</b>	table
<b>warn</b>	function		

## aes (extra lua)

**decode** function

**encode** function

**random** function

# attributes (context)

## **alternates** table

N attribute  
D data  
F enable  
F handler  
F register  
D registered  
D values

## **applyoverloads** function

## **checkvalues** function

## **colorintents** table

N attribute  
D data  
F enable  
F handler  
F register  
D registered

## **colors** table

N attribute  
F cmyk  
F cmyktogray  
F cmyktorgb  
F colorcomponents  
D counts  
B couple  
F currentmodel  
F currentnamedmodel  
D data  
N default  
F defineintermediatecolor  
F definemultitonecolor  
F defineprocesscolor  
F defineprocesscolordirect  
F definesimplegray  
F definespotcolor  
F definetransparency  
F enable  
F filter  
N forced  
F forcedmodel  
F forcesupport

F formatcolor  
F formatgray  
F formatluminance  
F formatluminanceratio  
F getpagecolormodel  
F gray  
F graytohsv  
F handler  
T helpers  
F complement  
F inbetween  
F justone  
F hsvtogray  
F hsvtorgb  
F hwbtorgb  
F iccprofile  
F isblack  
F labtolch  
F labtorgb  
F labtoxyz  
F lchtolab  
F lchtorgb  
N main  
S model  
D models  
F mpcolor  
F mpnamedcolor  
F mpoptions  
F namedcolorattributes  
N none  
F popset  
F processcolorcomponents  
F pushset  
F register  
D registered  
F registerspotcolor  
F rgb  
F rgbbytes  
F rgbtocmyk  
F rgbtogray  
F rgbtohsv

F rgbtoxyz  
 N selector  
 F setlist  
 F setmodel  
 F setpagecolormodel  
 D sets  
 F spec  
 F spot  
 F spotcolorname  
 F spotcolorparent  
 F spotcolorvalue  
 B supported  
 F toattributes  
 F transparencycomponents  
 B triggering  
 F usecolors  
 D valid  
 F value  
 D values  
 B weightgray  
 F xyztolab  
 F xyztorgb

**counts** data table

**define** function

**effects** table

N attribute  
 D data  
 F enable  
 F handler  
 F register  
 D registered  
 D values

**getvalue** function

**getvalues** function

**handlers** table

**hasvalues** function

**list** data table

**markasoverload** function

**names** data table

**negatives** table

N attribute  
 D data  
 F enable  
 F handler

F register  
 D registered  
 F set

**numbers** data table

**ofnode** function

**private** function

**public** function

**registervalue** function

**restore** function

**save** function

**setcleaner** function

**showcurrent** function

**states** table

F disabletriggering  
 F enabletriggering  
 F finalize  
 F initialize  
 F process  
 F selective  
 F simple  
 F stacked  
 F stacker

**system** function

**tooverloads** function

**transparencies** table

N attribute  
 D data  
 F enable  
 F forcesupport  
 F handler  
 T names  
 N color  
 N colorburn  
 N colordodge  
 N darken  
 N difference  
 N exclusion  
 N hardlight  
 N hue  
 N lighten  
 N luminosity  
 N multiply  
 N none  
 N normal

N overlay		F definedlayoutcomponent
N saturation		F enable
N screen		F forcesupport
N softlight		F handler
N none		B hasorder
F register		D listwise
D registered		F register
B supported		D registered
F toattribute		F resolve_begin
B triggering		F resolve_end
F value		F resolve_reset
D values		F resolve_step
<b>unsetvalue</b>	number	D scopes
<b>values</b>	data table	F setfeatures
<b>viewerlayers</b>	table	F setup
N attribute		F start
F cleanup		F stop
D data		B supported
F define		D values



# backends (context)

<b>closeout</b>	function	F analyze normalsymbol
<b>codeinjections</b>	table	F analyzesymbol
F registerboxresource		F attachmentid
F registerfont		F bitmap
F restoreboxresource		F clonefield
<b>current</b>	string	F copyimage
<b>defaults</b>	table	F defaultprofile
T codeinjections		F definefield
F prerollreference		F definefieldset
F setautoprefix		F defineviewerlayer
F vfstartcolor		F discardpages
F vfstopcolor		F embedfile
T nodeinjections		F embedimage
F cmykcolor		F enabletags
F destination		F exportformdata
F graycolor		F fieldsurrounding
F injectknockout		F flushmergelayer
F injectoverprint		F getbookmarks
F reference		F getboxresourcebox
F rgbcolor		F getdefaultfieldvalue
F spotcolor		F getfieldcategory
F transparency		F getfieldset
T registrations		F getformatoption
F transparency		F getinfo
D tables		F getlinkstructureparent
<b>getcallbackstate</b>	function	F getreferencestructureobject
<b>included</b>	table	F getrefobj
B context		F insertrenderingwindow
B date		F jp2
B id		F jpg
B metadata		F maptag
B pdf		F mergebookmarks
<b>initialize</b>	function	F mergecomments
<b>latelua</b>	function	F mergefields
<b>nodeinjections</b>	table	F mergereferences
<b>nothing</b>	function	F mergerenditions
<b>openout</b>	function	F mergeviewerlayers
<b>registered</b>	table	F newimage
T pdf		F png
T codeinjections		F prerollreference
F addbookmarks		F presetsymbol

F presetsymbolist	F useviewerlayer
F processrendering	F validcompactor
F registerdocumentcloseaction	F validfield
F registerdocumentopenaction	F validfieldcategory
F registeredsymbol	F validfieldset
F registerfiguremask	F vfstartcolor
F registerfigurerange	F vfstopcolor
F registerpagecloseaction	F wrapimage
F registerpageopenaction	S name
F registerpattern	T nodeinjections
F registersymbol	F addtags
F ruleactionbox	F annotation
F ruleactiondraw	F attachfile
F ruleactionfill	F changestackedlayer
F ruleactionmp	F cmykcolor
F ruleactionstroke	F comment
F saveboxresource	F destination
F scanimage	F effect
F setattachmentsupport	F getboxresourcedimensions
F setautoprefix	F graycolor
F setencryption	F injectbitmap
F setfieldcalculationset	F insertu3d
F setfigurecolorspace	F knockout
F setfiguremask	F negative
F setformat	F overprint
F setformsmethod	F positive
F setjobcomment	F reference
F setpagetransition	F rgbcolor
F settaggingsupport	F spotcolor
F setupviewerlayer	F startalternate
F setuserdata	F startlayer
F setxmpfile	F startstackedlayer
F startactualtext	F stopalternate
F startalternativetext	F stoplayer
F startlayer	F stopstackedlayer
F startunicodetoactualtext	F transparency
F startunicodetoactualtextdirect	F typesetfield
F stopactualtext	F useboxresource
F stopalternativetext	T registrations
F stoplayer	F cmykindexcolor
F stopunicodetoactualtext	F cmykspotcolor
F stopunicodetoactualtextdirect	F getspotcolorreference
F supportedformats	F grayindexcolor
F unicodetoactualtext	F grayspotcolor

F `rgbindexcolor`  
F `rgbspotcolor`  
F `spotcolorname`  
F `transparency`  
T `tables`

**registrations**    `table`  
**setencryption**    `function`  
**tables**            `table`  
**writeout**          `function`

## basexx (extra lua)

**decode16** function

**decode64** function

**decode85** function

**decodeLZW** function

**decodeRL** function

**encode16** function

**encode64** function

**encode85** function

**encodeLZW** function

**encodeRL** function

## bit32 (context)

**arshift** function  
**band** function  
**bnot** function  
**bor** function  
**btest** function  
**bxor** function

**extract** function  
**lrotate** function  
**lshift** function  
**replace** function  
**rrotate** function  
**rshift** function

## blobs (context)

**append**      function  
**dimensions**   function  
**dispose**     function  
**new**          function  
**pack**         function  
**strdp**        function  
**strhd**        function

**strht**        function  
**strwd**        function  
**tohpack**     function  
**tonodes**     function  
**tovpack**     function  
**write**        function

# boolean (context)

**tocontext** function

**tonumber** function

## buffers (context)

<b>append</b>	function	<b>parallel</b>	table
<b>assign</b>	function	F define	
<b>collectcontent</b>	function	F hassomecontent	
<b>empty</b>	function	F next	
<b>erase</b>	function	F place	
<b>exists</b>	function	F reset	
<b>get</b>	function	F save	
<b>getcontent</b>	function	<b>prepend</b>	function
<b>getctxlua</b>	function	<b>raw</b>	function
<b>getlines</b>	function	<b>run</b>	function
<b>getmkvi</b>	function	<b>samplefile</b>	function
<b>gettex</b>	function	<b>splitsamplefile</b>	function
<b>loadcontent</b>	function	<b>undent</b>	function



# builders (context)

<b>checkparcontext</b>	function	F start	
<b>checksidefloat</b>	function	F stop	
<b>hpack</b>	table	F tag	
F qualityactions			
F report			
F show			
<b>kernel</b>	table		
F collapsing			
F hyphenating			
F kerning			
F ligaturing			
F mlisttohtml			
<b>paragraphs</b>	table		
T constructors			
N attribute			
F define			
F disable			
F enable			
F handler			
T methods			
F basic			
F default			
F hpack			
F oneline			
D names			
D numbers			
F set			
F start			
F stop			
T expansion			
F trace			
F kepttogether			
F registertogether			
T solutions			
T splitters			
F define			
F optimize			
T registered			
F reset			
F set			
F split			
		<b>parpassidentifier</b>	function
		<b>passnames</b>	data table
		<b>profiling</b>	table
		F add	
		F addrivers	
		F boxlinehandler	
		F distance	
		F fixedprofile	
		F get	
		F getrivers	
		F list	
		F pagehandler	
		F pagelinehandler	
		F profilebox	
		F profilelines	
		F set	
		F setlines	
		<b>registerpasspasscallback</b>	function
		<b>vpack</b>	table
		F qualityactions	
		F report	
		<b>vspacing</b>	table
		D categories	
		F checkstrutdepth	
		F collapsevbox	
		T data	
		D map	
		D skip	
		D snapmethods	
		F definesnapmethod	
		B fixed	
		F flushcontributions	
		F forcepageflush	
		F forcestrutdepth	
		F getnofpreviouslines	
		F inject	
		F injectdisable	
		F injectnowhite	

F injectpenalty  
F injectskip  
F interceptsamepagecontent  
F pagehandler  
F pageoverflow  
F popatsame  
F pushatsame

F setmap  
F setskip  
F snapbox  
F synchronizepage  
F tocategories  
F tocategory  
F vboxhandler

## byte**map** (context)

<b>bounds</b>	function	<b>new</b>	function
<b>clip</b>	function	<b>newdomain</b>	function
<b>copy</b>	function	<b>process</b>	function
<b>dimensions</b>	function	<b>reduce</b>	function
<b>domain</b>	function	<b>reset</b>	function
<b>downgrade</b>	function	<b>setgray</b>	function
<b>downsample</b>	function	<b>setgrayadd</b>	function
<b>getbyte</b>	function	<b>setgraymin</b>	function
<b>getbytes</b>	function	<b>setrgb</b>	function
<b>getvalue</b>	function	<b>slicegray</b>	function
<b>hasbytegray</b>	function	<b>slicerange</b>	function
<b>hasbyterange</b>	function	<b>slicergb</b>	function
<b>hasbytergb</b>	function		

## caches (context)

<b>base</b>	string	<b>loadcontent</b>	function
<b>collapsecontent</b>	function	<b>loaddata</b>	function
<b>configfiles</b>	function	<b>more</b>	string
<b>contentstate</b>	function	<b>savecontent</b>	function
<b>defaults</b>	table	<b>savedata</b>	function
<b>getfirstreadablefile</b>	function	<b>setfirstwritablefile</b>	function
<b>getreadablepaths</b>	function	<b>setluanames</b>	function
<b>getwritablepath</b>	function	<b>treehash</b>	function
<b>hashed</b>	function	<b>usedpaths</b>	function
<b>is_writable</b>	function		

## callback (basic tex)

<b>find</b>	function	<b>list</b>	function
<b>getindex</b>	function	<b>names</b>	function
<b>getoptions</b>	function	<b>register</b>	overloaded function
<b>getoptionvalues</b>	function	<b>setoptions</b>	function
<b>getstate</b>	function	<b>setstate</b>	function
<b>getstatevalues</b>	function	<b>testonly</b>	function
<b>known</b>	function	<b>usage</b>	function

# callbacks (context)

<b>freeze</b>	function	N local_box	
<b>functions</b>	table	N make_extensible	
F start_page_number		N math_rule	
F stop_page_number		N missing_character	
<b>getcomment</b>	function	N mlist_to_hlist	
<b>getstates</b>	function	N open_data_file	
<b>known</b>	function	N packed_vbox	
<b>list</b>	table	N paragraph_context	
N alignment		N paragraph_pass	
N append_adjust		N post_linebreak	
N append_line		N pre_dump	
N append_migrate		N pre_linebreak	
N append_to_vlist		N pre_output	
N balance_boundary		N process_character	
N balance_check		N process_jobname	
N balance_insert		N quality_font	
N begin_paragraph		N register_extensible	
N buildpage		N show_build	
N define_font		N show_error_message	
N find_format_file		N show_loners	
N find_log_file		N show_lua_call	
N get_attribute		N show_vsplint	
N get_math_dictionary		N show_warning_message	
N get_noad_class		N show_whatsit	
N glyph_run		N start_file	
N handle_overload		N start_run	
N handle_uinsert		N stop_file	
N handle_uleader		N stop_run	
N hpack		N tail_append	
N hpack_quality		N test_only	
N hyphenate		N trace_memory	
N insert_distance		N vpack	
N insert_par		N vpack_quality	
N intercept_lua_error		N wrapup_run	
N intercept_tex_error			
N italic_correction		<b>names</b>	table
N kerning		<b>optimizer</b>	function
N ligaturing		<b>optionbits</b>	table
N linebreak		<b>optioncodes</b>	table
N linebreak_check		N direct	
N linebreak_quality		N trace	
		<b>pop</b>	function

<b>push</b>	function	N fundamental
<b>register</b>	function	N private
<b>report</b>	function	N selective
<b>statebits</b>	table	N set
<b>statecodes</b>	table	N touched
N disabled		N tracing
N frozen		

# catcodes (context)

**names** data table

**numbers** data table

**register** function



# characters (context)

<b>addcharacternames</b>	function	T after_postscript
<b>adobename</b>	function	T after_subscript
<b>bidirectional</b>	data table	T anudatta
<b>blockrange</b>	function	T before_half
<b>blocks</b>	data table	T before_main
<b>can_have_space</b>	data table	T before_postscript
<b>casemap</b>	table	T before_subscript
<b>categories</b>	data table	T below_mark
<b>category</b>	function	T consonant
<b>categorytags</b>	data table	T dependent_vowel
<b>classifiers</b>	table	T halant
<b>collapsed</b>	data table	T independent_vowel
<b>combined</b>	data table	T nukta
<b>contextname</b>	function	T post_mark
<b>csletters</b>	data table	T pre_mark
<b>data</b>	data table	T ra
<b>decomposed</b>	data table	T stress_tone_mark
<b>description</b>	function	T twopart_mark
<b>descriptions</b>	data table	T vowel_modifier
<b>detailtags</b>	data table	<b>initialize</b> function
<b>directions</b>	table	<b>is_character</b> data table
<b>emoji</b>	table	<b>is_command</b> data table
F compact		<b>is_hyphenator</b> data table
F known		<b>is_letter</b> data table
F resolve		<b>is_mark</b> data table
<b>emojized</b>	function	<b>is_nothing</b> data table
<b>encodes</b>	data table	<b>is_punctuation</b> data table
<b>entities</b>	data table	<b>is_spacing</b> data table
<b>fallbacks</b>	data table	<b>is_symbol</b> data table
<b>filters</b>	data table	<b>lcchars</b> data table
<b>fractions</b>	table	<b>lccode</b> function
<b>fromnumber</b>	function	<b>lccodes</b> data table
<b>fschars</b>	data table	<b>lettered</b> function
<b>fscodes</b>	data table	<b>lhash</b> data table
<b>getrange</b>	function	<b>linebreaks</b> data table
<b>graphemes</b>	data table	<b>lower</b> function
<b>hangul</b>	data table	<b>mathlists</b> data table
<b>indicgroups</b>	table	<b>mirrors</b> table
T above_mark		<b>otfscripts</b> data table
T after_half		<b>ranges</b> data table
T after_main		<b>registerentities</b> function

<b>remap_hangul_syllabe</b>	function	<b>tex</b>	table
<b>scripthash</b>	table	D accentmapping	
<b>setactivecatcodes</b>	function	D commandmapping	
<b>setlettercatcodes</b>	function	F defineaccents	
<b>setothercatcodes</b>	function	F safechar	
<b>shape</b>	function	F strtextoutf	
<b>shaped</b>	function	F strtoutfpattern	
<b>shash</b>	data table	F toutf	
<b>shchars</b>	data table	F toutfpattern	
<b>shcodes</b>	data table	<b>textclasses</b>	table
<b>showstring</b>	function	<b>tonumber</b>	function
<b>specialchars</b>	data table	<b>ucchars</b>	data table
<b>specials</b>	data table	<b>uccode</b>	function
<b>splits</b>	table	<b>uccodes</b>	data table
T char		<b>uhash</b>	data table
T compat		<b>unicodechar</b>	function
<b>subscripts</b>	table	<b>upper</b>	function
<b>superscripts</b>	table	<b>verbosemarks</b>	data table
<b>synonyms</b>	data table		

# chemistry (context)

<b>component</b>	function	S line
<b>define</b>	function	S lrn
<b>definitions</b>	data table	S lrt
<b>format</b>	string	S mark
<b>inlinechemical</b>	function	S mir
<b>instance</b>	string	S mov
<b>method</b>	string	S move
<b>molecule</b>	function	S number
<b>moleculeparser</b>	userdata	S oe
<b>start</b>	function	S off
<b>stop</b>	function	S r
<b>syntax</b>	table	S rb
T alkyl		S rbd
S category		S rd
T keys		S rdb
S ad		S rdd
S adj		S rh
S arrow		S rm
S au		S rn
S b		S rot
S bb		S rrn
S bd		S rrt
S bw		S rt
S c		S rz
S cc		S sb
S ccd		S sd
S cd		S sr
S cz		S sub
S dash		S tb
S db		S z
S diff		S zln
S dir		S zlt
S dr		S zn
S ed		S zrn
S ep		S zrt
S es		S zt
S et		S keyword
S hb		N max
S label		T boat
S ldb		S category
S ldd		T keys

S adj	S rt
S arrow	S rz
S b	S sb
S bb	S sr
S c	S sub
S cc	S z
S ccd	S zln
S cd	S zlt
S dash	S zn
S diff	S zrn
S eb	S zrt
S label	S zt
S line	S keyword
S lr	N max
S lrb	T carbon
S lrbd	S category
S lrd	S keyword
S lrh	N max
S lrn	T chair
S lrt	S category
S lrz	S keyword
S lsr	N max
S lsub	T chem
S mark	N arguments
S mov	F direct
S move	T closecomplex
S number	S direct
S off	T eight
S r	S category
S rb	T keys
S rbd	S ad
S rd	S adj
S rh	S arrow
S rn	S au
S rr	S b
S rrb	S c
S rrbd	S cc
S rrd	S ccd
S rrh	S cd
S rrn	S crz
S rrt	S dash
S rrz	S db
S rsr	S diff
S rsub	S dr

S eb	S rz
S ed	S s
S er	S sb
S hb	S sr
S label	S ss
S line	S sub
S lr	S z
S lrb	S zln
S lrbd	S zlt
S lrd	S zn
S lrh	S zrn
S lrn	S zrt
S lrt	S zt
S lrz	S keyword
S lsr	N max
S lsub	T equals
S mark	S direct
S mid	T equilibrium
S mids	N arguments
S midz	F direct
S mir	T five
S mov	S category
S move	S keyword
S number	N max
S off	T fivefront
S r	S category
S rb	S keyword
S rbd	N max
S rd	T four
S rh	S category
S rm	S keyword
S rn	N max
S rot	T gives
S rr	N arguments
S rrb	F direct
S rrbd	T mesomeric
S rrd	N arguments
S rrh	F direct
S rrn	T minus
S rrt	S direct
S rrz	T mp
S rsr	N arguments
S rsub	F direct
S rt	T newmanceclipsed

S category	S direct	
S keyword	T restore	
N max	S direct	
T newmanstagger	T save	
S category	S direct	
S keyword	T seven	
N max	S category	
T nine	S keyword	
S category	N max	
S keyword	T six	
N max	S category	
T one	S keyword	
S category	N max	
S keyword	T sixfront	
N max	S category	
T opencomplex	S keyword	
S direct	N max	
T pb	T space	
S direct	S direct	
T pe	T three	
S direct	S category	
T plus	S keyword	
S direct	N max	
T reset	<b>undefine</b>	function

## containers (context)

**cleanname** function

**content** function

**define** function

**is\_usable** function

**is\_valid** function

**read** function

**usecache** boolean

**write** function

## converters (context)

<b>A</b>	function	<b>cn-a</b>	function
<b>A:es</b>	function	<b>cn-c</b>	function
<b>A:ru</b>	function	<b>cn-d</b>	function
<b>A:sl</b>	function	<b>convert</b>	function
<b>AK</b>	function	<b>decimals</b>	function
<b>Alphabetic</b>	function	<b>define</b>	function
<b>Alphabetic:es</b>	function	<b>gregorian_to_hebrew</b>	function
<b>Alphabetic:ru</b>	function	<b>gregorian_to_jalali</b>	function
<b>Alphabetic:sl</b>	function	<b>hebrewnumerals</b>	function
<b>Character</b>	function	<b>helpers</b>	table
<b>Characters</b>	function	<b>hexstringtonumber</b>	function
<b>I</b>	function	<b>i</b>	function
<b>KA</b>	function	<b>isleapyear</b>	function
<b>KR</b>	function	<b>jalali_to_gregorian</b>	function
<b>R</b>	function	<b>lchexnumber</b>	function
<b>RK</b>	function	<b>lchexnumbers</b>	function
<b>Romannumerals</b>	function	<b>leapyear</b>	function
<b>Russiannumerals</b>	function	<b>lower</b>	function
<b>Sloveniannumerals</b>	function	<b>max</b>	function
<b>Spanishnumerals</b>	function	<b>maxchrs</b>	function
<b>Word</b>	function	<b>nicenumber</b>	function
<b>Words</b>	function	<b>nofdays</b>	function
<b>a</b>	function	<b>number</b>	function
<b>a:es</b>	function	<b>numbers</b>	function
<b>a:ru</b>	function	<b>octnumber</b>	function
<b>a:sl</b>	function	<b>octstringtonumber</b>	function
<b>abjadnodotnumerals</b>	function	<b>ordinal</b>	function
<b>abjadnumerals</b>	function	<b>r</b>	function
<b>alphabetic</b>	function	<b>romannumerals</b>	function
<b>alphabetic:es</b>	function	<b>russiannumerals</b>	function
<b>alphabetic:ru</b>	function	<b>sequences</b>	data table
<b>alphabetic:sl</b>	function	<b>settime</b>	function
<b>character</b>	function	<b>sloveniannumerals</b>	function
<b>characters</b>	function	<b>spaceddigits</b>	function
<b>chineseallnumerals</b>	function	<b>spanishnumerals</b>	function
<b>chinesecapnumerals</b>	function	<b>textime</b>	function
<b>chinesedatenumerals</b>	function	<b>toabjad</b>	function
<b>chinesenumerals</b>	function	<b>tochinese</b>	function
<b>chr</b>	function	<b>tohebrew</b>	function
<b>chrs</b>	function	<b>toroman</b>	function
<b>cn</b>	function	<b>totime</b>	function



**uchexnumber**  
**uchexnumbers**  
**upper**  
**verbose**

D data

function  
function  
function  
table

F translate

**weekday**  
**word**  
**words**

function  
function  
function

## coroutine (basic lua)

**close**        function  
**create**       function  
**isyieldable** function  
**resume**       function

**running**     function  
**status**       function  
**wrap**         function  
**yield**        function

## ctxrunner (context)

**load** function  
**preparedfile** function

**prefiles** data table  
**resolve** function

## debug (basic lua)

**getinfo** function

**sethook** function

**traceback** function

## dir (context)

**collectpattern** function  
**current** function  
**expandlink** function  
**expandname** function  
**found** function  
**glob** function  
**globdirs** function

**globfiles** function  
**globpattern** function  
**ls** function  
**makedirs** function  
**mkdirs** function  
**pop** function  
**push** function

## directives (context)

**data** data table  
**default** function  
**disable** function  
**done** table  
**enable** function  
**list** function  
**name** string

**register** function  
**report** function  
**reset** function  
**show** function  
**value** function  
**values** function

# document (context)

<b>arguments</b>	data table	<b>pdf_cleanup_procsets</b>	function
<b>files</b>	table	<b>pdf_identify_content</b>	function
<b>functions</b>	table	<b>pdf_serialize_content</b>	function
<b>getargument</b>	function	<b>pdf_strip_content</b>	function
<b>getfilename</b>	function	<b>pdf_strip_page</b>	function
<b>options</b>	table	<b>setargument</b>	function
T commandline		<b>setcommandline</b>	function
D environments		<b>setdefaultargument</b>	function
D modes		<b>setenvironments</b>	function
D modules		<b>setfilename</b>	function
T ctxfile		<b>setfilenames</b>	function
D environments		<b>setmodes</b>	function
D modes		<b>setmodules</b>	function
D modules		<b>variables</b>	data table
<b>pdf_cleanup_cidsets</b>	function		

# documentdata (context)

**variable** function



# drivers (context)

<b>applyanchor</b>	function	F rule
<b>applyorientation</b>	function	F simplerule
<b>convert</b>	function	F specialrule
<b>converters</b>	table	F updatefontstate
F analyze		T whatsit
F engine		S name
F lmtx		T json
F resyncbox		T actions
<b>enable</b>	function	F cleanup
<b>finalize</b>	function	F convert
<b>gethpos</b>	function	F finalize
<b>gethrpos</b>	function	F initialize
<b>getpos</b>	function	F outputfilename
<b>getrpos</b>	function	F prepare
<b>getvpos</b>	function	F wrapup
<b>helpers</b>	table	T flushers
<b>initialize</b>	function	F character
<b>install</b>	function	F popleaderlevel
<b>instances</b>	table	F pushleaderlevel
T empty		F rule
T actions		F setstate
F convert		F simplerule
F prepare		F specialrule
T flushers		F updatefontstate
F popleaderlevel		T whatsit
F pushleaderlevel		S name
T whatsit		T lua
S name		T actions
T js		F cleanup
T actions		F convert
F cleanup		F finalize
F convert		F initialize
F finalize		F outputfilename
F initialize		F prepare
F outputfilename		F wrapup
F prepare		T flushers
F wrapup		F character
T flushers		F popleaderlevel
F character		F pushleaderlevel
F popleaderlevel		F rule
F pushleaderlevel		F simplerule

F specialrule	T actions	
F updatefontstate	F cleanup	
T whatsit	F convert	
S name	F finalize	
T mpo	F initialize	
T actions	F outputfilename	
F finalize	F prepare	
F initialize	F wrapup	
T flushers	T flushers	
F character	F character	
F popleaderlevel	F flushimage	
F pushleaderlevel	F fontchar	
F rule	F group	
F simplerule	F literal	
F specialrule	F popgroup	
T whatsit	F popleaderlevel	
S name	F poporientation	
T mps	F pushgroup	
T actions	F pushleaderlevel	
F cleanup	F pushorientation	
F convert	F restore	
F finalize	F rule	
F initialize	F save	
F outputfilename	F setmatrix	
F prepare	F setstate	
F wrapup	F simplerule	
T flushers	F space	
F character	F specialrule	
F popleaderlevel	F startclipping	
F pushleaderlevel	F startmatrix	
F rule	F startmirroring	
F simplerule	F startrotation	
F specialrule	F startscaling	
F updatefontstate	F stopclipping	
T whatsit	F stopmatrix	
S name	F stopmirroring	
T none	F stoprotation	
T actions	F stopscaling	
T flushers	F updatefontstate	
F popleaderlevel	T whatsit	
F pushleaderlevel	S name	
T whatsit	<b>lmtxversion</b>	number
S name	<b>outputfilename</b>	function
T pdf	<b>report</b>	function

## effects (context)

<b>getoctaveloops</b>	function
<b>getoctavemethods</b>	function
<b>getoctavestatus</b>	function
<b>getoctavevariants</b>	function
<b>newoctave</b>	function
<b>octave</b>	function

<b>octavebytemap</b>	function
<b>perlinnoise</b>	function
<b>simplexangle</b>	function
<b>simplexdetail</b>	function
<b>simplexnoise</b>	function
<b>stepoctave</b>	function

## environment (context)

<b>argument</b>	function	<b>luafilechunk</b>	function
<b>arguments</b>	data table	<b>luatexengine</b>	string
<b>basicengines</b>	data table	<b>luatexfunctionality</b>	number
<b>currentrun</b>	number	<b>luatexverbose</b>	string
<b>definefilefallback</b>	function	<b>luatexversion</b>	number
<b>definefilesynonym</b>	function	<b>maxnofruns</b>	number
<b>engineflags</b>	data table	<b>oldhome</b>	string
<b>filename</b>	string	<b>originalarguments</b>	data table
<b>filenames</b>	table	<b>outputfilename</b>	string
<b>files</b>	table	<b>ownbin</b>	string
<b>filesynonyms</b>	data table	<b>ownmain</b>	string
<b>forcedruns</b>	number	<b>ownname</b>	string
<b>getargument</b>	function	<b>ownpath</b>	string
<b>globfiles</b>	function	<b>prerollrun</b>	boolean
<b>homedir</b>	string	<b>rawarguments</b>	data table
<b>initex</b>	boolean	<b>reconstructcommandline</b>	function
<b>initexmode</b>	boolean	<b>relativepath</b>	function
<b>initializearguments</b>	function	<b>setargument</b>	function
<b>initializefilenames</b>	function	<b>splitarguments</b>	function
<b>inputfilebarename</b>	string	<b>suffix</b>	string
<b>inputfilename</b>	string	<b>texfile</b>	function
<b>inputfilesuffix</b>	string	<b>texmfos</b>	string
<b>jobfilefullname</b>	string	<b>texos</b>	string
<b>jobfilename</b>	string	<b>texroot</b>	string
<b>jobfilesuffix</b>	string	<b>truefilename</b>	function
<b>kindofrun</b>	number	<b>uselua module</b>	function
<b>lmtxmode</b>	number	<b>usemodules</b>	function
<b>loadexamodes</b>	function	<b>validengines</b>	data table
<b>loadluafile</b>	function	<b>version</b>	string
<b>luafile</b>	function		

## experiments (context)

**data** data table  
**default** function  
**disable** function  
**enable** function  
**list** function  
**name** string

**register** function  
**report** function  
**reset** function  
**show** function  
**value** function  
**values** function

# figures (context)

<b>applyratio</b>	function	F resetdata	
<b>badname</b>	function	F resetstore	
<b>bases</b>	data table	F scan	
<b>bitmapimage</b>	function	F serialize	
<b>boxnumber</b>	number	T sizes	
<b>bytepalette</b>	function	B art	
<b>cachepaths</b>	data table	B bleed	
<b>check</b>	function	B crop	
<b>checkers</b>	data table	B media	
<b>conversions</b>	data table	B none	
<b>converters</b>	data table	B trim	
<b>current</b>	function	F storedata	
<b>defaultdepth</b>	number	F totable	
<b>defaultheight</b>	number	T types	
<b>defaultsearch</b>	boolean	N jbig2	
<b>defaultwidth</b>	number	N jp2	
<b>done</b>	function	N jpg	
<b>dummy</b>	function	N none	
<b>exists</b>	data table	N pdf	
<b>exists</b>	function	N png	
<b>formats</b>	data table	N stream	
<b>found</b>	data table	F wrap	
<b>get</b>	function	<b>include</b>	function
<b>getinfo</b>	function	<b>includers</b>	data table
<b>getpdfinfo</b>	function	<b>initialize</b>	function
<b>getrealpage</b>	function	<b>loaded</b>	data table
<b>guess</b>	function	<b>localpaths</b>	data table
<b>guessfromstring</b>	function	<b>magics</b>	data table
<b>hash</b>	function	<b>mergegoodies</b>	function
<b>identifiers</b>	data table	<b>nofmissing</b>	number
<b>identify</b>	function	<b>nofprocessed</b>	number
<b>images</b>	table	<b>order</b>	data table
F check		<b>palettes</b>	table
F checksize		<b>paths</b>	data table
F copy		<b>patterns</b>	data table
F create		<b>pop</b>	function
F embed		<b>preferquality</b>	boolean
F embedfromstore		<b>programs</b>	data table
F fetchdata		<b>push</b>	function
T keys		<b>qrcode</b>	function
F print		<b>registerpattern</b>	function

<b>registerresource</b>	function	<b>setconversion</b>	function
<b>registersuffix</b>	function	<b>setlookups</b>	function
<b>remappers</b>	data table	<b>setorder</b>	function
<b>resources</b>	data table	<b>setpaths</b>	function
<b>scale</b>	function	<b>suffixes</b>	data table
<b>set</b>	function	<b>used</b>	data table

## file (basic lua)

<b>addsuffix</b>	function	<b>needsupdating</b>	function
<b>basename</b>	function	<b>pathpart</b>	function
<b>checksum</b>	function	<b>readdata</b>	function
<b>collapsepath</b>	function	<b>removesuffix</b>	function
<b>copy</b>	function	<b>replacesuffix</b>	function
<b>dirname</b>	function	<b>reslash</b>	function
<b>expandname</b>	function	<b>robustname</b>	function
<b>extname</b>	function	<b>savechecksum</b>	function
<b>is_qualified_path</b>	function	<b>savedata</b>	function
<b>is_readable</b>	function	<b>size</b>	function
<b>is_rootbased_path</b>	function	<b>splitbase</b>	function
<b>is_writable</b>	function	<b>splitname</b>	function
<b>isreadable</b>	function	<b>splitpath</b>	function
<b>iswritable</b>	function	<b>suffix</b>	function
<b>join</b>	function	<b>suffixes</b>	function
<b>joinpath</b>	function	<b>suffixesonly</b>	function
<b>loadchecksum</b>	function	<b>suffixonly</b>	function
<b>nameonly</b>	function	<b>syncmtimes</b>	function
<b>nametotable</b>	function	<b>withinbase</b>	function
<b>needs Updating</b>	function		



## fio (extra lua)

<b>getposition</b>	function	<b>readinteger1le</b>	function
<b>read2dot14</b>	function	<b>readinteger2</b>	function
<b>readbytes</b>	function	<b>readinteger2le</b>	function
<b>readbytetable</b>	function	<b>readinteger3</b>	function
<b>readcardinal1</b>	function	<b>readinteger3le</b>	function
<b>readcardinal1le</b>	function	<b>readinteger4</b>	function
<b>readcardinal2</b>	function	<b>readinteger4le</b>	function
<b>readcardinal2le</b>	function	<b>readintegertable</b>	function
<b>readcardinal3</b>	function	<b>setposition</b>	function
<b>readcardinal3le</b>	function	<b>skipposition</b>	function
<b>readcardinal4</b>	function	<b>writecardinal1</b>	function
<b>readcardinal4le</b>	function	<b>writecardinal1le</b>	function
<b>readcardinaltable</b>	function	<b>writecardinal2</b>	function
<b>readcline</b>	function	<b>writecardinal2le</b>	function
<b>readcstring</b>	function	<b>writecardinal3</b>	function
<b>readfixed2</b>	function	<b>writecardinal3le</b>	function
<b>readfixed4</b>	function	<b>writecardinal4</b>	function
<b>readinteger1</b>	function	<b>writecardinal4le</b>	function

## floats (context)

**analysemethod** function  
**checkedpagefloat** function  
**collect** function  
**consult** function  
**flush** function  
**getvariable** function  
**hasstacked** function

**nofstacked** function  
**pop** function  
**push** function  
**resave** function  
**save** function  
**stacked** function

## font (basic tex)

<b>addcharacters</b>	function	<b>getmathspec</b>	function
<b>addquality</b>	function	<b>getparameterfields</b>	function
<b>current</b>	function	<b>gettextcharacterfields</b>	function
<b>define</b>	function	<b>id</b>	function
<b>getfont</b>	function	<b>max</b>	function
<b>getfontdimen</b>	function	<b>nextid</b>	function
<b>getfontfields</b>	function	<b>setfont</b>	function
<b>getfontspec</b>	function	<b>setfontdimen</b>	function
<b>getmathcharacterfields</b>	function	<b>xscaled</b>	function
<b>getmathindex</b>	function	<b>yscaled</b>	function

# fonts (context)

<b>analyzers</b>	table	F beforepassingfonttotex
D features		D cache
D initializers		F calculatyscale
D methods		F checkedfeatures
F setstate		F checkedfilename
D states		F collectprocessors
B useunicodemarks		F currentfonthasfeature
<b>callbacks</b>	table	D designsizes
F compile		F enhanceparameters
F devirtualize		T enhancers
<b>checkers</b>	table	T afm
F getmissing		F apply
D mapping		F patch
F missing		T patches
F placeholder		F register
<b>cid</b>	table	F report
F getmap		F register
F loadfile		F report
<b>collections</b>	table	T off
F checkenabled		F addfeature
F clonevector		F apply
F define		F enhance
T definitions		F patch
F direct		T patches
F found		F register
F prepare		F report
F process		F register
F register		F report
F registermain		T tfm
F report		F apply
F reset		F patch
T rscales		T patches
T vectors		F register
<b>constructors</b>	table	F report
F addcharacters		F register
F addcoreunicodes		F report
F aftercopyingcharacters		N factor
F applyfinalizers		T features
F applymanipulators		D afm
F assignmathparameters		D off
F beforecopyingcharacters		D tfm

F finalize	S defaultbasealternate
F getfeatureaction	S defaultnodealternate
F getmathparameter	D features
F getprivate	F featuresinitializer
T handlers	F featuresprocessor
T afm	T fixers
B autoprefixed	F getactualtext
D cache	F getalternate
D features	F getgsub
F getkern	F getkern
T helpdata	F getmultiple
D bothkerned	F getstreamhash
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D ligatures	T handlers
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D texligatures	F devanagari_remove_joiners
F load	F devanagari_reorder_matras
T readers	F devanagari_reorder_pre_base_reordering_consonants
F getinfo	F devanagari_reorder_reph
F loadfont	F gpos_context
F loadshapes	F gpos_contextchain
F setfeatures	F gpos_cursive
B syncspace	F gpos_mark2base
N version	F gpos_mark2ligature
T otf	F gpos_mark2mark
F addfeature	F gpos_pair
F basemodeinitializer	F gpos_single
D cache	F gsub_alternate
F collectlookups	F gsub_context
T coverup	F gsub_contextchain
T actions	F gsub_ligature
F alternate	F gsub_multiple
F chainposition	F gsub_reversecontextchain
F chainsubstitution	F gsub_single
F kern	F trigger_space_kerns
F ligature	T helpers
F multiple	F blockligatures
F pair	F pardirstate
F single	F txtfirststate
F substitution	F load
F register	F loadoutlinedata
S stepkey	F loadstreamdata
F dataset	F modeinitializer
F datasetpositionprocessor	D mpscache

D pdfcache	T gsubhandlers
F plugininitializer	F alternate
F pluginprocessor	F chainedcontext
T plugins	F context
T text	F extension
D pngcache	F ligature
B pngenabled	F multiple
T readers	F reversechainedcontextsingl
F addunicodetable	F single
F avar	F gvar
F cbdt	F head
F cblc	T helpers
F cff	F axistofactors
F cff2	F cleanname
T cffencoder	F getaxisscale
F checkhash	F getfactors
F cmap	F getscales
F colr	F gotodatatable
F compact	F normalizedaxis
F condense	T normalizedaxishash
F cpal	F readvariationdata
F dsig	F reportskippedtable
F ebdt	F setvariabledata
F eblc	F hhea
F ebsc	F hmtx
F expand	F hvar
F extend	F kern
F fvar	F loadfont
F gdef	F loadshapes
F getcomponents	F loca
F getinfo	F math
F glyf	F maxp
F gpos	F mvar
T gposhandlers	F name
F chainedcontext	F os/2
F context	F pack
F cursive	F parsecharstrings
F extension	F post
F marktobase	F potracetocff
F marktligature	F registerextender
F marktmark	F rehash
F pair	F sbix
F single	F stat
F gsub	T streamreader

F close	F writecardinal1
F getposition	F writecardinal1le
F getsize	F writecardinal2
F look	F writecardinal2le
F open	F writecardinal3
F read2dot14	F writecardinal3le
F readbyte	F writecardinal4
F readbytes	F writecardinal4le
F readbytetable	F writeinteger1
F readcardinal	F writeinteger1le
F readcardinal1	F writeinteger2
F readcardinal1le	F writeinteger2le
F readcardinal2	F writeinteger3
F readcardinal2le	F writeinteger3le
F readcardinal3	F writeinteger4
F readcardinal3le	F writeinteger4le
F readcardinal4	F writestring
F readcardinal4le	F stripredundant
F readcardinaltable	F svg
F readchar	N tableversion
F readcline	F unifymissing
F readcstring	F unpack
F readfixed2	F vhea
F readfixed4	F vmtx
F readinteger	F vorg
F readinteger1	F vvar
F readinteger1le	F woff2otf
F readinteger2	F registerpalette
F readinteger2le	F registerplugin
F readinteger3	F reorderlookups
F readinteger3le	F scriptandlanguage
F readinteger4	F setdynamics
F readinteger4le	F setfeatures
F readintegertable	T statistics
F readsignedbyte	D usedfeatures
F readstring	D svgcache
F readtag	B svgenabled
F setposition	T tables
F size	D baselines
F skip	D features
F skiplong	D featuretypes
F skipposition	D languages
F skipshort	D scripts
F writebyte	F texthandler

T vectors	F combine	
T arab	T combiner	
T gpos	D commands	
N curs	D helpers	
N kern	D math	
N mark	D predefined	
N mkmk	N version	
T gsub	D whatever	
N calt	F hashfeatures	
N ccmp	F hashinstance	
N cswh	T hashmethods	
N dlig	F normal	
N fina	F virtual	
N init	F initializefeatures	
N isol	D loadedfonts	
N liga	N noffontsloaded	
N medi	N nofsharedfonts	
N mset	N nofsharedhashes	
N rclt	N nofsharedvectors	
N rlig	N privateoffset	
N version	D privateslots	
T pfb	F readanddefine	
F filterencoding	F registerfeature	
F filtermetadata	F registerscriptset	
F loadvector	F resetfeature	
N version	B resolvevirtualtoo	
T tfm	F scale	
D cache	F scaled	
D features	F setfactor	
N maxnestingdepth	F setfeature	
N maxnestingsize	F setmathparameter	
T readers	F setname	
F loadpk	B sharefonts	
F loadtfm	F trytosharefont	
F loadtfmvf	N version	
F loadvf	<b>current</b>	function
F pktopdf	<b>currentid</b>	function
F potracetopdf	<b>definers</b>	table
F showpk	F addlookup	
F reencode	F analyze	
F setfeatures	F applypostprocessors	
N version	F checkedmode	
T vf	F checkedscript	
T combinations	S defaultlookup	



- F define
- F getspecification
- F internal
- F loadfont
- F makespecification
- T methods
  - F install
  - D variants
- F read
- F register
- F registered
- F registerfallbackfont
- F registersplit
- F resetnullfont
- F resolve
- T resolvers
  - F file
  - F name
  - F spec

**definetypeface**      function

**dropins**              table

- F clone
- F getshape
- F getshapes
- F nextid
- F provide
- F registerglyph
- F registerglyphs
- F swap
- F swapone

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**encodings**            table

- T agl
  - D ctxcodes
  - D extras
  - D synonyms
  - D unicodes
- D cache
- F is\_known
- D known
- F load
- F make\_unicode\_vector
- D math
- N version

- enhanceid**            function
- expansions**         data table
- formats**             data table
- getalternate**        function
- getindices**         function
- getkern**             function
- getmultiple**        function
- getsubstitution**    function
- getters**             table

- T alternate
- F opentype
- T kern
- F opentype
- F type1
- F type3
- T multiple
- F opentype
- T substitution
- F opentype

**goodies**              table

- D colorschemes
- T data
  - T common-math.lfg
    - S author
    - S comment
    - S copyright
  - B initialized
  - T mathematics
  - T tweaks
- T presets
  - F addmathkerns
  - F braille
  - F eulertocalligraphic
  - F fallbacks
  - F moderntocalligraphic
  - F moveintegrals
  - F moveitalics
  - F pagellaradical
  - F rsfstoscript
  - F rsfsuprighttoscript
  - F scripttocalligraphic
  - F smallldigits
  - F wipeanchors
  - F wipeitalics

F xitsarabic  
 S name  
 S version  
 T dejavu-math  
 S author  
 S comment  
 S copyright  
 B initialized  
 T mathematics  
 T alternates  
 T dotless  
 S comment  
 S feature  
 N value  
 T bigslots  
 T parameters  
 N AccentBaseDepth  
 N AccentTopShiftUp  
 N DelimiterDisplayPercent  
 N DelimiterDisplayShortfall  
 N DelimiterPercent  
 N DelimiterShortfall  
 N DisplayOperatorMinHeight  
 N FlattenedAccentTopShiftUp  
 N FractionRuleThickness  
 S PrimeBaselineDropMax  
 S PrimeShiftUp  
 S PrimeShiftUpCramped  
 N SubscriptShiftDown  
 S SubscriptShiftDownWithSuperscript  
 N SuperscriptShiftUp  
 T tweaks  
 T aftercopying  
 S name  
 S version  
 T dejavu-text  
 S author  
 S comment  
 S copyright  
 T extensions  
 B initialized  
 S name  
 S version  
 D designsizes

D filenames  
 F getcompositions  
 T list  
 F load  
 F prepare\_features  
 F register  
 F registerpostprocessor  
 F report  
 T suffixes

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D characters  
 D classes  
 D csnames  
 D descriptions  
 D dynamics  
 D emwidths  
 D exheights  
 D features  
 D identifiers  
 D italics  
 D lastmathids  
 D marks  
 D mathparameters  
 D modes  
 D originals  
 D parameters  
 T processes  
 D properties  
 D quads  
 D resources  
 T setdynamics  
 T shapes  
 D spaces  
 D spacings  
 T streams  
 D unicodes  
 D unislots  
 D variants  
 D xheights

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 F addprivate  
 F appendcommands

F appendcommandtable	F startcolor	
F checkflags	F stopcolor	
F checkmerge	T vfspecials	
F checksteps	T backgrounds	
F collectanchors	T outlines	
F combineglyphs	<b>infofont</b>	function
D commands	<b>iterators</b>	table
F composecharacters	F characters	
F descriptiontoslot	F descriptions	
F dimenfactor	F glyphs	
F expandglyph	<b>loggers</b>	table
D extraprivates	F format	
F fontpatternhassize	F onetimemessage	
F getcoloredglyphs	F register	
F getdigitwidth	F reportdefinedfonts	
F getinstancespec	F reportusedfeatures	
F getparameters	<b>mappings</b>	table
F getprivatecharornode	F addtounicode	
F getprivatenode	F fromunicode16	
F getprivates	F getentry	
F getprivateslot	F loadfile	
F glyphdimenfactor	F loadline	
F hasprivate	F makenameparser	
F indextoslot	D overloads	
F isprivate	F reset	
F mathscriptslots	F tounicode	
F name	F tounicode16	
F nametoslot	F tounicode16sequence	
F newprivateslot	<b>metapost</b>	table
F prependcommands	F baseline	
F prependcommandtable	F boundingbox	
F privateslot	F boxtomp	
F registerglyphbox	F boxtompdimensions	
F scalecommands	F boxtomposition	
F setboxdirectly	F draw	
F setboxglyph	F fill	
F setboxglyphs	F glyph	
F setdigitwidth	F maxbounds	
F setmetaglyph	F paths	
F setmetaglyphs	F widthline	
D sharedprivates	F zeroline	
F splitfontpattern	<b>mode</b>	function
F tochar	<b>names</b>	data table
T vfinjectors	<b>nulldata</b>	data table

<b>privateoffsets</b>	table	F registerfallback
B keepnames		F registerfiles
N mathbase		F registerfontalternative
N mathextrabase		F registerfontfamily
N textbase		F textfallback
N textextrabase		F typeface
<b>protrusions</b>	data table	F typescript
<b>readers</b>	table	F userdata
F afm		<b>specifiers</b>
F check_lua		table
F check_tfm		D contextmerged
F lua		F contextnumber
F ofm		D contextnumbers
F opentype		D contextsetups
F otf		F contexttostring
F pfb		F definecontext
D sequence		F mergecontext
F tfm		F presetcontext
F ttc		F registercontext
F ttf		T scriptsets
F woff		T af
<b>registersanitizer</b>	function	S language
<b>reserveid</b>	function	N number
<b>select</b>	table	S script
D alternatives		T always
F bodyfont		S autolanguage
D data		S autoscript
F default		B checkmissing
D defaults		B compoundhyphen
F definefallbackfamily		B curs
F definefontfamily		B kern
F definefontfamilypreset		B mark
D extras		B mkmk
F fallback		S mode
D fallbacks		N number
F features		S script
F filefallback		S textcontrol
F fontdata		B wipemath
F fontfallback		T arabic
F fontsynonym		B analyze
F goodies		S autolanguage
F mathfallback		S autoscript
D methods		B calt
D presets		B ccmp
		B clig

B curs	B pstf
B dlig	B psts
B fina	B rphf
B init	S script
B isol	B vatu
B kern	T bengali-two
S language	B abvm
B liga	B abvs
B mark	B akhn
B medi	B blwf
B mkmk	B blwm
S mode	B blws
N number	B calt
B rlig	B cjct
S script	B dist
T ba	B half
S language	B haln
N number	S indic
S script	B init
T bandw:overlay	B kern
B ccmp	S language
B dist	B locl
N number	S mode
T bengali-one	B nukt
B abvm	N number
B abvs	B pres
B akhn	B pstf
B blwf	B psts
B blwm	B rphf
B blws	S script
B calt	B vatu
B cjct	T boldened
B dist	S effect
B half	N number
B haln	T boldened-10
S indic	S effect
B init	N number
B kern	T boldened-15
S language	S effect
B locl	N number
S mode	T boldened-20
B nukt	S effect
N number	N number
B pres	T boldened-25

S effect	B liga
N number	B mark
T boldened-30	B mkmk
S effect	S mode
N number	N number
T ca	S script
S language	S textcontrol
N number	B wipemath
S script	T cy
T camelcasing	S language
B camelcasing	N number
N number	S script
T cn	T cz
S language	S language
N number	N number
S script	S script
T color	T de
B ccmp	S language
S color	N number
B dist	S script
N number	T default
T color:bitmap	S autolanguage
B ccmp	S autoscript
B dist	B checkmissing
N number	B compoundhyphen
B sbix	B curs
T color:overlay	B itlc
B ccmp	B kern
B colr	B liga
B dist	B mark
N number	B mkmk
T color:svg	S mode
B ccmp	N number
B dist	S script
N number	S textcontrol
B svg	B wipemath
T complete	T deo
S autolanguage	S language
S autoscript	N number
B checkmissing	S script
B compose	T devanagari-one
B compoundhyphen	B abvm
B curs	B abvs
B kern	B akhn

B blwf	S script
B blwm	B vatu
B blws	T dingbats
B calt	S goodies
B cjct	S mode
B dist	N number
B half	B unicoding
B haln	T es
S indic	S language
B kern	N number
S language	S script
B locl	T et
S mode	S language
B nukt	N number
N number	S script
B pres	T f:fractions
B psts	B frac
B rkrf	N number
B rphf	T f:inferiors
S script	N number
B vatu	B subs
T devanagari-two	T f:kern
B abvm	B kern
B abvs	N number
B akhn	T f:kerns
B blwf	B kern
B blwm	N number
B blws	T f:oldstyle
B calt	N number
B cjct	B onum
B dist	T f:smallcaps
B half	N number
B haln	B smcp
S indic	T f:superiors
B kern	N number
S language	B sups
B locl	T f:tabular
S mode	N number
B nukt	B tnum
N number	T fi
B pres	S language
B psts	N number
B rkrf	S script
B rphf	T followtext

B liga	B akhn
N number	B blwf
T fr	B blwm
S language	B blws
N number	B calt
S script	B cjct
T fullprotrusion	B dist
N number	B half
S protrusion	B haln
T gr	S indic
S language	B kern
N number	S language
S script	B locl
T grek	S mode
N number	B nukt
S script	N number
T gujarati-one	B pres
B abvm	B psts
B abvs	B rkrf
B akhn	B rphf
B blwf	S script
B blwm	B vatu
B blws	T gurmukhi-one
B calt	B abvm
B cjct	B abvs
B dist	B akhn
B half	B blwf
B haln	B blwm
S indic	B blws
B kern	B calt
S language	B cjct
B locl	B dist
S mode	B half
B nukt	B haln
N number	S indic
B pres	B kern
B psts	S language
B rkrf	B locl
B rphf	S mode
S script	B nukt
B vatu	N number
T gujarati-two	B pres
B abvm	B pstf
B abvs	B psts



B rphf	B medi
S script	B mkmk
B vatu	S mode
T gurmukhi-two	N number
B abvm	B reordercombining
B abvs	B rlig
B akhn	S script
B blwf	T hr
B blwm	S language
B blws	N number
B calt	S script
B cjct	T hu
B dist	S language
B half	N number
B haln	S script
S indic	T indic-common
B kern	B abvm
S language	B abvs
B locl	B akhn
S mode	B blwm
B nukt	B blws
N number	B calt
B pres	B dist
B pstf	B haln
B psts	S indic
B rphf	B kern
S script	S language
B vatu	B locl
T hebrew	S mode
B analyze	B nukt
S autolanguage	N number
S autoscript	B pres
B calt	B psts
B ccmp	B rphf
B clig	T inlinenumbers
B curs	N number
B dlig	B pnun
B fina	B tnum
B init	T is
B isol	S language
B kern	N number
S language	S script
B liga	T it
B mark	S language

N number	B blwf
S script	B blwm
T ja	B blws
S language	B calt
N number	B cjct
S script	B dist
T jamoforms	B half
B ljmo	B haln
N number	S indic
B tjmo	B kern
B vjmo	S language
T just-os	B locl
S mode	S mode
N number	B nukt
B onum	N number
T kannada-one	B pref
B abvm	B pres
B abvs	B pstf
B akhn	B psts
B blwf	B rphf
B blwm	S script
B blws	T la
B calt	S language
B cjct	N number
B dist	S script
B half	T latn
B haln	N number
S indic	S script
B kern	T letterspacing
S language	B ccmp
B locl	B clig
S mode	B dlig
B nukt	S keepligatures
N number	B liga
B pref	N number
B pres	B rlig
B pstf	T ligatures
B psts	S autolanguage
B rphf	S autoscript
S script	B checkmissing
T kannada-two	B compoundhyphen
B abvm	B curs
B abvs	B kern
B akhn	B liga

B mark	B blws
B mkmk	B calt
S mode	B cjct
N number	B dist
S script	B half
S textcontrol	B haln
B wipemath	S indic
T lm-math-bold	B kern
S effect	S language
N number	B locl
T lowercasing	S mode
B lowercasing	B nukt
N number	N number
T malayalam-one	B pref
B abvm	B pres
B abvs	B pstf
B akhn	B psts
B blwf	B rphf
B blwm	S script
B blws	T math
B calt	B compactmath
B cjct	B flattenaccents
B dist	B kern
B half	S language
B haln	B mathalternates
S indic	S mathexpansion
B kern	S mode
S language	N number
B locl	S script
S mode	B ssty
B nukt	B wipemath
N number	T math-script
B pref	B compactmath
B pres	B flattenaccents
B pstf	B kern
B psts	S language
B rphf	B mathalternates
S script	S mathexpansion
T malayalam-two	S mode
B abvm	N number
B abvs	S script
B akhn	N ssty
B blwf	B wipemath
B blwm	T math-scriptscript

B compactmath  
B flattenaccents  
B kern  
S language  
B mathalternates  
S mathexpansion  
S mode  
N number  
S script  
N ssty  
B wipemath  
T math-text  
B compactmath  
B flattenaccents  
B kern  
S language  
B mathalternates  
S mathexpansion  
S mode  
N number  
S script  
B ssty  
B wipemath  
T mathematics  
B compactmath  
B flattenaccents  
B kern  
S language  
B mathalternates  
S mathexpansion  
S mode  
N number  
S script  
B wipemath  
T mixed  
T mongolian  
S autolanguage  
S autoscript  
B calt  
B checkmissing  
B compoundhyphen  
B curs  
B fina  
B init

B isol  
B itlc  
B kern  
B liga  
B mark  
B medi  
B mkmk  
S mode  
B mset  
N number  
B rclt  
B rlig  
S script  
S textcontrol  
B wipemath  
T nl  
S language  
N number  
S script  
T none  
B features  
S mode  
N number  
T oldstyle  
S autolanguage  
S autoscript  
B checkmissing  
B compoundhyphen  
B curs  
B kern  
B liga  
B mark  
B mkmk  
S mode  
N number  
B onum  
S script  
S textcontrol  
B wipemath  
T oldstylenumbers  
N number  
B onum  
T original  
S autolanguage

S autoscript	B calt
B checkmissing	B cjct
B compoundhyphen	B dist
B curs	B haIn
B itlc	S indic
B kern	B kern
B liga	S language
B mark	B locl
B mkmk	S mode
S mode	B nukt
N number	N number
S script	B pres
S textcontrol	B pstf
B wipemath	B psts
T oriya-one	B rphf
B abvm	S script
B abvs	T pl
B akhn	S language
B blwf	N number
B blwm	S script
B blws	T primes
B calt	N number
B cjct	B primes
B dist	T pt
B haIn	S language
S indic	N number
B kern	S script
S language	T quality
B locl	S expansion
S mode	N number
B nukt	S protrusion
N number	T recommended
B pres	S autolanguage
B pstf	S autoscript
B psts	B calt
B rphf	B checkmissing
S script	B clig
T oriya-two	B compoundhyphen
B abvm	B curs
B abvs	B itlc
B akhn	B kern
B blwf	B liga
B blwm	B mark
B blws	B mkmk

S mode	B curs
N number	B fina
B rlig	B init
S script	B isol
S textcontrol	B kern
B wipemath	S language
T reordercombining	B mark
N number	B medi
B reordercombining	B mkmk
T ro	S mode
S language	N number
N number	B rlig
S script	T simplearabic
T ru	B analyze
S language	S autolanguage
N number	S autoscript
S script	B calt
T semitic-complete	B ccmp
B analyze	B curs
S autolanguage	B fina
S autoscript	B init
B calt	B isol
B ccmp	B kern
B clig	S language
B curs	B mark
B dlig	B medi
B fina	B mkmk
B init	S mode
B isol	N number
B kern	B rlig
S language	S script
B liga	T simplehebrew
B mark	B analyze
B medi	S autolanguage
B mkmk	S autoscript
S mode	B calt
N number	B ccmp
B rlig	B curs
T semitic-simple	B fina
B analyze	B init
S autolanguage	B isol
S autoscript	B kern
B calt	S language
B ccmp	B mark

B medi	B dlig
B mkmk	B fin2
S mode	B fin3
N number	B fina
B rlig	B init
S script	B isol
T sk	B kern
S language	S language
N number	B liga
S script	B mark
T sl	B med2
S language	B medi
N number	B mkmk
S script	S mode
T slanted	N number
N number	B rlig
N slant	S script
T smallcaps	T system:tabnum
S autolanguage	B lnum
S autoscript	N number
B checkmissing	B tnum
B compoundhyphen	T tabledigits
B curs	N number
B kern	B tabledigits
B mark	B tnum
B mkmk	T tabulardigits
S mode	N number
N number	B pnum
S script	B tnum
B smcp	T tamil-one
S textcontrol	B abvm
B wipemath	B abvs
T sv	B akhn
S language	B blwm
N number	B blws
S script	B calt
T syriac	B dist
B analyze	B half
S autolanguage	B haln
S autoscript	S indic
B calt	B kern
B ccmp	S language
B clig	B locl
B curs	S mode

B nukt  
N number  
B pref  
B pres  
B psts  
B rphf  
S script  
T tamil-two  
B abvm  
B abvs  
B akhn  
B blwm  
B blws  
B calt  
B dist  
B half  
B haln  
S indic  
B kern  
S language  
B locl  
S mode  
B nukt  
N number  
B pref  
B pres  
B psts  
B rphf  
S script  
T telugu-one  
B abvm  
B abvs  
B akhn  
B blwf  
B blwm  
B blws  
B calt  
B cjct  
B dist  
B half  
B haln  
S indic  
B kern  
S language

B locl  
S mode  
B nukt  
N number  
B pref  
B pres  
B pstf  
B psts  
B rphf  
S script  
T telugu-two  
B abvm  
B abvs  
B akhn  
B blwf  
B blwm  
B blws  
B calt  
B cjct  
B dist  
B half  
B haln  
S indic  
B kern  
S language  
B locl  
S mode  
B nukt  
N number  
B pref  
B pres  
B pstf  
B psts  
B rphf  
S script  
T th  
S language  
N number  
S script  
T tibetan  
B abvm  
B abvs  
S autolanguage  
S autoscript



B blwm  
 B blws  
 B calt  
 B ccmp  
 B checkmissing  
 B compoundhyphen  
 B curs  
 B kern  
 S language  
 B liga  
 B locl  
 B mark  
 B mkmk  
 S mode  
 N number  
 S script  
 S textcontrol  
 B wipemath  
 T tr  
 S language  
 N number  
 S script  
 T uk  
 S language  
 N number  
 S script  
 T uppercasing  
 N number  
 B uppercasing  
 T us  
 S language  
 N number  
 S script  
 T virtualmath  
 B compactmath  
 B flattenaccents

B kern  
 S language  
 B mathalternates  
 S mathexpansion  
 S mode  
 N number  
 S script  
 B wipemath  
 T vn  
 S language  
 N number  
 S script  
 T zero  
 N number  
 B zero  
 F showcontext  
 F splitcontext  
 D synonyms  
 D variants

**symbols** table

T emoji  
 F checked  
 F resolved  
 F uselibrary

**tables** table

**toeffect** function

**tracers** table

**treatments** table

F applyfixes  
 D data  
 S filename  
 F ignoredfile  
 F report  
 F trace

**typefaces** table

# functions (context)

**dummy** function

# globaldata (context)

<b>CONTEXTLMTXMODE</b>	number	F colorcomponents
<b>LUAFORMAT</b>	number	D counts
<b>LUAMAJORVERSION</b>	number	B couple
<b>LUAMINORVERSION</b>	number	F currentmodel
<b>LUATEXENGINE</b>	string	F currentnamedmodel
<b>LUATEXFORMATID</b>	number	D data
<b>LUATEXFUNCTIONALITY</b>	number	N default
<b>LUATEXVERBOSE</b>	string	F defineintermediatecolor
<b>LUATEXVERSION</b>	number	F definemultitonecolor
<b>LUAVERSION</b>	number	F defineprocesscolor
<b>MP</b>	function	F defineprocesscolordirect
<b>SAVEDREQUIRE</b>	function	F definesimplegray
<b>aes</b>	table	F definespotcolor
F decode		F definetransparency
F encode		F enable
F random		F filter
<b>arg</b>	table	N forced
<b>assert</b>	function	F forcedmodel
<b>attributes</b>	table	F forcesupport
T alternates		F formatcolor
N attribute		F formatgray
D data		F formatluminance
F enable		F formatluminanceratio
F handler		F getpagecolormodel
F register		F gray
D registered		F graytohsv
D values		F handler
F applyoverloads		F hsvtorgb
F checkvalues		F hsvtorgb
T colorintents		F hwborgb
N attribute		F iccprofile
D data		F isblack
F enable		F labtolch
F handler		F labtorgb
F register		F labtoxyz
D registered		F lchtolab
T colors		F lchtorgb
N attribute		N main
F cmyk		S model
F cmyktorgb		D models
		F mpcolor

F mnamedcolor	F register
F mpoptions	D registered
F namedcolorattributes	D values
N none	F getvalue
F popset	F getvalues
F processcolorcomponents	T handlers
F pushset	F hasvalues
F register	D list
D registered	F markasoverload
F registerspotcolor	D names
F rgb	T negatives
F rgbbytes	N attribute
F rgbtocmyk	D data
F rgbtograd	F enable
F rgbtohsv	F handler
F rgbtoxyz	F register
N selector	D registered
F setlist	F set
F setmodel	D numbers
F setpagecolormodel	F ofnode
D sets	F private
F spec	F public
F spot	F registervalue
F spotcolorname	F restore
F spotcolorparent	F save
F spotcolorvalue	F setcleaner
B supported	F showcurrent
F toattributes	T states
F transparencycomponents	F disabletriggering
B triggering	F enabletriggering
F usecolors	F finalize
D valid	F initialize
F value	F process
D values	F selective
B weightgrad	F simple
F xyztolab	F stacked
F xyztorgb	F stacker
D counts	F system
F define	F tooverloads
T effects	T transparencies
N attribute	N attribute
D data	D data
F enable	F enable
F handler	F forcesupport

F handler		F getcallbackstate	
N none		T included	
F register		B context	
D registered		B date	
B supported		B id	
F toattribute		B metadata	
B triggering		B pdf	
F value		F initialize	
D values		F latelua	
N unsetvalue		T nodeinjections	
D values		F nothing	
T viewerlayers		F openout	
N attribute		T registered	
F cleanup		T registrations	
D data		F setencryption	
F define		T tables	
F definedlayoutcomponent		F writeout	
F enable		<b>basexx</b>	table
F forcesupport		F decode16	
F handler		F decode64	
B hasorder		F decode85	
D listwise		F decodeLZW	
F register		F decodeRL	
D registered		F encode16	
F resolve_begin		F encode64	
F resolve_end		F encode85	
F resolve_reset		F encodeLZW	
F resolve_step		F encodeRL	
D scopes		<b>bibtex</b>	table
F setfeatures		<b>bit32</b>	table
F setup		F arshift	
F start		F band	
F stop		F bnot	
B supported		F bor	
D values		F btest	
<b>backends</b>	table	F bxor	
F closeout		F extract	
T codeinjections		F lrotate	
F registerboxresource		F lshift	
F registerfont		F replace	
F restoreboxresource		F rrotate	
S current		F rshift	
T defaults		<b>blobs</b>	table
D tables		F append	

F dimensions		F checksidefloat
F dispose		T hpack
F new		F qualityactions
F pack		F report
F strdp		F show
F strhd		T kernel
F strht		F collapsing
F strwd		F hyphenating
F tohpack		F kerning
F tonodes		F ligaturing
F tovpack		F mliststohlist
F write		T paragraphs
<b>boolean</b>	table	F keeptogether
F tocontext		F registertogether
F tonumber		F tag
<b>buffers</b>	table	F parpassidentifier
F append		D passnames
F assign		T profiling
F collectcontent		F add
F empty		F addrivers
F erase		F boxlinehandler
F exists		F distance
F get		F fixedprofile
F getcontent		F get
F getcxlua		F getrivers
F getlines		F list
F getmkvi		F pagehandler
F gettex		F pagelinehandler
F loadcontent		F profilebox
T parallel		F profilelines
F define		F set
F hassomecontent		F setlines
F next		F registerpaspasscallback
F place		T vpack
F reset		F qualityactions
F save		F report
F prepend		T vspaceing
F raw		D categories
F run		F checkstrutdepth
F samplefile		F collapsevbox
F splitsamplefile		F definesnapmethod
F undent		B fixed
<b>builders</b>	table	F flushcontributions
F checkparcontext		F forcepageflush

F forcestrutdepth  
F getnofpreviouslines  
F inject  
F injectdisable  
F injectnowhite  
F injectpenalty  
F injectskip  
F interceptsamepagecontent  
F pagehandler  
F pageoverflow  
F popatsame  
F pushatsame  
F setmap  
F setskip  
F snapbox  
F synchronizepage  
F tocategories  
F tocategory  
F vboxhandler

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F bounds  
F clip  
F copy  
F dimensions  
F domain  
F downgrade  
F downsample  
F getbyte  
F getbytes  
F getvalue  
F hasbytegray  
F hasbyterange  
F hasbytergb  
F new  
F newdomain  
F process  
F reduce  
F reset  
F setgray  
F setgrayadd  
F setgraymin  
F setrgb  
F slicegray  
F slicerange

F slicergb

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S base  
F collapsecontent  
F configfiles  
F contentstate  
T defaults  
F getfirstreadablefile  
F getreadablepaths  
F getwritablepath  
F hashed  
F is\_writable  
F loadcontent  
F loaddata  
S more  
F savecontent  
F savedata  
F setfirstwritablefile  
F setluanames  
F treehash  
F usedpaths

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F find  
F getindex  
F getoptions  
F getoptionvalues  
F getstate  
F getstatevalues  
F known  
F list  
F names  
F register  
F setoptions  
F setstate  
F testonly  
F usage

**callbacks** table

F freeze  
T functions  
F start\_page\_number  
F stop\_page\_number  
F getcomment  
F getstates  
F known

## T list

N alignment  
 N append\_adjust  
 N append\_line  
 N append\_migrate  
 N append\_to\_vlist  
 N balance\_boundary  
 N balance\_check  
 N balance\_insert  
 N begin\_paragraph  
 N buildpage  
 N define\_font  
 N find\_format\_file  
 N find\_log\_file  
 N get\_attribute  
 N get\_math\_dictionary  
 N get\_noad\_class  
 N glyph\_run  
 N handle\_overload  
 N handle\_uinsert  
 N handle\_uleader  
 N hpack  
 N hpack\_quality  
 N hyphenate  
 N insert\_distance  
 N insert\_par  
 N intercept\_lua\_error  
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 N italic\_correction  
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 N linebreak  
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 N local\_box  
 N make\_extensible  
 N math\_rule  
 N missing\_character  
 N mlist\_to\_hlist  
 N open\_data\_file  
 N packed\_vbox  
 N paragraph\_context  
 N paragraph\_pass  
 N post\_linebreak

N pre\_dump  
 N pre\_linebreak  
 N pre\_output  
 N process\_character  
 N process\_jobname  
 N quality\_font  
 N register\_extensible  
 N show\_build  
 N show\_error\_message  
 N show\_loners  
 N show\_lua\_call  
 N show\_vsplit  
 N show\_warning\_message  
 N show\_whatsit  
 N start\_file  
 N start\_run  
 N stop\_file  
 N stop\_run  
 N tail\_append  
 N test\_only  
 N trace\_memory  
 N vpack  
 N vpack\_quality  
 N wrapup\_run

## T names

F optimizer  
 T optionbits  
 T optioncodes  
 N direct  
 N trace  
 F pop  
 F push  
 F register  
 F report  
 T statebits  
 T statecodes  
 N disabled  
 N frozen  
 N fundamental  
 N private  
 N selective  
 N set  
 N touched  
 N tracing



**catcodes**

D names  
 D numbers  
 F register

table

**characters**

F addcharacternames  
 F adobename  
 D bidi  
 F blockrange  
 D blocks  
 D can\_have\_space  
 T casemap  
 D categories  
 F category  
 D categorytags  
 T classifiers  
 D collapsed  
 D combined  
 F contextname  
 D csletters  
 D data  
 D decomposed  
 F description  
 D descriptions  
 D detailtags  
 T directions  
 T emoji  
 F compact  
 F known  
 F resolve  
 F emojized  
 D encodes  
 D entities  
 D fallbacks  
 D filters  
 T fractions  
 F fromnumber  
 D fschars  
 D fscodes  
 F getrange  
 D graphemes  
 D hangul  
 T indicgroups  
 F initialize

table

D is\_character  
 D is\_command  
 D is\_hyphenator  
 D is\_letter  
 D is\_mark  
 D is\_nothing  
 D is\_punctuation  
 D is\_spacing  
 D is\_symbol  
 D lchars  
 F lcode  
 D lccodes  
 F lettered  
 D lhash  
 D linebreaks  
 F lower  
 D mathlists  
 T mirrors  
 D otfscripts  
 D ranges  
 F registerentities  
 F remap\_hangul\_syllabe  
 T scripthash  
 F setactivecatcodes  
 F setlettercatcodes  
 F setothercatcodes  
 F shape  
 F shaped  
 D shash  
 D shchars  
 D shcodes  
 F showstring  
 D specialchars  
 D specials  
 T splits  
 T subscripts  
 T superscripts  
 D synonyms  
 T tex  
 D accentmapping  
 D commandmapping  
 F defineaccents  
 F safechar  
 F strtoutf

F strtoutfpattern	F MPrest
F toutf	F MPrs
F toutfpattern	F MPul
T textclasses	F MPur
F tonumber	F MPw
D ucchars	F MPwhd
F ucode	F MPx
D uccodes	F MPxy
D uhash	F MPxywhd
F unicodechar	F MPy
F upper	F Romannumerals
D verbosemarks	F actualday
<b>chemistry</b>	table
F component	F actualmonth
F define	F actualyear
D definitions	F adaptfontfeature
S format	F adaptivecheckbox
F inlinechemical	F addbtentry
S instance	F addcounter
S method	F adddefaultsuffix
F molecule	F addfeature
U moleculeparser	F addfontpath
F start	F addgrapheme
F stop	F addlinenumbers
T syntax	F addlinklistelement
F undefine	F addressplacements
<b>collectgarbage</b>	function
<b>commands</b>	table
F Alphabetic	F addressplacementslist
F MPLIBconvertfollowtext	F addrivers
F MPLIBconvertoutlinetext	F addtocolumnset
F MPc	F addtocolumnsetmvl
F MPd	F addtojavascriptpreamble
F MPfromhash	F addtolist
F MPH	F align_point_delta
F MPLl	F allinputpaths
F MPLr	F alphabetic
F MPLs	F analysefloatmethod
F MPn	F analyzezeitemgroup
F MPp	F analyzelist
F MPpardata	F analyzelocalanchors
F MPplus	F analyzerregister
F MPpos	F analyzerotate
F MPr	F analyzeupcomingitemgroup
	F applypattern
	F applytobox
	F applytofirstcharacter

F arraycompare	F boxlinep
F arrayequals	F boxlinepls
F arrayvalue	F boxlinemaxdp
F ascender	F boxlinemaxht
F askedreference	F boxlinemaxwd
F assignbuffer	F boxlinend
F async	F boxlinenh
F attachinsertion	F boxlinenw
F attachinsertions	F boxlinerh
F atwordboundary	F boxlinerp
F autofinishstructurelevels	F boxliners
F autoinsertnextspace	F boxlines
F automigrationcodestring	F boxlinewd
F autonextstructurelevel	F boxoptioncodestring
F autorule	F boxrangedp
F autosetups	F boxrangeht
F autostarttext	F boxrangewd
F autostoptext	F boxtostring
F badnessmodecodestring	F bposcolumn
F balanceshapeextra	F bposcolumnregistered
F benchmarktimer	F bs
F bf	F btxabbreviatedjournal
F bi	F btxaddentry
F bitmapimage	F btxaddjournal
F bitwise	F btxauthor
F bitwiseand	F btxauthorfield
F bitwiseflip	F btxauthortoregister
F bitwisetil	F btxcmdstring
F bitwisenot	F btxcollectlistentries
F bitwiseor	F btxcurrentfirstnames
F bitwiserset	F btxcurrentinitials
F bitwiseshift	F btxcurrentjuniors
F bitwisexor	F btxcurrentsurnames
F blockcolumnset	F btxcurrentvons
F blockligatures	F btxdetail
F boolcase	F btxdirect
F boxdir	F btxdoif
F boxline	F btxdoifelse
F boxlinedp	F btxdoifelsecitedone
F boxlineht	F btxdoifelsecombiinlist
F boxlineil	F btxdoifelsematches
F boxlinein	F btxdoifelsesameasprevious
F boxlineir	F btxdoifelseuservariable
F boxlinelh	F btxdoifnot

F btxentrytobuffer  
F btxentrytostring  
F btxexpandedjournal  
F btxfetchlistentries  
F btxfield  
F btxfirstofrange  
F btxflush  
F btxflushlistcombi  
F btxflushlistentry  
F btxflushlisttag  
F btxflushmarked  
F btxflushpages  
F btxhandlecite  
F btxhandlenocite  
F btxlastofrange  
F btxlistvariant  
F btxloaddefinitionfile  
F btxloadjournallist  
F btxloadreplacementfile  
F btxmissing  
F btxoneorrange  
F btxpreparelistentries  
F btxremapauthor  
F btxsavedataset  
F btxsavejournallist  
F btxsetdataset  
F btxsetentry  
F btxsetregister  
F btxsetspecification  
F btxshortcut  
F btxshowauthorremapping  
F btxsingularorplural  
F btxtoregister  
F btxusedataset  
F btxuservariable  
F build\_page\_after\_shipout  
F build\_page\_before\_shipout  
F build\_page\_setup  
F capheight  
F charactercontrolcodestring  
F chardescription  
F checkcolumnset  
F checkcountersetup  
F checkedconversion  
F checkedemoj  
F checkedpagefloat  
F checkinjector  
F checkinterfacechain  
F checkmarkedpages  
F checknesting  
F checkstrutdepth  
F chemicalcomponent  
F chinesenumerals  
F chr  
F classoptioncodestring  
F cleancolumnset  
F cleanfontname  
F cleanupattributes  
F cleanupbox  
F cleanuplayers  
F clonefield  
F closein  
F closeout  
F codedef  
F collectedmath  
F collectfloat  
F collecthelp  
F columnsetbalancefirst  
F columnsetbalancelast  
F columnsetbalancepage  
F columnsetcolumnwidth  
F columnsetdisablewide  
F columnsetenablewide  
F columnsetgoto  
F columnsethascontent  
F columnsetspan  
F columnsetlastfuture  
F columnsetlastmvl  
F columnsetlimit  
F columnsetnoto  
F columnsetresetdirect  
F columnsetresetshapeextra  
F columnsetreshape  
F columnsetsblockrows  
F columnsetsetshapeextra  
F columnsetshape  
F columnsetshapebalancecheck  
F columnsetshapebalanceextend

F columnsetshapecolumn	F day
F columnsetshapecount	F daynmem
F columnsetshapeindex	F dayname
F columnsetshapepage	F decimals
F columnsetshapeshetbalancerange	F decrementcounter
F columnsetshapelots	F decrementsubcounter
F columnsetshapesspread	F deferredenhancelist
F columnsetshapessize	F deferredenhancereference
F columnsetshapeworst	F deferredenhanceregister
F columnsetshowgrid	F defineaccents
F columnsetshowshape	F defineattribute
F columnsetshowtracedgrid	F defineboundary
F columnsetstate	F definebreakpoint
F columnsetstatus	F definebreakpoints
F combineglyphs	F definecharacterspacing
F component	F definechemical
F concatcommalist	F definecolumnset
F consultfloat	F defineconversion
F continueifinputfile	F definecounter
F convertbtxdatasettoxml	F definedlayoutcomponent
F converteddimen	F definefallbackfamily
F convertmpstopdf	F definefield
F copyboxfromcache	F definefieldset
F copyboxline	F definefilefallback
F copyposition	F definefilesynonym
F cos	F definefont_one
F cosd	F definefont_two
F ctxfunction	F definefontcolorpalette
F ctxluamatch	F definefontfamily
F ctxluamatchfile	F definefontfamilypreset
F ctxresetter	F definefontfeature
F ctxscanner	F definefontscriptset
F currentcomponent	F definefontsolution
F currentdate	F definehyphenationfeatures
F currentdesignsize	F defineinsertion
F currentenvironment	F defineintermediatecolor
F currentfontinstancespec	F definelabcolorglobal
F currentposthyphenchar	F definelabcolorlocal
F currentprehyphenchar	F definelabels
F currentproduct	F definelanguage
F currentproject	F definelinkedlist
F currentsectiontolist	F definemathpreset
F datasetsize	F definemultitonecolorglobal
F datasetvariable	F definenamespace

F definenote	F doifcounter
F defineparallel	F doifelse
F defineparbuilder	F doifelseblack
F defineprocesscolordummy	F doifelseboxincache
F defineprocesscolorglobal	F doifelsebuffer
F defineprocesscolorlocal	F doifelsebufferempty
F defineprogram	F doifelsecharinfont
F definereference	F doifelseconverter
F defineregister	F doifelsecounter
F definesectionlevels	F doifelsecurrentfonthasfeature
F definespotcolorglobal	F doifelsedimenstring
F definestructureblock	F doifelsedrawingblack
F definestructureset	F doifelsefieldcategory
F definesubcolumnset	F doifelsefieldset
F definetransparency	F doifelsefiledefined
F definetransparencyglobal	F doifelsefileexist
F definetypeface	F doifelsefirstchar
F defineviewerlayer	F doifelsefirstsectionpage
F delayedcolumnsetsheet	F doifelsefontfeature
F depthnumber	F doifelsefontpresent
F depthofstring	F doifelseindented
F descender	F doifelseinelement
F detachinsertions	F doifelseinputfile
F diagnostic	F doifelseleapyear
F digits_normal	F doifelselisthasentry
F digits_reverse	F doifelselisthasnumber
F directboxfromcache	F doifelselisthaspage
F disableautofontscript	F doifelselisthasitle
F disablecollectingmath	F doifelsemarkedcontent
F disabledirectives	F doifelsemarkedpage
F disableexperiments	F doifelsemessage
F disablejobsave	F doifelseobjectfound
F disableparbuilder	F doifelseobjectreferencefound
F disableregime	F doifelseoldversion
F disablespellchecking	F doifelseoverlapping
F disablestatetriggering	F doifelseparallel
F disablestream	F doifelseparentfile
F disabletrackers	F doifelsepathexist
F discardfromlist	F doifelsependingpagecontent
F discoptioncodestring	F doifelseposition
F disposeboxesincache	F doifelsepositiononpage
F disposeluatable	F doifelsepositionsonsamepage
F doanalyzeframedbox	F doifelsepositionsonthispage
F doif	F doifelsepositionsused

F doifelserangeonpage	F droptablegroup
F doifelserereference	F elapsedsteptime
F doifelserereferencechecked	F elapsedtime
F doifelserereferenced	F embedimagefromstore
F doifelserighttopleftinabox	F enablealignmentcharacter
F doifelsesame	F enablealignskips
F doifelsesomething	F enableasciimode
F doifelsespaces	F enableautofences
F doifelsestackedfloats	F enableautofontscript
F doifelsestructureblockempty	F enablebackgroundalign
F doifelsesynonymshown	F enablebackgroundboxes
F doifelsesynonymused	F enablecollectingmath
F doifelseurldefined	F enablecolor
F doifelseutfmathaccent	F enablecolorintents
F doifelseutfmathfiller	F enablecrlf
F doifelseutfmathlimop	F enabledirectives
F doifelsevalidhashedfiles	F enabledriver
F doifelsevisualizer	F enableexperiments
F doifmarkedpage	F enablefontcolor schemes
F doifnot	F enablehidecontent
F doifnotcounter	F enablemathalignrelocate
F doifnotecontent	F enablematrixornaments
F doifnoteonsamepageasprevious	F enablematrixrules
F doifnotsame	F enableparbuilder
F doifnotthing	F enableregime
F doifposition	F enablescriptunstacking
F doifsame	F enablesidefloatchecker
F doifsomething	F enablespellchecking
F doifunknownfontfeature	F enablestacking
F domainattribute	F enablestatetriggering
F doreshapeframedbox	F enablestream
F doresyncframedbox	F enableswapping
F dosaveposition	F enabletighten
F dosavepositionplus	F enabletrackers
F dosavepositionwhd	F enabletransparency
F dosetposition	F enableutf
F dosetpositionbox	F enhancelinkedlist
F dosetpositionplus	F enhancelist
F dosetpositionstrut	F enhanceregister
F dosetpositionstrutkind	F enhancesynonym
F dosetpositionwhd	F environment
F dostarttextfile	F eposcolumn
F dostoptextfile	F eposcolumnregistered
F doublescriptmodecodestrung	F erasebuffer

F execute	F flushpostponedblocks
F exportbox	F flushpostponednotes
F exportformdata	F flushstream
F exportreferences	F flushstreamcopy
F expression	F fontchar
F extendregister	F fontcharbyindex
F extendregisterlate	F fontcollectionclone
F extensiblecode	F fontcollectiondefine
F fakeword	F fontcollectionprepare
F featureattribute	F fontcollectionregister
F feedback	F fontcollectionreport
F fetchlanguagetext	F fontcollectionreset
F fetchmultipar	F fontlookupgetkey
F fetchposboxes	F fontlookupgetkeyofindex
F fetchterminaldata	F fontlookupinitialize
F figure_flush_registered_pages	F fontlookupnofound
F figure_mergegoodies	F forceendjob
F figure_nof_registered_pages	F forcepageflush
F figure_register_page	F forcequitjob
F figuresetdimensions	F forcestrutdepth
F filebasename	F format
F filedirname	F formatcolor
F filenameonly	F formatgray
F filesuffix	F formatluminance
F filterdefaultreference	F formatluminanceratio
F filterreference	F formatone
F finalizeobjectbox	F framedoutline
F finalizeshipoutbox	F from
F findregisterinternal	F frozenparcodestring
F finishcolumnsetflush	F frule
F finishexport	F getMPdata
F firstinset	F getbidimode
F firstsectionpage	F getbodyfontsizes
F firstsubcountervalue	F getboxcountfromcache
F flagcodestring	F getboxdpfromcache
F flushcolumnsetareas	F getboxfromcache
F flushcolumnsetcolumn	F getboxhtdpfromcache
F flushfloat	F getboxhtfromcache
F flushlabeledfloat	F getboxwdfromcache
F flushnoterange	F getbuffer
F flushnotes	F getbuffercontent
F flushpageblocks	F getbuffercxtlua
F flushpageinjectionsafter	F getbuffermkvi
F flushpageinjectionsbefore	F getbuffertex



F getcharactercasingcategory	F getrandomnumber
F getclubpenalties	F getrandomseed
F getcurrentprefixspec	F getreadfilename
F getcurrentreferencelabel	F getreferencesectionnumber
F getcurrentreferencemetadata	F getrivers
F getdefaultfieldvalue	F getsetupstring
F getdisplaywidowpenalties	F getshapeparameter
F getdocumentargument	F getsomefullstructurenumber
F getdocumentfilename	F getsomestructurenumber
F getfieldcategory	F getspecificstructuretitle
F getfile	F getstructurelevel
F getfirstcharacter	F getstructurenumber
F getfloatvariable	F getsubstring
F getfromluatable	F getsynchronizemarking
F getfullstructurenumber	F geturl
F getinterlinepenalties	F getvisual
F getinternalcachedlistreference	F getwidowpenalties
F getinternallistreference	F globalpopmacro
F getinternalorderreference	F globalpushmacro
F getmathblobindex	F gluetoinesinbox
F getmathblobmapping	F glyphoptioncodestring
F getmathcharone	F gobblenestd
F getmathchartwo	F gotocolumnsetslot
F getmathmathblob	F grabbuffer
F getmathtextblob	F groupcodestring
F getmathvariant	F groupsetgroup
F getmessage	F grph_nodes_initialize
F getmpextensions	F grph_nodes_register
F getnaturaldimensions	F grph_nodes_reset
F getnaturalwd	F grph_nodes_resolve
F getnofpreviouslines	F handlemathhang
F getnotestate	F hboxtovbox
F getobjectdimensions	F heightofstring
F getobjectreference	F helpaction
F getobjectreferencepage	F helpreference
F getparshape	F hour
F getparwrapper	F hpackbox
F getprivatechar	F hpackedbox
F getprivateglyphslot	F hsplit
F getprivatemathchar	F hyphenateddigits
F getprivateslot	F hyphenatedlist
F getprogram	F hyphenationcodestring
F getranddimen	F ic
F getrandfloat	F idxfromluatable

F if_common	F injectcurrentreferencehtdp
F ifallmodes	F injectdisable
F ifbitwiseand	F injectnowhite
F ifblobindexdone	F injectreference
F ifboxhaslist	F injectvpenalty
F ifcommon	F injectvskip
F ifeof	F injectvspacing
F ifgluelineinbox	F injectzerobaselineskip
F ifinset	F inlinechemical
F iflua	F inputfilebarename
F ifmode	F inputfilename
F ifmodes	F inputfilerealsuffix
F ifmvl	F inputfilesuffix
F ifpositunum	F insertattachment
F ifsetups	F insertcomment
F ifsystemmode	F insertfield
F iftext	F insertionnumber
F ifxml	F insertrenderingwindow
F ifxmlatt	F inspectluatable
F ifxmlattempty	F installedlanguages
F ifxmlempty	F installtexdirective
F ifxmlselfempty	F installtexexperiment
F ifxmltext	F installtextracker
F ignorefile	F interceptsamepagecontent
F ignoretagsinexport	F it
F immediatemessage	F jobfilefullname
F includesvgbuffer	F jobfilename
F includesvgfile	F jobfilesuffix
F incrementcounter	F jobposd
F incrementsubcounter	F jobposh
F inhibitprimitive	F jobposp
F initializeexport	F jobposw
F initializejob	F jobposx
F initializemathcollapsing	F jobposy
F initializemathfencing	F languagecharwidth
F initializemathitalics	F languagenumber
F initializemathkernpairs	F lastblobindex
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F initializemathspacing	F lastnodeid
F initializestream	F lastnodeidstring
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F initializetexexperiments	F lastparwrapper
F initializetextrackers	F lastrpos
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F lastsavedimageresourcepages	F loadmapfile
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F lastunitstring	F loadtexfile
F lastxpos	F loadtexfileonce
F lastypos	F loadtypescriptfile
F lateindent	F loadvisualizer
F latelua	F loadxmlfile
F lateundent	F loadxmlfileonce
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F lchexnumbers	F localanchory
F leapyear	F localboxindent
F limited	F localboxindex
F linebuffering	F localboxlefthang
F linedir	F localboxleftoffset
F lineprofilebox	F localboxleftskip
F linesegment	F localboxlinenumber
F listanchorcodestring	F localboxlinewidth
F listbookmark	F localboxlocalwidth
F listexternal	F localboxmarkonce
F listgroupindex	F localboxovershoot
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F listlocation	F localboxparfillrightskip
F listnamespaces	F localboxparinitleftskip
F listprefixednumber	F localboxparinitrightskip
F listprefixedpage	F localboxprogress
F listrawnnumber	F localboxrighthang
F listrawrealpage	F localboxrightoffset
F listrawuserpage	F localboxrightskip
F listsigncodestring	F localpopmacro
F listsize	F localpushmacro
F listtitle	F locatefilepath
F listuserdata	F loopcs
F lmt_parameters_define	F loopcsn
F lmt_parameters_preset	F lousiness
F lmt_parameters_reset	F luacardinal
F loadcldfile	F luacount
F loadcldfileonce	F luadimen
F loadexamodes	F luaexpression
F loadfontgoodies	F luafloat
F loadlibrary	F luainteger
F loadluafile	F luanumber
F loadluafileonce	F luarandom

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F markedpages	F mpoutlinetoks
F markingnumber	F mppopvariables
F markingtitle	F mppushvariables
F markinjector	F mprunset
F markpage	F mpruntab
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F markregionboxcorrected	F mpsetclippath
F markregionboxtagged	F mpsetoutercolor
F markregionboxtaggedkind	F mpsetsxsy
F markregionboxtaggedn	F mpsettext
F markvisualfonts	F mptexget
F mathclassvalue	F mptexreset
F mathcontrolcodestring	F mptexset
F mathhorizontalcode	F mptexsetfrombuffer
F mathoptioncodestring	F mptexttoks
F mathrenderset	F mvloptioncodestring
F mathvariantcode	F namedstructureuservariable
F mathvariantcount	F namedstructurevariable
F mathvariantslot	F naturalwd
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F metapostformatted	F newindexedtable
F metapostgraphformat	F newluatable
F minute	F newparwrapper
F mixcleanup	F newrepeatablerandom
F mixfinalize	F newstacking
F mixflushlist	F nextparallel
F mixflushrest	F nextsubcountervalue
F mixgetsplit	F nodimen
F mixsetsplit	F nofbufferlines
F mixstate	F nofconversions
F modecodestring	F nofdays
F molecule	F nofdetachedinsertions
F month	F noflinesinbox
F monthmnem	F nofmathvariants
F monthname	F nofstackedfloats

F nologbuffering	F pdfbackendsetname
F normalizecodestring	F pdfbackendsetpageattribute
F normalizedbodyfontsize	F pdfbackendsetpagesresource
F normalizeparcodestring	F pdfbackendsetpagesattribute
F notedeltapage	F pdfbackendsetpattern
F noteinternal	F pdfbackendsetshade
F notelistindex	F pdfcolor
F noteprefixednumber	F pdfextension
F notetitle	F pdffeedback
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F ntb_split_section_reset	F pdfrefobj
F ntimes	F pdfsetuserdata
F number	F pdfvariable
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F objectreferencepage	F pfacos
F octnumber	F pfacosh
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F openout	F pfasinh
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F ordinal	F pfatanh
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F overloadlowercase	F pfcos
F overloadsattribute	F pfcosh
F overloaduppercase	F pfdeg
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F pageofinternal	F pffloor
F pageoverflow	F pflg
F pagestaterealpage	F pfmod
F pagestaterealpageorder	F pfpow
F parcontextcodestring	F pfrad
F pardir	F pfrem
F parpasscallback	F pfround
F parpassidentifier	F pfsin
F parpos	F pfsinh
F partriggercodestring	F pfsqrt
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F pdfbackendsetcatalog	F pftanh
F pdfbackendsetcolorspace	F pgfxcolorspec
F pdfbackendsetextgstate	F pickupbuffer
F pdfbackendsetinfo	F pickupmarkedcontent

F pickuppunctuation	F processsplit
F placeparallel	F processsynonyms
F popfloat	F product
F pophyphenation	F profilebox
F poplist	F profilemacro
F poplocalanchors	F project
F poplogfile	F pruneboxesincache
F popparagraphtweak	F purefontname
F poppath	F pushfloat
F poprandomseed	F pushhyphenation
F popreferenceprefix	F pushlist
F popregime	F pushlocalanchors
F poprunstate	F pushlogfile
F popsectionblock	F pushparagraphtweak
F positunum	F pushpath
F positunumdef	F pushrandomseed
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F postlistcopy	F pushregime
F postponenotes	F pushrunstate
F prefixedconverted	F pushsectionblock
F prelistbox	F pushstream
F prelistcopy	F putboxincache
F preparecolumnsetflush	F putincolumnset
F prerolledpages	F putincolumnsetdirect
F presetcolumnsetsheets	F putnextboxincache
F presetcolumnsetspreadsheets	F qrcodebuffer
F presetmathematics	F qrcodestring
F presetmathfontalternate	F rawMPdata
F presetsymbollist	F rawcharacter
F previoussubcountervalue	F rawsetupstring
F privatecharacter	F rawsubcountervalue
F privatecharactercode	F read
F processbodyfontsizes	F readfromterminal
F processbuffer	F readline
F processcollectedmath	F readlinedirect
F processedfile	F recolorbox
F processedfiles	F referencecolumn
F processfile	F referencepagedetail
F processfilemany	F referencepagestate
F processfilenone	F referenceposx
F processfileonce	F referenceposy
F processjob	F referencerealpage
F processlist	F registeranchorbox
F processregister	F registerattachment

F registerbackendsymbol	F registertransliteration
F registerbackground	F registerunit
F registerbodyfontsize	F registerunitshortcut
F registerbookmark	F registerunknownbodysize
F registerboxglyph	F registerusedsynonym
F registerbuttons	F registeruserdata
F registercolorintent	F registerverbosemathlabel
F registercolumnsetarea	F removelastring
F registercolumnsetsheet	F renderingvar
F registercolumnsetspreadsheets	F reorderfloats
F registerengineclass	F replacefeature
F registerfallbackfont	F replacepospxywhd
F registerfiguremask	F replacewildcard
F registerfigurepattern	F reportstructure
F registerfigurerange	F resavefloat
F registerfiguresuffix	F reservedautoregiontag
F registerfilescheme	F resetMPinstance
F registerfontalternative	F resetalternate
F registerfontfamily	F resetbackgroundrowdata
F registerforcedbreak	F resetboxesincache
F registergroupset	F resetcharacteralign
F registerhashedfiles	F resetcolumnset
F registerhelp	F resetcomparingtext
F registerhyphenationexception	F resetcounter
F registerhyphenationpattern	F reseteffect
F registeritemgroup	F resetfeature
F registerlabel	F resetfontfeature
F registerlanguagefeatures	F resetfontsolution
F registerlinenumbering	F resetforcedbreak
F registermaintextcolor	F resetinjector
F registermpextensible	F resetlogfile
F registernamedlua	F resetmapfiles
F registernamespace	F resetmathattributes
F registerobject	F resetnullfont
F registerpattern	F resetparallel
F registerpostponedblock	F resetpath
F registerreferencedobject	F resetreference
F registerrendering	F resetscript
F registersection	F resetstructureprocessor
F registershownsynonym	F resetsubcounter
F registersnaprange	F resetsynchronizemarking
F registerstructureprocessor	F resetsynonyms
F registersynchronize	F resettimer
F registersynonym	F resettrackers

F resolvedemoji	F setadaptive
F restartcounter	F setalternate
F restartsubcounter	F setautoprefix
F restorecounter	F setbackgroundrowdata
F restorecurrentattributes	F setboxglyph
F restorenote	F setboxline
F restoreobject	F setbreakpoints
F reuserandomseed	F setcharacteralign
F reversevboxcontent	F setcharacteraligndetail
F revivefeature	F setcharactercasing
F rightmathkern	F setcharactercleaning
F romannumerals	F setcharacterkerning
F rotateparshape	F setcharacterspacing
F rounded	F setcharacterstripping
F roundedfill	F setcloseddocumentaction
F roundedoutline	F setclosepageaction
F ruby	F setcolormodel
F ruleoptioncodestring	F setcolumnsetarea
F runcontextjob	F setcolumnsetlines
F safechar	F setcolumnsetmvl
F samplefile	F setcolumnsetpresent
F saveboxresource	F setcolumnsetproperties
F savebuffer	F setcolumnsetstart
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F savecurrentvalue	F setcounter
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F savedlistprefixednumber	F setdestinationattribute
F savedlisttitle	F setdigitsmanipulation
F savefloat	F setdirection
F saveimageresource	F setdocumentargument
F savemargindata	F setdocumentcommandline
F savenote	F setdocumentctxfile
F savepagedata	F setdocumentdefaultargument
F savepageinjections	F setdocumentenvironments
F saveparallel	F setdocumentfilename
F savepos	F setdocumentfilenames
F savespecificfloat	F setdocumentmodes
F savestructureblock	F setdocumentmodules
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F scriptsmodecodestring	F setelementbackendtag
F second	F setelementnature
F selectstructureblock	F setextrafontkerns
F set_extensible_data	F setfieldcalculationset



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F setfontofid  
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F sethyphenationfeatures  
F sethyphenationmethod  
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F setstructureblockstate

F setstructurelevel	F setuplinenumbering
F setstructurenumber	F setupsynctex
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F settagcodepoint	F setupviewerlayer
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F settagcombinationpair	F setvisualfont
F settagconstruct	F setvisuallayer
F settagdelimitedsymbol	F setvisuals
F settagdescriptionindex	F setvsizelcolumnset
F settagfigure	F setxmpfile
F settagfloat	F shiftmatrixornaments
F settagformulacontent	F shiftparshape
F settaggedmetadata	F shipoutpage
F settaggingcomment	F showarray
F settaggingoption	F showassignerror
F settaggingpresets	F showattributes
F settaghighlight	F showbits
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F settagitemgroup	F showbtxdatasetauthors
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F settagmarginintext	F showbtxentry
F settagmpgraphic	F showbtxfields
F settagnotation	F showbtxhashedauthors
F settagnotationsymbol	F showbtxtables
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F settagsetreferencedescription	F showdiscretionaries
F settagsorting	F showexperiments
F settagsubsentencesymbol	F showfontparameters
F settagsynonym	F showhyphenatedinlist
F settagtablecell	F showhyphenationtrace
F settagtabulatecell	F showinjector
F settransliteration	F showjustification
F setupbookmarks	F showlogcategories
F setupcanvas	F showluatables
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F setupcomparingtext	F showmacrostack
F setupexport	F showmessage
F setupfontexpansion	F showpagelist
F setupfontprotrusion	F showparagraphshape
F setupinsertion	F showprofiledmacros

F showstructure	F startsectionlevel
F showtrackers	F startstream
F silliness	F starttext
F simplealign	F startviewerlayer
F simplecases	F step
F simplematrix	F stopactualtext
F sin	F stopalternativetext
F sind	F stopchemical
F sl	F stopclipping
F spaceddigits	F stopcollectingmath
F special	F stopcolorset
F specificationoptioncodestring	F stopcomponent
F specifiedfont	F stopenvironment
F specifiedfontsize	F stopfontsolution
F specifiedfontspec	F stopgraphicgroup
F splitfilename	F stoplocalcomponent
F splitsamplefile	F stopmarkpages
F spotcolorname	F stopmatrix
F spotcolorparent	F stopmirroring
F spotcolorvalue	F stoppageblock
F squid_check	F stopparbuilder
F startactualtext	F stopprerollpageblock
F startalternativetext	F stopproduct
F startchemical	F stopproject
F startclipping	F stopregime
F startcollectingmath	F stoprotation
F startcolorset	F stopscaling
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F startenvironment	F stopstream
F startfontsolution	F stoptext
F startgraphicgroup	F stopviewerlayer
F startlocalcomponent	F storejavascriptcode
F startmarkpages	F storejavascriptpreamble
F startmatrix	F storenote
F startmirroring	F storeregister
F startpageblock	F strc_tags_document_pop
F startparbuilder	F strc_tags_document_push
F startprerollpageblock	F strc_tags_get_element_tag
F startproduct	F strc_tags_parcounter_pop
F startproject	F strc_tags_parcounter_push
F startregime	F strc_tags_set_aspect
F startrotation	F strc_tags_set_element_user_properties
F startruby	F strc_tags_start
F startscaling	F strc_tags_start_chained

F strc_tags_start_detail	F tand
F strc_tags_start_ignore	F textdir
F strc_tags_start_userdata	F textime
F strc_tags_stop	F tf
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F structureblockuservariable	F themaxboxwidth
F structurecatcodedget	F theremainingcharacters
F structuregivencatcodedget	F tightfitcompensation
F structurenumber	F timestring
F structuretitle	F tobigpoints
F structureuservariable	F tobit
F structurevariable	F tobits
F subcountervalue	F tochar
F subsubcountervalues	F tohexa
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F subtocolumnsetmvlbalance	F totalofstring
F subtractfeature	F tounicharnum
F svghashed	F towholebigpoints
F sync	F transliterate
F synccolor	F transliteratebuffer
F synccolorclone	F transliterated
F synccolorcount	F transliteratedbuffer
F synchronizelocalanchors	F transliterationexception
F synchronizemarking	F traverseblock
F synchronizesteps	F traversemath
F synchronizestream	F triggerpagebuilder
F syntexblockfilename	F truefilename
F syntexdisable	F truefontname
F syntexpause	F type
F syntexpopline	F typebuffer
F syntexpushline	F typefile
F syntexresetfilename	F uchar
F syntexresume	F uchexnumber
F syntexsetfilename	F uchexnumbers
F synonymmeaning	F undefinechemical
F synonymname	F unicodechar
F synonympages	F unihex
F systemlog	F unit
F tabl_ntb_get_sec	F unloadlanguage
F tabl_ntb_set_sec	F unsupportedcds
F tagmfunctionlab	F useMPLibrary
F tagmfunctionlabattribute	F useanyfile
F tan	F useanyfileonce

F useboxresource	F widthuptohere
F usecolors	F write
F usecomponent	F writeline
F useenvironment	F writestatus
F usefigurebase	F writestring
F usefile	F x_table_c
F useimageresource	F x_table_cleanup
F usejavascriptpreamble	F x_table_construct
F usejavascriptscripts	F x_table_create
F uselibrary	F x_table_finish_row
F uselist	F x_table_flush
F useluamodule	F x_table_init_construct
F useluatable	F x_table_init_reflow_height
F usemathpluginlibrary	F x_table_init_reflow_height_option
F usemodules	F x_table_init_reflow_width
F usepath	F x_table_init_reflow_width_option
F useproduct	F x_table_next_row
F useproject	F x_table_next_row_option
F useresources	F x_table_r
F useregister	F x_table_reflow_height
F usesubpath	F x_table_reflow_width
F usesymbols	F x_table_set_construct
F usetransliteration	F x_table_set_reflow_height
F useurl	F x_table_set_reflow_width
F usezipfile	F xmladdindex
F utfchar	F xmlaftersesup
F utflower	F xmlall
F utfmathclass	F xmlappendsetup
F utfmathcommand	F xmlapplyselectors
F utfmathcommandfiller	F xmlatt
F utfmathfiller	F xmlattdef
F utfmathstretch	F xmlattribute
F utfshape	F xmlattributedef
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F NR	F btxsetauthorvariant
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F ParsedXmlSnippetComment	F btxsetbefore
F ParsedXmlSnippetDoctype	F btxsetcategory
F ParsedXmlSnippetElement	F btxsetcombis
F ParsedXmlSnippetInstruction	F btxsetconcat
F ParsedXmlSnippetKey	F btxsetcount
F ParsedXmlSnippetValue	F btxsetcurrentlistentry
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F TexSnippetCommentText	F btxsetfirstinternal
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F btxhandlelistentry	F btxstopcite
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F colordefagt	F digitsspowerminus
F colordefalc	F digitsspowerplus
F colordefalt	F digitssseparatorspace
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T cs	F docheckfiguretex
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F bgroup	F dodisplayverbatimemptyline
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F droptablegroup	F dodisplayverbatimnewline
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F gobbleoneargument	F dofastdefinetypeface
F hbox	F dofinishreference
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F definefontsynonym	F doinlineverbatimstart
F definetypeface	F doinlineverbatimstop
F digitsdigit	F domarkinjector
F digitsfinalcomma	F donestedtypingstart
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F digitshighspace	F doscalefigure
F digitsintermediatecomma	F dosetfastregisterentry
F digitsintermediateperiod	F dosetfigureobject
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F dostarttext	F processfileonce
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F doverbatimspace	F registerentry
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F stopvboxregister	T delayed
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D exheights	F glyphdimenfactor
D features	F hasprivate
D identifiers	F indextoslot
D italics	F isprivate
D lastmathids	F mathscriptslots
D marks	F name
D mathparameters	F nametoslot
D modes	F newprivateslot
D originals	F prependcommands
D parameters	F prependcommandtable

F privateslot	F maxbounds
F registerglyphbox	F paths
F scalecommands	F widthline
F setboxdirectly	F zeroline
F setboxglyph	F mode
F setboxglyphs	D names
F setdigitwidth	D nulldata
F setmetaglyph	T privateoffsets
F setmetaglyphs	B keepnames
D sharedprivates	N mathbase
F splitfontpattern	N mathextrabase
F tochar	N textbase
F infofont	N textextrabase
T iterators	D protrusions
F characters	T readers
F descriptions	F afm
F glyphs	F check_lua
T loggers	F check_tfm
F format	F lua
F onetimemessage	F ofm
F register	F opentype
F reportdefinedfonts	F otf
F reportusedfeatures	F pfb
T mappings	D sequence
F addtounicode	F tfm
F fromunicode16	F ttc
F getentry	F ttf
F loadfile	F woff
F loadline	F registersanitizer
F makenameparser	F reserveid
D overloads	T select
F reset	D alternatives
F tounicode	F bodyfont
F tounicode16	D data
F tounicode16sequence	F default
T metapost	D defaults
F baseline	F definefallbackfamily
F boundingbox	F definefontfamily
F boxtomp	F definefontfamilypreset
F boxtompdimensions	D extras
F boxtompposition	F fallback
F draw	D fallbacks
F fill	F features
F glyph	F filefallback

F fontdata  
 F fontfallback  
 F fontsynonym  
 F goodies  
 F mathfallback  
 D methods  
 D presets  
 F registerfallback  
 F registerfiles  
 F registerfontalternative  
 F registerfontfamily  
 F textfallback  
 F typeface  
 F typescript  
 F userdata  
 T specifiers  
   D contextmerged  
   F contextnumber  
   D contextnumbers  
   D contextsetups  
   F contexttostring  
   F definecontext  
   F mergecontext  
   F presetcontext  
   F registercontext  
   F showcontext  
   F splitcontext  
   D synonyms  
   D variants  
 T symbols  
   F uselibrary  
 T tables  
 F toeffect  
 T tracers  
 T treatments  
   F applyfixes  
   D data  
   S filename  
   F ignoredfile  
   F report  
   F trace  
 T typefaces

## functions

F dummy

## table

## getmetatable globaldata

N CONTEXTLMTXMODE  
 N LUAFORMAT  
 N LUAMAJORVERSION  
 N LUAMINORVERSION  
 S LUAEXENGINE  
 N LUAEXFORMATID  
 N LUAEXFUNCTIONALITY  
 S LUAEXVERBOSE  
 N LUAEXVERSION  
 N LUAVERSION  
 T MP  
 F SAVEDREQUIRE  
 T aes  
   F decode  
   F encode  
   F random  
 T arg  
 F assert  
 T attributes  
   F applyoverloads  
   F checkvalues  
   D counts  
   F define  
   F getvalue  
   F getvalues  
   F hasvalues  
   D list  
   F markasoverload  
   D names  
   D numbers  
   F ofnode  
   F private  
   F public  
   F registervalue  
   F restore  
   F save  
   F setcleaner  
   F showcurrent  
   F system  
   F tooverloads  
   N unsetvalue  
   D values

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T backends	F strwd
F closeout	F tohpack
S current	F tonodes
F getcallbackstate	F tovpack
F initialize	F write
F latelua	T boolean
F nothing	F tocontext
F openout	F tonumber
F setencryption	T buffers
F writeout	F append
T basexx	F assign
F decode16	F collectcontent
F decode64	F empty
F decode85	F erase
F decodeLZW	F exists
F decodeRL	F get
F encode16	F getcontent
F encode64	F getctxlua
F encode85	F getlines
F encodeLZW	F getmkvi
F encodeRL	F gettex
T bibtex	F loadcontent
T bit32	F prepend
F arshift	F raw
F band	F run
F bnot	F samplefile
F bor	F splitsamplefile
F btest	F undent
F bxor	T builders
F extract	F checkparcontext
F lrotate	F checksidefloat
F lshift	F parpassidentifier
F replace	D passnames
F rrotate	F registerpaspasscallback
F rshift	T bytemap
T blobs	F bounds
F append	F clip
F dimensions	F copy
F dispose	F dimensions
F new	F domain
F pack	F downgrade
F strdp	F downsample
F strhd	F getbyte
F strht	F getbytes

F	getvalue	F	names
F	hasbytegray	F	register
F	hasbyterange	F	setoptions
F	hasbytergb	F	setstate
F	new	F	testonly
F	newdomain	F	usage
F	process	T	callbacks
F	reduce	F	freeze
F	reset	F	getcomment
F	setgray	F	getstates
F	setgrayadd	F	known
F	setgraymin	F	optimizer
F	setrgb	F	pop
F	slicegray	F	push
F	slicerange	F	register
F	slicergb	F	report
T	caches	T	catcodes
S	base	D	names
F	collapsecontent	D	numbers
F	configfiles	F	register
F	contentstate	T	characters
F	getfirstreadablefile	F	addcharacternames
F	getreadablepaths	F	adobename
F	getwritablepath	D	bidi
F	hashed	F	blockrange
F	is_writable	D	blocks
F	loadcontent	D	can_have_space
F	loaddata	D	categories
S	more	F	category
F	savecontent	D	categorytags
F	savedata	D	collapsed
F	setfirstwritablefile	D	combined
F	setluanames	F	contextname
F	treehash	D	csletters
F	usedpaths	D	data
T	callback	D	decomposed
F	find	F	description
F	getindex	D	descriptions
F	getoptions	D	detailtags
F	getoptionvalues	F	emojized
F	getstate	D	encodes
F	getstatevalues	D	entities
F	known	D	fallbacks
F	list	D	filters



F fromnumber	D uhash
D fschars	F unicodechar
D fscodes	F upper
F getrange	D verbosemarks
D graphemes	T chemistry
D hangul	F component
F initialize	F define
D is_character	D definitions
D is_command	S format
D is_hyphenator	F inlinechemical
D is_letter	S instance
D is_mark	S method
D is_nothing	F molecule
D is_punctuation	U moleculeparser
D is_spacing	F start
D is_symbol	F stop
D lcchars	F undefine
F lccode	F collectgarbage
D lccodes	T commands
F lettered	F Alphabetic
D lhash	F MPLIBconvertfollowtext
D linebreaks	F MPLIBconvertoutlinetext
F lower	F MPc
D mathlists	F MPd
D otfscripts	F MPfromhash
D ranges	F MPf
F registerentities	F MPll
F remap_hangul_syllabe	F MPfr
F setactivecatcodes	F MPfs
F setlettercatcodes	F MPn
F setothercatcodes	F MPp
F shape	F MPpardata
F shaped	F MPplus
D shash	F MPpos
D shchars	F MPpr
D shcodes	F MPrest
F showstring	F MPrs
D specialchars	F MPul
D specials	F MPur
D synonyms	F MPw
F tonumber	F MPwhd
D ucchars	F MPx
F uccode	F MPxy
D uccodes	F MPxywhd

F MPy	F atwordboundary
F Romannumerals	F autofinishstructurelevels
F actualday	F autoinsertnextspace
F actualmonth	F automigrationcodestring
F actualyear	F autonextstructurelevel
F adaptfontfeature	F autorule
F adaptivecheckbox	F autosetups
F addbtxentry	F autostarttext
F addcounter	F autostoptext
F adddefaultsuffix	F badnessmodecodestring
F addfeature	F balanceshapeextra
F addfontpath	F benchmarktimer
F addgrapheme	F bf
F addlinenumbers	F bi
F addlinklistelement	F bitmapimage
F addreplacements	F bitwise
F addreplacementslist	F bitwiseand
F addrivers	F bitwiseflip
F addtocolumnset	F bitwisetil
F addtocolumnsetmvl	F bitwisenot
F addtojavascriptpreamble	F bitwiseor
F addtolist	F bitwiseset
F align_point_delta	F bitwiseshift
F allinputpaths	F bitwisexor
F alphabetic	F blockcolumnset
F analyzefloatmethod	F blockligatures
F analyzeitemgroup	F boolcase
F analyzelist	F boxdir
F analyzelocalanchors	F boxline
F analyzeregister	F boxlinedp
F analyzerotate	F boxlineht
F analyzeupcomingitemgroup	F boxlineil
F applypattern	F boxlinein
F applytobox	F boxlineir
F applytofirstcharacter	F boxlinelh
F arraycompare	F boxlinelp
F arrayequals	F boxlinels
F arrayvalue	F boxlinemaxdp
F ascender	F boxlinemaxht
F askedreference	F boxlinemaxwd
F assignbuffer	F boxlinend
F async	F boxlinenh
F attachinsertion	F boxlinew
F attachinsertions	F boxlinerh

F boxlinerp	F btxflushlisttag
F boxliners	F btxflushmarked
F boxlines	F btxflushpages
F boxlinewd	F btxhandlecite
F boxoptioncodestring	F btxhandlenocite
F boxrangedp	F btxlastofrange
F boxrangeht	F btxlistvariant
F boxrangewd	F btxloaddefinitionfile
F boxtostring	F btxloadjournalist
F bposcolumn	F btxloadreplacementfile
F bposcolumnregistered	F btxmissing
F bs	F btxoneorrange
F btxabbreviatedjournal	F btxpreparelistentries
F btxaddentry	F btxremapauthor
F btxaddjournal	F btxsavedataset
F btxauthor	F btxsavejournalist
F btxauthorfield	F btxsetdataset
F btxauthortoregister	F btxsetentry
F btxcmdstring	F btxsetregister
F btxcollectlistentries	F btxsetspecification
F btxcurrentfirstnames	F btxshortcut
F btxcurrentinitials	F btxshowauthorremapping
F btxcurrentjuniors	F btxsingularorplural
F btxcurrentsurnames	F btxtoregister
F btxcurrentvons	F btxusedataset
F btxdetail	F btxuservariable
F btxdirect	F build_page_after_shipout
F btxdoif	F build_page_before_shipout
F btxdoifelse	F build_page_setup
F btxdoifelsecitedone	F capheight
F btxdoifelsecombiinlist	F charactercontrolcodestring
F btxdoifelsematches	F chardescription
F btxdoifelsesameasprevious	F checkcolumnset
F btxdoifelseuservariable	F checkcountersetup
F btxdoifnot	F checkedconversion
F btxentrytobuffer	F checkedemoji
F btxentrytostring	F checkedpagefloat
F btxexpandedjournal	F checkinjector
F btxfetchlistentries	F checkinterfacechain
F btxfield	F checkmarkedpages
F btxfirstofrange	F checknesting
F btxflush	F checkstrutdepth
F btxflushlistcombi	F chemicalcomponent
F btxflushlistentry	F chinesenumerals

F chr	F columnsetshowgrid
F classoptioncodestring	F columnsetshowshape
F cleancolumnset	F columnsetshowtracedgrid
F cleanfontname	F columnsetstate
F cleanupattributes	F columnsetstatus
F cleanupbox	F combineglyphs
F cleanuplayers	F component
F clonefield	F concatcommalist
F closein	F consultfloat
F closeout	F continueifinputfile
F codedef	F convertbtxdatasettoxml
F collectedmath	F converteddimen
F collectfloat	F convertmpstopdf
F collecthelp	F copyboxfromcache
F columnsetbalancefirst	F copyboxline
F columnsetbalancelast	F copyposition
F columnsetbalancepage	F cos
F columnsetcolumnwidth	F cosd
F columnsetdisablewide	F ctxfunction
F columnsetenablewide	F ctxluamatch
F columnsetgoto	F ctxluamatchfile
F columnsethascontent	F ctxresetter
F columnsetspan	F ctxscanner
F columnsetlastfuture	F currentcomponent
F columnsetlastmvl	F currentdate
F columnsetlimit	F currentdesignsize
F columnsetnoto	F currentenvironment
F columnsetresetdirect	F currentfontinstancespec
F columnsetresetshapeextra	F currentposthyphenchar
F columnsetreshape	F currentprehyphenchar
F columnsetsblockrows	F currentproduct
F columnsetsetshapeextra	F currentproject
F columnsetshape	F currentsectiontolist
F columnsetshapebalancecheck	F datasetsize
F columnsetshapebalanceextend	F datasetvariable
F columnsetshapecolumn	F day
F columnsetshapecount	F daymnm
F columnsetshapeindex	F dayname
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F columnsetshapesetbalancerange	F decrementcounter
F columnsetshapeslots	F decrementsubcounter
F columnsetshapespread	F deferredhancelist
F columnsetshapessize	F deferredhancereference
F columnsetshapeworst	F deferredhanceregister

F defineaccents	F definesectionlevels
F defineattribute	F definespotcolorglobal
F defineboundary	F definestructureblock
F definebreakpoint	F definestructureset
F definebreakpoints	F definesubcolumnset
F definecharacterspacing	F definetransparency
F definechemical	F definetransparencyglobal
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F definecounter	F delayedcolumnsetsheet
F definedlayoutcomponent	F depthnumber
F definefallbackfamily	F depthofstring
F definefield	F descender
F definefieldset	F detachinsertions
F definefilefallback	F diagnostic
F definefilesynonym	F digits_normal
F definefont_one	F digits_reverse
F definefont_two	F directboxfromcache
F definefontcolorpalette	F disableautofontscript
F definefontfamily	F disablecollectingmath
F definefontfamilypreset	F disabledirectives
F definefontfeature	F disableexperiments
F definefontscriptset	F disablejobsave
F definefontsolution	F disableparbuilder
F definehyphenationfeatures	F disableregime
F defineinsertion	F disablespellchecking
F defineintermediatecolor	F disablestatetriggering
F definelabcolorglobal	F disablestream
F definelabcolorlocal	F disabletrackers
F definelabels	F discardfromlist
F definelanguage	F discoptioncodestring
F definelinkedlist	F disposeboxesincache
F definemathpreset	F disposeluatable
F definemultitonecolorglobal	F doanalyzeframedbox
F definenamespace	F doif
F definenote	F doifcounter
F defineparallel	F doifelse
F defineparbuilder	F doifelseblack
F defineprocesscolordummy	F doifelseboxincache
F defineprocesscolorglobal	F doifelsebuffer
F defineprocesscolorlocal	F doifelsebufferempty
F defineprogram	F doifelsecharinfont
F definereference	F doifelseconverter
F defineregister	F doifelsecounter

F doifelsecurrentfonthasfeature	F doifelsestructureblockempty
F doifelsestring	F doifelsesynonymshown
F doifelsedrawingblack	F doifelsesynonymused
F doifelsefieldcategory	F doifelseurldefined
F doifelsefieldset	F doifelseutfmathaccent
F doifelsefiledefined	F doifelseutfmathfiller
F doifelsefileexist	F doifelseutfmathlimop
F doifelsefirstchar	F doifelsevalidhashedfiles
F doifelsefirstsectionpage	F doifelsevisualizer
F doifelsefontfeature	F doifmarkedpage
F doifelsefontpresent	F doifnot
F doifelseindented	F doifnotcounter
F doifelseinelement	F doifnotecontent
F doifelseinputfile	F doifnoteonsamepageasprevious
F doifelseleapyear	F doifnotsame
F doifselisthasentry	F doifnothing
F doifselisthasnumber	F doifposition
F doifselisthaspage	F doifsame
F doifselisthasitle	F doifsomething
F doifselmarkedcontent	F doifunknownfontfeature
F doifselmarkedpage	F domainattribute
F doifselmessage	F doreshapeframedbox
F doifselobjectfound	F doresyncframedbox
F doifselobjectreferencefound	F dosaveposition
F doifselolderversion	F dosavepositionplus
F doifseloverlapping	F dosavepositionwhd
F doifselparallel	F dosetposition
F doifselparentfile	F dosetpositionbox
F doifselpathexist	F dosetpositionplus
F doifselpendingpagecontent	F dosetpositionstrut
F doifselposition	F dosetpositionstrutkind
F doifselpositiononpage	F dosetpositionwhd
F doifselpositiononsamepage	F dostarttextfile
F doifselpositionsonthispage	F dostoptextfile
F doifselpositionsused	F doublescriptmodecodestring
F doifselrangeonpage	F droptablegroup
F doifselreference	F elapsedsteptime
F doifselreferencechecked	F elapsedtime
F doifselreferenced	F embedimagefromstore
F doifselrighttoleftinbox	F enablealignmentcharacter
F doifselesame	F enablealignskips
F doifselomething	F enableasciimode
F doifselspaces	F enableautofences
F doifselstackedfloats	F enableautofontscript

F enablebackgroundalign	F featureattribute
F enablebackgroundboxes	F feedback
F enablecollectingmath	F fetchlanguageatext
F enablecolor	F fetchmultipar
F enablecolorintents	F fetchposboxes
F enablecrlf	F fetchterminaldata
F enabledirectives	F figure_flush_registered_pages
F enabledriver	F figure_mergegoodies
F enableexperiments	F figure_nof_registered_pages
F enablefontcolorsschemes	F figure_register_page
F enablehidecontent	F figuresetdimensions
F enablemathalignrelocate	F filebasename
F enablematrixornaments	F filedirname
F enablematrixrules	F filenameonly
F enableparbuilder	F filesuffix
F enableregime	F filterdefaultreference
F enablescriptunstacking	F filterreference
F enablesidefloatchecker	F finalizeobjectbox
F enablespellchecking	F finalizeshipoutbox
F enablestacking	F findregisterinternal
F enablestatetriggering	F finishcolumnsetflush
F enablestream	F finishexport
F enableswapping	F firstinset
F enabletighten	F firstsectionpage
F enabletrackers	F firstsubcountervalue
F enabletransparency	F flagcodestring
F enableutf	F flushcolumnsetareas
F enhancelinkedlist	F flushcolumnsetcolumn
F enhancelist	F flushfloat
F enhanceregister	F flushlabeledfloat
F enhancesynonym	F flushnoterange
F environment	F flushnotes
F eposcolumn	F flushpageblocks
F eposcolumnregistered	F flushpageinjectionsafter
F erasebuffer	F flushpageinjectionsbefore
F execute	F flushpostponedblocks
F exportbox	F flushpostponednotes
F exportformdata	F flushstream
F exportreferences	F flushstreamcopy
F expression	F fontchar
F extendregister	F fontcharbyindex
F extendregisterlate	F fontcollectionclone
F extensiblecode	F fontcollectiondefine
F fakeword	F fontcollectionprepare

F fontcollectionregister	F getfieldcategory
F fontcollectionreport	F getfile
F fontcollectionreset	F getfirstcharacter
F fontlookupgetkey	F getfloatvariable
F fontlookupgetkeyofindex	F getfromluatable
F fontlookupinitialize	F getfullstructurenumber
F fontlookupnofound	F getinterlinepenalties
F forceendjob	F getinternalcachedlistreference
F forcepageflush	F getinternallistreference
F forcequitjob	F getinternalorderreference
F forcestrutdepth	F getmathblobindex
F format	F getmathblobmapping
F formatcolor	F getmathcharone
F formatgray	F getmathchartwo
F formatluminance	F getmathmathblob
F formatluminanceratio	F getmathtextblob
F formatone	F getmathvariant
F framedoutline	F getmessage
F from	F getmpextensions
F frozenparcodestring	F getnaturaldimensions
F frule	F getnaturalwd
F getMPdata	F getnofpreviouslines
F getbidimode	F getnotestate
F getbodyfontsizes	F getobjectdimensions
F getboxcountfromcache	F getobjectreference
F getboxdpfromcache	F getobjectreferencepage
F getboxfromcache	F getparshape
F getboxhtdpfromcache	F getparwrapper
F getboxhtfromcache	F getprivatechar
F getboxwdfromcache	F getprivateglyphslot
F getbuffer	F getprivatemathchar
F getbuffercontent	F getprivateslot
F getbufferctxlua	F getprogram
F getbuffermkvi	F getrandomdimen
F getbuffertext	F getrandomfloat
F getcharactercasingcategory	F getrandomnumber
F getclubpenalties	F getrandomseed
F getcurrentprefixspc	F getreadfilename
F getcurrentreferenceLabel	F getreferencesectionnumber
F getcurrentreferencemetadata	F getrivers
F getdefaultfieldvalue	F getsetupstring
F getdisplaywidowpenalties	F getshapeparameter
F getdocumentargument	F getsomefullstructurenumber
F getdocumentfilename	F getsomestructurenumber



F getspecificstructuretitle	F iflua
F getstructurelevel	F ifmode
F getstructurenumber	F ifmodes
F getsubstring	F ifmvl
F getsynchronizemarking	F ifpositunum
F geturl	F ifsetups
F getvisual	F ifsystemmode
F getwidowpenalties	F iftext
F globalpopmacro	F ifxml
F globalpushmacro	F ifxmlatt
F gluetoinesinbox	F ifxmlattempty
F glyphoptioncodestring	F ifxmllempty
F gobblenested	F ifxmlselfemtpy
F gotocolumnsetslot	F ifxmltext
F grabbuffer	F ignorefile
F groupcodestring	F ignoretagsinexport
F groupsetgroup	F immediatemessage
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F grph_nodes_register	F includesvgfile
F grph_nodes_reset	F incrementcounter
F grph_nodes_resolve	F incrementsubcounter
F handlemathhang	F inhibitprimitive
F hboxtovbox	F initializeexport
F heightofstring	F initializejob
F helpaction	F initializemathcollapsing
F helpreference	F initializemathfencing
F hour	F initializemathitalics
F hpackbox	F initializemathkernpairs
F hpackedbox	F initializemathnumbers
F hsplit	F initializemathspacing
F hyphenateddigits	F initializestream
F hyphenatedlist	F initializetexdirectives
F hyphenationcodestring	F initializetexexperiments
F ic	F initializetextrackers
F idxfromluatable	F injectcurrentreference
F if_common	F injectcurrentreferencehtdp
F ifallmodes	F injectdisable
F ifbitwiseand	F injectnowhite
F ifblobindexdone	F injectreference
F ifboxhaslist	F injectvpenalty
F ifcommon	F injectvskip
F ifeof	F injectvspacing
F ifgluelineinbox	F injectzerobaselineskip
F ifinset	F inlinechemical

F inputfilebarename	F lateundent
F inputfilename	F lchexnumber
F inputfilerealsuffix	F lchexnumbers
F inputfilesuffix	F leapyear
F insertattachment	F limited
F insertcomment	F linebuffering
F insertfield	F linedir
F insertionnumber	F lineprofilebox
F insertrenderingwindow	F linesegment
F inspectluatable	F listanchorcodestring
F installedlanguages	F listbookmark
F installtexdirective	F listexternal
F installtexexperiment	F listgroupindex
F installtextracker	F listlabel
F interceptsamepagecontent	F listlocation
F it	F listnamespaces
F jobfilefullname	F listprefixednumber
F jobfilename	F listprefixedpage
F jobfilesuffix	F listrawnumber
F jobposd	F listrawrealpage
F jobposh	F listrawuserpage
F jobposp	F listsigncodestring
F jobposw	F listsize
F jobposx	F listtitle
F jobposy	F listuserdata
F languagecharwidth	F lmt_parameters_define
F languagenumber	F lmt_parameters_preset
F lastblobindex	F lmt_parameters_reset
F lastnodeequals	F loadcldfile
F lastnodeid	F loadcldfileonce
F lastnodeidstring	F loadexamodes
F lastnodesubtypestring	F loadfontgoodies
F lastparwrapper	F loadlibrary
F lastrpos	F loadluafile
F lastsavedboxresourceindex	F loadluafileonce
F lastsavedimageresourceindex	F loadluamodule
F lastsavedimageresourcepages	F loadmapfile
F lastsectionpage	F loadmapline
F lastsubcountervalue	F loadspellchecklist
F lastunitstring	F loadtexfile
F lastxpos	F loadtexfileonce
F lastypos	F loadtypescriptfile
F lateindent	F loadvisualizer
F latelua	F loadxmlfile

F loadxmlfileonce	F markingtitle
F localanchorx	F markinginjector
F localanchory	F markpage
F localboxindent	F markregionbox
F localboxindex	F markregionboxcorrected
F localboxlefthang	F markregionboxtagged
F localboxleftoffset	F markregionboxtaggedkind
F localboxleftskip	F markregionboxtaggedn
F localboxlinenumber	F markvisualfonts
F localboxlinewidth	F mathclassvalue
F localboxlocalwidth	F mathcontrolcodestring
F localboxmarkonce	F mathhorizontalcode
F localboxovershoot	F mathoptioncodestring
F localboxparfillleftskip	F mathrenderset
F localboxparfillrightskip	F mathvariantcode
F localboxparinitleftskip	F mathvariantcount
F localboxparinitrightskip	F mathvariantslot
F localboxprogress	F maxbufferwidth
F localboxrighthang	F message
F localboxrightoffset	F metapostescaped
F localboxrightskip	F metapostformatted
F localpopmacro	F metapostgraphformat
F localpushmacro	F minute
F locatefilepath	F mixcleanup
F loopcs	F mixfinalize
F loopcsn	F mixflushlist
F lousiness	F mixflushrest
F luacardinal	F mixgetsplit
F luacount	F mixsetsplit
F luadimen	F mixstate
F luaexpression	F modecodestring
F luafloat	F molecule
F luainteger	F month
F luanumber	F monthnmn
F luarandom	F monthname
F luascript	F mpblobtext
F luathread	F mpcolor
F lxmlid	F mpgetblob
F manipulated	F mpgettext
F markblobindexdone	F mpgraphic
F markcontent	F mpgraphictexttoks
F markedpageparameter	F mpoptions
F markedpages	F mpoutlinetoks
F markingnumber	F mppopvariables

F mppushvariables	F ntb_split_section_check
F mprunset	F ntb_split_section_fetch
F mpruntab	F ntb_split_section_locate
F mprunvar	F ntb_split_section_reset
F mpsetclippath	F ntimes
F mpsetoutercolor	F number
F mpsetsxxy	F numbers
F mpsettext	F objectreference
F mptexget	F objectreferencepage
F mptexreset	F octnumber
F mptexset	F openin
F mptexsetfrombuffer	F openout
F mptexttoks	F operatingsystem
F mvloptioncodestring	F ordinal
F namedstructureuservariable	F outputfilename
F namedstructurevariable	F overloadbookmark
F naturalwd	F overloadlowercase
F negatedcolorcomponent	F overloadattribute
F newarray	F overloaduppercase
F newhashedtable	F pageblockrealpage
F newindexedtable	F pageofinternal
F newluatable	F pageoverflow
F newparwrapper	F pagestaterealpage
F newrepeatblrandom	F pagestaterealpageorder
F newstacking	F parcontextcodestring
F nextparallel	F pardir
F nextsubcountervalue	F parpasscallback
F nodimen	F parpassidentifier
F nobufferlines	F parpos
F nofconversions	F partriggercodestring
F nofdays	F pdfbackendcurrentresources
F nofdetachedinsertions	F pdfbackendsetcatalog
F noflinesinbox	F pdfbackendsetcolorspace
F nofmathvariants	F pdfbackendsettextgstate
F nofstackedfloats	F pdfbackendsetinfo
F nologbuffering	F pdfbackendsetname
F normalizecodestring	F pdfbackendsetpageattribute
F normalizedbodyfontsize	F pdfbackendsetpageresource
F normalizeparcodestring	F pdfbackendsetpagesattribute
F notedeltapage	F pdfbackendsetpattern
F noteinternal	F pdfbackendsetshade
F notelistindex	F pdfcolor
F noteprefixednumber	F pdfextension
F notetitle	F pdffeedback

F pdflastobj	F poprandomseed
F pdfliteral	F popreferenceprefix
F pdfobj	F popregime
F pdfrefobj	F poprunstate
F pdfsetuserdata	F popsectionblock
F pdfvariable	F positunum
F percentageof	F positunumdef
F pfabs	F postlistbox
F pfacos	F postlistcopy
F pfacosh	F postponenotes
F pfasin	F prefixedconverted
F pfasinh	F prelistbox
F pfatan	F prelistcopy
F pfatanh	F preparecolumnsetflush
F pfatantwo	F prerolledpages
F pfceil	F presetcolumnsetsheets
F pfcos	F presetcolumnsetspreadsheets
F pfcosh	F presetmathematics
F pfdeg	F presetmathfontalternate
F pfexp	F presetsymbollist
F pffloor	F previoussubcountervalue
F pflog	F privatecharacter
F pfmod	F privatecharactercode
F pfpow	F processbodyfontsizes
F pfrad	F processbuffer
F pfrem	F processcollectedmath
F pfround	F processedfile
F pfsin	F processedfiles
F pfsinh	F processfile
F pfsqrt	F processfilemany
F pftan	F processfilenone
F pftanh	F processfileonce
F pgfxcolorspec	F processjob
F pickupbuffer	F processlist
F pickupmarkedcontent	F processregister
F pickuppunctuation	F processsplit
F placeparallel	F processsynonyms
F popfloat	F product
F pophyphenation	F profilebox
F poplist	F profilemacro
F poplocalanchors	F project
F poplogfile	F pruneboxesincache
F popparagraphtweak	F purefontname
F poppath	F pushfloat

F pushhyphenation	F registercolumnsetspreadsheets
F pushlist	F registerengineclass
F pushlocalanchors	F registerfallbackfont
F pushlogfile	F registerfiguremask
F pushparagraphtweak	F registerfigurepattern
F pushpath	F registerfigurerange
F pushrandomseed	F registerfiguresuffix
F pushreferenceprefix	F registerfilescheme
F pushregime	F registerfontalternative
F pushrunstate	F registerfontfamily
F pushsectionblock	F registerforcedbreak
F pushstream	F registergroupset
F putboxincache	F registerhashedfiles
F putincolumnset	F registerhelp
F putincolumnsetdirect	F registerhyphenationexception
F putnextboxincache	F registerhyphenationpattern
F qrcodebuffer	F registeritemgroup
F qrcodestring	F registerlabel
F rawMPdata	F registerlanguagefeatures
F rawcharacter	F registerlinenumbering
F rawsetupstring	F registermaintextcolor
F rawsubcountervalue	F registermpextensible
F read	F registernamedlua
F readfromterminal	F registernamespace
F readline	F registerobject
F readlinedirect	F registerpattern
F recolorbox	F registerpostponedblock
F referencecolumn	F registerreferencedobject
F referencepagedetail	F registerrendering
F referencepagestate	F registersection
F referenceposx	F registershownsynonym
F referenceposy	F registersnaprange
F referencerealpage	F registerstructureprocessor
F registeranchorbox	F registersynchronize
F registerattachment	F registersynonym
F registerbackendsymbol	F registertransliteration
F registerbackground	F registerunit
F registerbodyfontsize	F registerunitshortcut
F registerbookmark	F registerunknownbodysize
F registerboxglyph	F registerusedsynonym
F registerbuttons	F registeruserdata
F registercolorintent	F registerverbosemathlabel
F registercolumnsetarea	F removelastring
F registercolumnsetsheet	F renderingvar

F reorderfloats	F revivefeature
F replacefeature	F rightmathkern
F replacepospxywhd	F romannumerals
F replacewildcard	F rotateparshape
F reportstructure	F rounded
F resavefloat	F roundedfill
F reservedautoregiontag	F roundedoutline
F resetMPinstance	F ruby
F resetalternate	F ruleoptioncodestring
F resetbackgroundrowdata	F runcontextjob
F resetboxesincache	F safechar
F resetcharacteralign	F samplefile
F resetcolumnset	F saveboxresource
F resetcomparingtext	F savebuffer
F resetcounter	F savecounter
F reseteffect	F savecurrentattributes
F resetfeature	F savecurrentvalue
F resetfontfeature	F savedlistnumber
F resetfontsolution	F savedlistprefixednumber
F resetforcedbreak	F savedlisttitle
F resetinjector	F savefloat
F resetlogfile	F saveimageresource
F resetmapfiles	F savemargindata
F resetmathattributes	F savenote
F resetnullfont	F savepagedata
F resetparallel	F savepageinjections
F resetpath	F saveparallel
F resetreference	F savepos
F resetscript	F savespecificfloat
F resetstructureprocessor	F savestructureblock
F resetsubcounter	F scangivendimensions
F resetsynchronizemarking	F scriptsmodecodestring
F resetsynonyms	F second
F resettimer	F selectstructureblock
F resettrackers	F set_extensible_data
F resolvedemoji	F setadaptive
F restartcounter	F setalternate
F restartsubcounter	F setautoprefix
F restorecounter	F setbackgroundrowdata
F restorecurrentattributes	F setboxglyph
F restorenote	F setboxline
F restoreobject	F setbreakpoints
F reuserandomseed	F setcharacteralign
F reversevboxcontent	F setcharacteraligndetail

F setcharactercasing	F setsizecolumnset
F setcharactercleaning	F setsizecolumnspan
F setcharacterkerning	F sethyphenatedurlcharacters
F setcharacterspacing	F sethyphenationfeatures
F setcharacterstripping	F sethyphenationmethod
F setclosedocumentaction	F setidentityvariable
F setclosepageaction	F setinitial
F setcolormodel	F setinitialsectionblock
F setcolumnsetarea	F setinjector
F setcolumnsetlines	F setinsertionlocation
F setcolumnsetmvl	F setinsertmigration
F setcolumnsetpresent	F setinterfaceconstant
F setcolumnsetproperties	F setinterfaceelement
F setcolumnsetstart	F setinterfacemessage
F setcomparetext	F setinterfacemessages
F setcomparingtext	F setinterfacevariable
F setcounter	F setinternalreference
F setdataset	F setitaliccorrection
F setdestinationattribute	F setjavascriptpreamble
F setdigitsmanipulation	F setjobcomment
F setdirection	F setlanguageexceptions
F setdocumentargument	F setlanguageoptions
F setdocumentcommandline	F setlanguagepatterns
F setdocumentctxfile	F setlanguagesynonym
F setdocumentdefaultargument	F setlinefiller
F setdocumentenvironments	F setlineprofile
F setdocumentfilename	F setlocalalignanchor
F setdocumentfilenames	F setlocalmarkanchor
F setdocumentmodes	F setlocalsyncanchor
F setdocumentmodules	F setluatable
F seteffect	F setmathalphabet
F setelementbackendtag	F setmathattribute
F setelementnature	F setmathfontalternate
F setextrafontkerns	F setmathfontstyle
F setfieldcalculationset	F setmathsnapping
F setfigureconversion	F setmathvariant
F setfigurelookuporder	F setmetaglyph
F setfigurepaths	F setmpextensions
F setfirstline	F setnaturalwd
F setfontfeature	F setnegative
F setfontofid	F setnextinternalreferences
F setfontsolution	F setnextreferenceorder
F setformat	F setnotestate
F setformsmethod	F setopendocumentaction



F setopenpageaction	F settagfigure
F setowncounter	F settagfloat
F setownsubcounter	F settagformulacontent
F setpagecolormodel	F settaggedmetadata
F setpagestate	F settaggingcomment
F setpagestaterealpageno	F settaggingoption
F setpagetransition	F settaggingpresets
F setparagraphmetashape	F settaghighlight
F setparagraphshape	F settagitem
F setparbuilder	F settagitemgroup
F setparwrapper	F settaglist
F setpdfcompression	F settagmarginanchor
F setperiodkerning	F settagmarginintext
F setpostlistbox	F settagmgraphic
F setprelistbox	F settagnotation
F setprofile	F settagnotationsymbol
F setrandomseed	F settagparagraph
F setrealign	F settagproperty
F setrealspaces	F settagpublication
F setreferencelinkmethod	F settagregister
F setregionbox	F settagsetreferencedescription
F setregionboxtagged	F settagsorting
F setregistermethod	F settagssentencesymbol
F setreplacements	F settagssynonym
F setruby	F settagtablecell
F setrule	F settagtabulatecell
F setscript	F settransliteration
F setsectionblock	F setupbookmarks
F setsectionentry	F setupcanvas
F setshadow	F setupcharacterspacing
F setshift	F setupcomparingtext
F setsofthyphens	F setupexport
F setsplitlisthtdp	F setupfontexpansion
F setstacking	F setupfontprotrusion
F setstructureblockstate	F setupinsertion
F setstructurelevel	F setuplinenumbering
F setstructurenumber	F setupsynctex
F setsubcounter	F setupusermetadata
F settagcodepoint	F setupviewerlayer
F settagcombination	F setvisual
F settagcombinationpair	F setvisualfont
F settagconstruct	F setvisualallayer
F settagdelimitedsymbol	F setvisuals
F settagdescriptionindex	F setvsizecolumnset

F setxmpfile	F spaceddigits
F shiftmatrixornaments	F special
F shiftparshape	F specificationoptioncodestring
F shipoutpage	F specifiedfont
F showarray	F specifiedfontsize
F showassignerror	F specifiedfontspec
F showattributes	F splitfilename
F showbits	F splitsamplefile
F showboxinbuffer	F spotcolorname
F showbtxdatasetauthors	F spotcolorparent
F showbtxdatasetcompleteness	F spotcolorvalue
F showbtxdatasetfields	F squid_check
F showbtxentry	F startactualtext
F showbtxfields	F startalternativetext
F showbtxhashedauthors	F startchemical
F showbtxtables	F startclipping
F showbtxvariants	F startcollectingmath
F showchardata	F startcolorset
F showcounter	F startcomponent
F showdirectives	F startenvironment
F showdiscretionaries	F startfontsolution
F showexperiments	F startgraphicgroup
F showfontparameters	F startlocalcomponent
F showhyphenatedinlist	F startmarkpages
F showhyphenationtrace	F startmatrix
F showinjector	F startmirroring
F showjustification	F startpageblock
F showlogcategories	F startparbuilder
F showluatables	F startprerollpageblock
F showluatokens	F startproduct
F showmacrostack	F startproject
F showmessage	F startregime
F showpagelist	F startrotation
F showparagraphshape	F startruby
F showprofiledmacros	F startscaling
F showstructure	F startsectionlevel
F showtrackers	F startstream
F silliness	F starttext
F simplealign	F startviewerlayer
F simplecases	F step
F simplematrix	F stopactualtext
F sin	F stopalternativetext
F sind	F stopchemical
F sl	F stopclipping

F stopcollectingmath	F structurenumber
F stopcolorset	F structuretitle
F stopcomponent	F structureuservariable
F stopenvironment	F structurevariable
F stopfontsolution	F subcountervalue
F stopgraphicgroup	F subsubcountervalues
F stoplocalcomponent	F subtocolumnsetmvl
F stopmarkpages	F subtocolumnsetmvlbalance
F stopmatrix	F subtractfeature
F stopmirroring	F svghashed
F stoppageblock	F sync
F stopparbuilder	F synccolor
F stopprerollpageblock	F synccolorclone
F stopproduct	F synccolorcount
F stopproject	F synchronizelocalanchors
F stopregime	F synchronizemarking
F stoprotation	F synchronizesteps
F stopscaling	F synchronizestream
F stopsectionlevel	F synctexblockfilename
F stopstream	F synctexdisable
F stoptext	F synctexpause
F stopviewerlayer	F synctexpopline
F storejavascriptcode	F synctexpushline
F storejavascriptpreamble	F synctexresetfilename
F storenote	F synctexresume
F storeregister	F synctexsetfilename
F strc_tags_document_pop	F synonymmeaning
F strc_tags_document_push	F synonymname
F strc_tags_get_element_tag	F synonympages
F strc_tags_parcounter_pop	F systemlog
F strc_tags_parcounter_push	F tabl_ntb_get_sec
F strc_tags_set_aspect	F tabl_ntb_set_sec
F strc_tags_set_element_user_properties	F tagmfunctionlab
F strc_tags_start	F tagmfunctionlabattribute
F strc_tags_start_chained	F tan
F strc_tags_start_detail	F tand
F strc_tags_start_ignore	F textdir
F strc_tags_start_userdata	F textime
F strc_tags_stop	F tf
F stringtoorientation	F thebox
F structureautocatcodedget	F thefirstcharacter
F structureblockuservariable	F themaxboxwidth
F structurecatcodedget	F theremainingcharacters
F structuregivencatcodedget	F tightfitcompensation

F timestring	F uselibrary
F tobigpoints	F uselist
F tobit	F useluamodule
F tobits	F usuatable
F tochar	F usemathpluginlibrary
F tohexa	F usemodules
F toorientation	F usepath
F totalofstring	F useproduct
F tounicharnum	F useproject
F towholebigpoints	F usereferences
F transliterate	F useregister
F transliteratebuffer	F usesubpath
F transliterated	F usesymbols
F transliteratedbuffer	F usetransliteration
F transliterationexception	F useurl
F traverseblock	F usezipfile
F traversemath	F utfchar
F triggerpagebuilder	F utflower
F truefilename	F utfmathclass
F truefontname	F utfmathcommand
F type	F utfmathcommandfiller
F typebuffer	F utfmathfiller
F typefile	F utfmathstretch
F uchar	F utfshape
F uchexnumber	F utfstrip
F uchexnumbers	F utfupper
F undefinechemical	F uuid
F unicodechar	F vboxlisttoinbox
F unihex	F verbose
F unit	F vpackbox
F unloadlanguage	F vpackedbox
F unsupportedcs	F way
F useMPlibrary	F weekday
F useanyfile	F weekdayname
F useanyfileonce	F widthofstring
F useboxresource	F widthuptohere
F usecolors	F write
F usecomponent	F writeline
F useenvironment	F writestatus
F usefigurebase	F writestring
F usefile	F x_table_c
F useimageresource	F x_table_cleanup
F usejavascriptpreamble	F x_table_construct
F usejavascriptscripts	F x_table_create

F x_table_finish_row	F xmldoifatt
F x_table_flush	F xmldoifelse
F x_table_init_construct	F xmldoifelseatt
F x_table_init_reflow_height	F xmldoifelseempty
F x_table_init_reflow_height_option	F xmldoifelseselfempty
F x_table_init_reflow_width	F xmldoifelsetext
F x_table_init_reflow_width_option	F xmldoifempty
F x_table_next_row	F xmldoifnot
F x_table_next_row_option	F xmldoifnotatt
F x_table_r	F xmldoifnotempty
F x_table_reflow_height	F xmldoifnotselfempty
F x_table_reflow_width	F xmldoifnottext
F x_table_set_construct	F xmldoifselfempty
F x_table_set_reflow_height	F xmldoiftext
F x_table_set_reflow_width	F xmlelement
F xmladdindex	F xmlfileline
F xmlaftersetup	F xmlfilename
F xmlall	F xmlfilter
F xmlappendsetup	F xmlfilterlist
F xmlapplyselectors	F xmlfirst
F xmlatt	F xmlflush
F xmlattdef	F xmlflushcontext
F xmlattribute	F xmlflushlinewise
F xmlattributedef	F xmlflushpure
F xmlbadinclusions	F xmlflushsetups
F xmlbeforesetup	F xmlflushspacewise
F xmlchainatt	F xmlflushtext
F xmlchainattdef	F xmlformulatobuffer
F xmlchecknamespace	F xmlfunction
F xmlcommand	F xmlgetindex
F xmlconcat	F xmlinclude
F xmlconcatrange	F xmlincludeoptions
F xmlcontext	F xmlinclusion
F xmlcount	F xmlinclusionbase
F xmlcssmappedstylevalue	F xmlinclusions
F xmlcssstylevalue	F xmlindex
F xmldelete	F xmlinlineverbatim
F xmldepth	F xmlinstalldirective
F xmldirect	F xmllast
F xmldirectives	F xmllastatt
F xmldirectivesafter	F xmllastmatch
F xmldirectivesbefore	F xmllastpar
F xmldisplayverbatim	F xmlloadbuffer
F xmldoif	F xmlloaddata

F xmlloadirectives	F xmlstripped
F xmlloadentities	F xmlstrippednolines
F xmlloadfile	F xmltag
F xmlmain	F xmltexatt
F xmlmatch	F xmltexentity
F xmlname	F xmltext
F xmlnamespace	F xmltobuffer
F xmlnonspace	F xmltobuffertextonly
F xmlpar	F xmltobufferverbose
F xmlparam	F xmltofile
F xmlpath	F xmltoparameters
F xmlpopmatch	F xmlverbatim
F xmlpos	F xmlwithindex
F xmlprependsetup	F year
F xmlpure	T containers
F xmlpushmatch	F cleanname
F xmlraw	F content
F xmlrawtex	F define
F xmlrefatt	F is_usable
F xmlregisterns	F is_valid
F xmlremapname	F read
F xmlremapnamespace	B usecache
F xmlremovesetup	F write
F xmlresetinjectors	T context
F xmlresetsetups	F bc
F xmlsave	F bgroup
F xmlsetatt	F char
F xmlsetattribute	F concat
F xmlsetcommandtonone	D conditionals
F xmlsetcommandtotext	F cssdimension
F xmlsetentity	F ctxescape
F xmlsetinjectors	F ctxescaped
F xmlsetpar	F direct
F xmlsetparam	F egroup
F xmlsetsetup	F escape
F xmlsnippet	F escaped
F xmlstartraw	F firstofoneargument
F xmlstarttiming	F firstoftwoarguments
F xmlstopraw	F fprint
F xmlstoptiming	F getlogger
F xmlstrip	F glyph
F xmlstripanywhere	F gobbleoneargument
F xmlstripeverything	F latelua
F xmlstripnolines	F loadfile

F loadviafile	F AK
D modes	F Alphabetic
F newindexer	F Alphabetic:es
F newtexthandler	F Alphabetic:ru
F newerbosehandler	F Alphabetic:sl
F nr	F Character
F par	F Characters
F popcatcodes	F I
F poplogger	F KA
F printlines	F KR
F printtable	F R
F protect	F RK
F pushcatcodes	F Romannumerals
F pushlogger	F Russiannumerals
F rule	F Sloveniannumerals
F runfile	F Spanishnumerals
F runstring	F Word
F safechar	F Words
F secondoftwoarguments	F a
F setconditional	F a:es
F setfontid	F a:ru
F setmode	F a:sl
F setsystemmode	F abjadnodotnumerals
F settracing	F abjadnumerals
F settrialtypesettingmethod	F alphabetic
F space	F alphabetic:es
F sprint	F alphabetic:ru
F startcollecting	F alphabetic:sl
F step	F character
F stepwise	F characters
F stopcollecting	F chineseallnumerals
D systemmodes	F chineseacapnumerals
F tobuffer	F chinesedatenumerals
D tokenizedcs	F chinesenumerals
F tolines	F chr
F trialtypesetting	F chrs
F unprotect	F cn
F utfchar	F cn-a
F viafile	F cn-c
T converters	F cn-d
F A	F convert
F A:es	F decimals
F A:ru	F define
F A:sl	F gregorian_to_hebrew

F	gregorian_to_jalali	F	running
F	hebrewnumerals	F	status
F	hexstringtonumber	F	wrap
F	i	F	yield
F	isleapyear	T	ctxrunner
F	jalali_to_gregorian	F	load
F	lhexnumber	F	preparedfile
F	lhexnumbers	D	prepfiles
F	leapyear	F	resolve
F	lower	T	debug
F	max	F	getinfo
F	maxchrs	F	sethook
F	nicenumber	F	traceback
F	nofdays	F	dimen
F	number	T	dir
F	numbers	F	collectpattern
F	octnumber	F	current
F	octstringtonumber	F	expandlink
F	ordinal	F	expandname
F	r	F	found
F	romannumerals	F	glob
F	russiannumerals	F	globdirs
D	sequences	F	globfiles
F	settime	F	globpattern
F	sloveniannumerals	F	ls
F	spaceddigits	F	makedirs
F	spanishnumerals	F	mkdirs
F	textime	F	pop
F	toabjad	F	push
F	tochinese	T	directives
F	tohebrew	D	data
F	toroman	F	default
F	totime	F	disable
F	uchexnumber	F	enable
F	uchexnumbers	F	list
F	upper	S	name
F	weekday	F	register
F	word	F	report
F	words	F	reset
T	coroutine	F	show
F	close	F	value
F	create	F	values
F	isyieldable	T	document
F	resume	D	arguments



F	getargument	F	perlinnoise
F	getfilename	F	simplexangle
F	pdf_cleanup_cidsets	F	simplexdetail
F	pdf_cleanup_procsets	F	simplexnoise
F	pdf_identify_content	F	stepoctave
F	pdf_serialize_content	T	environment
F	pdf_strip_content	F	argument
F	pdf_strip_page	D	arguments
F	setargument	D	basicengines
F	setcommandline	N	currentrun
F	setdefaultargument	F	definefilefallback
F	setenvironments	F	definefilesynonym
F	setfilename	D	engineflags
F	setfilenames	S	filename
F	setmodes	D	filesynonyms
F	setmodules	N	forcedruns
D	variables	F	getargument
T	documentdata	F	globfiles
F	variable	S	homedir
F	dofile	B	initex
T	drivers	B	initexmode
F	applyanchor	F	initializearguments
F	applyorientation	F	initializefilenames
F	convert	S	inputfilebarename
F	enable	S	inputfilename
F	finalize	S	inputfilesuffix
F	gethpos	S	jobfilefullname
F	gethvrpos	S	jobfilename
F	getpos	S	jobfilesuffix
F	getrpos	N	kindofrun
F	getvpos	N	lmtxmode
F	initialize	F	loadexamodes
F	install	F	loadluafile
N	lmtxversion	F	luafile
F	outputfilename	F	luafilechunk
F	report	S	luatexengine
T	effects	N	luatexfunctionality
F	getoctaveloops	S	luatexverbose
F	getoctavemethods	N	luatexversion
F	getoctavestatus	N	maxnofruns
F	getoctavevariants	S	oldhome
F	newoctave	D	originalarguments
F	octave	S	outputfilename
F	octavebytemap	S	ownbin

S ownmain	D converters
S ownname	F current
S ownpath	N defaultdepth
B prerollrun	N defaultheight
D rawarguments	B defaultsearch
F reconstructcommandline	N defaultwidth
F relativepath	F done
F setargument	F dummy
F splitarguments	D exists
S suffix	F exists
F texfile	D formats
S texmfos	D found
S texos	F get
S texroot	F getinfo
F truefilename	F getpdfinfo
F useluamodule	F getrealpage
F usemodules	F guess
D validengines	F guessfromstring
S version	F hash
F error	D identifiers
T experiments	F identify
D data	F include
F default	D includers
F disable	F initialize
F enable	D loaded
F list	D localpaths
S name	D magics
F register	F mergegoodies
F report	N nofmissing
F reset	N nofprocessed
F show	D order
F value	D paths
F values	D patterns
T figures	F pop
F applyratio	B preferquality
F badname	D programs
D bases	F push
F bitmapimage	F qrcode
N boxnumber	F registerpattern
F bytepalette	F registerresource
D cachepaths	F registersuffix
F check	D remappers
D checkers	D resources
D conversions	F scale

F set	F suffixonly
F setconversion	F syncmtimes
F setlookups	F withinbase
F setorder	T fio
F setpaths	F getposition
D suffixes	F read2dot14
D used	F readbytes
T file	F readbytetable
F addsuffix	F readcardinal1
F basename	F readcardinal11le
F checksum	F readcardinal2
F collapsepath	F readcardinal2le
F copy	F readcardinal3
F dirname	F readcardinal3le
F expandname	F readcardinal4
F extname	F readcardinal4le
F is_qualified_path	F readcardinaltable
F is_readable	F readcline
F is_rootbased_path	F readcstring
F is_writable	F readfixed2
F isreadable	F readfixed4
F iswritable	F readinteger1
F join	F readinteger1le
F joinpath	F readinteger2
F loadchecksum	F readinteger2le
F nameonly	F readinteger3
F nametotable	F readinteger3le
F needs Updating	F readinteger4
F needsupdating	F readinteger4le
F pathpart	F readintegertable
F readdata	F setposition
F removesuffix	F skipposition
F replacesuffix	F writecardinal1
F reslash	F writecardinal11le
F robustname	F writecardinal2
F savechecksum	F writecardinal2le
F savedata	F writecardinal3
F size	F writecardinal3le
F splitbase	F writecardinal4
F splitname	F writecardinal4le
F splitpath	T floats
F suffix	F analysemethod
F suffixes	F checkedpagefloat
F suffixesonly	F collect

F consult	F mode
F flush	D names
F getvariable	D nulldata
F hasstacked	D protrusions
F nofstacked	F registersanitizer
F pop	F reserveid
F push	F toeffect
F resave	T functions
F save	F dummy
F stacked	F getmetatable
T font	T globaldata
F addcharacters	N CONTEXTLMTXMODE
F addquality	N LUAFORMAT
F current	N LUAMAJORVERSION
F define	N LUAMINORVERSION
F getfont	S LUATEXENGINE
F getfontdimen	N LUATEXFORMATID
F getfontfields	N LUATEXFUNCTIONALITY
F getfontspec	S LUATEXVERBOSE
F getmathcharacterfields	N LUATEXVERSION
F getmathindex	N LUAVERSION
F getmathspec	F SAVEDREQUIRE
F getparameterfields	F assert
F gettextcharacterfields	F collectgarbage
F id	F dimen
F max	F dofile
F nextid	F error
F setfont	F getmetatable
F setfontdimen	T graphics
F xscaled	T backgrounds
F yscaled	F fetchmultipar
T fonts	F pair
F current	F path
F currentid	F point
F definetypface	T bitmaps
F enhanceid	F flush
D expansions	F load
D formats	T loaders
F getalternate	F jpeg
F getindices	F jpg
F getkern	F png
F getmultiple	F new
F getsubstitution	F placeholder
F infofont	F tocontext

F bpsize	F inspect
T colorspace	T interactions
T identifiers	D attachments
F bitmap	T fields
F jp2	F clone
F jpeg	F define
F jpg	F defineset
F png	F insert
F identify	T general
F registerpdfcompactor	F getidentity
F registerpdffont	F getidentityvariable
T synchronizers	T help
F collapse	F collect
F collect	F reference
F extend	F register
F getbottom	T javascripts
F getd	F addtopreamble
F geth	F code
F getkind	D codes
F getsize	F flushpreambles
F gettask	D functions
F gettop	D preambles
F getw	F setpreamble
F getx	F storecode
F gety	F storepreamble
F prune	F usepreamblenow
T gzip	F usescripts
F compress	D linkedlists
F compressed	T pages
F decompress	F setpagetransition
F load	F setupcanvas
F save	T references
F suffix	F setcloseddocumentaction
T helper	F setclosepageaction
F getprofile	F setopendocumentaction
F mathnested	F setopenpageaction
F mathprocess	D renderings
F mathstep	T interfaces
F snapindeed	T arrays
F snaplist	D cachedsetups
F traversecharmethod	F cachesetup
F traverseglyphmethod	T cardinals
F traversehorizontal	F checkedspecification
F traversevertical	D complete

D constants	D usednamespaces
D corenamespaces	D variables
S currentinterface	F writestatus
S currentresponse	T io
F definecommand	F ask
F defined	F bytes
F doifelsemessage	F characters
D elements	F close
T floats	F copydata
D formats	F exists
F getmessage	S fileseparator
F getnamespace	F flush
F getsetupstring	F gobble
D hashedsetups	F input
F implement	F lines
T integers	F loadchunk
F interfacedcommand	F loaddata
T interfaces	F loadlines
F knownscanner	F newreader
F message	F noflines
F nameofscanner	F open
T namesofscanners	F output
T namespaces	S pathseparator
F define	F popen
F list	F read
T numbers	F readall
F registernamespace	F readnumber
F registerscanner	F readstring
D scanners	F savedata
F setconstant	F size
F setcount	U stderr
F setdimen	U stdin
F setelement	U stdout
F setformat	F tmpfile
F setmacro	F type
F setmessage	F write
F setmessages	F ipairs
F settranslation	T job
D setupstrings	F comment
F setvariable	T datasets
F showmessage	D collected
D storedscanners	F extend
F tolist	F getdata
D translations	F setdata

D tobesaved	D tobesaved
F disablesave	T positions
T embedded	F b_column
D collected	F b_region
D tobesaved	F c
T fileobjreferences	D collected
D collected	F column
D tobesaved	F columnofpos
T files	F copy
D collected	F depth
F context	F e_column
B forcerun	F e_region
F run	F enhance
D tobesaved	F extra
F getrandomseed	F get
F initialize	F getcolumndata
T linkedlists	F getfree
D collected	F gethpos
D tobesaved	F gethvrpos
F load	F getpos
F loadother	F getreserved
T meshedup	F getrpos
D collected	F getsync
D tobesaved	F gettobesaved
T objects	F getvpos
D collected	F hangafter
F get	F hangindent
F number	F height
F page	F hsize
F save	N lastr
F set	N lastx
D tobesaved	N lasty
B pack	F leftskip
N packversion	F lowerleft
T pagestates	F lowerright
D collected	F markregionbox
F countervalue	F n
F extend	F onsamepage
F realpage	F overlapping
F realpageorder	F p
F setstate	F page
D tobesaved	F paragraph
T parwrappers	F parindent
D collected	F position

F r	F current
F region	F gethjcode
F registerhandlers	F has_language
F replace	F hyphenate
F rightskip	F hyphenation
F set	F hyphenationmin
F setall	F id
F setregionbox	F new
F setspec	F patterns
F settobesaved	F postexhyphenchar
D tobесaved	F posthyphenchar
F upperleft	F preexhyphenchar
F upperright	F prehyphenchar
F used	F sethjcode
F whd	F setwordhandler
F width	T languages
F x	F addgoodiesdata
F xy	F addgoodiesfile
F y	T appliedoptions
F register	F associate
F save	D associated
T structure	F association
D collected	D counters
T components	F current
T namestack	D data
T tobесaved	D decimals
T branches	F define
S name	F explicithyphen
S type	F exportlanguage
T variables	F flatten
D checksums	T frequencies
D collected	F averagecharwidth
F getchecksum	F getdata
F makechecksum	F getdata
F restore	F getmetadata
F save	F getnumber
F setchecksum	F goodiefiles
D tobесaved	T hjcounts
N version	F hyphenate
T kpse	T hyphenators
T language	T dictionaries
F clean	D featuresets
F clearhyphenation	F handler
F clearpatterns	T methods



F expanded	F serializediscretionary
B none	F setexceptions
F original	F setgoodieshandler
F tex	F setoptions
F traditional	F setpatterns
F popmethod	F setsynonym
F pushmethod	F setwordhandler
F setmethod	F showdiscretionaries
F setup	F strippedgoodiewords
F showhyphenationtrace	F tolang
T traditional	T transliteration
F definefeatures	F exception
F gettrace	F handler
F hyphenate	F register
F injecthyphens	F set
F installmethod	F use
F lasttrace	F unload
F loadpatterns	T urls
F registerexception	D characters
F registerpattern	N lefthyphenmin
F setfeatures	D mapping
F installed	B packslashes
F installhandler	N righthyphenmin
T labels	F setcharacters
F define	N version
F split	F visualizediscretionaries
F loadable	T words
F loadwords	F check
T logger	T data
F report	F disable
F noflattened	F enable
D numbers	T enablers
F pdflanguage	B enables
F postexhyphenchar	F found
F posthyphenchar	F load
F preexhyphenchar	T methods
F prehyphenchar	N threshold
D registered	T layouts
T registeredactions	F getcanvas
T replacements	F getpagedimensions
F add	F setupcanvas
F addlist	T status
F handler	F isleftpage
F set	F leftorrightpageaction

T lfs	F get
F attributes	F getvariables
F chdir	F htmfile
F currentdir	T html
F dir	F a
F isdir	F td
F isfile	F th
F isfound	F include
F isreadabledir	T inherited
F isreadablefile	S color-background-four
F iswriteabledir	S color-background-one
F iswriteablefile	S color-background-three
F link	S color-background-two
F mkdir	S title
F mkdirs	F initialize
F modification	F inject
F readlink	F lmxfile
F rmdir	F loadedfile
F setexecutable	F make
F symlink	F new
F symlinktarget	F popupfile
F touch	F print
F walkdir	F pv
T libraries	F report
D basiclua	F reset
D basictex	F result
D builtin	F set
D extralua	F show
D extratex	F stripcss
D functions	F tv
D globals	F type
D obsolete	F urlescape
D optional	F variable
T lmx	T variables
F color	S color-background-blue
F convert	S color-background-body
F convertfile	S color-background-green
F convertstring	S color-background-main
F einject	S color-background-purple
F eprint	S color-background-yellow
F escape	S title-default
F finalized	F load
F finject	D loaders
F fprint	F loadfile

F loadstring	F texerrormessage
T logs	F writer
F application	T lpdf
F categories	F action
F direct	F adddocumentcolorspace
F disable	F adddocumenttextgstate
F enable	F adddocumentpattern
F finalactions	F adddocumentshade
F flush	F addtocatalog
F loggingerrors	F addtoinfo
F messenger	F addtonames
F new	F addtopageattributes
F newline	F addtopageresources
F poplogfile	F addtopagesattributes
F poptarget	F addxmpinfo
T private	F annotationspecification
F enablepagetiming	F array
F getpagetiming	F attachmentsymbols
F pushlogfile	F boolean
F pushtarget	F border
F registerfinalactions	F checkedkey
F report	F checkedresources
F reporter	F checkedvalue
F resetlogfile	F circularshade
F setformats	F close
F setformatters	F cmykcode
F setlogfile	F collectedresources
F setmessenger	F color
F setprocessor	F colorspace
F settarget	D colorspaceconstants
F settimedlog	F colorspec
F settranslations	F colorvalue
F show	F colorvalues
F start_page_number	F commentsymbols
F start_run	F compressdata
F startererrorlogging	F compresslevel
F startfilelogging	F constant
F status	F copyarray
F stop_page_number	F copyboolean
F stoperrorlogging	F copyconstant
F stopfilelogging	F copydictionary
F subdirect	F copyfloat
F subreport	F copyinteger
F system	F copynumber

F copystring	F pageplugin
F copyunicode	F parsecontent
F deferredobject	F producer
F delayedobject	T resolvers
F destinationspecification	F destinations
F dictionary	F embeddedfiles
F docstring	F javascripts
T encodingvalues	F layers
N base16	F pages
N base85	F structure
N decoded	F widgets
N encoded	F unload
N plain	F verboseobject
N utf16be	F escaped
N utf16le	F finalizedocument
T endpoints	F finalizepage
S Div	F finalizesignature
S Part	F finishtransparencycode
S Sect	T flags
T epdf	T annotations
F allcontent	N AutoView
F analyzefonts	N Hidden
F contentplugin	N Invisible
F contenttostring	N Locked
F contenttotext	N LockedContents
D encryptioncodes	N NoRotate
F expanded	N NoView
F expandwidths	N NoZoom
F fontplugin	N Print
F getpagecontent	N Printable
F getstructure	N ReadOnly
T helpers	N ToggleNoView
F tounicodetable	N auto
T image	N hidden
F close	N printable
F copy	T widgets
F new	N Comb
F open	N CommitOnSelChange
F query	N DoNotScroll
F load	N DoNotSpellCheck
F mergewidths	N Edit
D objectcodes	N FileSelect
F objectrange	N MultiLine
F objecttype	N NoExport

N NoToggleToOff	F gettrailerid
N Password	F getversion
N PopUp	F getxformname
N PushButton	F graycode
N Radio	T h_hex_2
N RadiosInUnison	S
N ReadOnly	S
N Required	S
N RichText	S
N Sort	S
N file	S (
N fixed	S )
N nocheck	S \
N protected	T h_hex_4
N readonly	F hasmatrix
N required	F immediateobject
N sorted	F includeimage
N unavailable	F initialize
F flushfonts	T injectors
F flushgroup	F bitmap
F flushobject	F jp2
F flushstreamfileobject	F jpg
F flushstreamobject	F png
T fonts	F injectxmpinfo
F color_direct	F insertxmpinfo
F color_indirect	F lastreferredpage
D formats	F layerreference
F frombytes	F limited
F fromeight	F linearshade
F frompdfdoc	F literal
F fromsixteen	F majorversion
F getcatalog	F makenametree
F getcompression	F minorversion
F getfontname	F nofontregistries
F getfontobjectnumber	F nopages
F getformatoption	F null
F getinfo	F number
F getmatrix	F object
F getnofpages	F objectcompresslevel
F getpageproperties	F pagereference
F getpagereference	F patternstream
F getpagetags	F pdfcolor
F getpos	F pdftimestamp
F gettaggingstatus	T permissions

N access	F topdfdoc
N add	F topermissions
N assemble	F tosixteen
N extract	F transparency
N fillin	F transparencycode
N modify	T transparencygroups
N print	B none
N quality	F transparencyvalue
F preparesignature	F unicode
F print	T usedcharacters
F procset	T usedfontnames
B protectresources	N dejavusansmonoboldttf-1-0-0
F quads	T usedfontobjects
F rectangle	N dejavusansmonoboldttf-1-0-0
F reference	D usedfontstreams
F registerannotation	T usedindices
F registerdestination	T dejavusansmonoboldttf-1-0-0
F registerdocumentfinalizer	F verbose
F registerfontmethod	T lpeg
F registerinitializer	F B
F registerpagefinalizer	F C
F registerpattern	F Carg
F registersignature	F Cb
F replacempinfo	F Cc
F reserveobject	F Cf
F rgbcode	F Cg
F rotationcm	F Cmt
F setcompression	F Cp
F setencryption	F Cs
F setpageorder	F Ct
F setpagestate	F P
F setpagetag	F R
F setutfstringmode	F S
F setversion	F UP
F sharedobject	F UR
F shareobject	F US
F shareobjectreference	F V
F splitsixteen	F afterprefix
F spotcode	F anywhere
F stream	F append
F string	F balancer
F supportedformats	F beforesuffix
F tocidset	F checkedsplit
F toeight	F containsws

F counter	F getcurrenttime
F endstripper	F getdebuginfo
F finder	F getexitcode
F firstofsplit	F getfunctionstable
F frontstripper	F getnibble
F instringchecker	F getnumerickeys
F is_peg	F getpreciseseconds
F keeper	F getpreciseticks
F locale	F getruntime
F match	F getstacktop
F oneof	F getstartupfile
D patterns	F getstringkeys
F pcode	F getversion
F print	N lastbytecode
F ptree	D messages
F replacer	F newindex
F secondofsplit	F newtable
F setmaxstack	D numbers
F setutfcasers	F protectglobal
F split	F registercode
F splitat	F registeredcodes
F splitter	F registerglobal
F stripper	F registerinitexfinalizer
F times	F registername
F tsplitat	F setbytecode
F tsplitter	F setexitcode
F type	F setnibble
F utfR	S startupfile
F utfchartabletopattern	F subnibble
F utfreplacer	S version
S version	T luac
T lua	F inspect
F addnibble	F print
T bytecode	T luatex
D bytedata	F abort
T bytedone	F cleanup
F callbytecode	F cleanuptempfiles
F comparekeys	F currentfile
F finalizeinitex	F currentlevel
N firstbytecode	F currenttotal
F get_functions_table	F poprunstate
F getallkeys	F pushrunstate
F getbytecode	F registerdumpactions
F getcheckedkeys	F registerpageactions

F registerstartactions	F direct
F registerstopactions	T directives
F registertempfile	F after
N starttime	F before
T syntex	F handle
F blockfilename	F load
F collect	F setup
F disable	F displayverbatim
F enable	F doif
F finish	F doifelse
F isenabled	F doifelseempty
F pause	F doifelsestext
F popline	F doifempty
F pushline	F doifnot
F registerdisabler	F doifnotempty
F registerenabler	F doifnottext
F resetfilename	F doiftext
F resume	F element
F setfilename	F elements
F setup	D entities
F start	F fileline
F stop	F filename
F wrapup	F filter
F wrapup	F filterlist
T lxml	F first
F addindex	F flush
F all	F flushlinewise
F applyfunction	F flushsetups
F applyselectors	F flushspacewise
F att	F get_id
F attribute	F getid
F badinclusions	F getindex
F chainattribute	F id
F checkindex	U idsplitter
F collected	F ifatt
F command	F ifattempty
F concat	F include
F concatrange	F inclusion
F content	F inclusions
F context	F index
F convert	F inlineverbatim
F count	F installsetup
F delete	F last
F depth	F lastatt



F lastmatch	F setparameter
F lastpar	F setsetup
F load	F snippet
F loadbuffer	T sorters
F loaddata	F add
T loaded	F compare
F main	F flush
F match	F reset
F name	F show
F namespace	F sort
F nonspace	F splitid
T obsolete	F startraw
F get_id	F startunesaped
F par	F stopraw
F param	F stopunesaped
F parameter	F store
F path	F strip
F popmatch	F stripped
F pos	F tag
F position	F texatt
F pure	F text
F pushmatch	F tobuffer
F raw	F tofile
F rawroot	F toparameters
F rawtex	F toverbatim
F refatt	F verbatim
F register	F withindex
F registerentity	D xmltexhandler
F removesetup	T math
F replace	F abs
F resetcdata	F acos
F resetsetups	F asin
F resolvedentity	F atan
F root	F atan2
F save	F ceil
F serialize	F ceiling
F setaction	F cos
F setatt	F cosd
F setattribute	F cosh
F setcdata	F deg
F setcommandtonone	F div
F setcommandtotext	F even
F setpar	F exp
F setparam	F floor

F fmod	D classnames
F frexp	D codes
N huge	F define
N initialseed	T dictionaries
F ldexp	D data
F log	D defaults
F log10	D groups
F max	F groupset
N maxinteger	F groupsetgroup
F min	F name
N mininteger	D names
F mod	F registercharacter
F modf	F registergroup
F odd	F registergroupset
N pi	D sets
F pow	D variants
F rad	F dimensions
F random	F disablecollecting
F randomseed	T domainlabels
F round	T domainnames
F setrandomseedi	N default
F sin	F enablecollecting
F sind	F extensiblecode
F sinh	D extensibles
F sqrt	N extrabase
F tan	T fallbacks
F tand	F apply
F tanh	F install
F tointeger	F fallbackstyleattr
F type	F familyname
F ult	F functiontype
T mathematics	D gaps
F addfallbacks	F getblobindex
F addvariant	F getboth
D alphabets	F getdomainname
D alternatives	F getextensibledata
F beforepassingfonttotex	F getmathblob
F big	F getoptionallabel
D boldmap	F getstyle
T categories	F gettextblob
D functions	F getverboselabel
D charactersets	F horizontalcode
F checkaftercopyingfont	F initializeparameters
D classes	F makefont

D mapremap	F addequals
F markblobindexdone	F addfourier
F overloadparameters	F addmirrors
F preset	F addparts
T presets	F addprivates
T less	F addrules
T more	F addscripts
T zero	F bigslots
N privatebase	F checkaccents
F registerextensible	F checkspacing
F registersimplematrix	F copyaccents
F registerverboselabel	T datasets
F remapalphabets	T accentdimensions
F renderextensible	T accent
T renderings	T over
D mappings	T under
D numbers	T addarrows
D sets	T addscripts
F renderset	T checkspacing
F resetattributes	T copyaccents
F scaleparameters	T fixprimes
F setextensibledata	T fixslashes
F setmathsymbol	T wipecues
D sets	F dimensions
F setsnapping	F extendaccents
F setvariant	F fallbacks
D styles	F fixaccents
F syncboth	F fixellipses
F syncname	F fixintegrals
F syncstyle	F fixoldschool
T tagging	F fixprimes
B mfenced	F fixradicals
F toengineclass	F fixslashes
F toname	F fixvariants
F tostyle	F flattenaccents
F tweakaftercopyingfont	F fontname
F tweakbeforecopyingfont	F inspect
T tweaks	F keepbases
F accentdimensions	F kernpairs
F action	F kerns
F addactuarian	T kernsets
F addarrows	T .,
F addbars	F margins
F addcomposites	F message

F moveitalics	T md5
F movelimits	F HEX
F parameters	F dec
F radicalbodymargins	F hex
F radicaldegreeanchors	F sum
F replace	F sumHEXA
F replacealphabets	F sumhexa
F replacerules	T metapost
F setoptions	F checkformat
F setovershoots	F checktracingonline
F showinfo	F cm
F simplifykerns	T codes
F sortvariants	N addto
F staircase	N ampersand
T subsets	N and
T acenorsuvxz	N assignment
T bhklt	N atleast
T d	N begingroup
T dotless	N btex
T f	N capsule
T gjqy	N colon
T horizontalfences	N comma
T i	N controls
T integrals	N curl
T letterlike	N cycle
T mw	N definedmacro
T p	N delimiters
F substitute	N endgroup
F topanchors	N equals
F tweaks	N etex
F version	N everyjob
F wipeanchors	N exittest
F wipecues	N expandafter
F wipeitalics	N fiorelse
F wipevariants	N if
F utfmathaccent	N input
F utfmathclass	N interim
F utfmathcommand	N internal
F utfmathfiller	N iteration
F utfmathstretch	N leftbrace
F variantcode	N leftbracket
F variantcount	N leftdelimiter
F virtualize	N let
D virtualized	N macrodef

N macrospecial	N typename
N maketext	N unary
N message	N undefinedcs
N mode	N until
N newbytemap	N void
N newinternal	N with
N nullary	N within
N numeric	N write
N of	F colorinitializer
N ofbinary	F convert
N onlyset	F currentmpx
N parametertype	F currentmpxstatus
N pathconnect	S defaultformat
N pathjoin	S defaultinstance
N plusorminus	S defaultmethod
N primarybinary	F directrun
N primarydef	F escaped
N property	T exectime
N protection	D extensiondata
N relax	F filterclippath
N repeatloop	F flush
N rightbrace	T flushers
N rightbracket	T pdf
N rightdelimiter	F flushfigure
N runsript	F startfigure
N save	F stopfigure
N scantokens	F textfigure
N secondarybinary	F tocomment
N secondarydef	F flushnormalpath
N semicolon	T fonts
N setbounds	F define
N shipout	F format_number
N show	F format_string
N slash	F formatnumber
N step	F getbackendoption
N stop	F getbendtolerance
N str	F getbuffer
N string	F getclippath
N tag	F getextensions
N tension	F getextradata
N tertiarybinary	F gethashentries
N tertiarydef	F getinstancebyname
N thingstoadd	F getinstanceinfo
N to	F getinstancenames

F getjobdata	F pushformat
F getmovetolerance	F pushscriptrunner
F getparameter	F pushvariable
F getparameterpreset	F pushvariables
F getparameterset	B quitonerror
F getrecord	B reducetogray
F getstatistics	F registerdirect
F gettext	F registerscript
F gettolerance	F registertokens
F graphic	F remappedtext
F graphic_base_pass	F remaptext
F hascurvature	F reporterror
F includesvgbuffer	F reportsvgfonts
F includesvgfile	F reset
F installplugin	F resetbackendoptions
F isobject	F resetlastlog
T knownparameters	F resetplugins
S lastlog	F run
F load	F runinternal
F maketext	F runscript
F mesh	F scanparameters
T metafonts	F scriptindex
T metafun	F setbendtolerance
F interpolate	F setbuffer
F topath	F setextensions
T mptopdf	F setlogging
F convertmpstopdf	F setmovetolerance
N nofconverted	F setoutercolor
N n	F setparameter
F newlogger	F setparameterset
N nofruns	F setrecord
F nofscriptruns	F setttext
F nvformat	F settolerance
F pdfliterals	F setvariable
F pluginactions	B showlog
F popformat	F showsvgpage
F popscriptrunner	F simple
F popvariable	F splitprescript
F popvariables	F startgraphic
F preparetexttextsdata	F startsvghashing
F process	F stopgraphic
F processing	F stopsvghashing
F processplugins	F svformat
T properties	B svgcachefile

F	svgcolorremapper	N	structured
T	svgfactors	N	suffixedmacro
N	%	N	tokenlist
N	bp	N	transform
N	cm	N	unknownboolean
N	em	N	unknownnep
N	ex	N	unknownpath
N	in	N	unknownpen
N	mm	N	unknownpicture
N	pc	N	unknownstring
N	pt	N	unsuffixedmacro
N	px	N	vacuous
F	svgglyphtomp	F	typesvgpage
F	svgshapestomp	F	unload
F	svgshapestopdf	F	untagvariable
F	svgsplitcolor	T	variables
F	svgtomp	T	mime
F	svgtopdf	F	b64
F	sxsy	F	decode
T	tex	T	decodet
F	get	F	base64
F	reset	F	quoted-printable
F	set	F	dot
F	setfrombuffer	F	encode
B	texerrors	T	encodet
F	texexp	F	base64
F	theclippath	F	quoted-printable
F	tographic	F	eol
F	totable	F	normalize
T	types	F	qp
N	boolean	F	qwrp
N	cmykcolor	F	report
N	color	F	stuff
N	dependent	F	unb64
N	independent	F	unqp
N	known	F	wrap
N	nep	T	wrapt
N	numeric	F	base64
N	pair	F	default
N	path	F	quoted-printable
N	pen	F	text
N	picture	F	wrp
N	protodependent	T	moduledata
N	string	T	modules

D anch-loc	D font-chk
D anch-pgr	D font-cid
D anch-snc	D font-col
D back-exp	D font-con
D back-exp-imp-fnt	D font-ctx
D back-exp-imp-mth	D font-def
D back-exp-imp-ref	D font-dsp
D back-exp-imp-tag	D font-enc
D back-imp-lua	D font-enh
D back-imp-mps	D font-fbk
D back-imp-pdf	D font-fmp
D back-imp-pdp	D font-hsh
D back-inc	D font-imp-checks
D blob-ini	D font-imp-combining
D buff-imp-default	D font-imp-compound
D buff-imp-escaped	D font-imp-digits
D buff-imp-lua	D font-imp-dimensions
D buff-imp-mp	D font-imp-effects
D buff-imp-nested	D font-imp-italics
D buff-imp-parsed-xml	D font-imp-ligatures
D buff-imp-tex	D font-imp-math
D buff-imp-xml	D font-imp-notused
D buff-ini	D font-imp-properties
D buff-par	D font-imp-quality
D buff-ver	D font-imp-reorder
D char-enc	D font-imp-scripts
D chem-ini	D font-imp-spacekerns
D chem-str	D font-imp-tex
D cldf-com	D font-imp-text
D cldf-ver	D font-imp-tracing
D colo-icc	D font-imp-tweaks
D colo-ini	D font-imp-unicode
D cont-run	D font-ini
D core-con	D font-lig
D core-ctx	D font-log
D core-dat	D font-lua
D core-sys	D font-map
D driv-shp	D font-mpf
D file-mod	D font-mps
D file-syn	D font-nod
D font-afk	D font-ogr
D font-agl	D font-one
D font-aux	D font-onr
D font-cff	D font-osd



D font-ota	D lang-dis
D font-otc	D lang-exc
D font-otd	D lang-hup
D font-oth	D lang-hyp
D font-oti	D lang-ini
D font-otj	D lang-lab
D font-otl	D lang-rep
D font-oto	D lang-tra
D font-otr	D lang-txt
D font-ots	D lang-url
D font-ott	D lang-wrd
D font-oup	D libs-imp-curl
D font-pat	D libs-imp-ghostscript
D font-prv	D libs-imp-graphicsmagick
D font-san	D libs-ini
D font-sel	D lpdf-ano
D font-shp	D lpdf-col
D font-sol	D lpdf-epa
D font-syn	D lpdf-epd
D font-tfm	D lpdf-fix
D font-tpk	D lpdf-fix-imp-contents
D font-trt	D lpdf-fix-imp-fonts
D font-ttf	D lpdf-fld
D font-txt	D lpdf-fmt
D font-vfc	D lpdf-grp
D font-vir	D lpdf-img
D good-ctx	D lpdf-ini
D good-gen	D lpdf-lmt
D good-ini	D lpdf-mis
D good-mth	D lpdf-ren
D grph-bmp	D lpdf-rul
D grph-con	D lpdf-sig
D grph-epd	D lpdf-tag
D grph-fil	D lpdf-u3d
D grph-img	D lpdf-wid
D grph-inc	D lpdf-xmp
D grph-pat	D lxml-css
D grph-raw	D lxml-dir
D grph-rul	D lxml-ent
D grph-trf	D lxml-ini
D grph-u3d	D lxml-mms
D java-ini	D lxml-sor
D lang-cnt	D lxml-tex
D lang-def	D math-act

D math-ali	D mlib-snc
D math-dim	D mlib-svg
D math-ext	D node-ali
D math-fbk	D node-bck
D math-fnt	D node-fnt
D math-frc	D node-par
D math-ini	D node-ref
D math-map	D node-rul
D math-mps	D node-tra
D math-noa	D node-typ
D math-pre	D pack-obj
D math-rad	D pack-ori
D math-ren	D pack-rul
D math-spa	D page-blk
D math-tag	D page-cst
D math-ttv	D page-flt
D math-txt	D page-ini
D math-vfu	D page-inj
D meta-blb	D page-ins
D meta-fnt	D page-lin
D meta-fun	D page-mix
D meta-imp-txt	D page-otr
D meta-ini	D page-pst
D meta-lua	D page-sel
D meta-nod	D page-str
D meta-pdf	D phys-dim
D meta-tex	D publ-aut
D mlib-cnt	D publ-dat
D mlib-ctx	D publ-fnd
D mlib-fio	D publ-inc
D mlib-int	D publ-ini
D mlib-lmp	D publ-jrn
D mlib-lmt	D publ-oth
D mlib-lua	D publ-reg
D mlib-mat	D publ-sor
D mlib-mpf	D publ-tra
D mlib-msh	D publ-usr
D mlib-pdf	D regi-ini
D mlib-pos	D scrn-but
D mlib-pps	D scrn-fld
D mlib-ptr	D scrn-hlp
D mlib-ran	D scrn-ini
D mlib-run	D scrn-pag
D mlib-scn	D scrn-ref

D scrn-wid	D tabl-xtb
D scrp-cjk	D task-ini
D scrp-eth	D trac-blđ
D scrp-ini	D trac-jus
D scrp-tha	D trac-par
D scrp-tib	D trac-riv
D sort-ini	D trac-sig
D sort-lan	D trac-vis
D spac-ali	D type-ini
D spac-brk	D typo-adj
D spac-chr	D typo-blđ
D spac-hor	D typo-brk
D spac-ovl	D typo-cap
D spac-par	D typo-chr
D spac-pas	D typo-cln
D spac-prf	D typo-dha
D spac-twi	D typo-dif
D spac-ver	D typo-dig
D strc-bkm	D typo-dir
D strc-blk	D typo-drp
D strc-con	D typo-duc
D strc-doc	D typo-fkr
D strc-flt	D typo-fln
D strc-ini	D typo-hid
D strc-itm	D typo-inj
D strc-lev	D typo-itc
D strc-lst	D typo-krn
D strc-mar	D typo-lan
D strc-mat	D typo-lbx
D strc-not	D typo-man
D strc-num	D typo-mar
D strc-pag	D typo-ovl
D strc-ref	D typo-pag
D strc-reg	D typo-par
D strc-rsc	D typo-pnc
D strc-syn	D typo-prc
D strc-tag	D typo-rep
D strc-usr	D typo-rub
D symb-emj	D typo-spa
D symb-ini	D typo-stc
D syst-cmp	D typo-sus
D tabl-ali	D typo-syn
D tabl-ntb	D typo-tal
D tabl-tbl	D typo-wrp

D unic-ini	F flush
T mp	F format
F autoinject	F formatted
T aux	F fprintf
F boolean	T get
F color	F hashentry
F direct	F getbytemap
F draw	F getbytemapdata
F fill	F getlastadddtype
F flush	F graphformat
F fprintf	T inject
F integer	F boolean
F number	F cmykcolor
F numeric	F color
F pair	F integer
F pairpoints	F number
F path	F numeric
F pathpoints	F pair
F points	F path
F print	F pt
F quadruple	F quadruplet
F quadruplepoints	F string
F quoted	F transform
F size	F triplet
F string	F vector
F transform	F vectors
F triplet	F whatever
F tripletpoints	F whd
F vprint	F xy
F boolean	F integer
F bytemap_load_from_file	T lmt_color_functions
F cleaned	F shade
F color	F step
F dataset	F lmt_contours_bitmap_get
T datasets	F lmt_contours_bitmap_set
F load	F lmt_contours_cleanup
F direct	F lmt_contours_color
F downgradebytemap	F lmt_contours_edge_get_band
F downsamplebytemap	F lmt_contours_edge_get_cell
F draw	F lmt_contours_edge_paths
F expandtex	F lmt_contours_edge_set
F fill	F lmt_contours_edge_set_by_band
F fillbytemap	F lmt_contours_edge_set_by_cell
F flatten	F lmt_contours_format

F lmt_contours_function	F mf_blob_dimensions
F lmt_contours_maxmean	F mf_blob_index
F lmt_contours_maxz	F mf_blob_new
F lmt_contours_minmean	F mf_blob_raw_content
F lmt_contours_minz	F mf_blob_raw_dimensions
F lmt_contours_nofvalues	F mf_blob_raw_reset
F lmt_contours_nx	F mf_blob_raw_toutf
F lmt_contours_ny	F mf_blob_raw_wipe
F lmt_contours_range	F mf_blob_size
F lmt_contours_shade_paths	F mf_blob_width
F lmt_contours_shade_set	F mf_external_figure
F lmt_contours_shape_paths	F mf_finish_saving_data
F lmt_contours_start	F mf_formatted_text
F lmt_contours_stop	F mf_get_outline_text
F lmt_contours_value	F mf_graphic_text
F lmt_contours_xrange	F mf_inject_blob
F lmt_contours_yrange	F mf_map_move
F lmt_function_x	F mf_map_text
F lmt_glyphshape_accent	F mf_named_color
F lmt_glyphshape_baseline	F mf_outline_text
F lmt_glyphshape_boundingbox	F mf_save_data
F lmt_glyphshape_depth	F mf_script_index
F lmt_glyphshape_height	F mf_start_saving_data
F lmt_glyphshape_italic	F mf_stop_saving_data
F lmt_glyphshape_llx	F mode
F lmt_glyphshape_n	F n
F lmt_glyphshape_path	F newbytemap
F lmt_glyphshape_start	F number
F lmt_glyphshape_stop	F numeric
F lmt_glyphshape_usedbox	F pair
F lmt_glyphshape_usedline	F pairpoints
F lmt_glyphshape_width	F path
F lmt_mesh_set	F pathpoints
F lmt_mesh_update	F points
F lmt_poisson_generate	F processbytemap
F lmt_start_potrace	F processingmode
F lmt_step_potrace	F quadruple
F lmt_stop_potrace	F quadruplepoints
F lmt_surface_do	F quoted
F lmt_svg_include	F report
F loadbytemap	T scan
F loadbytemapfile	F boolean
F mesh_register	F cmykcolor
F mf_blob_add	F color

F expression	F getcolormodels
F integer	F getfields
F next	F gethashentries
F number	F gethashentry
F numeric	F getinternalactions
F pair	F getknotstates
F path	F getlastadddtype
F pen	F getlogtargets
F property	F getobjectdata
F string	F getobjectpeninfo
F symbol	F getobjectstacking
F token	F getobjecttypes
T tokenscanners	F getpruneoptions
F transform	F getresultstatus
T typescanners	F getscantypes
F whatever	F getstates
T set	F getstatistics
F setbytemap	F getstatus
F setbytemapoctave	F gettolerance
F size	F gettype
T skip	F gettypes
F token	F injectboolean
F solve	F injectcmykcolor
F string	F injectcolor
F systemmode	F injectinteger
F transform	F injectnumber
F triplet	F injectnumeric
F tripletpoints	F injectpair
F vprint	F injectpath
T mplib	F injectstring
F downgradebytemap	F injectttransform
F downsamplebytemap	F injectvector
F execute	F injectvectors
F expandtex	F injectwhatever
F fillbytemap	F new
F finder	F newbytemap
T finders	F peninfo
F file	F processbytemap
F mpstemplate	T propertycodes
F finish	B realtime logging
F getbytemap	F scanboolean
F getbytemapdata	F scancmykcolor
F getcallbackstate	F scancolor
F getcodes	F scanexpression

F scaninteger	F tags
F scannext	F unscript
F scannumber	F unstack
F scannumeric	F variants
F scanpair	F process
F scanpath	F processnested
F scanpen	T processors
F scanproperty	T dictionaries
F scanstring	T intervals
F scansymbol	T suspicious
F scantoken	T unscript
F scantransform	T unstack
F setbytemap	F processouter
F setbytemapoctave	T node
F settolerance	F checkdiscretionaries
F showcontext	F checkdiscretionary
F skiptoken	F copy
F solvepath	F copylist
F version	F count
T nanojpeg	F currentattributes
F decode	F dimensions
F next	T direct
T noads	F addmargins
F getmathmode	F addxoffset
T handlers	F addxymargins
F alternates	F addyoffset
F autofences	F appendaftertail
F classes	F appendcurrenttail
F collapse	F beginofmath
F dictionaries	F checkdiscretionaries
F export	F checkdiscretionary
F families	F collapsing
F fencing	F copy
F intervals	F copylist
F kernpairs	F copyonly
F makeup	F count
F normalize	F currentattributes
F numbers	F dimensions
F relocate	F effectiveglue
F render	F endofmath
F showtree	F exchange
F snap	F fields
F spacing	F findattribute
F suspicious	F findattributerange

F findnode	F getgeometry
F firstchar	F getglue
F firstglyph	F getglyphdata
F firstglyphnode	F getglyphdimensions
F firstitalicglyph	F getheight
F flattendiscretionaries	F getid
F flattenleaders	F getidsubtype
F flushlist	F getidsubtypenext
F flushnode	F getindex
F free	F getinputfields
F freeze	F getkern
F getanchors	F getkerndimension
F getattribute	F getlanguage
F getattributelist	F getleader
F getattributes	F getleftdelimiter
F getboth	F getlist
F getbottom	F getlistdimensions
F getbottomdelimiter	F getmvl
F getbox	F getnext
F getcachestate	F getnodeerrorvalues
F getchar	F getnodes
F getchardict	F getnormalizedline
F getcharspec	F getnucleus
F getchoice	F getnumerator
F getclass	F getoffsets
F getcontrol	F getoptions
F getcornerkerns	F getorientation
F getcurrenttail	F getparstate
F getdata	F getpenalty
F getdegree	F getpost
F getdelimiter	F getpre
F getdenominator	F getprev
F getdepth	F getprime
F getdirection	F getpropertystable
F getdisc	F getproperty
F getdiscpart	F getreplace
F getexcept	F getrightdelimiter
F getexpansion	F getruledimensions
F getfam	F getscale
F getfield	F getscales
F getfielderror	F getscript
F getfirstdirectioninlist	F getscrips
F getfont	F getshift
F getfontcheck	F getslant



F getspeciallist	F isloop
F getstate	F isnext
F getsub	F isnextchar
F getsubpre	F isnextcharcheck
F getsubtype	F isnextglyph
F getsup	F isnode
F getsuppre	F isprev
F gettop	F isprevchar
F gettopdelimiter	F isprevcharcheck
F gettotal	F isprevglyph
F getusage	F issimilarglyph
F getusedattributes	F isspeciallist
F getweight	F isvalid
F getwhd	F iszeroglue
F getwidth	F kerning
F getwordrange	F lastnode
F getxscale	F length
F getxyscales	F ligaturing
F getyscale	F makeextensible
F gluetostring	F markglyphprocessing
F hasattribute	F migrate
F hasdimensions	F mlisttohlist
F hasdiscoption	F naturalhsize
F hasfield	F naturalwidth
F hasgeometry	F new
F hasglyph	F newcontinuationatom
F hasglyphoption	F newfontcheck
F hasidsubtype	F newmathglyph
F hasusage	F newtextglyph
F hpack	F patchattributes
F hyphenating	F patchparshape
F id	F prependbeforehead
F ignoremathskip	F prependcurrenttail
F insertafter	F protectglyph
F insertbefore	F protectglyphs
F insertcurrenthead	F protectglyphsbase
F isboth	F protectglyphsnone
F ischar	F protrusionskippable
F ischarcheck	F rangedimensions
F ischardisc	F remove
F isdirect	F removefromlist
F isfontcheck	F repack
F isglyph	F reverse
F isitalicglyph	F samefontcheck

F serialized	F setnucleus
F setanchors	F setnumerator
F setattribute	F setoffsets
F setattributelist	F setoptions
F setattributes	F setorientation
F setattributesinlist	F setpenalty
F setboth	F setpost
F setbottom	F setpre
F setbottomdelimiter	F setprev
F setbox	F setprime
F setchar	F setproperty
F setchardict	F setreplace
F setchoice	F setrightdelimiter
F setclass	F setruledimensions
F setcontrol	F setscale
F setcurrenttail	F setscales
F setdata	F setscript
F setdegree	F setscripts
F setdelimiter	F setshift
F setdenominator	F setslant
F setdepth	F setspeciallist
F setdirection	F setsplit
F setdisc	F setstate
F setdiscpart	F setsub
F setexcept	F setsubpre
F setexpansion	F setsubtype
F setfam	F setsup
F setfield	F setsuppre
F setfielderror	F settop
F setfont	F settopdelimiter
F setfontcheck	F settotal
F setgeometry	F setweight
F setglue	F setwhd
F setglyphdata	F setwidth
F setheight	F show
F setindex	F size
F setinputfields	F slide
F setkern	F softenhyphens
F setlanguage	F startofpar
F setleader	F subtypes
F setleftdelimiter	F tail
F setlink	F todirect
F setlist	F tonode
F setnext	F tostring

F tovaliddirect	F getproperty
F traverse	F gluetostring
F traversechar	F hasattribute
F traversecontent	F hasfield
F traverseglyph	F hasglyph
F traverseid	F hpack
F traverseitalic	F hyphenating
F traverseleader	F id
F traverselist	F insertafter
F traversepossible	F insertbefore
F type	F instock
F types	F intracking
F unprotectglyph	F inuse
F unprotectglyphs	F isnode
F unsetattribute	F iszeroglue
F unsetattributes	F kerning
F updatefirstandbotmark	F lastnode
F updatefirstmarks	F length
F updatemarks	F ligaturing
F updatetopmarks	F makeextensible
F usedlist	F mlisttohlist
F usesfont	F new
F vbalance	F protectglyph
F verticalbreak	F protectglyphs
F vpack	F protrusionskippable
F write	F rangedimensions
F xscaled	F remove
F yscaled	F serialized
F effectiveglue	F setattribute
F endofmath	F setfield
F family_font	F setfielderror
F fields	F setglue
F findattribute	F setproperty
F flattendiscretionaries	F show
F flushlist	F size
F flushnode	F slide
F free	F subtypes
F getattribute	F tail
F getcachestate	F todirect
F getfield	F tonode
F getfielderror	F toString
F getglue	F traverse
F getnodeerrorvalues	F traverseid
F getpropertystable	F type

F types	T done
F unprotectglyph	F handler
F unprotectglyphs	T stack
F unsetattribute	D dircodes
F usedlist	D directioncodes
F usesfont	D directionvalues
F vpack	D dirvalues
F write	D disccodes
T nodes	D discretionarycodes
D accentcodes	D fencecodes
T adaptive	F fields
F handlehorizontal	T fieldtypes
F handlevertical	D fillcodes
T methods	D fillvalues
F set	F firstdirinbox
F aligned	F flush
F append	F flushlist
F apply	F flushnode
F applyvisuals	D fractioncodes
F astable	F fullhpack
F basepoints	F getattr
D boundarycodes	F getattribute
T boxes	F getboth
F count	F getbox
F dimensions	F getchar
F direct	F getfield
F dispose	F getfont
F found	F getid
F prune	F getleader
F reset	F getlist
F restore	F getnext
F save	F getprev
F savenode	F getproperty
T builders	F getsubtype
D choicecodes	D gluecodes
F concat	D glyphcodes
F copy	T handlers
F copy_node	F adjusters
F copyleft	F aligncharacter
F countall	F backgrounds
F currentattributes	F backgroundspage
F delete	F backgroundsvbox
T destinations	F characters
N attribute	F checkglyphs

F checkparcounter	F setmove
F cleanupbox	F setposition
F cleanuppape	F setspacekerns
F export	F insertafter
F finalizebox	F insertbefore
F finalizelist	F insertlistafter
F flatten	F installattributehandler
F flattenline	F is_display_math
T linebreakchecks	F isdirect
F mathalignrelocate	F isnode
F mathmatrixornaments	F isnut
F mathmatrixrules	D kerncodes
F migrate	F leftmarginwidth
F protectglyphs	T linefillers
F recolor	F filler
F show	F handler
F showhyphenation	F set
F showpreamble	T lines
F stripping	T boxed
F tabulateskip	F addlinenumbers
F textbackgrounds	F register
F unprotectglyphs	F setup
F visualizehyphenation	D data
F wipe	F finalize
F hasattribute	F number
F hasfield	F link
F hpack	F linked
F idsandsubtypes	F list
F idstostring	D listcodes
T injections	F listtoutf
F copy	D literalvalues
F getligaindex	F locate
F getthreshold	D markcodes
F handler	T markers
F installgetspaceboth	F get
F installnewkern	F set
F isspace	D mathcodes
F keepcounts	D mathvalues
F reset	F maxboxwidth
F resetcounts	T migrations
F setcursive	F setinserts
F setkern	F setmarks
F setligaindex	F new
F setmark	D noadcodes

D nodecodes	F firstchar
F nopts	F firstglyph
T nuts	F firstglyphnode
F addmargins	F firstitalicglyph
F addxoffset	F flattendiscretionaries
F addxymargins	F flattenleaders
F addyoffset	F flush
F append	F flushlist
F appendaftertail	F flushnode
F apply	F free
F applyvisuals	F freeze
F beginofmath	F fullhpack
F checkdiscretionaries	F getanchors
F checkdiscretionary	F getattr
F checkslide	F getattribute
F collapsing	F getattributelist
T colors	F getattributes
F set	F getattrlist
T components	F getattrs
F copynocomponents	F getboth
F copyonlyglyphs	F getbottom
F count	F getbottomdelimiter
F flush	F getbox
F get	F getboxglue
F set	F getchar
F concat	F getchardict
F copy	F getcharspec
F copy_properties	F getchoice
F copyleft	F getclass
F copynode	F getcomponents
F copyonly	F getcornerkerns
F copyvisual	F getdata
F count	F getdegree
F countall	F getdelimiter
F currentattributes	F getdenominator
F delete	F getdepth
F dimensions	F getdirection
F dirdimensions	F getdisc
F effectiveglue	F getdiscpart
F endofmath	F getdiscretionary
F exchange	F getexcept
F findattribute	F getexpansion
F findattributerange	F getfam
F findnode	F getfield

F getfirstdirectioninlist	F getscript
F getfont	F getscripts
F getfontcheck	F getshift
F getgeometry	F getslant
F getglue	F getspeciallist
F getglyphdata	F getstate
F getglyphdimensions	F getsub
F getheight	F getsubpre
F getid	F getsubtype
F getidsubtype	F getsup
F getidsubtypenext	F getsuppre
F getindex	F getsurround
F getinputfields	F gettop
F getkern	F gettopdelimiter
F getkerndimension	F gettotal
F getlang	F getusedattributes
F getlanguage	F getvalue
F getleader	F getweight
F getleftdelimiter	F getwhd
F getlist	F getwidth
F getlistdimensions	F getwordrange
F getmiddle	F getxscale
F getmiddledelimiter	F getxyscales
F getmvllist	F getsyscale
F getnext	F gluetostring
F getnormalizedline	F hasattribute
F getnucleus	F hasdimensions
F getnumerator	F hasdiscoption
F getoffsets	F hasfield
F getoptions	F hasgeometry
F getorientation	F hasglyph
F getparstate	F hasglyphoption
F getpenalty	F hasidsubtype
F getpost	F hpack
F getpre	F hyphenating
F getprev	F ignoremathskip
F getprime	F insertafter
F getprop	F insertbefore
F getreplace	F insertlistafter
F getrightdelimiter	F is_display_math
F getruledata	F isboth
F getruledimensions	F ischar
F getscale	F ischarcheck
F getscales	F isdirect

F isdone	F direction
F isglyph	F directliteral
F isitalicglyph	F disc
F isnext	F emptyrule
F isnextchar	F fence
F isnextcharcheck	F fontkern
F isnextglyph	F fraction
F isnode	F glue
F isnut	F gluespec
F isprev	F glyph
F isprevchar	F hlist
F isprevcharcheck	F imagerule
F isprevglyph	F indentskip
F issimilarglyph	F italiccorrection
F iszeroglue	F italickern
F kerning	F kern
F lastnode	F latelua
F length	F leader
F ligaturing	F lefthangskip
F link	F leftmarginkern
F linked	F leftskip
F locate	F lineskip
F migrate	F literal
F migratebox	F luaboundary
F mlisttohlist	F mathchar
F naturalhsize	F mathtextchar
F naturalwidth	F negatedglue
F nestedtracedslide	F noad
F new	F originliteral
F newcontinuationatom	F outlinerule
F newfontcheck	F pageliteral
F newmathglyph	F penalty
F openup	F radical
F patchattributes	F rawliteral
F patchparshape	F register
T pool	F restore
F accent	F righthangskip
F baselineskip	F rightmarginkern
F boundary	F rightskip
F boxrule	F rule
F choice	F save
F cleanup	F savepos
F delim	F setmatrix
F delimiter	F setstate



F shrink	F fill
F spacefontkern	F mp
F spacingrule	F stroke
F startrotation	F userrule
F startscaling	F serialized
F stock	F setanchors
F stoprotation	F setattr
F stopscaling	F setattribute
F stretch	F setattributelist
F strurule	F setattributes
F subbox	F setattributesinlist
F submlist	F setattrlist
F temp	F setattrs
F usage	F setattrsinlist
F userdefined	F setboth
T userids	F setbottom
F usernode	F setbox
F userrule	F setboxglue
F virtualrule	F setchar
F vlist	F setchardict
F wordboundary	F setchoice
F prepend	F setclass
F prependbeforehead	F setcomponents
F processranges	F setdata
F processwords	F setdegree
F protectglyph	F setdelimiter
F protectglyphs	F setdenominator
F protectglyphsbase	F setdepth
F protectglyphsnone	F setdirection
F protrusionskippable	F setdisc
F rangedimensions	F setdiscpart
F rawprop	F setdiscretionary
F reference	F setexcept
F rehpack	F setexpansion
F remove	F setfam
F removefromlist	F setfield
F repack	F setfont
F repackhlist	F setfontcheck
F replace	F setgeometry
F reverse	F setglue
T rules	F setglyphdata
T ruleactions	F setheight
F box	F setinputfields
F draw	F setkern

F setlang	F setwhd
F setlanguage	F setwidth
F setleader	F show
F setleftdelimiter	F slide
F setlink	F softenhypens
F setlist	F somepenalty
F setmiddledelimiter	F somespace
F setnext	F splitbox
F setnucleus	F startofpar
F setnumerator	F striprange
F setoffsets	F tail
F setoptions	F takeattr
F setorientation	F takebox
F setparproperty	F takelist
F setpenalty	F theprop
F setpost	F tonode
F setpre	F tonodes
F setprev	F tonut
F setprime	F tosequence
F setprop	F tostring
F setreplace	F tracedslide
F setrightdelimiter	F traverse
F setruledata	F traversechar
F setruledimensions	F traversecontent
F setscale	F traverseglyph
F setscales	F traverseid
F setscript	F traverseitalic
F setscripts	F traverseleader
F setshift	F traverselist
F setslant	F traversepossible
F setspeciallist	T traversers
F setsplit	F alignrecord
F setstate	F boundary
F setsub	F char
F setsubpre	F content
F setsubtype	F dir
F setup	F disc
F setuppre	F glue
F setsurround	F glyph
F settop	F hlist
F setvalue	F leader
F setvisual	F list
F setvisuals	F mark
F setweight	F next

F node	F initializer
F penalty	S name
F possible	F processor
F rule	F points
F unset	T pool
F vlist	F baselineskip
F whatsit	F cleanup
T treversers	F directliteral
F char	F glyph
F content	F hlist
F glyph	F latelua
F leader	F leader
F list	F lineskip
F node	F literal
F possible	F originliteral
T typesetters	F register
F tohbox	F restore
F tohpack	F save
F tonodes	F savepos
F tovbox	F setmatrix
F tovpack	F stock
F unprotectglyph	F usage
F unprotectglyphs	F usernode
F unsetattribute	F vlist
F unsetattributes	F prepend
F untracedslide	F print
F updatefirstandbotmark	T processors
F updatefirstmarks	F trace_glyph_run_a
F updatemarks	F trace_glyph_run_b
F updatetopmarks	T properties
F usedlist	T data
F usesfont	F pts
F verticalbreak	D radicalcodes
F vianodes	T references
F vianuts	N attribute
F vpack	T done
F write	F handler
F xscaled	T stack
F yscaled	F rehpack
F packlist	F remove
D parcodes	F repackhlist
D penaltycodes	F replace
T plugindata	F report
F finalizer	F rightmarginwidth

D rulecodes	T stripping
T rules	T glyphs
F handler	F set
F process	D subtypes
F set	F tail
F userrule	F takeattr
F serialize	F takebox
F serializebox	T tasks
F serialized	F actions
F setattr	F appendaction
F setattribute	F disableaction
F setattrlist	F disablegroup
F setboth	F enableaction
F setbox	F enablegroup
F setboxtonaturalwd	F freeze
F setchar	F freezegrp
F setfield	F new
F setfont	F prependaction
F setleader	F removeaction
F setlink	F replaceaction
F setlist	F restart
F setnext	F setaction
F setprev	F showactions
F setproperty	F table
T shadows	F tobasepoints
F handler	F tocentimeters
F set	F tociceros
T shifts	F todidots
F handler	F todimen
F set	F toinches
F showboxes	F tomillimeters
F showlist	F tonode
F showsimplelist	F tonodes
D skipcodes	F tonut
T snapshots	F topicas
F getsamples	F topoints
F resetsamples	F toscaledpoints
F takesample	F tosequence
F somepenalty	F toString
F somespace	F totable
T specialskipcodes	F totree
F splitbox	F toutf
F startofpar	T tracers
F stripdiscretionaries	T colors

F reset	F tovpack
F set	F vpack
F setlist	F unsetattribute
F directions	F upcomingproperties
F fontchar	F usedlist
T frequencies	F vianodes
F register	F vianuts
T pool	F visualizebox
T nodes	T visualizers
F rule	F attribute
T nuts	T attributes
F rule	F box
F resetproperties	F definelayer
F rule	F enable
F setlist	T filters
F setproperties	N continuation
F start	N hglue
T steppers	N hkern
F check	N hpenalty
F codes	N toddler
F features	N vglue
F font	N vkern
F glyphs	N vpenalty
F message	F getusedfont
F messages	F handler
F nofsteps	F markfonts
F register	T modes
F reset	N boundary
F start	N depth
F stop	N dir
F stop	N discretionary
T transparencies	N expansion
F reset	N fontkern
F set	N glue
F setlist	N glyph
F traverse	N hbox
F traverseid	N hglue
T typesetters	N hkern
F hbox	N hpenalty
F hpack	N insert
F tohbox	N italic
F tohpack	N kern
F tonodes	N line
F tovbox	N marginkern

N mark	F nupoints
N math	F percent
N mathglue	F points
N mathkern	F pts
N origin	F signed
N par	F sparseexponent
N penalty	F splitdimen
N simple	F to16dot16
N simplehbox	F tobasepoints
N simplevbox	F tobitstring
N simplevtop	F tocentimeters
N space	F tociceros
N strut	F tocontext
N toddler	F todidots
N user	F todimen
N vbox	F toediths
N vglue	F toevenhex
N vkern	F toinches
N vpenalty	F tomillimeters
N vtop	F tonumberf
N whatsit	F tonumberg
F register	F topicas
F registercache	F topoints
F setfont	F toscaled
F setlayer	F toscaledpoints
F setruledglyph	F totoves
F setvisual	F valid
F vpack	T objects
D whatsitcodes	T data
F write	F dimensions
T number	F found
F %	N n
F basepoints	F page
F bytetodecimal	F reference
F compactfloat	F register
F decimaltobyte	F restore
D dimenfactors	T optional
F formatted	T curl
F formattedfloat	F escape
F fractiontobyte	F fetch
F idiv	F getversion
N maxdimen	F initialize
F nopts	F unescape
F nubasepoints	T foreign

F abivalues	F compress
F getbuffer	F decompress
F initialize	F initialize
F load	T lzo
F newbuffer	F compress
F totable	F decompresssize
F types	F initialize
T ghostscript	T mujs
F execute	F dofile
F initialize	F execute
T graphicsmagick	F initialize
F execute	F reset
F getnoisetypes	F setclosefile
F initialize	F setconsole
T hb	F setfindfile
F getshapers	F setopenfile
F getversion	F setreadfile
F initialize	F setseekfile
F loadfont	T mysql
F shapestring	F close
T imagemagick	F execute
F execute	F getmessage
F initialize	F initialize
T kpse	F open
F expand_braces	T openssl
F expand_path	F getversion
F expand_var	F initialize
F find_file	F sign
F find_files	F verify
F get_file_types	T postgres
F initialize	F close
F readable_file	F execute
F set_program_name	F getmessage
F var_value	F initialize
T library	F open
F load	T sqlite
T loaded	F close
T lz4	F execute
F compress	F getmessage
F decompresssize	F initialize
F framecompress	F open
F framedecompress	T zint
F initialize	F execute
T lzma	F initialize

T zstd	S selflink
F compress	S selfname
F decompress	S selfpath
F initialize	F serialwrite
F optionalrequire	F setenv
T os	F setexitcode
F __getenv__	F setlocale
F __setenv__	F sleep
S binsuffix	F startuptime
T binsuffixes	F time
N bits	F timezone
F clock	F tmpname
F converttime	F today
F date	S type
F difftime	F uname
F enableansi	F uuid
D env	F validdatetime
F execute	F weekday
F exit	F where
F fulltime	F which
F getcodepage	T package
F getenv	S config
F getnamevalues	S cpath
F gettimeofday	F extralibpath
F gettypevalues	F extralibpaths
F getunamenamefields	F extralualuapath
F isleapyear	F extralualuapaths
F launch	T helpers
S libsuffix	T builtin
F localtime	F path specification
S name	F preload table
S newline	F cleanpath
F nofdays	F loaded
F now	F loadedaslib
F pipeto	F loadedbyformat
S platform	F loadedbyname
F remove	F loadedbypath
F rename	F lualibfile
F resultof	T methods
F runtime	F all in one fallback
T selfarg	F already loaded
S selfbin	F cpath specification
S selfcore	F lib extra list
S selfdir	F lib variable format



F lua extra list	B cldf-com
F lua variable format	B cldf-ver
F not loaded	B colo-icc
F path specification	B colo-ini
F preload table	B cont-run
F qualified path	B core-con
F reset loaded	B core-ctx
F registerpath	B core-dat
F report	B core-sys
T sequence	T curl
F showused	F escape
B trace	F fetch
B traceused	F getversion
F unload	S libfile
F libpaths	S libpath
T loaded	F unescape
B anch-loc	B driv-shp
B anch-pgr	B file-mod
B anch-snc	B file-syn
B back-exp	B font-afk
B back-exp-imp-fnt	B font-agl
B back-exp-imp-mth	B font-aux
B back-exp-imp-ref	B font-cff
B back-exp-imp-tag	B font-chk
B back-imp-lua	B font-cid
B back-imp-mps	B font-col
B back-imp-pdf	B font-con
B back-imp-pdp	B font-ctx
B back-inc	B font-def
B blob-ini	B font-dsp
B buff-imp-default	B font-enc
B buff-imp-escaped	B font-enh
B buff-imp-lua	B font-fbk
B buff-imp-mp	B font-fmp
B buff-imp-nested	B font-hsh
B buff-imp-parsed-xml	B font-imp-checks
B buff-imp-tex	B font-imp-combining
B buff-imp-xml	B font-imp-compound
B buff-ini	B font-imp-digits
B buff-par	B font-imp-dimensions
B buff-ver	B font-imp-effects
B char-enc	B font-imp-italics
B chem-ini	B font-imp-ligatures
B chem-str	B font-imp-math

B font-imp-notused	B font-trt
B font-imp-properties	B font-ttf
B font-imp-quality	B font-txt
B font-imp-reorder	B font-vfc
B font-imp-scripts	B font-vir
B font-imp-spacekerns	B good-ctx
B font-imp-tex	B good-gen
B font-imp-text	B good-ini
B font-imp-tracing	B good-mth
B font-imp-tweaks	B grph-bmp
B font-imp-unicode	B grph-con
B font-ini	B grph-epd
B font-lig	B grph-fil
B font-log	B grph-img
B font-lua	B grph-inc
B font-map	B grph-pat
B font-mpf	B grph-raw
B font-mps	B grph-rul
B font-nod	B grph-trf
B font-ogr	B grph-u3d
B font-one	B java-ini
B font-onr	T json
B font-osd	F load
B font-ota	F tojson
B font-otc	F tolua
B font-otd	F tostring
B font-oth	B lang-cnt
B font-oti	B lang-def
B font-otj	B lang-dis
B font-otl	B lang-hup
B font-oto	B lang-hyp
B font-otr	B lang-ini
B font-ots	B lang-lab
B font-ott	B lang-rep
B font-oup	B lang-tra
B font-pat	B lang-txt
B font-prv	B lang-url
B font-san	B lang-wrd
B font-sel	B libs-imp-curl
B font-shp	B libs-imp-ghostscript
B font-sol	B libs-imp-graphicsmagick
B font-syn	B libs-ini
B font-tfm	B lpdf-ano
B font-tpk	B lpdf-col

B lpdf-epa	B lxmL-css
B lpdf-epd	B lxmL-dir
B lpdf-fix	B lxmL-ent
B lpdf-fix-imp-contents	B lxmL-ini
B lpdf-fix-imp-fonts	B lxmL-mms
B lpdf-fld	B lxmL-sor
B lpdf-fmt	B lxmL-tex
B lpdf-grp	B math-act
B lpdf-img	B math-ali
B lpdf-ini	B math-dim
B lpdf-lmt	B math-ext
B lpdf-mis	B math-fbk
B lpdf-ren	B math-fnt
B lpdf-rul	B math-frc
B lpdf-sig	B math-ini
B lpdf-tag	B math-map
B lpdf-u3d	B math-mps
B lpdf-wid	B math-noa
B lpdf-xmp	B math-pre
T ltn12	B math-rad
N BLOCKSIZE	B math-ren
T filter	B math-spa
F chain	B math-tag
F cycle	B math-ttv
T pump	B math-txt
F all	B math-vfu
F step	B meta-blb
F report	B meta-fnt
T sink	B meta-fun
F chain	B meta-imp-txt
F error	B meta-ini
F file	B meta-lua
F null	B meta-nod
F simplify	B meta-pdf
F table	B meta-tex
T source	B mlib-cnt
F cat	B mlib-ctx
F chain	B mlib-fio
F empty	B mlib-int
F error	B mlib-lmp
F file	B mlib-lmt
F rewind	B mlib-lua
F simplify	B mlib-mat
F string	B mlib-mpf

B mlib-msh	F getencodingvalues
B mlib-pdf	F getfieldtypes
B mlib-pos	F getfromarray
B mlib-pps	F getfromdictionary
B mlib-ptr	F getfromobject
B mlib-ran	F getfromreference
B mlib-run	F getfromstream
B mlib-scn	F getinfo
B mlib-snc	F getinteger
B mlib-svg	F getmemoryusage
B node-ali	F getname
B node-bck	F getnofobjects
B node-fnt	F getnofpages
B node-par	F getnumber
B node-ref	F getobjectrange
B node-rul	F getpage
B node-tra	F getpages
B node-tyt	F getpermissions
B pack-obj	F getsize
B pack-ori	F getstatus
B pack-rul	F getstatusvalues
B page-blk	F getstream
B page-cst	F getstring
B page-flt	F gettrailer
B page-ini	F getversion
B page-inj	F new
B page-ins	F open
B page-lin	F openfile
B page-mix	F openstream
B page-otr	F pagestotable
B page-pst	F readfromstream
B page-sel	F readwholestream
B page-str	F type
T pdfdecode	F unencrypt
T pdfe	B phys-dim
F arraytotable	T pngdecode
F close	F applyfilter
F closestream	F expand
F dictionarytotable	F interlace
F getarray	F makemask
F getboolean	F reduce
F getbox	F splitmask
F getcatalog	F tocmk
F getdictionary	F tomask

T posit	F min
F NaN	F modf
F NaR	F new
F __add	F pow
F __band	F rotate
F __bor	F round
F __bxor	F rounded
F __div	F shift
F __eq	F sin
F __le	F sqrt
F __lt	F tan
F __mul	F tobyte
S __name	F tochar
F __pow	F tonumber
F __shl	F toposit
F __shr	F toString
F __sub	T potrace
F __toString	F checked
F __unm	F concat
F abs	F contourplot
F acos	F convert
F asin	F count
F atan	F flush
F band	F free
F bor	F fromfile
F bxor	F getbitmap
F ceil	F getnewfields
F conj	F getpolicyvalues
F copy	F getprocessfields
F cos	F new
F exp	F process
F exp2	F setbitmap
F expand	F stripped
F floor	F totable
F frombyte	F trace
F fromchar	B publ-aut
F fromposit	B publ-dat
F integer	B publ-fnd
F log	B publ-inc
F log10	B publ-ini
F log1p	B publ-jrn
F log2	B publ-oth
F logb	B publ-reg
F max	B publ-sor

B publ-tra	F sum384
B publ-usr	F sum512
T qrcodegen	T sio
F bitmap	F read2dot14
F generate	F readbytes
B regi-ini	F readbytetable
B scrn-but	F readcardinal1
B scrn-fld	F readcardinal11e
B scrn-hlp	F readcardinal2
B scrn-ini	F readcardinal21e
B scrn-pag	F readcardinal3
B scrn-ref	F readcardinal31e
B scrn-wid	F readcardinal4
B scrp-cjk	F readcardinal41e
B scrp-eth	F readcardinaltable
B scrp-ini	F readcline
B scrp-tha	F readcstring
B scrp-tib	F readfixed2
T serial	F readfixed4
F __gc	F readinteger1
S __name	F readinteger11e
F __tostring	F readinteger2
F close	F readinteger21e
F open	F readinteger3
F send	F readinteger31e
F tostring	F readinteger4
F write	F readinteger41e
T sha2	F readintegertable
F HASH256	F tocardinal1
F HASH384	F tocardinal11e
F HASH512	F tocardinal2
F HEX256	F tocardinal21e
F HEX384	F tocardinal3
F HEX512	F tocardinal31e
F digest256	F tocardinal4
F digest384	F tocardinal41e
F digest512	T socket
F hash256	N BLOCKSIZE
F hash384	N _SETSIZE
F hash512	N _SOCKETINVALID
F hex256	F bind
F hex384	F choose
F hex512	F connect
F sum256	F connect4

F connect6	S final-log-id
T dns	S final-recipient
F getaddrinfo	S from
F gethostname	S host
F getnameinfo	S if-match
F tohostname	S if-modified-since
F toip	S if-none-match
F gettime	S if-range
T headers	S if-unmodified-since
T canonic	S in-reply-to
S accept	S keywords
S accept-charset	S last-attempt-date
S accept-encoding	S last-modified
S accept-language	S location
S accept-ranges	S max-forwards
S action	S message-id
S age	S mime-version
S allow	S original-envelope-id
S alternate-recipient	S original-recipient
S arrival-date	S pragma
S authorization	S proxy-authenticate
S bcc	S proxy-authorization
S cache-control	S range
S cc	S received
S comments	S received-from-mta
S connection	S references
S content-description	S referer
S content-disposition	S remote-mta
S content-encoding	S reply-to
S content-id	S reporting-mta
S content-language	S resent-bcc
S content-length	S resent-cc
S content-location	S resent-date
S content-md5	S resent-from
S content-range	S resent-message-id
S content-transfer-encoding	S resent-reply-to
S content-type	S resent-sender
S cookie	S resent-to
S date	S retry-after
S diagnostic-code	S return-path
S dsn-gateway	S sender
S etag	S server
S expect	S smtp-remote-recipient
S expires	S status

S subject	F connect
S te	F try
S to	T url
S trailer	F absolute
S transfer-encoding	F build
S upgrade	F build_path
S user-agent	F escape
S vary	F parse
S via	F parse_path
S warning	F unescape
S will-retry-until	B sort-ini
S www-authenticate	B sort-lan
S x-mailer	B spac-ali
F lower	B spac-brk
F normalize	B spac-chr
T http	B spac-hor
N TIMEOUT	B spac-ovl
S USERAGENT	B spac-par
F genericform	B spac-pas
F open	B spac-prf
F request	B spac-twi
F newtry	B spac-ver
F protect	T sparse
F report	F concat
F select	F get
F sink	F max
T sinkt	F min
F close-when-done	F new
F default	F range
F http-chunked	F restore
F keep-open	F set
F skip	F traverse
F sleep	F wipe
F source	T status
T sourcet	F getbalancestate
F by-length	F getbufferstate
F default	F getcallbackstate
F http-chunked	F getconstants
F until-closed	F geterrorlinestate
F tcp	F geterrorstate
F tcp4	F getexpandstate
F tcp6	F getfilestate
T tp	F getfontstate
N TIMEOUT	F gethalferrorlinestate



F gethashstate	T string
F gethyphenationstate	F autodouble
F getinputstate	F autosingle
F getinsertstate	F booleanstring
F getlanguagestate	F byte
F getlinebreakstate	F bytepairs
F getlookupstate	F bytes
F getluastate	F bytable
F getmarkstate	F char
F getmvlstate	F characterpairs
F getneststate	F characters
F getnodestate	F checkedsplit
F getparameterstate	F chrtointeger
F getpoolstate	F collapsespaces
F getreadstate	F containsws
F getsavestate	F count
F getsparsestate	F dectointeger
F getstringstate	F dump
F gettexstate	F escapedpattern
F gettokenstate	F escapedquotes
F getwarningstate	F f6
T iocodes	F find
F list	F format
F resetmessages	F formatter
B strc-bkm	D formatters
B strc-blk	F fullstrip
B strc-con	F gmatch
B strc-doc	F gsub
B strc-flt	T hashes
B strc-ini	T X00
B strc-itm	T spaces
B strc-lev	F hextocharacters
B strc-lst	F hextointeger
B strc-mar	F is_boolean
B strc-mat	F is_empty
B strc-not	F itself
B strc-num	F len
B strc-pag	F limit
B strc-ref	F linetable
B strc-reg	F longtostring
B strc-rsc	F lower
B strc-syn	F match
B strc-tag	F nospaces
B strc-usr	F octtointeger

F optionalquoted	F utfpadd
F pack	F utfpadding
F packrowscolumns	F utftabletostring
F packsize	F utfvalue
F quote	F utfvalues
F quoted	F utfvaluetable
F rep	F valid
F replacenewlines	F wordsplitter
F reverse	B symb-emj
F split	B symb-ini
F splitintolines	B syst-cmp
F splitlines	B tabl-ali
F splitup	B tabl-ntb
F strip	B tabl-tbl
F sub	B tabl-xtb
F texhashed	T table
F texnewlines	F append
F tformat	F are_equal
F toHEX	F combine
F toboolean	F compact
F tobytes	F concat
F tocontext	F contains
F todec	F copy
F todimen	F count
F tohex	F create
F tonodes	F derive
F topattern	F deserialize
F totable	F fastcopy
F tounicode16	F fastserialize
F toutf	F filtered
F toutf16	F flattened
F toutf32	F fromhash
F toutf8	F getn
F tracedchar	F has_one_entry
F unescapedquotes	F hashed
F unpack	F identical
F unquote	F imerge
F unquoted	F imerged
F upper	F insert
F utf16toutf8	F is_empty
F utfcharacter	F is_simple_table
F utfcharacters	F keys
F utfcharacterstable	F load
F utflength	F loweredkeys

F makeweak	D autoparagraphcodes
F merge	F badness
F merged	D badnessmodecodes
F mirrored	F balance
F move	D balancecallbackcodes
F pack	T boundaries
F prepend	D names
F print	D numbers
F remove	F system
F reverse	T box
F reversed	D boxoptioncodes
F save	T boxresources
F sequenced	F getbox
F serialize	F getdimensions
F setmetatablecall	F save
F setmetatableindex	F use
F setmetatableindices	D breakcodes
F setmetatablenewindex	D buildcodes
F sort	T catcode
F sorted	T cccode
F sortedhash	D charactercontrolcodes
F sortedhashkeys	D charactertagcodes
F sortedhashonly	F chardef
F sortedindexonly	D classoptioncodes
F sortedkeys	T codes
F sortedpairs	D conditionals
F sparse	D constants
F strip	T count
F sub	F cprint
F swapped	N ctdcatcodes
F tocontext	N ctxcatcodes
F tocsv	F definefont
F tofile	T delcode
F tohandle	T dimen
F tohash	F dimensiondef
F toxml	D directioncodes
F unique	D directives
F unpack	D discptioncodes
B task-ini	D discpartcodes
T tex	F dontcomplain
T amcode	D doublescriptoptioncodes
T attribute	F enableprimitives
F attributetracking	F error
D automigrationcodes	F expandasvalue

D experiments	F getdirectionvalues
F extraprimitives	F getdiscoptionvalues
F fatalerror	F getdiscpartvalues
D fillcodes	F getdoublescriptoptionvalues
D flagcodes	F getemptyparagraphmodevalues
F fontidentifier	F geterrorvalues
F fontname	F getfillvalues
F forcehmode	F getflagvalues
F forceinputstatefile	F getfloat
F forceinputstateline	F getfontdimension
F fprint	F getfontoffamily
D frozenparcodes	F getfrozenparvalues
F get	F getglue
F getadjustoptionvalues	F getglueoptionvalues
F getalignmentcontextvalues	F getglyphdata
F getamcode	F getglyphdiscvalues
F getappendadjustcontextvalues	F getglyphoptionvalues
F getappendmigratecontextvalues	F getglyphprotectionvalues
F getattribute	F getglyphscales
F getautomigrationvalues	F getglyphscript
F getautoparagraphvalues	F getglyphstate
F getbadnessmodevalues	F getgroupvalues
F getbalancecallbackvalues	F gethccode
F getbalanceparameterfields	F gethelpext
F getbalanceresultfields	F gethmcode
F getbalancestepoptionvalues	F gethyphenationvalues
F getbox	F getiftypes
F getboxdir	F getinputstatefile
F getboxoptionvalues	F getinputstateline
F getboxresourcebox	F getinputstatemode
F getboxresourcedimensions	F getinsertcontent
F getbreakcontextvalues	F getinsertdepth
F getbuildcontextvalues	F getinsertdistance
F getcardinalvalue	F getinsertheight
F getcatcode	F getinsertlimit
F getcccode	F getinsertmultiplier
F getcharactercontrolvalues	F getinsertwidth
F getcharactertagvalues	F getintegervalue
F getcount	F getinteraction
F getcurrentmvl	F getinteractionmodes
F getdelcode	F getiovalues
F getdelcodes	F getkerneloptionvalues
F getdimen	F getkernoptionvalues
F getdimensionvalue	F getlargestusedmark

F getlccode	F getnormalizeparvalues
F getlinebreakparameterfields	F getoutputactive
F getlinebreakresultfields	F getpacktypevalues
F getlinebreakstatevalues	F getpagecontextvalues
F getlinedir	F getpagestate
F getlist	F getpagestatevalues
F getlistanchorvalues	F getparagraphoptionvalues
F getlistfields	F getparametermodevalues
F getlistgeometryvalues	F getparcontextvalues
F getlistsignvalues	F getpardataspecifications
F getlocalbox	F getpardir
F getlocalboxlocations	F getparmodevalues
F getlocallevel	F getparstate
F getmark	F getparstatefields
F getmarknames	F getpartriggervalue
F getmath	F getpenaltyoptionvalues
F getmathclassoptionvalues	F getpositivalue
F getmathcode	F getprepoststatevalues
F getmathcodes	F getprimitivelegacies
F getmathcontrolvalues	F getprimitiveorigins
F getmathdir	F getprotrusionboundaryvalues
F getmathgluevalues	F getregisterindex
F getmathoptionvalues	F getruleoptionvalues
F getmathparametervalues	F getrunstate
F getmathscriptordervalue	F getrunstatevalues
F getmathscriptsmodevalues	F getsfcode
F getmathstylenamevalues	F getshapingpenaltiesvalues
F getmathstylevalues	F getskip
F getmathstylevariant	F getsnappingvalues
F getmathsurroundvalues	F getspecialmathclassvalues
F getmathvariantpresets	F getspecification
F getmathvariantvalues	F getspecificationoptionvalues
F getmeasure	F gettextcontrolvalues
F getmissingcharactervalues	F gettextdir
F getmode	F gettoks
F getmodevalues	F getuccode
F getmuglue	F getuleaderlocationvalues
F getmuskip	F getunitclassvalues
F getmvloptionvalues	F getusedmarks
F getnest	F getvsplitcontextvalues
F getnestfields	T glue
F getnestlevel	D glueoptioncodes
F getnoadoptionvalues	D glyphdiscodes
F getnormalizelinevalues	D glyphoptioncodes

D groupcodes	N defaultrule
F hashtokens	N defaultspacefactor
T hccode	N defaulttolerance
T hmcode	N deplorable
N hshcatcodes	N ejectpenalty
D hyphenationcodes	N ignoredepth
D ifs	N infinitebad
N inicatcodes	N infinitepenalty
F integerdef	N infinity
D interactioncodes	N largewidthexcess
F isattribute	N loosecriterion
F isbox	N mathallclass
F iscount	N mathbeginclass
F isdefined	N mathdefaultpenalty
F isdimen	N mathendclass
F isfloat	N mathfirstuserclass
F isglue	N mathlastuserclass
F ismuglue	N maxattributeregisterindex
F ismuskip	N maxboxregisterindex
F isprintable	N maxbytecodeindex
F isskip	N maxcalculatedbadness
F istoks	N maxcardinal
F lastnodetype	N maxcharactercode
T lccode	N maxdatavalue
F linebreak	N maxdimen
D linebreakstatecodes	N maxdimenregisterindex
D listanchorcodes	N maxdimension
D listgeometrycodes	N maxdimensionregisterindex
T lists	N maxendlinecharacter
D listsigncodes	N maxfloatregisterindex
N luacatcodes	N maxfontadjustshrinkfactor
T magicconstants	N maxfontadjuststep
S activecharacternamespace	N maxfontadjuststretchfactor
N allfitnessvalues	N maxfunctionreference
N assumedmathcontrol	N maxglueregisterindex
N awfulbad	N maxhalfvalue
N decentcriterion	N maxhalfword
N defaultcatcodetable	N maxinteger
N defaultcharactercontrol	N maxintegerregisterindex
N defaultdeadcycles	N maxintregisterindex
N defaulteqnogapstep	N maxlimitedscale
N defaulthangafter	N maxmarkindex
N defaultoutputbox	N maxmathclasscode
N defaultpdisplaygap	N maxmathfamilyindex

N maxmathscalingfactor	N undefinedmathparameter
N maxmathstylescale	N unity
N maxmuglueregisterindex	N unusedattributevalue
N maxmvlindex	N unusedmathfamily
N maxnewlinecharacter	N unusedmathstyle
N maxnofbytecodes	N unusedscriptvalue
N maxnofcatcodetables	N unusedstatevalue
N maxnoffitnessvalues	N zeroglue
N maxnoffonts	F mathchardef
N maxnoflanguages	T mathcode
N maxnofmarks	D mathcontrolcodes
N maxnofmathfamilies	D mathoptioncodes
N maxquarterword	D mathparametercodes
N maxscalefactor	D mathscriptordercodes
N maxsizeofword	D mathscriptsmodecodes
N maxspacefactor	T modelevels
N maxtoksregisterindex	N horizontal
N maxtwinlength	N math
N mincardinal	N unset
N mindatavalue	N vertical
N mindimen	D modes
N mindimension	F mprint
N minhalfword	T muglue
N mininfinity	T muskip
N mininteger	D mvloptioncodes
N minmvlindex	T nest
N minnoffitnessvalues	N nilcatcodes
N minquarterword	D noadoptioncodes
N minscalefactor	D normalizelinecodes
N minspacefactor	D normalizeparcodes
N nocatcodetable	N notcatcodes
N null	F number
N nullflag	F overloadpermitted
N nullfont	D parcontextcodes
N onebp	D partriggercodes
N presetrulethickness	D penaltyoptioncodes
N runningrule	F poplocal
N smallstretchability	F popsavelevel
N specialspacefactor	T posit
N texeqtbsize	F positdef
N texhashprime	F preparelinebreak
N texhashsize	F primitives
N texmemorymode	F print
N two	D protrusionboundarycodes

N prtcategories	F setinsertmultiplier
F pushlocal	F setintegervalue
F pushsavelevel	F setinteraction
F quitlocal	F setlccode
F quittoks	F setlinedir
F resetparagraph	F setlist
N rlnccategories	F setlocalbox
F romannumeral	F setmath
F round	F setmathcode
D ruleoptioncodes	F setmathdir
F runlocal	F setmuglue
D runstatecodes	F setmuskip
F runstring	F setnest
F runtoks	F setpardir
F saveboxresource	F setpositvalue
F scale	F setrunstate
F scantoks	F setsfcode
F set	F setskip
F setamcode	F settextrdir
F setattribute	F settoks
F setbalanceshape	F setuccode
F setbox	T sfcode
F setboxdir	D shapingpenaltiescodes
F setcardinalvalue	F shiftparshape
F setcatcode	F shipout
F setcccode	F showcontext
F setconditional	T skip
F setcount	D snappingcodes
F setdelcode	F snapshotpar
F setdimen	F sp
F setdimensionvalue	D specialmathclasscodes
F setfloat	D specificationoptioncodes
F setglue	F splitbox
F setglyphdata	D splitcodes
F setglyphscript	F sprint
F setglyphstate	F stringtocodesbitmap
F sethccode	D systemmodes
F sethmcode	F takebox
F setinputstatefile	N texccategories
F setinputstateline	D textcontrolcodes
F setinputstatemode	T toks
F setinsertcontent	F tonumber
F setinsertdistance	F toscaled
F setinsertlimit	N tpcategories



N tpbcatcodes	F get_frozen
F tprint	F get_id
F trackedattribute	F get_immutable
D trackers	F get_index
F triggerbuildpage	F get_instance
N txtcatcodes	F get_integer
T uccode	F get_macro
F uprint	F get_meaning
F useboxresource	F get_noaligned
D userdiscoptioncodes	F get_parameters
D userglyphoptioncodes	F get_permanent
N vrbcatcodes	F get_primitive
F write	F get_protected
T texio	F get_range
F closeinput	F get_tok
F forceendoffile	F get_tolerant
F getinputindex	F getactive
F getselectorvalues	F getcmdchrsc
F getsourcefilename	F getcmdname
F setlogfile	F getcommand
F terminal	F getcommandvalues
F write	F getconstant
F write_nl	F getcsname
F writenl	F getcstoken
F writeselector	F getdimension
F writeselectorlf	F getexpandable
F writeselectornl	F getexpansion
T token	F getfields
F create	F getflags
F expand	F getfrozen
F expand_macro	F getfunctionvalues
F expandmacro	F getid
F future_expand	F getimmutable
F futureexpand	F getindex
F get_active	F getinstance
F get_cmdchrsc	F getinteger
F get_cmdname	F getlength
F get_command	F getmacro
F get_csname	F getmeaning
F get_cstoken	F getnoaligned
F get_dimension	F getparameters
F get_expandable	F getpermanent
F get_fields	F getprimitive
F get_flags	F getprimitives

F getprotected	F scan_csname
F getrange	F scan_delimited
F gettok	F scan_dimen
F gettolerant	F scan_float
F gobble	F scan_glue
F gobble_dimension	F scan_integer
F gobble_integer	F scan_key
F gobbledimension	F scan_keyword
F gobbleinteger	F scan_keyword_cs
F grab	F scan_letters
F grabstring	F scan_luacardinal
F inhibit	F scan_luainteger
F is_defined	F scan_luanumber
F is_next_char	F scan_next
F is_token	F scan_next_char
F isactivestring	F scan_next_expanded
F isdefined	F scan_real
F isnextchar	F scan_scale
F istoken	F scan_skip
F locatemacro	F scan_string
F new	F scan_token
F peek_next	F scan_token_code
F peek_next_char	F scan_tokenlist
F peek_next_expanded	F scan_toks
F peeknext	F scan_value
F peeknextchar	F scan_word
F peeknextexpanded	F scanargument
F pop_macro	F scanbox
F popmacro	F scancardinal
F push_macro	F scanchar
F pushmacro	F scancmdchr
F put_back	F scancmdchrexploded
F put_next	F scancode
F putback	F scancsname
F putnext	F scancstoken
F save_lua	F scandelimited
F savelua	F scandetokened
F scan_argument	F scandimen
F scan_box	F scandimenargument
F scan_cardinal	F scandimension
F scan_char	F scandimensionargument
F scan_cmdchr	F scanfloat
F scan_cmdchr_expanded	F scanglue
F scan_code	F scanint

F scaninteger	B trac-par
F scanintegerargument	B trac-riv
F scankey	B trac-sig
F scankeyword	B trac-vis
F scankeywordcs	B type-ini
F scanletters	B typo-adj
F scanluacardinal	B typo-blb
F scanluainteger	B typo-brk
F scanluanumber	B typo-cap
F scannext	B typo-chr
F scannextchar	B typo-cln
F scannextexpanded	B typo-dha
F scanposit	B typo-dif
F scanreal	B typo-dig
F scanscale	B typo-dir
F scanskip	B typo-drp
F scanstring	B typo-duc
F scantoken	B typo-fkr
F scantokencode	B typo-fln
F scantokenlist	B typo-hid
F scantokenstring	B typo-inj
F scantoks	B typo-itc
F scanvalue	B typo-krn
F scanword	B typo-lan
F serialize	B typo-lbx
F set_dimension	B typo-man
F set_integer	B typo-mar
F set_lua	B typo-ovl
F set_macro	B typo-pag
F setdimension	B typo-par
F setinteger	B typo-pnc
F setlua	B typo-prc
F setmacro	B typo-rep
F setmacrofrommark	B typo-rub
F setmacrotonothing	B typo-spa
F skip_next	B typo-stc
F skip_next_expanded	B typo-sus
F skipnext	B typo-syn
F skipnextexpanded	B typo-tal
F type	B typo-wrp
F undefine_macro	B unic-ini
F undefinemacro	T utf8
B trac-bld	F char
B trac-jus	S charpattern

F codepoint	F yrotation
F codes	F zrotation
F len	F homogenize
F offset	F identity
T vector	F inner
F add	F insert
F append	F inverse
F average	F ismesh
F ceiling	F issingular
F checkoverlap	F isvector
F collectoverlap	F iszero
F concat	T mesh
T contour	F get
F average	F getdimensions
F bounds	F ismesh
F checkoverlap	F new
F collectoverlap	F set
F getarea	F tostring
F getmesh	F totable
F makemesh	F type
F overlapping	F meshname
F show	F mul
F sort	F negate
F copy	F new
F crossproduct	F normalize
F delete	F onecolumn
F determinant	F onerow
F div	F product
F equal	F remove
F exchange	F replace
F floor	F round
F get	F rowechelon
F getdimensions	F set
F getepsilon	F setepsilon
F getmesh	F setnext
F getrc	F setrc
F getrow	F setstacking
F getstacking	F slice
F gettype	F sort
T helpers	F sub
F points	F swap
F transform	F tostring
F xrotation	F totable
F xyzscale	F transpose

F triangulate	F tostring
F truncate	F totable
F type	F voigt
T xcomplex	F voigt_hwhm
F I	T xdecimal
F __add	F __add
F __div	F __band
F __eq	F __bor
F __mul	F __bxor
S __name	F __div
F __pow	F __eq
F __sub	F __idiv
F __tostring	F __le
F __unm	F __lt
F abs	F __mod
F acos	F __mul
F acosh	S __name
F arg	F __pow
F asin	F __shl
F asinh	F __shr
F atan	F __sub
F atanh	F __tostring
F conj	F __unm
F cos	F abs
F cosh	F band
F dawson	F bor
F erf	F bxor
F erfc	F conj
F erfcx	F copy
F erfi	F exp
F exp	F getprecision
F i	F ln
F imag	F log
F log	F max
F new	F min
F pow	F minus
F proj	F new
F real	F plus
F sin	F pow
F sinh	F rotate
F sqrt	F setprecision
F tan	F shift
F tanh	F sqrt
F topair	F toengstring

F tonumber	F log1p
F tostring	F log2
F trim	F logb
T xmath	F modf
F acos	N nan
F acosh	F nearbyint
F asin	F nextafter
F asinh	N pi
F atan	F pow
F atan2	F rad
F atanh	F remainder
F cbrt	F remquo
F ceil	F round
F copysign	F scalbn
F cos	F sin
F cosh	F sinh
F deg	F sqrt
F erf	F tan
F erfc	F tanh
F exp	F tgamma
F exp2	F trunc
F expm1	F y0
F fabs	F y1
F fdim	F yn
F floor	T xzip
F fma	F adler32
F fmax	F compress
F fmin	F compresssize
F fmod	F crc32
F frexp	F decompress
F gamma	F decompresssize
F hypot	T loaders
N inf	F loadlib
F isfinite	F luapaths
F isinf	S path
F isnan	F poplibpath
F isnormal	F popluapath
F j0	T preload
F j1	F pushlibpath
F jn	F pushluapath
F ldexp	F searchpath
F lgamma	T pagebuilders
F log	T columnsets
F log10	F add

F addmvl	F flushbefore
F block	F save
F blockrows	T mixedcolumns
F check	F cleanup
F clean	F finalize
T data	F getlist
F define	F getrest
F definesub	F getsplit
F delayedsheet	F setsplit
F finishflush	F pairs
F flushareas	T parametersets
F flushcolumn	F pcall
F goto	T pdf
F gotoslot	F immediateobj
F limit	T physics
F noto	T units
F prepareflush	F registershortcut
F presetsheets	F registerunit
F presetspreadsheets	D tables
F put	F print
F putdirect	T publications
F registerarea	F addtexentry
F registersheet	F analyze
F registerspreadsheets	F anywhere
F reset	D authorcache
F resetdirect	D authorcollapsers
F reshape	T authorhashers
F setarea	F invertedshort
F setextra	F normal
F setsize	F normalinverted
F setspan	F normalshort
F setlines	F sequential
F setmvl	F sequentialshort
F setpresent	F short
F setproperties	D authormap
F setstart	F authortoregister
F shape	T btx
F showshape	T casters
F state	F author
F status	F keyword
F submvl	F pagenumber
F submvlbalance	F range
T injections	F checkeddataset
F flushafter	T citevariants

F author	T extra
F authornum	T fields
F authoryear	S address
F authoryears	S author
F category	S edition
F default	S editor
F entry	S keywords
F index	S note
F keywords	S number
F num	S publisher
F page	S subtitle
F short	S title
F tag	S volume
F textnum	S year
F year	T optional
D collected	T required
T components	T sets
F author	T author
F concatstate	T editionset
F converttoxml	T virtual
T currentspecification	T demo-a
S author	S category
T categories	T extra
T article	T fields
S category	S author
T extra	S institution
T fields	S organization
S author	S subtitle
S editor	S title
S journal	S year
S keywords	T optional
S note	T required
S number	T sets
S pages	T author
S title	T virtual
S volume	T demo-b
S year	S category
T optional	T extra
T required	T fields
T sets	S author
T author	S institution
T virtual	S organization
T book	S subtitle
S category	S title



S year	F finder
T optional	F firstofrange
T required	F found
T sets	F get
T authors	F getcasted
T virtual	F getdetail
S comment	F getdirect
S copyright	F getfaster
T fields	F getfield
S name	F getfuzzy
T types	F getindex
S author	D inspectors
S editor	T journals
S keywords	F abbreviated
S number	F add
S page	F expanded
S pages	F load
S volume	F save
S version	F lastofrange
D virtual	T lists
T virtualfields	F collectentries
B authornum	F combiinlist
B authorityear	F fetchentries
B authorityears	F filterall
B num	F flushcombi
B suffix	F flushentry
T datasets	F flushtag
T detailed	T methods
F endnotes_to_btx	F dataset
T enhancer	F force
S arguments	F global
T askip	F label
T attr	F local
B dirty	F nofregistered
T gskip	F prepareentries
T kind	F register
T list	F sameasprevious
T system	T sorters
T order	F cite
N steps	F dataset
T enhancers	F default
F details	F index
F order	F list
F suffixes	F reference

F short	T sequence
F used	T authoryear
F uservariable	T sequence
T listvariants	T dataset
F default	T sequence
F index	T key
F num	T sequence
F short	T specifications
F tag	F splitauthor
F load	F splitoneauthor
F loadbibdata	T statistics
F loaddefinitionfile	N nofbytes
T loaders	N nofdatasets
F bbl	N nofdefinitions
F bib	N nofshortcuts
F buffer	T tables
F endnote	D implicits
F json	D origins
F lua	D privates
F refman	D sets
F registercleaner	D specials
F xml	D types
F loadreplacementfile	D virtuals
T meanings	F tags
F new	T tracers
F okay	F showdatasetauthors
F oneorrange	F showdatasetcompleteness
F parenttag	F showdatasetfields
F permitted	F showentry
F prerollcmdstring	F showfields
F refman_to_btx	F showhashedauthors
F resolvedname	F showtables
F save	F showvariants
T savers	T typesetters
F bib	F author
F lua	F string
F xml	F usedataset
F search	F usedentries
F setcategory	T writers
F setspecification	F author
F singularorplural	F keyword
F sortedentries	F pagenumber
T sortmethods	F range
T authortitle	F rawequal

F rawget	F expandbraces
F rawlen	F expandedpathfromlist
F rawset	F expandedpathlist
T regimes	F expandedpathlistfromvariable
D backmapping	F expandpath
F cleanup	F expandpathfromvariable
F disable	F expansion
F enable	F extendtexmfvariable
F fromregime	F filtered_from_content
F list	F find_file
D mapping	F find_files
F pop	F findbinfile
F process	F findctxfile
F push	D finders
F toregime	F findfile
F translate	F findfiles
F require	F findgivenfile
T resolvers	F findgivenfiles
F allprefixes	F findlib
F appendhash	F findpath
F automount	F findpk
F booleanvariable	F findtexfile
S cacheversion	F findwildcardfile
F checkedvariable	F findwildcardfiles
F cleanedpathlist	F formatofsuffix
D cleaners	F formatofvariable
F cleanpath	D formats
F cleanpathlist	F foundintree
F cleanupbinfile	F foundintrees
D concatenators	D generators
S configbanner	F get_from_content
F configurationfiles	F getenv
D dangerous	F getextrapaths
F datastate	F getfilehashes
T decompressors	F gethashes
F register	F getownpath
F unregister	F getreadfilename
T defaultsuffixes	D hashers
F dirstatus	S homedir
F dowithfilesandreport	F ignorelibrary
F dowithfilesintree	F initialized
F dowithpath	F installinputfilehandler
F dowithvariable	F installinputlinehandler
T executers	F jobpath

T jobs	F openfile
F collectstructure	F opentextfile
F currentcomponent	S ownpath
F currentenvironment	F popextrapath
F currentproduct	F popinputname
F currentproject	F poppath
F currentstructure	D prefixes
F justacomponent	F prependhash
F namelist	F pushextrapath
D processors	F pushinputname
F productcomponent	F pushpath
F usefile	F registerextrapath
F joinpath	F registerfile
F knownvariables	F registerfilehash
T libraries	F registerintrees
F optionalloaded	F registermethod
F validoptional	F registerzipfile
F load	D relations
F loadbinfile	F renew
D loaders	F renewcache
F loadluafile	F repath
F loadtextfile	F reset
F loadtime	F resetextrapaths
F locateformat	F resetresolve
D locators	F resolve
S luacnffallback	D savers
S luacnfname	F scandata
S luacnfspec	F scanfiles
S luacnfstate	T schemes
T macros	T cleaners
F convertfile	F md5
F decodecomment	F none
F enablecomment	F strip
F encodecomment	F cleannname
F preprocessed	F fetchstring
F processmk	F fetchtable
F processmklx	F install
F processmkvi	F setdynamic
F version	F setenv
N maxreadlevel	F showpath
F methodhandler	F simplescanfiles
F missinglibrary	F splitconfigurationpath
F openbinfile	F splitexpansions
D openers	F splitmethod

F splitpath	F registerrunner
F stackpath	F report
F starttiming	F setfilenamelogger
F stoptiming	F setlogger
D suffixes	F setreporter
D suffixmap	F settrace
F suffixofformat	F validfilename
F texdatablob	T scripts
F toppath	T autofontfeature
D tracers	F disable
F unexpandedpath	F enable
F unexpandedpathlist	F handler
F unresolve	D colors
F updaterelations	F decomposehangul
F updatescript	T defaults
F uselibrary	N inter_char_half_shrink_factor
D usertypes	N inter_char_half_stretch_factor
F usezipfile	N inter_char_hangul_penalty
F validatedpath	N inter_char_quarter_shrink_factor
F variable	N inter_char_quarter_stretch_factor
F variableofformat	N inter_char_shrink_factor
F variableofformatorsuffix	N inter_char_stretch_factor
F wildcardpattern	N inter_word_stretch_factor
T sandbox	F getdata
F blockrequire	F getinjector
F disablelibraries	F getsplitter
F disablerunners	F getstatus
F enable	D handlers
F filehandlerone	D helpers
F filehandlertwo	D injectors
F finalizer	T inserters
F getrunner	F nobreakspace_after
F initializer	F nobreakspace_before
F iohandler	F space_after
F logcalls	F space_before
F logfiles	F zerowidthspace_after
F original	F zerowidthspace_before
F overload	F installdataset
F possiblepath	F installmethod
F redefine	D numbertodataset
F register	D numbertohandler
F registerbinary	F reset
F registerlibrary	F set
F registerroot	F setstatus

D splitters	T statistics
F select	F benchmarktimer
T set	F checkfmtstatus
F contains	F currenttime
F create	F elapsed
F tolist	F elapsedindeed
F tonumber	F elapsedseconds
F totable	F elapsedtime
F setinspector	B enable
F setmathparameters	T feedback
F setmetatable	F info
T sorters	F processtates
F basicsorter	F register
T comparers	F reportstates
F basic	F setstate
T constants	F formatruntime
S defaultdigits	F hastiming
S defaultlanguage	F memused
S defaultmethod	F register
N digitsmaximum	F resettiming
N digitoffset	F runtime
N ignoredoffset	F savefmtstatus
N replacementoffset	F show
T validmethods	F showmemory
B ch	F showusage
B mc	F starttiming
B mm	F stoptiming
B pc	N threshold
B pm	F timed
B uc	F tracefunction
B zc	T storage
B zm	F allocate
D definitions	T data
F firstofsplit	F mark
F packch	F marked
F packuc	N max
F replacementlist	N min
F setlanguage	N nofmodules
F sort	N noftables
T splitters	F register
F utf	D shared
F strip	D storedfunctions
D tracers	B strip
F update	N tofmodules

N toftables	F check
T streams	D collected
F collect	F compact
F disable	F converted
F enable	F currentvalue
F flush	D data
F initialize	F define
F push	F first
F start	F get
F stop	F last
F synchronize	F next
T structures	F prev
F atlocation	F previous
T blocks	F raw
D collected	F record
F define	F reset
F empty	F restart
F print	F restore
F save	F save
F select	F set
F setstate	F setlevel
D states	F setoffset
D tobesaved	F setown
F uservariable	F setstate
T bookmarks	F setvalue
T extras	T specials
F get	F userpage
F mergesections	F subs
F register	D tobesaved
F reset	F value
F tosections	F way
F finalize	F currentsectionnumber
F flatten	T descriptions
F installhandler	T documents
F merge	D data
S method	F initialize
F overload	F preset
F place	F reset
F register	T floats
F setopened	T formulas
F setup	T helpers
T counters	F analyze
F add	F formulanumber
F analyze	F merged

F page	F label
F pageofinternal	F location
F prefix	D names
F prefixlastpage	F number
F prefixpage	D ordered
F simplify	F page
F title	F popnesting
F touserdata	F prefix
T inserts	F prefixednumber
F attach	F prefixedpage
D data	F process
F define	D pushed
F detach	F pushnesting
F getdata	F rawnumber
F getlocation	F rawrealpage
F getname	F rawuserpage
F getnumber	F realpage
F nofdetached	F reorder
F setlocation	F reordered
F setup	T result
D stored	F savedlistnumber
T itemgroups	F savedlistprefixednumber
D collected	F savedlisttitle
D tobesaved	D sectionblocks
T lists	F size
F addto	F title
F analyze	D tobesaved
F bookmark	F use
D cached	F userdata
D collected	F userpage
F discard	F uservalue
F enhance	T marks
T enhancers	F number
F external	F title
F filter	T notes
F formulanumber	F check_spacing
F getresult	F checkpagechange
F groupindex	F define
F hasnumberdata	F doifonsamepageasprevious
F haspagedata	F flushrange
F hastitledata	F get
F integrate	F getdeltapage
F iscached	F getinternal
D kinds	F getn



F	getstate	F	define
F	hascontent	D	defined
F	internal	D	derived
F	internalid	F	enhance
F	listindex	D	executers
D	numbers	F	export
F	ordered	T	files
F	postpone	T	data
F	resetpostponed	F	define
F	restore	F	found
F	save	F	get
F	setstate	F	filter
D	states	F	filterdefault
F	store	D	filters
T	pages	D	flaginternals
F	allmarked	F	forceinnermode
F	analyze	F	from
D	collected	D	functions
F	fraction	F	get
F	getlabels	F	getcurrentlabel
F	in_body	F	getcurrentmetadata
F	is_odd	F	getcurrentprefixspec
F	mark	F	getinnermethod
F	marked	F	getinternalcachedlistreference
F	markedlist	F	getinternallistreference
N	nofpages	F	getinternalreference
F	number	F	getoutermethod
F	on_right	D	handlers
F	save	F	identify
D	tobesaved	F	import
F	toranges	F	inject
T	references	F	injectcurrentset
F	analyze	S	innermethod
F	checked	F	integrate
F	checkedfile	D	internals
F	checkedfileorurl	F	load
F	checkedprogram	F	loadpresets
F	checkedrealpage	F	mark
F	checkedurl	S	outermethod
D	collected	F	pagefromhash
U	componentsplitter	D	pages
F	currentmetadata	U	prefixsplitter
F	currentorder	D	productdata
D	currentset	T	programs

T data	F define
F define	F found
F get	F get
F realpageofpage	F untex
F referenced	D usedinternals
U referencesplitter	D usedviews
D referred	F valid
F referredpage	T registers
F registerfinalizer	F analyze
F registerinitializer	D collected
F registerpage	F compare
F reset	F define
D runners	F enhance
F set	F extend
F setandgetattribute	F filter
F setinternalreference	F filtercollected
F setlinkmethod	F finalize
F setnextinternal	F findinternal
F setnextorder	F flush
F setreferencerealpage	F get
F setstructure	F integrate
D specials	F prepare
F splitcomponent	F process
F splitprefix	F setmethod
F splitreference	F sort
F synchronizepage	F store
T testrunners	D tobosaved
F inner	F tweak
F special	F unique
F special operation	F use
F special operation with arguments	F userdata
T testspecials	T sections
F deltapage	F autodepth
F i	F cct
F internal	D collected
F page	F current
F realpage	F currentblock
F section	F currentid
F userpage	F currentlevel
D tobereferred	F currentsectionindex
D tobosaved	F depthnumber
D tracedpages	F finddata
T urls	F findnumber
T data	F fullnumber

F getcurrentlevel	F analyzed
F getlevel	D collected
F getnumber	F compare
F internalreference	F define
D levelmap	F enhance
D levels	F filter
F matchingtilldepth	F finalize
F numberatdepth	F flush
F numbers	F isshown
F popblock	F isused
F prefixedconverted	F meaning
F pushblock	F pages
F register	F prepare
D registered	F process
F reportstructure	F register
F save	F registershown
T sectionblockdata	F registerused
T bodypart	F reset
S bookmark	F resetall
F set	F resetlist
F setblock	F resetshown
F setchecker	F resetused
F setentry	F sort
F setinitialblock	F synonym
F setlevel	D tobesaved
F setnumber	T tags
F showstructure	F analyze
F structuredata	T backend
F title	T checks
D tobesaved	F marginanchor
F typesetnumber	F margintext
F userdata	F math
B verbose	F mrow
T sets	F mtable
F define	T destinationhash
F get	T extras
F getall	F adddestination
D setlist	F addimplicit
T specials	F addinternal
D collected	F addreference
F retrieve	F combination
F store	F combinationpair
D tobesaved	F delimitedsymbol
T synonyms	F description

F descriptionsymbol	T highlight
F document	F checknesting
F float	F current
F formulacontent	F elementtag
F image	F enabled
F item	F exportbox
F itemgroup	F finishexport
F link	F getdescriptionindex
F listitem	F getextradata
F mmultiscripts	F getid
F mover	F getitemgroup
F mpgraphic	F getmetadata
F msub	F getoption
F msubsup	F getsorting
F msup	F getsynonym
F munder	F gettablecell
F munderover	F gettabulatecell
F paragraph	F gettagreferencedescription
F publication	F handler
F reference	T ignored
F registerlocation	F initializeexport
F registerpages	D labels
F registerseparator	F last
F section	F lastinchain
F sorting	F localexport
F subsentencesymbol	F locatedtag
F synonym	T modes
F tablecell	S BlockQuote
F tabulate	S FENote
F tabulatecell	S H1
T finalizers	S H2
F descriptions	S H3
T fixes	S H4
F linenumber	S H5
F fontfaced	S H6
T listdata	S H7
T referencehash	S H8
F setattribute	S H9
F tofontface	S Lbl
T usedimages	S NonStruct
T image	S P
T mpgraphic	S Part
T usedstyles	S Sect
T construct	D overloads

T patterns	B BibEntry
U splitter	B Caption
F pop	B Document
D properties	B DocumentFragment
F push	B Em
F registerextradata	B Form
F registermetadata	B H
F restart	B Index
F setaspect	B Link
F setattributehash	B Note
F setcodepoint	B Quote
F setcombination	B Reference
F setcombinationpair	B Strong
F setconstruct	B TOC
F setdescriptionindex	B TOCI
F setfigure	B Title
F setfloat	T usewithcare
F setformulacontent	T where
F sethighlight	S Art
F setitem	S Artifact
F setitemgroup	S Aside
F setmpgraphic	S BibEntry
F setnotation	S BlockQuote
F setnotationsymbol	S Code
F setparagraph	S DocumentFragment
F setproperty	S Em
F setpublication	S FENote
F setregister	S H1
F setsorting	S H2
F setsynonym	S H3
F settablecell	S H4
F settabulatecell	S H5
F settagdelimitedsymbol	S H6
F settagsubsentencesymbol	S H7
F setupexport	S H8
F setuserproperties	S H9
D specifications	S Index
F start	S Note
F stop	S Private
F strip	S Quote
D taglist	S Reference
T unsupported	S Strong
B Annot	S Sub
B Art	S TOC

S TOCI	N step
S Title	T parametersize
D texconditionals	N size
T texconfig	N step
T buffersize	T poolsize
N size	N size
N step	N step
T errorlinesize	N propertiessize
N size	T savesize
T expandsize	N size
N size	N step
T filesize	S shell_escape
N size	T stringsize
N step	N size
S firstline	N step
T fontsize	T tokensize
N size	N size
N step	N step
S formatname	D texconstants
N functionsize	D texifs
T halferrorlinesize	D txisdefined
N size	D texmodes
T hashsize	D texsystemmodes
N size	T thirddata
N step	F toboolean
F init	F todecimal
T inputsize	T tokens
N size	T accessors
N step	F active
T insertsize	F cmd
N size	F cmdchrsc
N step	F cmdname
B kpse_init	F command
T languagesize	F csname
N size	F expandable
N step	F frozen
T marksize	F index
N size	F name
N step	F protected
T nestsize	F range
N size	F astable
N step	T bits
T nodesize	N active
N size	N alignment

N begingroup	F isdefined
N character	F istoken
N close	F new
N comment	F pickup
N endgroup	F popmacro
N endofline	T presets
N escape	T 1 argument
N ignore	T 1 integer
N invalid	T 1 optional
N letter	T 1 string
N mathshift	T 2 arguments
N open	T 2 integers
N other	T 2 optionals
N parameter	T 2 strings
N space	T 3 arguments
N subscript	T 3 integers
N superscript	T 3 optionals
N whitespace	T 3 strings
D cache	T 4 arguments
D commands	T 4 integers
F compile	T 4 optionals
F constant	T 4 strings
T converters	T 5 strings
S toboolean	T 6 strings
S todimen	T 7 strings
S toglue	T 8 strings
S tonumber	F pushmacro
S tostring	T scanners
F create	F argument
F defined	F argumentasis
F flags	F array
F getinteger	F boolean
T getters	F box
F box	F bracketed
F count	F bracketedasis
F ctoken	F cardinal
F dimen	F char
F glue	F cmdchr
F macro	F cmdchrexplanded
F meaning	F code
F skip	F conditional
F token	F count
F gobble	F csname
F isactivestring	F csnameunchecked

F delimited	F tokenstring
F detokened	F toks
F dimen	F value
F dimension	F vbox
F dimensionargument	F verbatim
F float	F vtop
F glue	F whd
F gluespec	F word
F gluevalues	F setinteger
F hash	T setters
F hbox	F box
F integer	F char
F integerargument	F count
F ischar	F dimen
F key	F glue
F keyword	F lua
F keywordcs	F macro
F letters	F skip
F list	T shortcuts
F lua	N close
F luacardinal	F inspect
F luainteger	N open
F luanumber	F report
F lxmlid	F scanargument
F next	F scanargumentasis
F nextchar	F scanarray
F nextexpanded	F scanboolean
F number	F scanbox
F optional	F scanbracketed
F peek	F scanbracketedasis
F peekchar	F scancardinal
F peekexpanded	F scanclose
F posit	F scancode
F real	F scanconditional
F scanclose	F scancsname
F scanopen	F scancsnameunchecked
F skip	F scandelimited
F skipexpanded	F scandetokened
F string	F scandimen
F table	F scandimension
F token	F scandimensionargument
F tokencode	F scanfloat
F tokenlist	F scanglue
F tokens	F scangluespec



F scangluevalues	F report
F scanhash	F reset
F scanhbox	F savehash
F scaninteger	F show
F scanintegerargument	F value
F scankeyword	F values
F scankeywordcs	F type
F scanletters	T typesetters
F scanlist	T alignments
F scanlua	F handler
F scannumber	F set
F scanopen	T breakpoints
F scanoptional	F define
F scanposit	F handler
F scanstring	D mapping
F scantable	T methods
F scantokenlist	T numbers
F scantokenstring	F set
F scantoks	F setreplacement
F scanvbox	T cases
F scanverbatim	T actions
F scanvtop	F handler
F scanword	F register
F toboolean	F set
F todimen	T characteralign
F tonumber	F handler
F tostring	F resetcharacteralign
D values	F setcharacteralign
F tonumber	T characters
F tostring	F handler
T tracers	T methods
F printerror	F replacensp
F printwarning	F replacenspaces
F showlines	T checkers
T trackers	F handler
D data	F reset
F default	F set
F disable	T cleaners
T done	F handler
F dumphashtofile	F set
F enable	T compare
F list	F handler
S name	F reset
F register	F set

F setpair	D factors
F setup	F handler
T corrections	F keepligature
F handler	D mapping
T digits	F set
T actions	T localboxes
F handler	F handler
F set	T manipulators
T directions	F apply
F getfences	F applyspecification
F getglobal	T methods
F getmethod	F Word
F handler	F Words
T handlers	F abbreviatedjournal
F installhandler	F expandedjournal
F set	F lowercase
F setcolor	F stripperperiod
F tomode	F uppercase
T firstlines	T patterns
T actions	U list
F default	U pair
F line	F splitspecification
F word	T margins
F handler	F finalhandler
F set	F globalhandler
T fontkerns	F localhandler
F handler	F save
T initials	F marksuspects
T actions	T paragraphs
F default	F addanchortoline
F handler	F addtoline
F set	F calculatedelta
T injectors	F checkline
F check	F moveinline
T list	T periodkerns
F mark	D factors
F reset	F handler
F set	D mapping
F show	F set
T italics	T processors
F enablemath	F apply
F enabletext	F register
F handler	F reset
T kerns	F split

F startapply	F set_construct
F stopapply	F set_reflow_height
F stripped	F set_reflow_width
F toString	F unpack
T rubies	T updaters
F attach	F apply
F check	F register
F showinvisibles	T url
F showsuspects	F addscheme
T spacings	F barepath
F define	F construct
F handler	F decode
D mapping	F encode
T numbers	F escape
T frenchpunctuation	F filename
T characters	F hashed
S name	F hasscheme
N number	F query
F reset	F split
F set	F toquery
F setup	F unescape
T stacking	F unescapeget
F getindex	T userdata
F getselection	T utf
F handler	F byte
T swapping	F bytewidth
F handler	F char
T synchronize	F characters
F handler	F chrln
T tighten	F count
F handler	F filetype
T wrappers	F is_valid
T xtables	F len
F cleanup	F length
F construct	F lower
F create	F remapper
F finish_row	F replacer
F flush	F split
F initialize_construct	F splitlines
F initialize_reflow_height	F sub
F initialize_reflow_width	F substituter
F next_row	F tocodes
F reflow_height	F toeight
F reflow_width	F toentities

F tostring	N nofstrippedbytes
F totable	N nofstrippedchunks
F upper	F registerfinalizer
F ustring	B stripcode
F utf16_to_utf8_be	T strippedchunks
F utf16_to_utf8_be_t	F strippedloadstring
F utf16_to_utf8_le	T suffixes
F utf16_to_utf8_le_t	S lmt
F utf16_to_utf8_t	S lua
F utf32_to_utf8_be	S luc
F utf32_to_utf8_be_t	S lui
F utf32_to_utf8_le	S luj
F utf32_to_utf8_le_t	S luv
F utf32_to_utf8_t	S tma
F utf8_to_utf16	S tmc
F utf8_to_utf16_be	S tua
F utf8_to_utf16_le	S tuc
F utf8_to_utf8_t	T packers
F values	F hashed
F xstring	F new
T utilities	F pack
T debugger	F simplehashed
F disable	F strip
F enable	F unpack
F savestats	N version
F showstats	T parsers
F showtraceback	F add_settings_to_array
T formatters	F arguments_to_table
F formatcolumns	F array_to_string
F list	F csvsplitter
F stripzeros	F getparameters
T ghostscript	F groupedsplitat
F convert	F hash_to_string
F statistics	T hashes
T graphicmagick	T settings_to_list
F convert	T settings_to_set
F statistics	T min,max,fit,broad,auto
T lua	B auto
B alwaysstripcode	B broad
F checkmemory	B fit
F compile	B max
F loadedluacode	B min
F loadstring	T text,hidden,paper,page,leftpage,rightpage
F loadstripped	B hidden

B leftpage	F getseed
B page	F newrepeatable
B paper	F popseed
B rightpage	F pushseed
B text	F repeatable
F iterator	F reuseseed
F keq_to_hash	F setseed
F listitem	F setseedi
F make_settings_to_hash_pattern	T randomizers
F mergehashes	F poisson
F options_to_array	T sequencers
F options_to_hash	F appendaction
T patterns	F appendgroup
U settings_to_array	F compile
U settings_to_hash_a	F disableaction
U settings_to_hash_b	F disablegroup
U settings_to_hash_c	F enableaction
U settings_to_hash_d	F enablegroup
U unittotex	D functions
F process_stripped_settings	F localize
F rfc4180splitter	F new
F runtime	F nodeprocessor
F settings_to_array	F prependaction
F settings_to_array_obey_fences	F prependgroup
F settings_to_array_with_repeat	F removeaction
F settings_to_hash	F replaceaction
F settings_to_hash_colon_too	F setkind
F settings_to_hash_strict	F toString
F settings_to_hash_tolerant	T setters
F settings_to_numbers	F disable
F settings_to_set	F enable
F simple_hash_to_string	F initialize
F splitmethod	F list
F splitthousands	F new
F stepper	F register
F stripped_settings_to_array	F report
F totime	F reset
F unittotex	F show
F unittoxml	T signals
T randomizer	S configuration
F get	F initialize
F getnumber	F loadstate
F getrepeatable	F report
F getrepeatableseed	F savestate

F serialclose	F readinteger1
F serialfast	F readinteger1le
F serialopen	F readinteger2
S serialprefix	F readinteger2le
F serialsend	F readinteger3
F serialwrite	F readinteger3le
N version	F readinteger4
T stacker	F readinteger4le
F new	F readintegertable
T storage	F readsignedbyte
F allocate	F readstring
F checked	F setposition
F mark	F size
F marked	F skip
F setinitializer	F skipbytes
F sparse	F skiplong
T streams	F skipshort
F close	F tocardinal1
F getposition	F tocardinal1le
F getsize	F tocardinal2
F getstring	F tocardinal2le
F look	F tocardinal3
F open	F tocardinal3le
F openstring	F tocardinal4
F read2dot14	F tocardinal4le
F readbyte	T strings
F readbytes	F collapse
F readbytetable	F collapseCrLf
F readcardinal	T formatters
F readcardinal1	F add
F readcardinal1le	F new
F readcardinal2	F newcollector
F readcardinal2le	F newrepeater
F readcardinal3	T striplinepatterns
F readcardinal3le	U collapse
F readcardinal4	U collapse all
F readcardinal4le	U prune
F readcardinaltable	U prune and collapse
F readchar	U prune and no empty
F readcline	U prune and to space
F readcstring	U retain
F readfixed2	U retain and collapse
F readfixed4	U retain and no empty
F readinteger	F striplines

F tabtspace	F open
T tables	F unzip
F accesstable	F unzipdir
F definedtable	F zipdir
F definetable	T visualizers
F encapsulate	D escapepatterns
F insertaftervalue	F getspecification
F insertbeforevalue	F getvisualizer
F migratetable	F load
F removevalue	F makenested
F replacevalue	F makepattern
T tar	F newgrammar
T archives	F newhandler
F closearchive	F parsedxml
T files	F pattern
F fetch	F register
F hash	F registerescapecommand
F list	F registerescapeline
F pack	F registerescapepattern
F unpack	S signal
F openarchive	U signalpattern
T registeredfiles	D specifications
T streams	F visualize
F fetch	F visualizebuffer
F hash	F visualizefile
F list	F visualizestring
F pack	F write
F unpack	F writeargument
T strings	F writedefault
F fetch	F writeemptyline
F hash	F writenewline
F list	F writespace
F pack	F warn
F unpack	T xml
T templates	F addentitiesdoctype
F load	F addspecialcode
F replace	F after
F replacer	F all
F resolve	F applylpath
T zipfiles	F applyselector
F close	F assign
F found	F attribute
F hash	F badinclusions
F list	F before

F body	D string
T builtinentities	D tex
B amp	D texline
B apos	D texspace
B gt	D verbose
B lt	S defaultprotocol
B quot	F delete
F cdata	F delete_element
F cdatatotext	F despecialized
F checkbom	F each
F checkedempty	F each_element
F checkerror	F elements
F checknamespace	F elementtocdata
F checkns	F empty
F cleansed	D entities
F collect	F erase
F collect_elements	F errorhandler
F collect_tags	F escaped
F collect_texts	F expand
F collected	T expressions
F collecttexts	F attribute
F compactelement	F boolean
F content	F child
F convert	F contains
F copy	F count
F count	F error
F cprint	F find
T css	F hasclass
F applyselector	F idstring
F colorspecification	F lower
F dimension	F name
F family	F number
F fontspecification	F oneof
F mappedstylevalue	F print
F padding	F quit
F size	F tag
F style	F text
F stylevalue	F undefined
F todimension	F upper
F variant	F fillin
F weight	F filter
T defaulthandlers	T finalizers
D file	F paragraphs
D parsedxml	T tex



F all	F empty
F attribute	F first
F chainattribute	F function
F chainpath	F index
F collapsed	F last
F command	F lowerall
F concat	F match
F concatrange	F name
F context	F position
F count	F reverse
F ctxtext	F table
F default	F tag
F depth	F tags
F first	F text
F function	F texts
F index	F tomacro
F last	F upperall
F lettered	F url
F lower	F first
F lowerall	F found
F match	T functions
F name	F classes
F param	F hasclass
F parameter	F getbuffer
F position	F gethandlers
F reverse	F gethandlersfunction
F stripped	T helpers
F tag	F recursetext
F tags	F include
F text	F inclusion
F upper	F inclusions
F upperall	F index
F url	F inheritattributes
F xml	F inheritedconvert
T xml	F inject
F all	F inject_element
F att	F inject_element_after
F attribute	F inject_element_before
F attributes	F injectafter
F cdata	F injectbefore
F chainattribute	F insert
F count	F insert_element
F default	F insert_element_after
F elements	F insert_element_before

F insertafter	F injector
F insertbefore	F tex
F insertcdata	T placeholders
F insertcomment	F unknown_any_entity
F inspect	F unknown_dec_entity
F is_valid	F unknown_hex_entity
F kind	F popmatch
F last	F position
F lastmatch	D privatecodes
F load	F privatetoken
F lpath	F process
F lpathcached	F process_attributes
F lpathcalls	F process_elements
F lshow	F processattributes
F makestandalone	T profiled
F match	F pure
T mml	F pushmatch
F stripped	F raw
F verbose	F registerentity
F name	F registersn
F newhandlers	F reindex
F nodesettostring	F remap_name
T obsolete	F remap_namespace
F collect_elements	F remap_tag
F collect_texts	F remapname
F delete_element	F remapnamespace
F each_element	F remaptag
F inject_element	F rename
F inject_element_after	F renamespace
F inject_element_before	U reparsedentitylpeg
F insert_element_after	F replace
F insert_element_before	F replace_element
F process_attributes	F resetinjectors
F process_elements	F resolvens
F remap_name	F root
F remap_namespace	F save
F remap_tag	F selection
F replace_element	F separate
F strip_whitespace	F serialize
F originalload	F serializetotext
F package	F setcdata
F parent	F setcomment
U parsedentitylpeg	F sethandlersfunction
T pihandlers	F setinjectors

F setproperty	F pairs
F settings	F pcall
D specialcodes	F print
T specialhandler	F rawequal
F sprint	F rawget
F string	F rawlen
F strip	F rawset
F strip_whitespace	F require
F stripelement	F select
F stripleadingspaces	F setinspector
F table	F setmathparameters
F text	F setmetatable
F textonly	D texconditionals
F texttocdata	D texconstants
F tocdata	D texifs
F toelement	D texisdefined
F tostring	D texmodes
F totable	D texsystemmodes
F toxml	F toboolean
F tprint	F todecimal
F traverse	F tonumber
F unescaped	F tostring
U unescapedentitylpeg	F type
F unprivatized	F unpack
F unspecialized	F warn
F wipe	F xpcall
F withelement	<b>globals</b>
F withelements	N CONTEXTLMTXMODE
F wrap	N LUAFORMAT
T xmlns	N LUAMAJORVERSION
F xpcall	N LUAMINORVERSION
T zip	S LUATEXENGINE
T archives	N LUATEXFORMATID
F closearchive	N LUATEXFUNCTIONALITY
F openarchive	S LUATEXVERBOSE
T registeredfiles	N LUATEXVERSION
F inspect	N LUAVERSION
F ipairs	F SAVEDREQUIRE
F load	F assert
D loaders	F collectgarbage
F loadfile	F dimen
F loadstring	F dofile
F next	F error
F optionalrequire	F getmetatable
	<b>table</b>

F inspect  
 F ipairs  
 F load  
 D loaders  
 F loadfile  
 F loadstring  
 F next  
 F optionalrequire  
 F pairs  
 F pcall  
 F print  
 F rawequal  
 F rawget  
 F rawlen  
 F rawset  
 F require  
 F select  
 F setinspector  
 F setmathparameters  
 F setmetatable  
 D texconditionals  
 D texconstants  
 D texifs  
 D texisdefined  
 D texmodes  
 D texsystemmodes  
 F toboolean  
 F todecimal  
 F tonumber  
 F tostring  
 F type  
 F unpack  
 F warn  
 F xpcall

**graphics** table

F bpsize  
 F identify  
 F registerpdfcompactor  
 F registerpdffont

**gzip** table

F compress  
 F compressed  
 F decompress  
 F load

F save  
 F suffix

**helper** table

F getprofile  
 F mathnested  
 F mathprocess  
 F mathstep  
 F snapindeed  
 F snaplist  
 F traversesearmethod  
 F traverseglyphmethod  
 F traversehorizontal  
 F traversevertical

**images** table

F check  
 F checksize  
 F copy  
 F create  
 F embed  
 F embedfromstore  
 F fetchdata  
 F print  
 F resetdata  
 F resetstore  
 F scan  
 F serialize  
 F storedata  
 F totable  
 F wrap

**inspect** function

**interactions** table

D attachments  
 D linkedlists  
 D renderings

**interfaces** table

D cachedsetups  
 F cachesetup  
 F checkedspecification  
 D complete  
 D constants  
 D corenamespaces  
 S currentinterface  
 S currentresponse  
 F definecommand

F defined  
 F doifelsemessage  
 D elements  
 D formats  
 F getmessage  
 F getnamespace  
 F getsetupstring  
 D hashedsetups  
 F implement  
 F interfacedcommand  
 F knownscanner  
 F message  
 F nameofscanner  
 F registernamespace  
 F registerscanner  
 D scanners  
 F setconstant  
 F setcount  
 F setdimen  
 F setelement  
 F setformat  
 F setmacro  
 F setmessage  
 F setmessages  
 F settranslation  
 D setupstrings  
 F setvariable  
 F showmessage  
 D storedscanners  
 F tolist  
 D translations  
 D usednamespaces  
 D variables  
 F writestatus

**io** table

F ask  
 F bytes  
 F characters  
 F close  
 F copydata  
 F exists  
 S fileseparator  
 F flush  
 F gobble

F input  
 F lines  
 F loadchunk  
 F loaddata  
 F loadlines  
 F newreader  
 F noflines  
 F open  
 F output  
 S pathseparator  
 F popen  
 F read  
 F readall  
 F readnumber  
 F readstring  
 F savedata  
 F size  
 U stderr  
 U stdin  
 U stdout  
 F tmpfile  
 F type  
 F write

**ipairs** function  
**job** table

F comment  
 F disablesave  
 F getrandomseed  
 F initialize  
 F load  
 F loadother  
 B pack  
 N packversion  
 F register  
 F save  
 N version

**kpse** table  
**language** table

F clean  
 F clearhyphenation  
 F clearpatterns  
 F current  
 F gethocode  
 F has\_language

F hyphenate  
F hyphenation  
F hyphenationmin  
F id  
F new  
F patterns  
F postexhyphenchar  
F posthyphenchar  
F preexhyphenchar  
F prehyphenchar  
F sethcode  
F setwordhandler

## Languages

table

F addgoodiesdata  
F addgoodiesfile  
F associate  
D associated  
F association  
D counters  
F current  
D data  
D decimals  
F define  
F explicitlyphen  
F exportlanguage  
F flatten  
F getdata  
F getmetadata  
F getnumber  
F goodiefiles  
F hyphenate  
F installed  
F installhandler  
F loadable  
F loadwords  
F nofflattened  
D numbers  
F pdflanguage  
F postexhyphenchar  
F posthyphenchar  
F preexhyphenchar  
F prehyphenchar  
D registered  
F serializediscretionary

F setexceptions  
F setgoodieshandler  
F setoptions  
F setpatterns  
F setsynonym  
F setwordhandler  
F showdiscretionaries  
F strippedgoodiewords  
F tolang  
F unload  
N version  
F visualizediscretionaries

## Layouts

table

F getcanvas  
F getpagedimensions  
F setupcanvas

## lfs

table

F attributes  
F chdir  
F currentdir  
F dir  
F isdir  
F isfile  
F isfound  
F isreadabledir  
F isreadablefile  
F iswriteabledir  
F iswriteablefile  
F link  
F mkdir  
F makedirs  
F modification  
F readlink  
F rmdir  
F setexecutable  
F symlink  
F symlinktarget  
F touch  
F walkdir

## Libraries

table

D basiclua  
D basictex  
D builtin  
D extralua

D extratex		F application	
D functions		F categories	
D globals		F direct	
D obsolete		F disable	
D optional		F enable	
<b>lmx</b>	<b>table</b>	F finalactions	
F color		F flush	
F convert		F loggingerrors	
F convertfile		F messenger	
F convertstring		F new	
F einject		F newline	
F eprint		F poplogfile	
F escape		F poptarget	
F finalized		F pushlogfile	
F finject		F pushtarget	
F fprint		F registerfinalactions	
F get		F report	
F getvariables		F reporter	
F htmfile		F resetlogfile	
F include		F setformats	
F initialize		F setformatters	
F inject		F setlogfile	
F lmxfile		F setmessenger	
F loadedfile		F setprocessor	
F make		F settarget	
F new		F settimedlog	
F popupfile		F settranslations	
F print		F show	
F pv		F start_page_number	
F report		F start_run	
F reset		F startererrorlogging	
F result		F startfilelogging	
F set		F status	
F show		F stop_page_number	
F stripcss		F stoperrorlogging	
F tv		F stopfilelogging	
F type		F subdirect	
F urlescape		F subreport	
F variable		F system	
<b>load</b>	<b>function</b>	F texerrormessage	
<b>loaders</b>	<b>data table</b>	F writer	
<b>loadfile</b>	<b>function</b>	<b>lpdf</b>	<b>table</b>
<b>loadstring</b>	<b>function</b>	F action	
<b>logs</b>	<b>table</b>	F adddocumentcolorspace	

F adddocumenttextgstate	F dictionary
F adddocumentpattern	F docstring
F adddocumentshade	F escaped
F addtocatalog	F finalizeddocument
F addtoinfo	F finalizepage
F addtonames	F finalizesignature
F addtopageattributes	F finishtransparencycode
F addtopageresources	F flushfonts
F addtopagesattributes	F flushgroup
F addxmpinfo	F flushobject
F annotationspecification	F flushstreamfileobject
F array	F flushstreamobject
F attachmentsymbols	D formats
F boolean	F frombytes
F border	F fromeight
F checkedkey	F frompdfdoc
F checkedresources	F fromsixteen
F checkedvalue	F getcatalog
F circularshade	F getcompression
F close	F getfontname
F cmykcode	F getfontobjectnumber
F collectedresources	F getformatoption
F color	F getinfo
F colorspace	F getmatrix
D colorspaceconstants	F getnofpages
F colorspec	F getpageproperties
F colorvalue	F getpagereference
F colorvalues	F getpagetags
F commentsymbols	F getpos
F compressdata	F gettaggingstatus
F compresslevel	F gettrailerid
F constant	F getversion
F copyarray	F getxformname
F copyboolean	F graycode
F copyconstant	F hasmatrix
F copydictionary	F immediateobject
F copyfloat	F includeimage
F copyinteger	F initialize
F copynumber	F injectxmpinfo
F copystring	F insertxmpinfo
F copyunicode	F lastreferredpage
F deferredobject	F layerreference
F delayedobject	F limited
F destinationspecification	F linearshade



F literal  
 F majorversion  
 F makenametree  
 F minorversion  
 F nofontregistries  
 F nopages  
 F null  
 F number  
 F object  
 F objectcompresslevel  
 F pagereference  
 F patternstream  
 F pdfcolor  
 F pdftimestamp  
 F preparesignature  
 F print  
 F procset  
 B protectresources  
 F quads  
 F rectangle  
 F reference  
 F registerannotation  
 F registerdestination  
 F registerdocumentfinalizer  
 F registerfontmethod  
 F registerinitializer  
 F registerpagefinalizer  
 F registerpattern  
 F registersignature  
 F replacexmpinfo  
 F reserveobject  
 F rgbcode  
 F rotationcm  
 F setcompression  
 F setencryption  
 F setpageorder  
 F setpagestate  
 F setpagetag  
 F setutfstringmode  
 F setversion  
 F sharedobject  
 F shareobject  
 F shareobjectreference  
 F splitsixteen

F spotcode  
 F stream  
 F string  
 F supportedformats  
 F tocidset  
 F toeight  
 F topdfdoc  
 F topermissions  
 F tosixteen  
 F transparency  
 F transparencycode  
 F transparencyvalue  
 F unicode  
 D usedfontstreams  
 F verbose

## **lpeg**

F B  
 F C  
 F Carg  
 F Cb  
 F Cc  
 F Cf  
 F Cg  
 F Cmt  
 F Cp  
 F Cs  
 F Ct  
 F P  
 F R  
 F S  
 F UP  
 F UR  
 F US  
 F V  
 F afterprefix  
 F anywhere  
 F append  
 F balancer  
 F beforesuffix  
 F checkedsplit  
 F containsws  
 F counter  
 F endstripper  
 F finder

## **table**

F firstofsplit  
 F frontstripper  
 F instringchecker  
 F is\_peg  
 F keeper  
 F locale  
 F match  
 F oneof  
 D patterns  
 F pcode  
 F print  
 F ptree  
 F replacer  
 F secondofsplit  
 F setmaxstack  
 F setutfcasers  
 F split  
 F splitat  
 F splitter  
 F stripper  
 F times  
 F tsplitat  
 F tsplitter  
 F type  
 F utfR  
 F utfchartabletopattern  
 F utfreplacer  
 S version

**lua** table

F addnibble  
 D bytedata  
 F callbytecode  
 F comparekeys  
 F finalizeinitex  
 N firstbytecode  
 F get\_functions\_table  
 F getallkeys  
 F getbytecode  
 F getcheckedkeys  
 F getcurrenttime  
 F getdebuginfo  
 F getexitcode  
 F getfunctionstable  
 F getnibble

F getnumerickeys  
 F getpreciseseconds  
 F getpreciseticks  
 F getruntime  
 F getstacktop  
 F getstartupfile  
 F getstringkeys  
 F getversion  
 N lastbytecode  
 D messages  
 F newindex  
 F newtable  
 D numbers  
 F protectglobal  
 F registercode  
 F registeredcodes  
 F registerglobal  
 F registerinitexfinalizer  
 F registername  
 F setbytecode  
 F setexitcode  
 F setnibble  
 S startupfile  
 F subnibble  
 S version

**luac** table

F inspect  
 F print

**luatex** table

F abort  
 F cleanup  
 F cleanuptempfiles  
 F currentfile  
 F currentlevel  
 F currenttotal  
 F poprunstate  
 F pushrunstate  
 F registerdumpactions  
 F registerpageactions  
 F registerstartactions  
 F registerstopactions  
 F registertempfile  
 N starttime  
 F wrapup

F addindex	F getid
F all	F getindex
F applyfunction	F id
F applyselectors	U idsplitter
F att	F ifatt
F attribute	F ifattempty
F badinclusions	F include
F chainattribute	F inclusion
F checkindex	F inclusions
F collected	F index
F command	F inlineverbatim
F concat	F installsetup
F concatrange	F last
F content	F lastatt
F context	F lastmatch
F convert	F lastpar
F count	F load
F delete	F loadbuffer
F depth	F loaddata
F direct	F main
F displayverbatim	F match
F doif	F name
F doifelse	F namespace
F doifelseempty	F nonspace
F doifsetext	F par
F doifempty	F param
F doifnot	F parameter
F doifnotempty	F path
F doifnottext	F popmatch
F doiftext	F pos
F element	F position
F elements	F pure
D entities	F pushmatch
F fileline	F raw
F filename	F rawroot
F filter	F rawtex
F filterlist	F refatt
F first	F register
F flush	F registerentity
F flushlinewise	F removesetup
F flushsetups	F replace
F flushspacewise	F resetcdata
F get_id	F resetsetups
	F resolvedentity

F root  
F save  
F serialize  
F setaction  
F setatt  
F setattribute  
F setcdata  
F setcommandtone  
F setcommandtotext  
F setpar  
F setparam  
F setparameter  
F setsetup  
F snippet  
F splitid  
F startraw  
F startunescaped  
F stopraw  
F stopunescaped  
F store  
F strip  
F stripped  
F tag  
F texatt  
F text  
F tobuffer  
F tofile  
F toparameters  
F toverbatim  
F verbatim  
F withinindex  
D xmltexhandler

## math

## table

F abs  
F acos  
F asin  
F atan  
F atan2  
F ceil  
F ceiling  
F cos  
F cosd  
F cosh  
F deg

F div  
F even  
F exp  
F floor  
F fmod  
F frexp  
N huge  
N initialseed  
F ldexp  
F log  
F log10  
F max  
N maxinteger  
F min  
N mininteger  
F mod  
F modf  
F odd  
N pi  
F pow  
F rad  
F random  
F randomseed  
F round  
F setrandomseedi  
F sin  
F sind  
F sinh  
F sqrt  
F tan  
F tand  
F tanh  
F tointeger  
F type  
F ult

## mathematics

## table

F addfallbacks  
F addvariant  
D alphabets  
D alternatives  
F beforepassingfonttotex  
F big  
D boldmap  
D charactersets

F checkaftercopyingfont  
 D classes  
 D classnames  
 D codes  
 F define  
 F dimensions  
 F disablecollecting  
 F enablecollecting  
 F extensiblecode  
 D extensibles  
 N extrabase  
 F fallbackstyleattr  
 F familyname  
 F functiontype  
 D gaps  
 F getblobindex  
 F getboth  
 F getdomainname  
 F getextensibledata  
 F getmathblob  
 F getoptionallabel  
 F getstyle  
 F gettextblob  
 F getverboselabel  
 F horizontalcode  
 F initializeparameters  
 F makefont  
 D mapremap  
 F markblobindexdone  
 F overloadparameters  
 F preset  
 N privatebase  
 F registerextensible  
 F registersimplematrix  
 F registerverboselabel  
 F remapalphabets  
 F renderextensible  
 F renderset  
 F resetattributes  
 F scaleparameters  
 F setextensibledata  
 F setmathsymbol  
 D sets  
 F setsnapping

F setvariant  
 D styles  
 F syncboth  
 F syncname  
 F syncstyle  
 F toengineclass  
 F toname  
 F tostyle  
 F tweakaftercopyingfont  
 F tweakbeforecopyingfont  
 F utfmathaccent  
 F utfmathclass  
 F utfmathcommand  
 F utfmathfiller  
 F utfmathstretch  
 F variantcode  
 F variantcount  
 F virtualize  
 D virtualized

### md5

table

F HEX  
 F dec  
 F hex  
 F sum  
 F sumHEXA  
 F sumhexa

### metapost

table

F checkformat  
 F checktracingonline  
 F cm  
 F colorinitializer  
 F convert  
 F currentmpx  
 F currentmpxstatus  
 S defaultformat  
 S defaultinstance  
 S defaultmethod  
 F directrun  
 F escaped  
 D extensiondata  
 F filterclippath  
 F flush  
 F flushnormalpath  
 F format\_number

F format_string	F process
F formatnumber	F processing
F getbackendoption	F processplugins
F getbendtolerance	F pushformat
F getbuffer	F pushscriptrunner
F getclippath	F pushvariable
F getextensions	F pushvariables
F getextradata	B quitonerror
F gethashentries	B reductetogray
F getinstancebyname	F registerdirect
F getinstanceinfo	F registerscript
F getinstancenames	F registertokens
F getjobdata	F remappedtext
F getmovetolerance	F remaptext
F getparameter	F reporterror
F getparameterpreset	F reportsvgfonts
F getparameterset	F reset
F getrecord	F resetbackendoptions
F getstatistics	F resetlastlog
F gettext	F resetplugins
F gettolerance	F run
F graphic	F runinternal
F graphic_base_pass	F runscript
F hascurvature	F scanparameters
F includesvgbuffer	F scriptindex
F includesvgfile	F setbendtolerance
F installplugin	F setbuffer
F isobject	F setextensions
S lastlog	F setlogging
F load	F setmovetolerance
F maketext	F setoutercolor
F mesh	F setparameter
N n	F setparameterset
F newlogger	F setrecord
N nofruns	F setttext
F nofscriptruns	F settolerance
F nvformat	F setvariable
F pdfliterals	B showlog
F pluginactions	F showsvgpage
F popformat	F simple
F popscriptrunner	F splitprescript
F popvariable	F startgraphic
F popvariables	F startsvghashing
F preparetexttsdata	F stopgraphic

F stopsvghashing  
F svformat  
B svgcachefile  
F svgcolorremapper  
F svgglyphtomp  
F svgshapestomp  
F svgshapestopdf  
F svgsplitcolor  
F svgtomp  
F svgtopdf  
F sxsy  
B texerrors  
F texexp  
F theclippath  
F tographic  
F totable  
F typesvgpage  
F unload  
F untagvariable

**mime** table

F b64  
F decode  
F dot  
F encode  
F eol  
F normalize  
F qp  
F qpwrp  
F report  
F stuff  
F unb64  
F unqp  
F wrap  
F wrp

**moduledata** table

**modules** table

D anch-loc  
D anch-pgr  
D anch-snc  
D back-exp  
D back-exp-imp-fnt  
D back-exp-imp-mth  
D back-exp-imp-ref  
D back-exp-imp-tag

D back-imp-lua  
D back-imp-mps  
D back-imp-pdf  
D back-imp-pdp  
D back-inc  
D blob-ini  
D buff-imp-default  
D buff-imp-escaped  
D buff-imp-lua  
D buff-imp-mp  
D buff-imp-nested  
D buff-imp-parsed-xml  
D buff-imp-tex  
D buff-imp-xml  
D buff-ini  
D buff-par  
D buff-ver  
D char-enc  
D chem-ini  
D chem-str  
D cldf-com  
D cldf-ver  
D colo-icc  
D colo-ini  
D cont-run  
D core-con  
D core-ctx  
D core-dat  
D core-sys  
D driv-shp  
D file-mod  
D file-syn  
D font-afk  
D font-agl  
D font-aux  
D font-cff  
D font-chk  
D font-cid  
D font-col  
D font-con  
D font-ctx  
D font-def  
D font-dsp  
D font-enc

D font-enh	D font-otr
D font-fbk	D font-ots
D font-fmp	D font-ott
D font-hsh	D font-oup
D font-imp-checks	D font-pat
D font-imp-combining	D font-prv
D font-imp-compound	D font-san
D font-imp-digits	D font-sel
D font-imp-dimensions	D font-shp
D font-imp-effects	D font-sol
D font-imp-italics	D font-syn
D font-imp-ligatures	D font-tfm
D font-imp-math	D font-tpk
D font-imp-notused	D font-trt
D font-imp-properties	D font-ttf
D font-imp-quality	D font-txt
D font-imp-reorder	D font-vfc
D font-imp-scripts	D font-vir
D font-imp-spacekerns	D good-ctx
D font-imp-tex	D good-gen
D font-imp-text	D good-ini
D font-imp-tracing	D good-mth
D font-imp-tweaks	D grph-bmp
D font-imp-unicode	D grph-con
D font-ini	D grph-epd
D font-lig	D grph-fil
D font-log	D grph-img
D font-lua	D grph-inc
D font-map	D grph-pat
D font-mpf	D grph-raw
D font-mps	D grph-rul
D font-nod	D grph-trf
D font-ogr	D grph-u3d
D font-one	D java-ini
D font-onr	D lang-cnt
D font-osd	D lang-def
D font-ota	D lang-dis
D font-otc	D lang-exc
D font-otd	D lang-hup
D font-oth	D lang-hyp
D font-oti	D lang-ini
D font-otj	D lang-lab
D font-otl	D lang-rep
D font-oto	D lang-tra



D lang-txt	D math-mps
D lang-url	D math-noa
D lang-wrd	D math-pre
D libs-imp-curl	D math-rad
D libs-imp-ghostscript	D math-ren
D libs-imp-graphicsmagick	D math-spa
D libs-ini	D math-tag
D lpdf-ano	D math-ttv
D lpdf-col	D math-txt
D lpdf-epa	D math-vfu
D lpdf-epd	D meta-blb
D lpdf-fix	D meta-fnt
D lpdf-fix-imp-contents	D meta-fun
D lpdf-fix-imp-fonts	D meta-imp-txt
D lpdf-fld	D meta-ini
D lpdf-fmt	D meta-lua
D lpdf-grp	D meta-nod
D lpdf-img	D meta-pdf
D lpdf-ini	D meta-tex
D lpdf-lmt	D mlib-cnt
D lpdf-mis	D mlib-ctx
D lpdf-ren	D mlib-fio
D lpdf-rul	D mlib-int
D lpdf-sig	D mlib-lmp
D lpdf-tag	D mlib-lmt
D lpdf-u3d	D mlib-lua
D lpdf-wid	D mlib-mat
D lpdf-xmp	D mlib-mpf
D lxml-css	D mlib-msh
D lxml-dir	D mlib-pdf
D lxml-ent	D mlib-pos
D lxml-ini	D mlib-pps
D lxml-mms	D mlib-ptr
D lxml-sor	D mlib-ran
D lxml-tex	D mlib-run
D math-act	D mlib-scn
D math-ali	D mlib-snc
D math-dim	D mlib-svg
D math-ext	D node-ali
D math-fbk	D node-bck
D math-fnt	D node-fnt
D math-frc	D node-par
D math-ini	D node-ref
D math-map	D node-rul

D node-tra	D spac-ali
D node-typ	D spac-brk
D pack-obj	D spac-chr
D pack-ori	D spac-hor
D pack-rul	D spac-ovl
D page-blk	D spac-par
D page-cst	D spac-pas
D page-flt	D spac-prf
D page-ini	D spac-twi
D page-inj	D spac-ver
D page-ins	D strc-bkm
D page-lin	D strc-blk
D page-mix	D strc-con
D page-otr	D strc-doc
D page-pst	D strc-flt
D page-sel	D strc-ini
D page-str	D strc-itm
D phys-dim	D strc-lev
D publ-aut	D strc-lst
D publ-dat	D strc-mar
D publ-fnd	D strc-mat
D publ-inc	D strc-not
D publ-ini	D strc-num
D publ-jrn	D strc-pag
D publ-oth	D strc-ref
D publ-reg	D strc-reg
D publ-sor	D strc-rsc
D publ-tra	D strc-syn
D publ-usr	D strc-tag
D regi-ini	D strc-usr
D scrn-but	D symb-emj
D scrn-fld	D symb-ini
D scrn-hlp	D syst-cmp
D scrn-ini	D tabl-ali
D scrn-pag	D tabl-ntb
D scrn-ref	D tabl-tbl
D scrn-wid	D tabl-xtb
D scrp-cjk	D task-ini
D scrp-eth	D trac-bld
D scrp-ini	D trac-jus
D scrp-tha	D trac-par
D scrp-tib	D trac-riv
D sort-ini	D trac-sig
D sort-lan	D trac-vis

D type-ini	F direct
D typo-adj	F downgradebytemap
D typo-bld	F downsamplebytemap
D typo-brk	F draw
D typo-cap	F expandtex
D typo-chr	F fill
D typo-cln	F fillbytemap
D typo-dha	F flatten
D typo-dif	F flush
D typo-dig	F format
D typo-dir	F formatted
D typo-drp	F fprint
D typo-duc	F getbytemap
D typo-fkr	F getbytemapdata
D typo-fln	F getlastadddtype
D typo-hid	F graphformat
D typo-inj	F integer
D typo-itc	F lmt_contours_bitmap_get
D typo-krn	F lmt_contours_bitmap_set
D typo-lan	F lmt_contours_cleanup
D typo-lbx	F lmt_contours_color
D typo-man	F lmt_contours_edge_get_band
D typo-mar	F lmt_contours_edge_get_cell
D typo-ovl	F lmt_contours_edge_paths
D typo-pag	F lmt_contours_edge_set
D typo-par	F lmt_contours_edge_set_by_band
D typo-pnc	F lmt_contours_edge_set_by_cell
D typo-prc	F lmt_contours_format
D typo-rep	F lmt_contours_function
D typo-rub	F lmt_contours_maxmean
D typo-spa	F lmt_contours_maxz
D typo-stc	F lmt_contours_minmean
D typo-sus	F lmt_contours_minz
D typo-syn	F lmt_contours_nofvalues
D typo-tal	F lmt_contours_nx
D typo-wrp	F lmt_contours_ny
D unic-ini	F lmt_contours_range
	F lmt_contours_shade_paths
	F lmt_contours_shade_set
	F lmt_contours_shape_paths
	F lmt_contours_start
	F lmt_contours_stop
	F lmt_contours_value
	F lmt_contours_xrange
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F autoinject	
F boolean	
F bytemap_load_from_file	
F cleaned	
F color	
F dataset	

F lmt_contours_yrange	F mf_map_move
F lmt_function_x	F mf_map_text
F lmt_glyphshape_accent	F mf_named_color
F lmt_glyphshape_baseline	F mf_outline_text
F lmt_glyphshape_boundingbox	F mf_save_data
F lmt_glyphshape_depth	F mf_script_index
F lmt_glyphshape_height	F mf_start_saving_data
F lmt_glyphshape_italic	F mf_stop_saving_data
F lmt_glyphshape_llx	F mode
F lmt_glyphshape_n	F n
F lmt_glyphshape_path	F newbytemap
F lmt_glyphshape_start	F number
F lmt_glyphshape_stop	F numeric
F lmt_glyphshape_usedbox	F pair
F lmt_glyphshape_usedline	F pairpoints
F lmt_glyphshape_width	F path
F lmt_mesh_set	F pathpoints
F lmt_mesh_update	F points
F lmt_poisson_generate	F processbytemap
F lmt_start_potrace	F processingmode
F lmt_step_potrace	F quadruple
F lmt_stop_potrace	F quadruplepoints
F lmt_surface_do	F quoted
F lmt_svg_include	F report
F loadbytemap	F setbytemap
F loadbytemapfile	F setbytemapoctave
F mesh_register	F size
F mf_blob_add	F solve
F mf_blob_dimensions	F string
F mf_blob_index	F systemmode
F mf_blob_new	F transform
F mf_blob_raw_content	F triplet
F mf_blob_raw_dimensions	F tripletpoints
F mf_blob_raw_reset	F vprint
F mf_blob_raw_toutf	<b>mplib</b>
F mf_blob_raw_wipe	F downgradebytemap
F mf_blob_size	F downsamplebytemap
F mf_blob_width	F execute
F mf_external_figure	F expandtex
F mf_finish_saving_data	F fillbytemap
F mf_formatted_text	F finder
F mf_get_outline_text	F finish
F mf_graphic_text	F getbytemap
F mf_inject_blob	F getbytemapdata

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F getcallbackstate  
 F getcodes  
 F getcolormodels  
 F getfields  
 F gethashentries  
 F gethashentry  
 F getinternalactions  
 F getknotstates  
 F getlastadddtype  
 F getlogtargets  
 F getobjectdata  
 F getobjectpeninfo  
 F getobjectstacking  
 F getobjecttypes  
 F getpruneoptions  
 F getresultstatus  
 F getscantypes  
 F getstates  
 F getstatistics  
 F getstatus  
 F gettolerance  
 F gettype  
 F gettypes  
 F injectboolean  
 F injectcmykcolor  
 F injectcolor  
 F injectinteger  
 F injectnumber  
 F injectnumeric  
 F injectpair  
 F injectpath  
 F injectstring  
 F injecttransform  
 F injectvector  
 F injectvectors  
 F injectwhatever  
 F new  
 F newbytemap  
 F peninfo  
 F processbytemap  
 B realltime logging  
 F scanboolean  
 F scancmykcolor  
 F scancolor

F scanexpression  
 F scaninteger  
 F scannext  
 F scannumber  
 F scannumeric  
 F scanpair  
 F scanpath  
 F scanpen  
 F scanproperty  
 F scanstring  
 F scansymbol  
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 F setbytemap  
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 F settolerance  
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 F getmathmode  
 F process  
 F processnested  
 F processouter  
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 F checkdiscretionaries  
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 F copy  
 F copylist  
 F count  
 F currentattributes  
 F dimensions  
 F effectiveglue  
 F endofmath  
 F family\_font  
 F fields  
 F findattribute  
 F flattendiscretionaries  
 F flushlist  
 F flushnode

F free	F subtypes	
F getattribute	F tail	
F getcachestate	F todirect	
F getfield	F tonode	
F getfielderror	F toString	
F getglue	F traverse	
F getnodeerrorvalues	F traverseid	
F getpropertystable	F type	
F getproperty	F types	
F gluetostring	F unprotectglyph	
F hasattribute	F unprotectglyphs	
F hasfield	F unsetattribute	
F hasglyph	F usedlist	
F hpack	F usesfont	
F hyphenating	F vpack	
F id	F write	
F insertafter	<b>nodes</b>	<b>table</b>
F insertbefore	D accentcodes	
F instock	F aligned	
F intracking	F append	
F inuse	F apply	
F isnode	F applyvisuals	
F iszeroglue	F astable	
F kerning	F basepoints	
F lastnode	D boundarycodes	
F length	D choicecodes	
F ligaturing	F concat	
F makeextensible	F copy	
F mlisttohtml	F copy_node	
F new	F copypoint	
F protectglyph	F countall	
F protectglyphs	F currentattributes	
F protrusionskippable	F delete	
F rangedimensions	D dircodes	
F remove	D directioncodes	
F serialized	D directionvalues	
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F setfield	D disccodes	
F setfielderror	D discretionarycodes	
F setglue	D fencecodes	
F setproperty	F fields	
F show	D fillcodes	
F size	D fillvalues	
F slide	F firstdirinbox	

F flush	D mathcodes
F flushlist	D mathvalues
F flushnode	F maxboxwidth
D fractioncodes	F new
F fullhpack	D noadcodes
F getattr	D nodecodes
F getattribute	F nopts
F getboth	F packlist
F getbox	D parcodes
F getchar	D penaltycodes
F getfield	F points
F getfont	F prepend
F getid	F print
F getleader	F pts
F getlist	D radicalcodes
F getnext	F rehpack
F getprev	F remove
F getproperty	F repackhlist
F getsubtype	F replace
D gluecodes	F report
D glyphcodes	F rightmarginwidth
F hasattribute	D rulecodes
F hasfield	F serialize
F hpack	F serializebox
F idsandsubtypes	F serialized
F idstostring	F setattr
F insertafter	F setattribute
F insertbefore	F setattrlist
F insertlistafter	F setboth
F installattributehandler	F setbox
F is_display_math	F setboxtonaturalwd
F isdirect	F setchar
F isnode	F setfield
F isnut	F setfont
D kerncodes	F setleader
F leftmarginwidth	F setlink
F link	F setlist
F linked	F setnext
F list	F setprev
D listcodes	F setproperty
F listtoutf	F showboxes
D literalvalues	F showlist
F locate	F showsimplelist
D markcodes	D skipcodes

F somepenalty		D dimenfactors	
F somespace		F formatted	
F splitbox		F formattedfloat	
F startofpar		F fractiontobyte	
F stripdiscretionaries		F idiv	
D subtypes		N maxdimen	
F tail		F nopts	
F takeattr		F nubasepoints	
F takebox		F nupoints	
F tobasepoints		F percent	
F tocentimeters		F points	
F tociceros		F pts	
F todidots		F signed	
F todimen		F sparseexponent	
F toinches		F splitdimen	
F tomillimeters		F tol6dot16	
F tonode		F tobasepoints	
F tonodes		F tobitstring	
F tonut		F tocentimeters	
F topicas		F tociceros	
F topoints		F tocontext	
F toscaledpoints		F todidots	
F tosequence		F todimen	
F tostring		F toediths	
F totable		F toevenhex	
F totree		F toinches	
F toutf		F tomillimeters	
F traverse		F tonumberf	
F traverseid		F tonumberg	
F unsetattribute		F topicas	
F upcomingproperties		F topoints	
F usedlist		F toscaled	
F vianodes		F toscaledpoints	
F vianuts		F totoves	
F visualizebox		F valid	
F vpack		<b>objects</b>	<b>table</b>
D whatsitcodes		F dimensions	
F write		F found	
<b>number</b>	<b>table</b>	N n	
F %		F page	
F basepoints		F reference	
F bytetodecimal		F register	
F compactfloat		F restore	
F decimaltobyte		<b>optional</b>	<b>table</b>



**optionalrequire****os**

F \_\_getenv\_\_  
 F \_\_setenv\_\_  
 S binsuffix  
 N bits  
 F clock  
 F converttime  
 F date  
 F difftime  
 F enableansi  
 D env  
 F execute  
 F exit  
 F fulltime  
 F getcodepage  
 F getenv  
 F getnamevalues  
 F gettimeofday  
 F gettypevalues  
 F getunamfields  
 F isleapyear  
 F launch  
 S libsuffix  
 F localtime  
 S name  
 S newline  
 F nofdays  
 F now  
 F pipeto  
 S platform  
 F remove  
 F rename  
 F resultof  
 F runtime  
 S selfbin  
 S selfcore  
 S selfdir  
 S selflink  
 S selfname  
 S selfpath  
 F serialwrite  
 F setenv  
 F setexitcode

**function**  
**table**

F setlocale  
 F sleep  
 F startuptime  
 F time  
 F timezone  
 F tmpname  
 F today  
 S type  
 F unname  
 F uuid  
 F validate  
 F weekday  
 F where  
 F which

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S config  
 S cpath  
 F extralibpath  
 F extralibpaths  
 F extraluapath  
 F extraluapaths  
 F libpaths  
 F loadlib  
 F luapaths  
 S path  
 F poplibpath  
 F popluapath  
 F pushlibpath  
 F pushluapath  
 F searchpath

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F immediateobj

**pdfdecode****pdfe**

F arraytotable  
 F close  
 F closestream  
 F dictionarytotable  
 F getarray  
 F getboolean

**table****function****table****function****table****table****table**

F getbox  
 F getcatalog  
 F getdictionary  
 F getencodingvalues  
 F getfieldtypes  
 F getfromarray  
 F getfromdictionary  
 F getfromobject  
 F getfromreference  
 F getfromstream  
 F getinfo  
 F getinteger  
 F getmemoryusage  
 F getname  
 F getnofobjects  
 F getnofpages  
 F getnumber  
 F getobjectrange  
 F getpage  
 F getpages  
 F getpermissions  
 F getsize  
 F getstatus  
 F getstatusvalues  
 F getstream  
 F getstring  
 F gettrailer  
 F getversion  
 F new  
 F open  
 F openfile  
 F openstream  
 F pagestotable  
 F readfromstream  
 F readwholestream  
 F type  
 F unencrypt

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F applyfilter  
 F expand  
 F interlace  
 F makemask  
 F reduce

F splitmask  
 F tocmyk  
 F tomask

**posit**                                    table

F NaN  
 F NaR  
 F \_\_add  
 F \_\_band  
 F \_\_bor  
 F \_\_bxor  
 F \_\_div  
 F \_\_eq  
 F \_\_le  
 F \_\_lt  
 F \_\_mul  
 S \_\_name  
 F \_\_pow  
 F \_\_shl  
 F \_\_shr  
 F \_\_sub  
 F \_\_tostring  
 F \_\_unm  
 F abs  
 F acos  
 F asin  
 F atan  
 F band  
 F bor  
 F bxor  
 F ceil  
 F conj  
 F copy  
 F cos  
 F exp  
 F exp2  
 F expand  
 F floor  
 F frombyte  
 F fromchar  
 F fromposit  
 F integer  
 F log  
 F log10  
 F log1p

F log2  
F logb  
F max  
F min  
F modf  
F new  
F pow  
F rotate  
F round  
F rounded  
F shift  
F sin  
F sqrt  
F tan  
F tobyte  
F tochar  
F tonumber  
F toposit  
F toString

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table

F checked  
F concat  
F contourplot  
F convert  
F count  
F flush  
F free  
F fromfile  
F getbitmap  
F getnewfields  
F getpolicyvalues  
F getprocessfields  
F new  
F process  
F setbitmap  
F stripped  
F totable  
F trace

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function

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F addtentry  
F analyze  
F anywhere  
D authorcache

D authorcollapsers  
D authormap  
F authorregister  
F checkeddataset  
D collected  
F concatstate  
F converttoxml  
F endnotes\_to\_btx  
F finder  
F firstofrange  
F found  
F get  
F getcasted  
F getdetail  
F getdirect  
F getfaster  
F getfield  
F getfuzzy  
F getindex  
D inspectors  
F lastofrange  
F load  
F loadbibdata  
F loaddefinitionfile  
F loadreplacementfile  
F new  
F okay  
F oneorrange  
F parenttag  
F permitted  
F prerollcmdstring  
F refman\_to\_btx  
F resolvedname  
F save  
F search  
F setcategory  
F setspecification  
F singularorplural  
F sortedentries  
F splitauthor  
F splitoneauthor  
F tags  
F usedataset  
F usedentries

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F bitmap		F expandedpathlist
F generate		F expandedpathlistfromvariable
<b>rawequal</b>	function	F expandpath
<b>rawget</b>	function	F expandpathfromvariable
<b>rawlen</b>	function	F expansion
<b>rawset</b>	function	F extendtexmfvariable
<b>regimes</b>	table	F filtered_from_content
D backmapping		F find_file
F cleanup		F find_files
F disable		F findbinfile
F enable		F findctxfile
F fromregime		D finders
F list		F findfile
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F pop		F findgivenfile
F process		F findgivenfiles
F push		F findlib
F toregime		F findpath
F translate		F findpk
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F allprefixes		F findwildcardfiles
F appendhash		F formatofsuffix
F automount		F formatofvariable
F booleanvariable		D formats
S cacheversion		F foundintree
F checkedvariable		F foundintrees
F cleanedpathlist		D generators
D cleaners		F get_from_content
F cleanpath		F getenv
F cleanpathlist		F getextrapaths
F cleanupbinfile		F getfilehashes
D concatenators		F gethashes
S configbanner		F getownpath
F configurationfiles		F getreadfilename
D dangerous		D hashers
F datastate		S homedir
F dirstatus		F ignorelibrary
F dowithfilesandreport		F initialized
F dowithfilesintree		F installinputfilehandler
F dowithpath		F installinputlinehandler
F dowithvariable		F jobpath
F expandbraces		F joinpath

F knownvariables	F scandata
F load	F scanfiles
F loadbinfile	F setdynamic
D loaders	F setenv
F loadluaLib	F showpath
F loadtexfile	F simplescanfiles
F loadtime	F splitconfigurationpath
F locateformat	F splitexpansions
D locators	F splitmethod
S luacnffallback	F splitpath
S luacnfname	F stackpath
S luacnfspec	F starttiming
S luacnfstate	F stoptiming
N maxreadlevel	D suffixes
F methodhandler	D suffixmap
F missinglibrary	F suffixofformat
F openbinfile	F texdatablob
D openers	F toppath
F openfile	D tracers
F opentexfile	F unexpandedpath
S ownpath	F unexpandedpathlist
F popextrapath	F unresolve
F popinputname	F updaterelations
F poppath	F updatescript
D prefixes	F uselibrary
F prependhash	D usertypes
F pushextrapath	F usezipfile
F pushinputname	F validatedatedpath
F pushpath	F variable
F registerextrapath	F variableofformat
F registerfile	F variableofformatorsuffix
F registerfilehash	F wildcardpattern
F registerintrees	<b>sandbox</b>
F registermethod	F blockrequire
F registerzipfile	F disablelibraries
D relations	F disablerunners
F renew	F enable
F renewcache	F filehandlerone
F repath	F filehandlertwo
F reset	F finalizer
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F resetresolve	F initializer
F resolve	F iohandler
D savers	F logcalls
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- F logfiles
- F original
- F overload
- F possiblepath
- F redefine
- F register
- F registerbinary
- F registerlibrary
- F registerroot
- F registerrunner
- F report
- F setfilenamelogger
- F setlogger
- F setreporter
- F settrace
- F validfilename

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- D colors
- F decomposehangu
- F getdata
- F getinjector
- F getsplitter
- F getstatus
- D handlers
- D helpers
- D injectors
- F installdataset
- F installmethod
- D numbertodataset
- D numbertohandler
- F reset
- F set
- F setstatus
- D splitters

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- F \_\_gc
- S \_\_name
- F \_\_tostring
- F close
- F open
- F send
- F tostring
- F write

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- F contains
- F create
- F tolist
- F tonumber
- F totable

**setinspector**

function

**setmathparameters**

function

**setmetatable**

function

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- F HASH256
- F HASH384
- F HASH512
- F HEX256
- F HEX384
- F HEX512
- F digest256
- F digest384
- F digest512
- F hash256
- F hash384
- F hash512
- F hex256
- F hex384
- F hex512
- F sum256
- F sum384
- F sum512

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- F read2dot14
- F readbytes
- F readbytetable
- F readcardinal1
- F readcardinal1le
- F readcardinal2
- F readcardinal2le
- F readcardinal3
- F readcardinal3le
- F readcardinal4
- F readcardinal4le
- F readcardinaltable
- F readcline
- F readcstring
- F readfixed2

F readfixed4  
F readinteger1  
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F readinteger2  
F readinteger2le  
F readinteger3  
F readinteger3le  
F readinteger4  
F readinteger4le  
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F tocardinal1  
F tocardinal1le  
F tocardinal2  
F tocardinal2le  
F tocardinal3  
F tocardinal3le  
F tocardinal4  
F tocardinal4le

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N BLOCKSIZE  
N SETSIZE  
N\_SOCKETINVALID  
F bind  
F choose  
F connect  
F connect4  
F connect6  
F gettime  
F newtry  
F protect  
F report  
F select  
F sink  
F skip  
F sleep  
F source  
F tcp  
F tcp4  
F tcp6  
F try

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F basicsorter  
D definitions  
F firstofsplit

F packch  
F packuc  
F replacementlist  
F setlanguage  
F sort  
F strip  
D tracers  
F update

**sparse** table

F concat  
F get  
F max  
F min  
F new  
F range  
F restore  
F set  
F traverse  
F wipe

**statistics** table

F benchmarktimer  
F checkfmtstatus  
F currenttime  
F elapsed  
F elapsedindeed  
F elapsedseconds  
F elapsedtime  
B enable  
F formatruntime  
F hastiming  
F memused  
F register  
F resettiming  
F runtime  
F savefmtstatus  
F show  
F showmemory  
F showusage  
F starttiming  
F stoptiming  
N threshold  
F timed  
F tracefunction

**status** table

F getbalancestate		B strip	
F getbufferstate		N tofmodules	
F getcallbackstate		N toftables	
F getconstants		<b>streams</b>	table
F geterrorlinestate		F collect	
F geterrorstate		F disable	
F getexpandstate		F enable	
F getfilestate		F flush	
F getfontstate		F initialize	
F gethalferrorlinestate		F push	
F gethashstate		F start	
F gethyphenationstate		F stop	
F getinputstate		F synchronize	
F getinsertstate		<b>string</b>	table
F getlanguagestate		F autodouble	
F getlinebreakstate		F autosingle	
F getlookupstate		F booleanstring	
F getluastate		F byte	
F getmarkstate		F bytepairs	
F getmvlstate		F bytes	
F getneststate		F bytetable	
F getnodestate		F char	
F getparameterstate		F characterpairs	
F getpoolstate		F characters	
F getreadstate		F checkedsplit	
F getsavestate		F chrtointeger	
F getsparsestate		F collapsespaces	
F getstringstate		F containsws	
F gettexstate		F count	
F gettokenstate		F dectointeger	
F getwarningstate		F dump	
F list		F escapedpattern	
F resetmessages		F escapedquotes	
<b>storage</b>	table	F f6	
F allocate		F find	
F mark		F format	
F marked		F formatter	
N max		D formatters	
N min		F fullstrip	
N nofmodules		F gmatch	
N noftables		F gsub	
F register		F hextocharacters	
D shared		F hextointeger	
D storedfunctions		F is_boolean	



F is_empty	F unescapedquotes
F itself	F unpack
F len	F unquote
F limit	F unquoted
F linetable	F upper
F longtostring	F utf16toutf8
F lower	F utfcharacter
F match	F utfcharacters
F nospaces	F utfcharacteretable
F octtointeger	F utflength
F optionalquoted	F utfpadd
F pack	F utfpadding
F packrowscolumns	F utftabletostring
F packsize	F utfvalue
F quote	F utfvalues
F quoted	F utfvaluetable
F rep	F valid
F replacenewlines	F wordsplitter
F reverse	<b>structures</b> table
F split	F allocation
F splitintolines	F currentsectionnumber
F splitlines	<b>table</b> table
F splitup	F append
F strip	F are_equal
F sub	F combine
F texhashed	F compact
F texnewlines	F concat
F tformat	F contains
F toHEX	F copy
F toboolean	F count
F tobytes	F create
F tocontext	F derive
F todec	F deserialize
F todimen	F fastcopy
F tohex	F fastserialize
F tonodes	F filtered
F topattern	F flattened
F totable	F fromhash
F tunicode16	F getn
F toutf	F has_one_entry
F toutf16	F hashed
F toutf32	F identical
F toutf8	F imerge
F tracedchar	F imerged

F insert  
F is\_empty  
F is\_simple\_table  
F keys  
F load  
F loweredkeys  
F makeweb  
F merge  
F merged  
F mirrored  
F move  
F pack  
F prepend  
F print  
F remove  
F reverse  
F reversed  
F save  
F sequenced  
F serialize  
F setmetatablecall  
F setmetatableindex  
F setmetatableindices  
F setmetatablenewindex  
F sort  
F sorted  
F sortedhash  
F sortedhashkeys  
F sortedhashonly  
F sortedindexonly  
F sortedkeys  
F sortedpairs  
F sparse  
F strip  
F sub  
F swapped  
F tocontext  
F tocsv  
F tofile  
F tohandle  
F tohash  
F toxml  
F unique  
F unpack

## tex

F attributetracking  
D automigrationcodes  
D autoparagraphcodes  
F badness  
D badnessmodecodes  
F balance  
D balancecallbackcodes  
D boxoptioncodes  
D breakcodes  
D buildcodes  
D charactercontrolcodes  
D charactertagcodes  
F chardef  
D classoptioncodes  
D conditionals  
D constants  
F cprint  
N ctdcatcodes  
N ctxcatcodes  
F definefont  
F dimensiondef  
D directioncodes  
D directives  
D discoptioncodes  
D discpartcodes  
F dontcomplain  
D doublescriptoptioncodes  
F enableprimitives  
F error  
F expandasvalue  
D experiments  
F extraprimitives  
F fatalerror  
D fillcodes  
D flagcodes  
F fontidentifier  
F fontname  
F forcehmode  
F forceinputstatefile  
F forceinputstateline  
F fprint  
D frozenparcodes  
F get

## table

F getadjustoptionvalues	F getglueoptionvalues
F getalignmentcontextvalues	F getglyphdata
F getamcode	F getglyphdiscvalues
F getappendadjustcontextvalues	F getglyphoptionvalues
F getappendmigratecontextvalues	F getglyphprotectionvalues
F getattribute	F getglyphscales
F getautomigrationvalues	F getglyphscript
F getautoparagraphvalues	F getglyphstate
F getbadnessmodevalues	F getgroupvalues
F getbalancecallbackvalues	F gethccode
F getbalanceparameterfields	F gethelptext
F getbalanceresultfields	F gethmcode
F getbalancestepoptionvalues	F gethyphenationvalues
F getbox	F getiftypes
F getboxdir	F getinputstatefile
F getboxoptionvalues	F getinputstateline
F getboxresourcebox	F getinputstatemode
F getboxresourcedimensions	F getinsertcontent
F getbreakcontextvalues	F getinsertdepth
F getbuildcontextvalues	F getinsertdistance
F getcardinalvalue	F getinsertheight
F getcatcode	F getinsertlimit
F getcccode	F getinsertmultiplier
F getcharactercontrolvalues	F getinsertwidth
F getcharacteretagvalues	F getintegervalue
F getcount	F getinteraction
F getcurrentmvl	F getinteractionmodes
F getdelcode	F getiovalues
F getdelcodes	F getkerneloptionvalues
F getdimen	F getkernoptionvalues
F getdimensionvalue	F getlargestusedmark
F getdirectionvalues	F getllcode
F getdiscoptionvalues	F getlinebreakparameterfields
F getdiscpartvalues	F getlinebreakresultfields
F getdoublescriptoptionvalues	F getlinebreakstatevalues
F getemptyparagraphmodevalues	F getlinedir
F geterrorvalues	F getlist
F getfillvalues	F getlistanchorvalues
F getflagvalues	F getlistfields
F getfloat	F getlistgeometryvalues
F getfontdimension	F getlistsignvalues
F getfontoffamily	F getlocalbox
F getfrozenparvalues	F getlocalboxlocations
F getglue	F getlocallevel

F getmark	F getparstatefields
F getmarknames	F getpartriggervalues
F getmath	F getpenaltyoptionvalues
F getmathclassoptionvalues	F getpositivalue
F getmathcode	F getprepoststatevalues
F getmathcodes	F getprimitivelegacies
F getmathcontrolvalues	F getprimitiveorigins
F getmathdir	F getprotrusionboundaryvalues
F getmathgluevalues	F getregisterindex
F getmathoptionvalues	F getruleoptionvalues
F getmathparametervalues	F getrunstate
F getmathscriptordervalues	F getrunstatevalues
F getmathscriptsmodevalues	F getsfcode
F getmathstylenamevalues	F getshapingpenaltiesvalues
F getmathstylevalues	F getskip
F getmathstylevariant	F getsnappingvalues
F getmathsurroundvalues	F getspecialmathclassvalues
F getmathvariantpresets	F getspecification
F getmathvariantvalues	F getspecificationoptionvalues
F getmeasure	F gettextcontrolvalues
F getmissingcharactervalues	F gettextdir
F getmode	F gettoks
F getmodevalues	F getuccode
F getmuglue	F getuleaderlocationvalues
F getmuskip	F getunitclassvalues
F getmvloptionvalues	F getusedmarks
F getnest	F getvsplitcontextvalues
F getnestfields	D glueoptioncodes
F getnestlevel	D glyphdiscodes
F getnoadooptionvalues	D glyphoptioncodes
F getnormalizelinevalues	D groupcodes
F getnormalizeparvalues	F hashtokens
F getoutputactive	N hshcatcodes
F getpacktypevalues	D hyphenationcodes
F getpagecontextvalues	D ifs
F getpagestate	N inicatcodes
F getpagestatevalues	F integerdef
F getparagraphoptionvalues	D interactioncodes
F getparametermodevalues	F isattribute
F getparcontextvalues	F isbox
F getpardataspecifications	F iscount
F getpardir	F isdefined
F getparmodevalues	F isdimen
F getparstate	F isfloat

F isglue	F resetparagraph
F ismuglue	N rlnatcodes
F ismuskip	F romannumeral
F isprintable	F round
F isskip	D ruleoptioncodes
F istoks	F runlocal
F lastnodetype	D runstatecodes
F linebreak	F runstring
D linebreakstatecodes	F runtoks
D listanchorcodes	F saveboxresource
D listgeometrycodes	F scale
D listsigncodes	F scantoks
N luacatcodes	F set
F mathchardef	F setamcode
D mathcontrolcodes	F setattribute
D mathoptioncodes	F setbalanceshape
D mathparametercodes	F setbox
D mathscriptordercodes	F setboxdir
D mathscriptsmodecodes	F setcardinalvalue
D modes	F setcatcode
F mprint	F setcccode
D mvloptioncodes	F setconditional
N nilcatcodes	F setcount
D noadooptioncodes	F setdelcode
D normalizelinecodes	F setdimen
D normalizeparcodes	F setdimensionvalue
N notcatcodes	F setfloat
F number	F setglue
F overloadpermitted	F setglyphdata
D parcontextcodes	F setglyphscript
D partriggercodes	F setglyphstate
D penaltyoptioncodes	F sethccode
F poplocal	F sethmcode
F popsavelevel	F setinputstatefile
F positdef	F setinputstateline
F preparelinebreak	F setinputstatemode
F primitives	F setinsertcontent
F print	F setinsertdistance
D protrusionboundarycodes	F setinsertlimit
N prtcatcodes	F setinsertmultiplier
F pushlocal	F setintegervalue
F pushsavelevel	F setinteraction
F quitlocal	F setlccode
F quittoks	F setlinedir

F setlist	D userdiscoptioncodes	
F setlocalbox	D userglyphoptioncodes	
F setmath	N vrbcatcodes	
F setmathcode	F write	
F setmathdir	<b>texconditionals</b>	data table
F setmuglue	<b>texconfig</b>	table
F setmuskip	S firstline	
F setnest	S formatname	
F setpardir	N functionsize	
F setpositvalue	F init	
F setrunstate	B kpse_init	
F setsfcode	N propertiessize	
F setskip	S shell_escape	
F settexdir	<b>texconstants</b>	data table
F settoks	<b>texifs</b>	data table
F setuccode	<b>texio</b>	table
D shapingpenaltiescodes	F closeinput	
F shiftparshape	F forceendoffile	
F shipout	F getinputindex	
F showcontext	F getselectorvalues	
D snappingcodes	F getsourcefilename	
F snapshotpar	F setlogfile	
F sp	F terminal	
D specialmathclasscodes	F write	
D specificationoptioncodes	F write_nl	
F splitbox	F writenl	
D splitcodes	F writeselector	
F sprint	F writeselectorlf	
F stringtocodesbitmap	F writeselectornl	
D systemmodes	<b>texisdefined</b>	data table
F takebox	<b>texmodes</b>	data table
N texcatcodes	<b>texsystemmodes</b>	data table
D textcontrolcodes	<b>thirddata</b>	table
F tonumber	<b>toboolean</b>	function
F toscaled	<b>todecimal</b>	function
N tpcatcodes	<b>token</b>	table
N tpbcacodes	F create	
F tprint	F expand	
F trackedattribute	F expand_macro	
D trackers	F expandmacro	
F triggerbuildpage	F future_expand	
N txtcatcodes	F futureexpand	
F uprint	F get_active	
F useboxresource	F get_cmdchrcs	

F get_cmdname	F getlength
F get_command	F getmacro
F get_csname	F getmeaning
F get_cstoken	F getnoaligned
F get_dimension	F getparameters
F get_expandable	F getpermanent
F get_fields	F getprimitive
F get_flags	F getprimitives
F get_frozen	F getprotected
F get_id	F getrange
F get_immutable	F gettok
F get_index	F gettolerant
F get_instance	F gobble
F get_integer	F gobble_dimension
F get_macro	F gobble_integer
F get_meaning	F gobbledimension
F get_noaligned	F gobbleinteger
F get_parameters	F grab
F get_permanent	F grabstring
F get_primitive	F inhibit
F get_protected	F is_defined
F get_range	F is_next_char
F get_tok	F is_token
F get_tolerant	F isactivestring
F getactive	F isdefined
F getcmdchrsc	F isnextchar
F getcmdname	F istoken
F getcommand	F locatemacro
F getcommandvalues	F new
F getconstant	F peek_next
F getcsname	F peek_next_char
F getcstoken	F peek_next_expanded
F getdimension	F peeknext
F getexpandable	F peeknextchar
F getexpansion	F peeknextexpanded
F getfields	F pop_macro
F getflags	F popmacro
F getfrozen	F push_macro
F getfunctionvalues	F pushmacro
F getid	F put_back
F getimmutable	F put_next
F getindex	F putback
F getinstance	F putnext
F getinteger	F save_lua

F save_lua	F scandetokened
F scan_argument	F scandimen
F scan_box	F scandimenargument
F scan_cardinal	F scandimension
F scan_char	F scandimensionargument
F scan_cmdchr	F scanfloat
F scan_cmdchr_expanded	F scanglue
F scan_code	F scanint
F scan_csname	F scaninteger
F scan_delimited	F scanintegerargument
F scan_dimen	F scankey
F scan_float	F scankeyword
F scan_glue	F scankeywordcs
F scan_integer	F scanletters
F scan_key	F scanluacardinal
F scan_keyword	F scanluainteger
F scan_keyword_cs	F scanluanumber
F scan_letters	F scannext
F scan_luacardinal	F scannextchar
F scan_luainteger	F scannextexpanded
F scan_luanumber	F scanposit
F scan_next	F scanreal
F scan_next_char	F scanscale
F scan_next_expanded	F scanskip
F scan_real	F scanstring
F scan_scale	F scantoken
F scan_skip	F scantokencode
F scan_string	F scantokenlist
F scan_token	F scantokenstring
F scan_token_code	F scantoks
F scan_tokenlist	F scanvalue
F scan_toks	F scanword
F scan_value	F serialize
F scan_word	F set_dimension
F scanargument	F set_integer
F scanbox	F set_lua
F scancardinal	F set_macro
F scanchar	F setdimension
F scancmdchr	F setinteger
F scancmdchrexpanded	F setlua
F scancode	F setmacro
F scancsname	F setmacrofrommark
F scancstoken	F setmacrotonothing
F scandelimited	F skip_next



F skip_next_expanded		F show	
F skipnext		F value	
F skipnextexpanded		F values	
F type		<b>type</b>	function
F undefine_macro		<b>typesetters</b>	table
F undefinemacro		F marksuspects	
<b>tokens</b>	table	F showinvisibles	
F astable		F showsuspects	
D cache		<b>unpack</b>	function
D commands		<b>updaters</b>	table
F compile		F apply	
F constant		F register	
F create		<b>url</b>	table
F defined		F addscheme	
F flags		F barepath	
F getinteger		F construct	
F gobble		F decode	
F isactivestring		F encode	
F isdefined		F escape	
F istoken		F filename	
F new		F hashed	
F pickup		F hasscheme	
F popmacro		F query	
F pushmacro		F split	
F setinteger		F toquery	
D values		F unescape	
<b>tonumber</b>	function	F unescapepet	
<b>tostring</b>	function	<b>userdata</b>	table
<b>tracers</b>	table	<b>utf</b>	table
F printerror		F byte	
F printwarning		F bytepairs	
F showlines		F char	
<b>trackers</b>	table	F characters	
D data		F chrln	
F default		F count	
F disable		F filetype	
F dumphashtofile		F is_valid	
F enable		F len	
F list		F length	
S name		F lower	
F register		F remapper	
F report		F replacer	
F reset		F split	
F savehash		F splitlines	

F sub	F determinant
F substituter	F div
F tocodes	F equal
F toeight	F exchange
F toentities	F floor
F tostring	F get
F totable	F getdimensions
F upper	F getepsilon
F ustring	F getmesh
F utf16_to_utf8_be	F getrc
F utf16_to_utf8_be_t	F getrow
F utf16_to_utf8_le	F getstacking
F utf16_to_utf8_le_t	F gettype
F utf16_to_utf8_t	F homogenize
F utf32_to_utf8_be	F identity
F utf32_to_utf8_be_t	F inner
F utf32_to_utf8_le	F insert
F utf32_to_utf8_le_t	F inverse
F utf32_to_utf8_t	F ismesh
F utf8_to_utf16	F issingular
F utf8_to_utf16_be	F isvector
F utf8_to_utf16_le	F iszero
F utf8_to_utf8_t	F meshname
F values	F mul
F xstring	F negate
<b>utf8</b>	F new
	F normalize
F char	F onecolumn
S charpattern	F onerow
F codepoint	F product
F codes	F remove
F len	F replace
F offset	F round
<b>utilities</b>	F rowechelon
	F set
<b>vector</b>	F setepsilon
	F setnext
F add	F setrc
F append	F setstacking
F average	F slice
F ceiling	F sort
F checkoverlap	F sub
F collectoverlap	F swap
F concat	F tostring
F copy	
F crossproduct	
F delete	

F totable  
F transpose  
F triangulate  
F truncate  
F type  
**visualizers**            table

D escapepatterns  
F getspecification  
F getvisualizer  
F load  
F makenested  
F makepattern  
F newgrammar  
F newhandler  
F parsedxml  
F pattern  
F register  
F registerescapecommand  
F registerescapepline  
F registerescapepattern  
S signal  
U signalpattern  
D specifications  
F visualize  
F visualizebuffer  
F visualizefile  
F visualizestring  
F write  
F writeargument  
F writedefault  
F writeemptyline  
F writenewline  
F writespace

**warn**                    function  
**xcomplex**                table

F I  
F \_\_add  
F \_\_div  
F \_\_eq  
F \_\_mul  
S \_\_name  
F \_\_pow  
F \_\_sub  
F \_\_tostring

F \_\_unm  
F abs  
F acos  
F acosh  
F arg  
F asin  
F asinh  
F atan  
F atanh  
F conj  
F cos  
F cosh  
F dawson  
F erf  
F erfc  
F erfcx  
F erfi  
F exp  
F i  
F imag  
F log  
F new  
F pow  
F proj  
F real  
F sin  
F sinh  
F sqrt  
F tan  
F tanh  
F topair  
F toString  
F totable  
F voigt  
F voigt\_hwhm

**xdecimal**                table

F \_\_add  
F \_\_band  
F \_\_bor  
F \_\_bxor  
F \_\_div  
F \_\_eq  
F \_\_idiv  
F \_\_le

F __lt	F copysign
F __mod	F cos
F __mul	F cosh
S __name	F deg
F __pow	F erf
F __shl	F erfc
F __shr	F exp
F __sub	F exp2
F __tostring	F expm1
F __unm	F fabs
F abs	F fdim
F band	F floor
F bor	F fma
F bxor	F fmax
F conj	F fmin
F copy	F fmod
F exp	F frexp
F getprecision	F gamma
F ln	F hypot
F log	N inf
F max	F isfinite
F min	F isinf
F minus	F isnan
F new	F isnormal
F plus	F j0
F pow	F j1
F rotate	F jn
F setprecision	F ldexp
F shift	F lgamma
F sqrt	F log
F toengstring	F log10
F tonumber	F log1p
F tostring	F log2
F trim	F logb
<b>xmath</b>	F modf
	N nan
F acos	F nearbyint
F acosh	F nextafter
F asin	N pi
F asinh	F pow
F atan	F rad
F atan2	F remainder
F atanh	F remquo
F cbrt	F round
F ceil	

**xmath**                      table

F scalbn	F delete
F sin	F delete_element
F sinh	F despecialized
F sqrt	F each
F tan	F each_element
F tanh	F elements
F tgamma	F elementtocdata
F trunc	F empty
F y0	D entities
F y1	F erase
F yn	F errorhandler
<b>xml</b>	F escaped
	F expand
F addentitiesdoctype	F fillin
F addspecialcode	F filter
F after	F first
F all	F found
F applylpath	F getbuffer
F applyselector	F gethandlers
F assign	F gethandlersfunction
F attribute	F include
F badinclusions	F inclusion
F before	F inclusions
F body	F index
F cdata	F inheritattributes
F cdatatotext	F inheritedconvert
F checkbom	F inject
F checkedempty	F inject_element
F checkerror	F inject_element_after
F checknamespace	F inject_element_before
F checkns	F injectafter
F cleansed	F injectbefore
F collect	F insert
F collect_elements	F insert_element
F collect_tags	F insert_element_after
F collect_texts	F insert_element_before
F collected	F insertafter
F collecttexts	F insertbefore
F compactelement	F insertcdata
F content	F insertcomment
F convert	F inspect
F copy	F is_valid
F count	F kind
F cprint	F last
S defaultprotocol	
table	

F lastmatch	F selection	
F load	F separate	
F lpath	F serialize	
F lpathcached	F serializetotext	
F lpathcalls	F setcdata	
F lshow	F setcomment	
F makestandalone	F sethandlersfunction	
F match	F setinjectors	
F name	F setproperty	
F newhandlers	F settings	
F nodesettostring	D specialcodes	
F originalload	F sprint	
F package	F string	
F parent	F strip	
U parsedentitylpeg	F strip_whitespace	
F popmatch	F stripelement	
F position	F stripleadingspaces	
D privatecodes	F table	
F privatetoken	F text	
F process	F textonly	
F process_attributes	F texttocdata	
F process_elements	F tocdata	
F processattributes	F toelement	
F pure	F tostring	
F pushmatch	F totable	
F raw	F toxml	
F registerentity	F tprint	
F registers	F traverse	
F reindex	F unescaped	
F remap_name	U unescapedentitylpeg	
F remap_namespace	F unprivatized	
F remap_tag	F unspecialized	
F remapname	F wipe	
F remapnamespace	F withelement	
F remaptag	F withelements	
F rename	F wrap	
F renamespace	<b>xpcall</b>	function
U reparsedentitylpeg	<b>xzip</b>	table
F replace	F adler32	
F replace_element	F compress	
F resetinjectors	F compresssize	
F resolvens	F crc32	
F root	F decompress	
F save	F decompresssize	

<b>zip</b>	table	F compress
F closearchive		F compresssize
F openarchive		F crc32
<b>zlib</b>	table	F decompress
F adler32		F decompresssize

# globals (context)

**CONTEXTLMTXMODE** number  
**LUAFORMAT** number  
**LUAMAJORVERSION** number  
**LUAMINORVERSION** number  
**LUATEXENGINE** string  
**LUATEXFORMATID** number  
**LUATEXFUNCTIONALITY** number  
**LUATEXVERBOSE** string  
**LUATEXVERSION** number  
**LUAVERSION** number  
**MP** function  
**SAVEDREQUIRE** function  
**aes** table  
    F decode  
    F encode  
    F random  
**arg** table  
**assert** function  
**attributes** table  
    F applyoverloads  
    F checkvalues  
    D counts  
    F define  
    F getvalue  
    F getvalues  
    F hasvalues  
    D list  
    F markasoverload  
    D names  
    D numbers  
    F ofnode  
    F private  
    F public  
    F registervalue  
    F restore  
    F save  
    F setcleaner  
    F showcurrent  
    F system  
    F tooverloads  
    N unsetvalue

D values  
**backends** table  
    F closeout  
    S current  
    F getcallbackstate  
    F initialize  
    F latelua  
    F nothing  
    F openout  
    F setencryption  
    F writeout  
**basexx** table  
    F decode16  
    F decode64  
    F decode85  
    F decodeLZW  
    F decodeRL  
    F encode16  
    F encode64  
    F encode85  
    F encodeLZW  
    F encodeRL  
**bbttx** table  
**bit32** table  
    F arshift  
    F band  
    F bnot  
    F bor  
    F btest  
    F bxor  
    F extract  
    F lrotate  
    F lshift  
    F replace  
    F rrotate  
    F rshift  
**blobs** table  
    F append  
    F dimensions  
    F dispose  
    F new



F pack		F downgrade
F strdp		F downsample
F strhd		F getbyte
F strht		F getbytes
F strwd		F getvalue
F tohpack		F hasbytegray
F tonodes		F hasbyterange
F tovpack		F hasbytergb
F write		F new
<b>boolean</b>	table	F newdomain
F tocontext		F process
F tonumber		F reduce
<b>buffers</b>	table	F reset
F append		F setgray
F assign		F setgrayadd
F collectcontent		F setgraymin
F empty		F setrgb
F erase		F slicegray
F exists		F slicerange
F get		F slicergb
F getcontent		<b>caches</b>
F getctxlua		S base
F getlines		F collapsecontent
F getmkvi		F configfiles
F gettex		F contentstate
F loadcontent		F getfirstreadablefile
F prepend		F getreadablepaths
F raw		F getwritablepath
F run		F hashed
F samplefile		F is_writable
F splitsamplefile		F loadcontent
F undent		F loaddata
<b>builders</b>	table	S more
F checkparcontext		F savecontent
F checksidefloat		F savedata
F parpassidentifier		F setfirstwritablefile
D passnames		F setluanames
F registerpaspasscallback		F treehash
<b>bytemap</b>	table	F usedpaths
F bounds		<b>callback</b>
F clip		F find
F copy		F getindex
F dimensions		F getoptions
F domain		F getoptionvalues

F getstate  
F getstatevalues  
F known  
F list  
F names  
F register  
F setoptions  
F setstate  
F testonly  
F usage

**callbacks** table

F freeze  
F getcomment  
F getstates  
F known  
F optimizer  
F pop  
F push  
F register  
F report

**catcodes** table

D names  
D numbers  
F register

**characters** table

F addcharacternames  
F adobename  
D bidi  
F blockrange  
D blocks  
D can\_have\_space  
D categories  
F category  
D categorytags  
D collapsed  
D combined  
F contextname  
D csletters  
D data  
D decomposed  
F description  
D descriptions  
D detailtags  
F emojiized

D encodes  
D entities  
D fallbacks  
D filters  
F fromnumber  
D fschars  
D fscodes  
F getrange  
D graphemes  
D hangul  
F initialize  
D is\_character  
D is\_command  
D is\_hyphenator  
D is\_letter  
D is\_mark  
D is\_nothing  
D is\_punctuation  
D is\_spacing  
D is\_symbol  
D lcchars  
F lccode  
D lccodes  
F lettered  
D lhash  
D linebreaks  
F lower  
D mathlists  
D otfscripts  
D ranges  
F registerentities  
F remap\_hangul\_syllabe  
F setactivecatcodes  
F setlettercatcodes  
F setothercatcodes  
F shape  
F shaped  
D shash  
D shchars  
D shcodes  
F showstring  
D specialchars  
D specials  
D synonyms

F tonumber  
D ucchars  
F uccode  
D uccodes  
D uhash  
F unicodechar  
F upper  
D verbosemarks

**chemistry** table

F component  
F define  
D definitions  
S format  
F inlinechemical  
S instance  
S method  
F molecule  
U moleculeparser  
F start  
F stop  
F undefine

**collectgarbage** function

**commands** table

F Alphabetic  
F MPLIBconvertfollowtext  
F MPLIBconvertoutlinetext  
F MPc  
F MPd  
F MPfromhash  
F MPh  
F MPLl  
F MPLr  
F MPLs  
F MPn  
F MPp  
F MPpardata  
F MPplus  
F MPpos  
F MPr  
F MPrest  
F MPrs  
F MPul  
F MPur  
F MPw

F MPwhd  
F MPx  
F MPxy  
F MPxywhd  
F MPy  
F Romannumerals  
F actualday  
F actualmonth  
F actualyear  
F adaptfontfeature  
F adaptivecheckbox  
F addbtentry  
F addcounter  
F adddefaultsuffix  
F addfeature  
F addfontpath  
F addgrapheme  
F addlinenumbers  
F addlinklistelement  
F addressplacements  
F addressplacementslist  
F addressers  
F addtocolumnset  
F addtocolumnsetmvl  
F addtojavascriptpreamble  
F addtolist  
F align\_point\_delta  
F allinputpaths  
F alphabetic  
F analyzefloatmethod  
F analyzeitemgroup  
F analyzelist  
F analyzelocalanchors  
F analyzeregister  
F analyzerotate  
F analyzeupcomingitemgroup  
F applypattern  
F applytobox  
F applytofirstcharacter  
F arraycompare  
F arrayequals  
F arrayvalue  
F ascender  
F askedreference

F assignbuffer	F boxlinend
F async	F boxlinenh
F attachinsertion	F boxlinew
F attachinsertions	F boxlinerh
F atwordboundary	F boxlinerp
F autofinishstructurelevels	F boxliners
F autoinsertnextspace	F boxlines
F automigrationcodestring	F boxlinewd
F autonextstructurelevel	F boxoptioncodestring
F autorule	F boxrangedp
F autosetups	F boxrangeht
F autostarttext	F boxrangewd
F autostoptext	F boxtostring
F badnessmodecodestring	F bposcolumn
F balanceshapeextra	F bposcolumnregistered
F benchmarktimer	F bs
F bf	F btxabbreviatedjournal
F bi	F btxaddentry
F bitmapimage	F btxaddjournal
F bitwise	F btxauthor
F bitwiseand	F btxauthorfield
F bitwiseflip	F btxauthorforegister
F bitwisenil	F btxcmdstring
F bitwisenot	F btxcollectlistentries
F bitwiseor	F btxcurrentfirstnames
F bitwiserset	F btxcurrentinitials
F bitwiseshift	F btxcurrentjuniors
F bitwisexor	F btxcurrentsurnames
F blockcolumnset	F btxcurrentvons
F blockligatures	F btxdetail
F boolcase	F btxdirect
F boxdir	F btxdoif
F boxline	F btxdoifelse
F boxlinedp	F btxdoifelsecitedone
F boxlineht	F btxdoifelsecombinlist
F boxlineil	F btxdoifelsematches
F boxlinein	F btxdoifelsesameasprevious
F boxlineir	F btxdoifelseuservariable
F boxlinelh	F btxdoifnot
F boxlineip	F btxentrytobuffer
F boxlinels	F btxentrytostring
F boxlinemaxdp	F btxexpandedjournal
F boxlinemaxht	F btxfetchlistentries
F boxlinemaxwd	F btxfield

F btxfirstofrange	F checknesting
F btxflush	F checkstrutdepth
F btxflushlistcombi	F chemicalcomponent
F btxflushlistentry	F chinesenumerals
F btxflushlisttag	F chr
F btxflushmarked	F classoptioncodestring
F btxflushpages	F cleancolumnset
F btxhandlecite	F cleanfontname
F btxhandlenocite	F cleanupattributes
F btxlastofrange	F cleanupbox
F btxlistvariant	F cleanuplayers
F btxloaddefinitionfile	F clonefield
F btxloadjournalist	F closein
F btxloadreplacementfile	F closeout
F btxmissing	F codedef
F btxoneorange	F collectedmath
F btxpreparelistentries	F collectfloat
F btxreauthor	F collecthelp
F btxsavedataset	F columnsetbalancefirst
F btxsavejournalist	F columnsetbalancelast
F btxsetdataset	F columnsetbalancepage
F btxsetentry	F columnsetcolumnwidth
F btxsetregister	F columnsetdisablewide
F btxsetspecification	F columnsetenablewide
F btxshortcut	F columnsetgoto
F btxshowauthorremapping	F columnsethascontent
F btxsingularorplural	F columnsethspace
F btxtoregister	F columnsetlastfuture
F btxusedataset	F columnsetlastmvl
F btxuservariable	F columnsetlimit
F build_page_after_shipout	F columnsetnoto
F build_page_before_shipout	F columnsetresetdirect
F build_page_setup	F columnsetresetshapeextra
F capheight	F columnsetreshape
F charactercontrolcodestring	F columnsetsblockrows
F chardescription	F columnsetsetshapeextra
F checkcolumnset	F columnsetshape
F checkcountersetup	F columnsetshapebalancecheck
F checkedconversion	F columnsetshapebalanceextend
F checkedemoji	F columnsetshapecolumn
F checkedpagefloat	F columnsetshapecount
F checkinjector	F columnsetshapeindex
F checkinterfacechain	F columnsetshapepage
F checkmarkedpages	F columnsetshapersetbalancerange

F columnsetshapelots	F decrementsubcounter
F columnsetshapspread	F deferredenhancelist
F columnsetshapevsiz	F deferredenhancereference
F columnsetshapeworst	F deferredenhanceregister
F columnsetshowgrid	F defineaccents
F columnsetshowshape	F defineattribute
F columnsetshowtracedgrid	F defineboundary
F columnsetstate	F definebreakpoint
F columnsetstatus	F definebreakpoints
F combineglyphs	F definecharacterspacing
F component	F definechemical
F concatcommalist	F definecolumnset
F consultfloat	F defineconversion
F continueifinputfile	F definecounter
F convertbtxdatasettoxml	F definedlayoutcomponent
F converteddimen	F definefallbackfamily
F converttmpstopdf	F definefield
F copyboxfromcache	F definefieldset
F copyboxline	F definefilefallback
F copyposition	F definefilesynonym
F cos	F definefont_one
F cosd	F definefont_two
F ctxfunction	F definefontcolorpalette
F ctxluamatch	F definefontfamily
F ctxluamatchfile	F definefontfamilypreset
F ctxresetter	F definefontfeature
F ctxscanner	F definefontscriptset
F currentcomponent	F definefontsolution
F currentdate	F definehyphenationfeatures
F currentdesignsize	F defineinsertion
F currentenvironment	F defineintermediatecolor
F currentfontinstancespec	F definelabcolorglobal
F currentposthyphenchar	F definelabcolorlocal
F currentprehyphenchar	F definelabels
F currentproduct	F definelanguage
F currentproject	F definelinkedlist
F currentsectiontolist	F definemathpreset
F datasetsize	F definemultitonecolorglobal
F datasetvariable	F definenamespace
F day	F definenote
F daymnm	F defineparallel
F dayname	F defineparbuilder
F decimals	F defineprocesscolordummy
F decrementcounter	F defineprocesscolorglobal

F defineprocesscolorlocal	F doifelsebufferempty
F defineprogram	F doifelsecharinfont
F definereference	F doifelseconverter
F defineregister	F doifelsecounter
F definesectionlevels	F doifelsecurrentfonthasfeature
F definespotcolorglobal	F doifelsedimenstring
F definestructureblock	F doifelsedrawingblack
F definestructureset	F doifelsefieldcategory
F definesubcolumnset	F doifelsefieldset
F definetransparency	F doifelsefiledefined
F definetransparencyglobal	F doifelsefileexist
F definetypeface	F doifelsefirstchar
F defineviewerlayer	F doifelsefirstsectionpage
F delayedcolumnsetsheet	F doifelsefontfeature
F depthnumber	F doifelsefontpresent
F depthofstring	F doifelseindented
F descender	F doifelseinelement
F detachinsertions	F doifelseinputfile
F diagnostic	F doifelseleapyear
F digits_normal	F doifelselisthasentry
F digits_reverse	F doifelselisthasnumber
F directboxfromcache	F doifelselisthaspage
F disableautofontscript	F doifelselisthastitle
F disablecollectingmath	F doifelsemarkedcontent
F disabledirectives	F doifelsemarkedpage
F disableexperiments	F doifelsemessage
F disablejobsave	F doifelseobjectfound
F disableparbuilder	F doifelseobjectreferencefound
F disableregime	F doifelseolderversion
F disablespellchecking	F doifelseoverlapping
F disablestatetriggering	F doifelseparallel
F disablestream	F doifelseparentfile
F disabletrackers	F doifelsepathexist
F discardfromlist	F doifelsependingpagecontent
F discoptioncodestring	F doifelseposition
F disposeboxesincache	F doifelsepositiononpage
F disposeluatable	F doifelsepositionsonsamepage
F doanalyzeframedbox	F doifelsepositionsonthispage
F doif	F doifelsepositionsused
F doifcounter	F doifelserangeonpage
F doifelse	F doifelsererence
F doifelseblack	F doifelsererencechecked
F doifelseboxincache	F doifelsererenced
F doifelsebuffer	F doifelserighttoleftinbox

F doifelsesame	F enablealignskips
F doifelsesomething	F enableasciimode
F doifelsespaces	F enableautofences
F doifelsestackedfloats	F enableautofontscript
F doifelsestructureblockempty	F enablebackgroundalign
F doifelsesynonymshown	F enablebackgroundboxes
F doifelsesynonymused	F enablecollectingmath
F doifelseurldefined	F enablecolor
F doifelseutfmathaccent	F enablecolorintents
F doifelseutfmathfiller	F enablecrlf
F doifelseutfmathlimop	F enabledirectives
F doifelsevalidhashedfiles	F enabledriver
F doifelsevisualizer	F enableexperiments
F doifmarkedpage	F enablefontcolorchemes
F doifnot	F enablehidecontent
F doifnotcounter	F enablemathalignrelocate
F doifnotecontent	F enablematrixornaments
F doifnoteonsamepageasprevious	F enablematrixrules
F doifnotsame	F enableparbuilder
F doifnotthing	F enableregime
F doifposition	F enablescriptunstacking
F doifsame	F enablesidefloatchecker
F doifsomething	F enablespellchecking
F doifunknownfontfeature	F enablestacking
F domainattribute	F enablestatetriggering
F doreshapeframedbox	F enablestream
F doresyncframedbox	F enableswapping
F dosaveposition	F enabletighten
F dosavepositionplus	F enabletrackers
F dosavepositionwhd	F enabletransparency
F dosetposition	F enableutf
F dosetpositionbox	F enhancelinkedlist
F dosetpositionplus	F enhancealist
F dosetpositionstrut	F enhanceregister
F dosetpositionstrutkind	F enhancesynonym
F dosetpositionwhd	F environment
F dostarttextfile	F eposcolumn
F dostoptextfile	F eposcolumnregistered
F doublescriptmodecodestring	F erasebuffer
F droptablegroup	F execute
F elapsedsteptime	F exportbox
F elapsedtime	F exportformdata
F embedimagefromstore	F exportreferences
F enablealignmentcharacter	F expression



F extendregister	F fontcharbyindex
F extendregisterlate	F fontcollectionclone
F extensiblecode	F fontcollectiondefine
F fakeword	F fontcollectionprepare
F featureattribute	F fontcollectionregister
F feedback	F fontcollectionreport
F fetchlanguagegettext	F fontcollectionreset
F fetchmultipar	F fontlookupgetkey
F fetchposboxes	F fontlookupgetkeyofindex
F fetchterminaldata	F fontlookupinitialize
F figure_flush_registered_pages	F fontlookupnoffound
F figure_mergegoodies	F forceendjob
F figure_nof_registered_pages	F forcepageflush
F figure_register_page	F forcequitjob
F figuresetdimensions	F forcestrutdepth
F filebasename	F format
F filedirname	F formatcolor
F filenameonly	F formatgray
F filesuffix	F formatluminance
F filterdefaultreference	F formatluminanceratio
F filterreference	F formatone
F finalizeobjectbox	F framedoutline
F finalizeshipoutbox	F from
F findregisterinternal	F frozenparcodestring
F finishcolumnsetflush	F frule
F finishexport	F getMPdata
F firstinset	F getbidimode
F firstsectionpage	F getbodyfontsizes
F firstsubcountervalue	F getboxcountfromcache
F flagcodestring	F getboxdpfromcache
F flushcolumnsetareas	F getboxfromcache
F flushcolumnsetcolumn	F getboxhtdpfromcache
F flushfloat	F getboxhtfromcache
F flushlabeledfloat	F getboxwdfromcache
F flushnoterange	F getbuffer
F flushnotes	F getbuffercontent
F flushpageblocks	F getbuffercxtlua
F flushpageinjectionsafter	F getbuffermkvi
F flushpageinjectionsbefore	F getbuffertex
F flushpostponedblocks	F getcharactercasingcategory
F flushpostponednotes	F getclubpenalties
F flushstream	F getcurrentprefixspec
F flushstreamcopy	F getcurrentreferencelabel
F fontchar	F getcurrentreferencemetadata

F getdefaultfieldvalue	F getsetupstring
F getdisplaywidowpenalties	F getshapeparameter
F getdocumentargument	F getsomefullstructurenumber
F getdocumentfilename	F getsomestructurenumber
F getfieldcategory	F getspecificstructuretitle
F getfile	F getstructurelevel
F getfirstcharacter	F getstructurenumber
F getfloatvariable	F getsubstring
F getfromluatable	F getsynchronizemarking
F getfullstructurenumber	F geturl
F getinterlinepenalties	F getvisual
F getinternalcachedlistreference	F getwidowpenalties
F getinternallistreference	F globalpopmacro
F getinternalorderreference	F globalpushmacro
F getmathblobindex	F gluetolinesinbox
F getmathblobmapping	F glyphoptioncodestring
F getmathcharone	F gobblenestd
F getmathchartwo	F gotocolumnsetslot
F getmathmathblob	F grabbuffer
F getmathtextblob	F groupcodestring
F getmathvariant	F groupsetgroup
F getmessage	F grph_nodes_initialize
F getmpextensions	F grph_nodes_register
F getnaturaldimensions	F grph_nodes_reset
F getnaturalwd	F grph_nodes_resolve
F getnofpreviouslines	F handlemathhang
F getnotestate	F hboxtovbox
F getobjectdimensions	F heightofstring
F getobjectreference	F helpaction
F getobjectreferencepage	F helpreference
F getparshape	F hour
F getparwrapper	F hpackbox
F getprivatechar	F hpackedbox
F getprivateglyphslot	F hsplit
F getprivatemathchar	F hyphenateddigits
F getprivateslot	F hyphenatedlist
F getprogram	F hyphenationcodestring
F getrandomdimen	F ic
F getrandomfloat	F idxfromluatable
F getrandomnumber	F if_common
F getrandomseed	F ifallmodes
F getreadfilename	F ifbitwiseand
F getreferencesectionnumber	F ifblobindexdone
F getrivers	F ifboxhaslist

F ifcommon	F injectvskip
F ifeof	F injectvspacing
F ifgluelineinbox	F injectzerobaselineskip
F ifinset	F inlinechemical
F iflua	F inputfilebarename
F ifmode	F inputfilename
F ifmodes	F inputfilerealsuffix
F ifmvl	F inputfilesuffix
F ifpositunum	F insertattachment
F ifsetups	F insertcomment
F ifsystemmode	F insertfield
F iftext	F insertionnumber
F ifxml	F insertrenderingwindow
F ifxmlatt	F inspectluatable
F ifxmlattempty	F installedlanguages
F ifxmlempty	F installtexdirective
F ifxmlselfempty	F installtexexperiment
F ifxmltext	F installtextracker
F ignorefile	F interceptsamepagecontent
F ignoretagsinexport	F it
F immediatemessage	F jobfilefullname
F includesvgbuffer	F jobfilename
F includesvgfile	F jobfilesuffix
F incrementcounter	F jobposd
F incrementsubcounter	F jobposh
F inhibitprimitive	F jobposp
F initializeexport	F jobposw
F initializejob	F jobposx
F initializemathcollapsing	F jobposy
F initializemathfencing	F languagecharwidth
F initializemathitalics	F languagenumber
F initializemathkernpairs	F lastblobindex
F initializemathnumbers	F lastnodeequals
F initializemathspacing	F lastnodeid
F initializestream	F lastnodeidstring
F initializetexdirectives	F lastnodesubtypestring
F initializetexexperiments	F lastparwrapper
F initializetextrackers	F lastrpos
F injectcurrentreference	F lastsavedboxresourceindex
F injectcurrentreferencehtdp	F lastsavedimageresourceindex
F injectdisable	F lastsavedimageresourcepages
F injectnowhite	F lastsectionpage
F injectreference	F lastsubcountervalue
F injectvpenalty	F lastunitstring

F lastxpos	F loadtexfileonce
F lastypos	F loadtypescriptfile
F lateindent	F loadvisualizer
F latelua	F loadxmlfile
F lateundent	F loadxmlfileonce
F lchexnumber	F localanchorx
F lchexnumbers	F localanchory
F leapyear	F localboxindent
F limited	F localboxindex
F linebuffering	F localboxleftthang
F linedir	F localboxleftoffset
F lineprofilebox	F localboxleftskip
F linesegment	F localboxlinenumber
F listanchorcodestring	F localboxlinewidth
F listbookmark	F localboxlocalwidth
F listexternal	F localboxmarkonce
F listgroupindex	F localboxovershoot
F listlabel	F localboxparfillleftskip
F listlocation	F localboxparfillrightskip
F listnamespaces	F localboxparinitleftskip
F listprefixednumber	F localboxparinitrightskip
F listprefixedpage	F localboxprogress
F listrawnumber	F localboxrighthang
F listrawrealpage	F localboxrightoffset
F listrawuserpage	F localboxrightskip
F listsigncodestring	F localpopmacro
F listsize	F localpushmacro
F listtitle	F locatefilepath
F listuserdata	F loopcs
F lmt_parameters_define	F loopcsn
F lmt_parameters_preset	F lousiness
F lmt_parameters_reset	F luacardinal
F loadcldfile	F luacount
F loadcldfileonce	F luadimen
F loadexamodes	F luaexpression
F loadfontgoodies	F luafloat
F loadlibrary	F luainteger
F loadluafile	F luanumber
F loadluafileonce	F luarandom
F loadluamodule	F luascript
F loadmapfile	F luathread
F loadmapline	F lxmlid
F loadspellchecklist	F manipulated
F loadtexfile	F markblobindexdone

F markcontent	F mpgraphicstxttoks
F markedpageparameter	F mpoptions
F markedpages	F mpoutlinetoks
F markingnumber	F mppopvariables
F markingtitle	F mppushvariables
F markinjector	F mprunset
F markpage	F mpruntab
F markregionbox	F mprunvar
F markregionboxcorrected	F mpsetclippath
F markregionboxtagged	F mpsetoutercolor
F markregionboxtaggedkind	F mpsetsxsy
F markregionboxtaggedn	F mpsettext
F markvisualfonts	F mptexget
F mathclassvalue	F mptexreset
F mathcontrolcodestring	F mptexset
F mathhorizontalcode	F mptexsetfrombuffer
F mathoptioncodestring	F mptexttoks
F mathrenderset	F mvloptioncodestring
F mathvariantcode	F namedstructureuservariable
F mathvariantcount	F namedstructurevariable
F mathvariantslot	F naturalwd
F maxbufferwidth	F negatedcolorcomponent
F message	F newarray
F metapostescaped	F newhashedtable
F metapostformatted	F newindexedtable
F metapostgraphformat	F newluatable
F minute	F newparwrapper
F mixcleanup	F newrepeatablerandom
F mixfinalize	F newstacking
F mixflushlist	F nextparallel
F mixflushrest	F nextsubcountervalue
F mixgetsplit	F nodimen
F mixsetsplit	F nofbufferlines
F mixstate	F nofconversions
F modecodestring	F nofdays
F molecule	F nofdetachedinsertions
F month	F noflinesinbox
F monthmnem	F nofmathvariants
F monthname	F nofstackedfloats
F mpblobtext	F nologbuffering
F mpcolor	F normalizecodestring
F mpgetblob	F normalizedbodyfontsize
F mpgettext	F normalizeparcodestring
F mpgraphic	F notedeltapage

F noteinternal	F pdfbackendsetshade
F notelistindex	F pdfcolor
F noteprefixednumber	F pdfextension
F notetitle	F pdffeedback
F ntb_split_section_check	F pdflastobj
F ntb_split_section_fetch	F pdfliteral
F ntb_split_section_locate	F pdfobj
F ntb_split_section_reset	F pdfrefobj
F ntimes	F pdfsetuserdata
F number	F pdfvariable
F numbers	F percentageof
F objectreference	F pfabs
F objectreferencepage	F pfacos
F octnumber	F pfacosh
F openin	F pfasin
F openout	F pfasinh
F operatingsystem	F pfatan
F ordinal	F pfatanh
F outputfilename	F pfatanwo
F overloadbookmark	F pfceil
F overloadlowercase	F pfcos
F overloadsattribute	F pfcosh
F overloaduppercase	F pfdeg
F pageblockrealpage	F pfexp
F pageofinternal	F pffloor
F pageoverflow	F pflg
F pagestaterealpage	F pfmod
F pagestaterealpageorder	F pfpow
F parcontextcodestring	F pfrad
F paddir	F pfrem
F parpasscallback	F pfound
F parpassidentifier	F pfsin
F parpos	F pfsinh
F partriggercodestring	F pfsqrt
F pdfbackendcurrentresources	F pftan
F pdfbackendsetcatalog	F pftanh
F pdfbackendsetcolorspace	F pgfxcolorspec
F pdfbackendsettextgstate	F pickupbuffer
F pdfbackendsetinfo	F pickupmarkedcontent
F pdfbackendsetname	F pickuppunctuation
F pdfbackendsetpageattribute	F placeparallel
F pdfbackendsetpageresource	F popfloat
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F chineseapnumerals	F toroman
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F getmathspec  
F getparameterfields  
F gettextcharacterfields  
F id  
F max  
F nextid  
F setfont  
F setfontdimen  
F xscaled  
F yscaled

## fonts

table

F current  
F currentid  
F definitypeface  
F enhanceid  
D expansions  
D formats  
F getalternate  
F getindices

F getkern  
 F getmultiple  
 F getsubstitution  
 F infofont  
 F mode  
 D names  
 D nulldata  
 D protrusions  
 F registersanitizer  
 F reserveid  
 F toeffect

**functions** table

F dummy

**getmetatable** function

**globaldata** table

N CONTEXTLMTXMODE  
 N LUAFORMAT  
 N LUAMAJORVERSION  
 N LUAMINORVERSION  
 S LUATEXENGINE  
 N LUATEXFORMATID  
 N LUATEXFUNCTIONALITY  
 S LUATEXVERBOSE  
 N LUATEXVERSION  
 N LUAVERSION  
 F SAVEDREQUIRE  
 F assert  
 F collectgarbage  
 F dimen  
 F dofile  
 F error  
 F getmetatable  
 F inspect  
 F ipairs  
 F load  
 D loaders  
 F loadfile  
 F loadstring  
 F next  
 F optionalrequire  
 F pairs  
 F pcall  
 F print  
 F rawequal

F rawget  
 F rawlen  
 F rawset  
 F require  
 F select  
 F setinspector  
 F setmathparameters  
 F setmetatable  
 D texconditionals  
 D texconstants  
 D texifs  
 D texisdefined  
 D texmodes  
 D texsystemmodes  
 F toboolean  
 F todecimal  
 F tonumber  
 F tostring  
 F type  
 F unpack  
 F warn  
 F xpcall

**globals** table

N CONTEXTLMTXMODE  
 N LUAFORMAT  
 N LUAMAJORVERSION  
 N LUAMINORVERSION  
 S LUATEXENGINE  
 N LUATEXFORMATID  
 N LUATEXFUNCTIONALITY  
 S LUATEXVERBOSE  
 N LUATEXVERSION  
 N LUAVERSION  
 F SAVEDREQUIRE  
 F assert  
 F collectgarbage  
 F dimen  
 F dofile  
 F error  
 F getmetatable  
 F inspect  
 F ipairs  
 F load  
 D loaders

F loadfile		F mathnested	
F loadstring		F mathprocess	
F next		F mathstep	
F optionalrequire		F snapindeed	
F pairs		F snaplist	
F pcall		F traversecharmethod	
F print		F traverseglyphmethod	
F rawequal		F traversehorizontal	
F rawget		F traversevertical	
F rawlen		<b>images</b>	table
F rawset		F check	
F require		F checksize	
F select		F copy	
F setinspector		F create	
F setmathparameters		F embed	
F setmetatable		F embedfromstore	
D texconditionals		F fetchdata	
D texconstants		F print	
D texifs		F resetdata	
D texisdefined		F resetstore	
D texmodes		F scan	
D texsystemmodes		F serialize	
F toboolean		F storedata	
F todecimal		F totable	
F tonumber		F wrap	
F tostring		<b>inspect</b>	function
F type		<b>interactions</b>	table
F unpack		D attachments	
F warn		D linkedlists	
F xpcall		D renderings	
<b>graphics</b>	table	<b>interfaces</b>	table
F bpsize		D cachedsetups	
F identify		F cachesetup	
F registerpdfcompactor		F checkedspecification	
F registerpdffont		D complete	
<b>gzip</b>	table	D constants	
F compress		D corenamespaces	
F compressed		S currentinterface	
F decompress		S currentresponse	
F load		F definecommand	
F save		F defined	
F suffix		F doifelsemessage	
<b>helper</b>	table	D elements	
F getprofile		D formats	

F getmessage  
 F getnamespace  
 F getsetupstring  
 D hashedsetups  
 F implement  
 F interfacedcommand  
 F knownscanner  
 F message  
 F nameofscanner  
 F registersnamespace  
 F registerscanner  
 D scanners  
 F setconstant  
 F setcount  
 F setdimen  
 F setelement  
 F setformat  
 F setmacro  
 F setmessage  
 F setmessages  
 F settranslation  
 D setupstrings  
 F setvariable  
 F showmessage  
 D storedscanners  
 F tolist  
 D translations  
 D usednamespaces  
 D variables  
 F writestatus

**io** table

F ask  
 F bytes  
 F characters  
 F close  
 F copydata  
 F exists  
 S fileseparator  
 F flush  
 F gobble  
 F input  
 F lines  
 F loadchunk  
 F loaddata

F loadlines  
 F newreader  
 F noflines  
 F open  
 F output  
 S pathseparator  
 F popen  
 F read  
 F readall  
 F readnumber  
 F readstring  
 F savedata  
 F size  
 U stderr  
 U stdin  
 U stdout  
 F tmpfile  
 F type  
 F write

**ipairs** function  
**job** table

F comment  
 F disablesave  
 F getrandomseed  
 F initialize  
 F load  
 F loadother  
 B pack  
 N packversion  
 F register  
 F save  
 N version

**kpse** table  
**language** table

F clean  
 F clearhyphenation  
 F clearpatterns  
 F current  
 F gethrcode  
 F has\_language  
 F hyphenate  
 F hyphenation  
 F hyphenationmin  
 F id



F new  
F patterns  
F postexhyphenchar  
F posthyphenchar  
F preexhyphenchar  
F prehyphenchar  
F sethcode  
F setwordhandler

## languages

table

F addgoodiesdata  
F addgoodiesfile  
F associate  
D associated  
F association  
D counters  
F current  
D data  
D decimals  
F define  
F explicithyphen  
F exportlanguage  
F flatten  
F getdata  
F getmetadata  
F getnumber  
F goodiefiles  
F hyphenate  
F installed  
F installhandler  
F loadable  
F loadwords  
F nofflattened  
D numbers  
F pdflanguage  
F postexhyphenchar  
F posthyphenchar  
F preexhyphenchar  
F prehyphenchar  
D registered  
F serializediscretionary  
F setexceptions  
F setgoodieshandler  
F setoptions  
F setpatterns

F setsynonym  
F setwordhandler  
F showdiscretionaries  
F strippedgoodiewords  
F tolang  
F unload  
N version  
F visualizediscretionaries

## layouts

table

F getcanvas  
F getpagedimensions  
F setupcanvas

## lfs

table

F attributes  
F chdir  
F currentdir  
F dir  
F isdir  
F isfile  
F isfound  
F isreadabledir  
F isreadablefile  
F iswriteabledir  
F iswriteablefile  
F link  
F mkdir  
F makedirs  
F modification  
F readlink  
F rmdir  
F setexecutable  
F symlink  
F symlinktarget  
F touch  
F walkdir

## libraries

table

D basiclua  
D basictex  
D builtin  
D extralua  
D extratex  
D functions  
D globals  
D obsolete

D optional		F enable	
<b>lmx</b>	table	F finalactions	
F color		F flush	
F convert		F loggingerrors	
F convertfile		F messenger	
F convertstring		F new	
F einject		F newline	
F eprint		F poplogfile	
F escape		F poptarget	
F finalized		F pushlogfile	
F finject		F pushtarget	
F fprint		F registerfinalactions	
F get		F report	
F getvariables		F reporter	
F htmfile		F resetlogfile	
F include		F setformats	
F initialize		F setformatters	
F inject		F setlogfile	
F lmxfile		F setmessenger	
F loadedfile		F setprocessor	
F make		F settarget	
F new		F settimedlog	
F popupfile		F settranslations	
F print		F show	
F pv		F start_page_number	
F report		F start_run	
F reset		F starterrorlogging	
F result		F startfilelogging	
F set		F status	
F show		F stop_page_number	
F stripcss		F stoperrorlogging	
F tv		F stopfilelogging	
F type		F subdirect	
F urlescape		F subreport	
F variable		F system	
<b>load</b>	function	F texerrormessage	
<b>loaders</b>	data table	F writer	
<b>loadfile</b>	function	<b>lpdf</b>	table
<b>loadstring</b>	function	F action	
<b>logs</b>	table	F adddocumentcolorspace	
F application		F adddocumenttextgstate	
F categories		F adddocumentpattern	
F direct		F adddocumentshade	
F disable		F addtocatalog	

F addtoinfo	F finalizepage
F addtonames	F finalizesignature
F addtopageattributes	F finishtransparencycode
F addtopageresources	F flushfonts
F addtopagesattributes	F flushgroup
F addxmpinfo	F flushobject
F annotationspecification	F flushstreamfileobject
F array	F flushstreamobject
F attachmentsymbols	D formats
F boolean	F frombytes
F border	F fromeight
F checkedkey	F frompdfdoc
F checkedresources	F fromsixteen
F checkedvalue	F getcatalog
F circularshade	F getcompression
F close	F getfontname
F cmykcode	F getfontobjectnumber
F collectedresources	F getformatoption
F color	F getinfo
F colorspace	F getmatrix
D colorspaceconstants	F getnofpages
F colorspec	F getpageproperties
F colorvalue	F getpagereference
F colorvalues	F getpagetags
F commentsymbols	F getpos
F compressdata	F gettaggingstatus
F compresslevel	F gettrailerid
F constant	F getversion
F copyarray	F getxformname
F copyboolean	F graycode
F copyconstant	F hasmatrix
F copydictionary	F immediateobject
F copyfloat	F includeimage
F copyinteger	F initialize
F copynumber	F injectxmpinfo
F copystring	F insertxmpinfo
F copyunicode	F lastreferredpage
F deferredobject	F layerreference
F delayedobject	F limited
F destinationspecification	F linearshade
F dictionary	F literal
F docstring	F majorversion
F escaped	F makenametree
F finalizedocument	F minorversion

F nofontregistries  
F nopages  
F null  
F number  
F object  
F objectcompresslevel  
F pagereference  
F patternstream  
F pdfcolor  
F pdftimestamp  
F preparesignature  
F print  
F procset  
B protectresources  
F quads  
F rectangle  
F reference  
F registerannotation  
F registerdestination  
F registerdocumentfinalizer  
F registerfontmethod  
F registerinitializer  
F registerpagefinalizer  
F registerpattern  
F registersignature  
F replacempinfo  
F reserveobject  
F rgbcode  
F rotationcm  
F setcompression  
F setencryption  
F setpageorder  
F setpagestate  
F setpagetag  
F setutfstringmode  
F setversion  
F sharedobject  
F shareobject  
F shareobjectreference  
F splitsixteen  
F spotcode  
F stream  
F string  
F supportedformats

F tocidset  
F toeight  
F topdfdoc  
F topermissions  
F tosixteen  
F transparency  
F transparencycode  
F transparencyvalue  
F unicode  
D usedfontstreams  
F verbose

## **lpeg**

F B  
F C  
F Carg  
F Cb  
F Cc  
F Cf  
F Cg  
F Cmt  
F Cp  
F Cs  
F Ct  
F P  
F R  
F S  
F UP  
F UR  
F US  
F V  
F afterprefix  
F anywhere  
F append  
F balancer  
F beforesuffix  
F checkedsplit  
F containsws  
F counter  
F endstripper  
F finder  
F firstofsplit  
F frontstripper  
F instringchecker  
F is\_lpeg

## **table**

F keeper  
 F locale  
 F match  
 F oneof  
 D patterns  
 F pcode  
 F print  
 F ptree  
 F replacer  
 F secondofsplit  
 F setmaxstack  
 F setutfcasers  
 F split  
 F splitat  
 F splitter  
 F stripper  
 F times  
 F tsplitat  
 F tsplitter  
 F type  
 F utfR  
 F utfchartabletopattern  
 F utfreplacer  
 S version

**lua** table

F addnibble  
 D bytedata  
 F callbytecode  
 F comparekeys  
 F finalizeinitex  
 N firstbytecode  
 F get\_functions\_table  
 F getallkeys  
 F getbytecode  
 F getcheckedkeys  
 F getcurrenttime  
 F getdebuginfo  
 F getexitcode  
 F getfunctionstable  
 F getnibble  
 F getnumerickeys  
 F getpreciseseconds  
 F getpreciseticks  
 F getruntime

F getstacktop  
 F getstartupfile  
 F getstringkeys  
 F getversion  
 N lastbytecode  
 D messages  
 F newindex  
 F newtable  
 D numbers  
 F protectglobal  
 F registercode  
 F registeredcodes  
 F registerglobal  
 F registerinitexfinalizer  
 F registername  
 F setbytecode  
 F setexitcode  
 F setnibble  
 S startupfile  
 F subnibble  
 S version

**luac** table

F inspect  
 F print

**luatex** table

F abort  
 F cleanup  
 F cleanuptempfiles  
 F currentfile  
 F currentlevel  
 F currenttotal  
 F poprunstate  
 F pushrunstate  
 F registerdumpactions  
 F registerpageactions  
 F registerstartactions  
 F registerstopactions  
 F registertempfile  
 N starttime  
 F wrapup

**lxml** table

F addindex  
 F all  
 F applyfunction

F applyselectors	F ifatt
F att	F ifattempty
F attribute	F include
F badinclusions	F inclusion
F chainattribute	F inclusions
F checkindex	F index
F collected	F inlineverbatim
F command	F installsetup
F concat	F last
F concatrange	F lastatt
F content	F lastmatch
F context	F lastpar
F convert	F load
F count	F loadbuffer
F delete	F loaddata
F depth	F main
F direct	F match
F displayverbatim	F name
F doif	F namespace
F doifelse	F nonspace
F doifelseempty	F par
F doifelsetext	F param
F doifempty	F parameter
F doifnot	F path
F doifnotempty	F popmatch
F doifnottext	F pos
F doiftext	F position
F element	F pure
F elements	F pushmatch
D entities	F raw
F fileline	F rawroot
F filename	F rawtex
F filter	F refatt
F filterlist	F register
F first	F registerentity
F flush	F removesetup
F flushlinewise	F replace
F flushsetups	F resetdata
F flushspacewise	F resetsetups
F get_id	F resolvedentity
F getid	F root
F getindex	F save
F id	F serialize
U idsplitter	F setaction

F setatt  
F setattribute  
F setcdata  
F setcommandtonone  
F setcommandtotext  
F setpar  
F setparam  
F setparameter  
F setsetup  
F snippet  
F splitid  
F startraw  
F startunescaped  
F stopraw  
F stopunescaped  
F store  
F strip  
F stripped  
F tag  
F texatt  
F text  
F tobuffer  
F tofile  
F toparameters  
F toverbatim  
F verbatim  
F withindex  
D xmltexhandler

**math** **table**

F abs  
F acos  
F asin  
F atan  
F atan2  
F ceil  
F ceiling  
F cos  
F cosd  
F cosh  
F deg  
F div  
F even  
F exp  
F floor

F fmod  
F frexp  
N huge  
N initialseed  
F ldexp  
F log  
F log10  
F max  
N maxinteger  
F min  
N mininteger  
F mod  
F modf  
F odd  
N pi  
F pow  
F rad  
F random  
F randomseed  
F round  
F setrandomseedi  
F sin  
F sind  
F sinh  
F sqrt  
F tan  
F tand  
F tanh  
F tointeger  
F type  
F ult

**mathematics** **table**

F addfallbacks  
F addvariant  
D alphabets  
D alternatives  
F beforepassingfonttotex  
F big  
D boldmap  
D charactersets  
F checkaftercopyingfont  
D classes  
D classnames  
D codes

F define	F syncstyle
F dimensions	F toengineclass
F disablecollecting	F toname
F enablecollecting	F tostyle
F extensiblecode	F tweakaftercopyingfont
D extensibles	F tweakbeforecopyingfont
N extrabase	F utfmathaccent
F fallbackstyleattr	F utfmathclass
F familyname	F utfmathcommand
F functiontype	F utfmathfiller
D gaps	F utfmathstretch
F getblobindex	F variantcode
F getboth	F variantcount
F getdomainname	F virtualize
F getextensibledata	D virtualized
F getmathblob	<b>md5</b>
F getoptionallabel	F HEX
F getstyle	F dec
F gettextblob	F hex
F getverboselabel	F sum
F horizontalcode	F sumHEXA
F initializeparameters	F sumhexa
F makefont	<b>metapost</b>
D mapremap	F checkformat
F markblobindexdone	F checktracingonline
F overloadparameters	F cm
F preset	F colorinitializer
N privatebase	F convert
F registerextensible	F currentmpx
F registersimplematrix	F currentmpxstatus
F registerverboselabel	S defaultformat
F remapalphabets	S defaultinstance
F renderextensible	S defaultmethod
F renderset	F directrun
F resetattributes	F escaped
F scaleparameters	D extensiondata
F setextensibledata	F filterclippath
F setmathsymbol	F flush
D sets	F flushnormalpath
F setsnapping	F format_number
F setvariant	F format_string
D styles	F formatnumber
F syncboth	F getbackendoption
F syncname	F getbendtolerance
	<b>table</b>
	<b>table</b>



F getbuffer	F pushscriptrunner
F getclippath	F pushvariable
F getextensions	F pushvariables
F getextradata	B quitonerror
F gethashentries	B reducetogray
F getinstancebyname	F registerdirect
F getinstanceinfo	F registerscript
F getinstancenames	F registertokens
F getjobdata	F remappedtext
F getmovetolerance	F remaptext
F getparameter	F reporterror
F getparameterpreset	F reportsvgfonts
F getparameterset	F reset
F getrecord	F resetbackendoptions
F getstatistics	F resetlastlog
F gettext	F resetplugins
F gettolerance	F run
F graphic	F runinternal
F graphic_base_pass	F runscript
F hascurvature	F scanparameters
F includesvgbuffer	F scriptindex
F includesvgfile	F setbendtolerance
F installplugin	F setbuffer
F isobject	F setextensions
S lastlog	F setlogging
F load	F setmovetolerance
F maketext	F setoutercolor
F mesh	F setparameter
N n	F setparameterset
F newlogger	F setrecord
N nofruns	F setttext
F nofscriptruns	F settolerance
F nvformat	F setvariable
F pdfliterals	B showlog
F pluginactions	F showsvgpage
F popformat	F simple
F popscriptrunner	F splitprescript
F popvariable	F startgraphic
F popvariables	F startsvghashing
F preparetexttextdata	F stopgraphic
F process	F stopsvghashing
F processing	F svformat
F processplugins	B svgcachefile
F pushformat	F svgcolorremapper

F svgglyphtomp  
F svgshapestomp  
F svgshapestopdf  
F svgsplitcolor  
F svgtomp  
F svgtopdf  
F xsxy  
B texerrors  
F texexp  
F theclippath  
F tographic  
F totable  
F typesvgpage  
F unload  
F untagvariable

**mime** table

F b64  
F decode  
F dot  
F encode  
F eol  
F normalize  
F qp  
F qpwrp  
F report  
F stuff  
F unb64  
F unqp  
F wrap  
F wrp

**moduledata** table

**modules** table

D anch-loc  
D anch-pgr  
D anch-snc  
D back-exp  
D back-exp-imp-fnt  
D back-exp-imp-mth  
D back-exp-imp-ref  
D back-exp-imp-tag  
D back-imp-lua  
D back-imp-mps  
D back-imp-pdf  
D back-imp-pdp

D back-inc  
D blob-ini  
D buff-imp-default  
D buff-imp-escaped  
D buff-imp-lua  
D buff-imp-mp  
D buff-imp-nested  
D buff-imp-parsed-xml  
D buff-imp-tex  
D buff-imp-xml  
D buff-ini  
D buff-par  
D buff-ver  
D char-enc  
D chem-ini  
D chem-str  
D cldf-com  
D cldf-ver  
D colo-icc  
D colo-ini  
D cont-run  
D core-con  
D core-ctx  
D core-dat  
D core-sys  
D driv-shp  
D file-mod  
D file-syn  
D font-afk  
D font-agl  
D font-aux  
D font-cff  
D font-chk  
D font-cid  
D font-col  
D font-con  
D font-ctx  
D font-def  
D font-dsp  
D font-enc  
D font-enh  
D font-fbk  
D font-fmp  
D font-hsh

D font-imp-checks	D font-pat
D font-imp-combining	D font-prv
D font-imp-compound	D font-san
D font-imp-digits	D font-sel
D font-imp-dimensions	D font-shp
D font-imp-effects	D font-sol
D font-imp-italics	D font-syn
D font-imp-ligatures	D font-tfm
D font-imp-math	D font-tpk
D font-imp-notused	D font-trt
D font-imp-properties	D font-ttf
D font-imp-quality	D font-txt
D font-imp-reorder	D font-vfc
D font-imp-scripts	D font-vir
D font-imp-spacekerns	D good-ctx
D font-imp-tex	D good-gen
D font-imp-text	D good-ini
D font-imp-tracing	D good-mth
D font-imp-tweaks	D grph-bmp
D font-imp-unicode	D grph-con
D font-ini	D grph-epd
D font-lig	D grph-fil
D font-log	D grph-img
D font-lua	D grph-inc
D font-map	D grph-pat
D font-mpf	D grph-raw
D font-mps	D grph-rul
D font-nod	D grph-trf
D font-ogr	D grph-u3d
D font-one	D java-ini
D font-onr	D lang-cnt
D font-osd	D lang-def
D font-ota	D lang-dis
D font-otc	D lang-exc
D font-otd	D lang-hup
D font-oth	D lang-hyp
D font-oti	D lang-ini
D font-otj	D lang-lab
D font-otl	D lang-rep
D font-oto	D lang-tra
D font-otr	D lang-txt
D font-ots	D lang-url
D font-ott	D lang-wrd
D font-oup	D libs-imp-curl

D libs-imp-ghostscript	D math-ren
D libs-imp-graphicsmagick	D math-spa
D libs-ini	D math-tag
D lpdf-ano	D math-ttv
D lpdf-col	D math-txt
D lpdf-epa	D math-vfu
D lpdf-epd	D meta-blb
D lpdf-fix	D meta-fnt
D lpdf-fix-imp-contents	D meta-fun
D lpdf-fix-imp-fonts	D meta-imp-txt
D lpdf-fld	D meta-ini
D lpdf-fmt	D meta-lua
D lpdf-grp	D meta-nod
D lpdf-img	D meta-pdf
D lpdf-ini	D meta-tex
D lpdf-lmt	D mlib-cnt
D lpdf-mis	D mlib-ctx
D lpdf-ren	D mlib-fio
D lpdf-rul	D mlib-int
D lpdf-sig	D mlib-lmp
D lpdf-tag	D mlib-lmt
D lpdf-u3d	D mlib-lua
D lpdf-wid	D mlib-mat
D lpdf-xmp	D mlib-mpf
D lxml-css	D mlib-msh
D lxml-dir	D mlib-pdf
D lxml-ent	D mlib-pos
D lxml-ini	D mlib-pps
D lxml-mms	D mlib-ptr
D lxml-sor	D mlib-ran
D lxml-tex	D mlib-run
D math-act	D mlib-scn
D math-ali	D mlib-snc
D math-dim	D mlib-svg
D math-ext	D node-ali
D math-fbk	D node-bck
D math-fnt	D node-fnt
D math-frc	D node-par
D math-ini	D node-ref
D math-map	D node-rul
D math-mps	D node-tra
D math-noa	D node-typ
D math-pre	D pack-obj
D math-rad	D pack-ori

D pack-rul	D spac-ovl
D page-blk	D spac-par
D page-cst	D spac-pas
D page-flt	D spac-prf
D page-ini	D spac-twi
D page-inj	D spac-ver
D page-ins	D strc-bkm
D page-lin	D strc-blk
D page-mix	D strc-con
D page-otr	D strc-doc
D page-pst	D strc-flt
D page-sel	D strc-ini
D page-str	D strc-itm
D phys-dim	D strc-lev
D publ-aut	D strc-lst
D publ-dat	D strc-mar
D publ-fnd	D strc-mat
D publ-inc	D strc-not
D publ-ini	D strc-num
D publ-jrn	D strc-pag
D publ-oth	D strc-ref
D publ-reg	D strc-reg
D publ-sor	D strc-rsc
D publ-tra	D strc-syn
D publ-usr	D strc-tag
D regi-ini	D strc-usr
D scrn-but	D symb-emj
D scrn-fld	D symb-ini
D scrn-hlp	D syst-cmp
D scrn-ini	D tabl-ali
D scrn-pag	D tabl-ntb
D scrn-ref	D tabl-tbl
D scrn-wid	D tabl-xtb
D scrp-cjk	D task-ini
D scrp-eth	D trac-bl'd
D scrp-ini	D trac-jus
D scrp-tha	D trac-par
D scrp-tib	D trac-riv
D sort-ini	D trac-sig
D sort-lan	D trac-vis
D spac-ali	D type-ini
D spac-brk	D typo-adj
D spac-chr	D typo-bl'd
D spac-hor	D typo-brk

D typo-cap  
D typo-chr  
D typo-cln  
D typo-dha  
D typo-dif  
D typo-dig  
D typo-dir  
D typo-drp  
D typo-duc  
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D typo-fln  
D typo-hid  
D typo-inj  
D typo-itc  
D typo-krn  
D typo-lan  
D typo-lbx  
D typo-man  
D typo-mar  
D typo-ovl  
D typo-pag  
D typo-par  
D typo-pnc  
D typo-prc  
D typo-rep  
D typo-rub  
D typo-spa  
D typo-stc  
D typo-sus  
D typo-syn  
D typo-tal  
D typo-wrp  
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F autoinject  
F boolean  
F bytemap\_load\_from\_file  
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F color  
F dataset  
F direct  
F downgradebytemap  
F downsamplebytemap  
F draw

F expandtex  
F fill  
F fillbytemap  
F flatten  
F flush  
F format  
F formatted  
F fprint  
F getbytemap  
F getbytemapdata  
F getlastadddtype  
F graphformat  
F integer  
F lmt\_contours\_bitmap\_get  
F lmt\_contours\_bitmap\_set  
F lmt\_contours\_cleanup  
F lmt\_contours\_color  
F lmt\_contours\_edge\_get\_band  
F lmt\_contours\_edge\_get\_cell  
F lmt\_contours\_edge\_paths  
F lmt\_contours\_edge\_set  
F lmt\_contours\_edge\_set\_by\_band  
F lmt\_contours\_edge\_set\_by\_cell  
F lmt\_contours\_format  
F lmt\_contours\_function  
F lmt\_contours\_maxmean  
F lmt\_contours\_maxz  
F lmt\_contours\_minmean  
F lmt\_contours\_minz  
F lmt\_contours\_nofvalues  
F lmt\_contours\_nx  
F lmt\_contours\_ny  
F lmt\_contours\_range  
F lmt\_contours\_shade\_paths  
F lmt\_contours\_shade\_set  
F lmt\_contours\_shape\_paths  
F lmt\_contours\_start  
F lmt\_contours\_stop  
F lmt\_contours\_value  
F lmt\_contours\_xrange  
F lmt\_contours\_yrange  
F lmt\_function\_x  
F lmt\_glyphshape\_accent  
F lmt\_glyphshape\_baseline

F lmt\_glyphshape\_boundingbox  
F lmt\_glyphshape\_depth  
F lmt\_glyphshape\_height  
F lmt\_glyphshape\_italic  
F lmt\_glyphshape\_llx  
F lmt\_glyphshape\_n  
F lmt\_glyphshape\_path  
F lmt\_glyphshape\_start  
F lmt\_glyphshape\_stop  
F lmt\_glyphshape\_usedbox  
F lmt\_glyphshape\_usedline  
F lmt\_glyphshape\_width  
F lmt\_mesh\_set  
F lmt\_mesh\_update  
F lmt\_poisson\_generate  
F lmt\_start\_potrace  
F lmt\_step\_potrace  
F lmt\_stop\_potrace  
F lmt\_surface\_do  
F lmt\_svg\_include  
F loadbytemap  
F loadbytemapfile  
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F mf\_blob\_add  
F mf\_blob\_dimensions  
F mf\_blob\_index  
F mf\_blob\_new  
F mf\_blob\_raw\_content  
F mf\_blob\_raw\_dimensions  
F mf\_blob\_raw\_reset  
F mf\_blob\_raw\_toutf  
F mf\_blob\_raw\_wipe  
F mf\_blob\_size  
F mf\_blob\_width  
F mf\_external\_figure  
F mf\_finish\_saving\_data  
F mf\_formatted\_text  
F mf\_get\_outline\_text  
F mf\_graphic\_text  
F mf\_inject\_blob  
F mf\_map\_move  
F mf\_map\_text  
F mf\_named\_color  
F mf\_outline\_text

F mf\_save\_data  
F mf\_script\_index  
F mf\_start\_saving\_data  
F mf\_stop\_saving\_data  
F mode  
F n  
F newbytemap  
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F numeric  
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F pairpoints  
F path  
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F processbytemap  
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F downgradebytemap  
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F finder  
F finish  
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F getbytemapdata  
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F getcolormodels  
F getfields

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 F getobjecttypes  
 F getpruneoptions  
 F getresultstatus  
 F getscantypes  
 F getstates  
 F getstatistics  
 F getstatus  
 F gettolerance  
 F gettype  
 F gettypes  
 F injectboolean  
 F injectcmykcolor  
 F injectcolor  
 F injectinteger  
 F injectnumber  
 F injectnumeric  
 F injectpair  
 F injectpath  
 F injectstring  
 F injecttransform  
 F injectvector  
 F injectvectors  
 F injectwhatever  
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 F peninfo  
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 F scanboolean  
 F scancmykcolor  
 F scancolor  
 F scanexpression  
 F scaninteger  
 F scannext  
 F scannumber

F scannumeric  
 F scanpair  
 F scanpath  
 F scanpen  
 F scanproperty  
 F scanstring  
 F scansymbol  
 F scantoken  
 F scantransform  
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 F settolerance  
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F processnested

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F checkdiscretionaries

F checkdiscretionary

F copy

F copyleft

F count

F currentattributes

F dimensions

F effectiveglue

F endofmath

F family\_font

F fields

F findattribute

F flattendiscretionaries

F flushlist

F flushnode

F free

F getattribute

F getcachestate

F getfield



F getfielderror  
F getglue  
F getnodeerrorvalues  
F getpropertystable  
F getproperty  
F gluetostring  
F hasattribute  
F hasfield  
F hasglyph  
F hpack  
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F id  
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F instock  
F intracking  
F inuse  
F isnode  
F iszeroglue  
F kerning  
F lastnode  
F length  
F ligaturing  
F makeextensible  
F mlisttohlist  
F new  
F protectglyph  
F protectglyphs  
F protrusionskippable  
F rangedimensions  
F remove  
F serialized  
F setattribute  
F setfield  
F setfielderror  
F setglue  
F setproperty  
F show  
F size  
F slide  
F subtypes  
F tail  
F todirect  
F tonode

F toString  
F traverse  
F traverseid  
F type  
F types  
F unprotectglyph  
F unprotectglyphs  
F unsetattribute  
F usedlist  
F usesfont  
F vpack  
F write

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D accentcodes  
F aligned  
F append  
F apply  
F applyvisuals  
F astable  
F basepoints  
D boundarycodes  
D choicecodes  
F concat  
F copy  
F copy\_node  
F copyleft  
F countall  
F currentattributes  
F delete  
D dircodes  
D directioncodes  
D directionvalues  
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D disccodes  
D discretionarycodes  
D fencecodes  
F fields  
D fillcodes  
D fillvalues  
F firstdirinbox  
F flush  
F flushlist  
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F fullhpack	D noadcodes
F getattr	D nodecodes
F getattribute	F nopts
F getboth	F packlist
F getbox	D parcodes
F getchar	D penaltycodes
F getfield	F points
F getfont	F prepend
F getid	F print
F getleader	F pts
F getlist	D radicalcodes
F getnext	F rehpack
F getprev	F remove
F getproperty	F repackhlist
F getsubtype	F replace
D gluecodes	F report
D glyphcodes	F rightmarginwidth
F hasattribute	D rulecodes
F hasfield	F serialize
F hpack	F serializebox
F idsandsubtypes	F serialized
F idstostring	F setattr
F insertafter	F setattrtribute
F insertbefore	F setattrrlist
F insertlistafter	F setboth
F installattributehandler	F setbox
F is_display_math	F setboxtonaturalwd
F isdirect	F setchar
F isnode	F setfield
F isnut	F setfont
D kerncodes	F setleader
F leftmarginwidth	F setlink
F link	F setlist
F linked	F setnext
F list	F setprev
D listcodes	F setproperty
F listtoutf	F showboxes
D literalvalues	F showlist
F locate	F showsimplelist
D markcodes	D skipcodes
D mathcodes	F somepenalty
D mathvalues	F somespace
F maxboxwidth	F splitbox
F new	F startofpar

F stripdiscretionaries  
D subtypes  
F tail  
F takeattr  
F takebox  
F tobasepoints  
F tocentimeters  
F tociceros  
F todidots  
F todimen  
F toinches  
F tomillimeters  
F tonode  
F tonodes  
F tonut  
F topicas  
F topoints  
F toscaledpoints  
F tosequence  
F tostring  
F totable  
F totree  
F toutf  
F traverse  
F traverseid  
F unsetattribute  
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F bytetodecimal  
F compactfloat  
F decimaltobyte  
D dimenfactors  
F formatted  
F formattedfloat  
F fractiontobyte

F idiv  
N maxdimen  
F nopts  
F nubasepoints  
F nupoints  
F percent  
F points  
F pts  
F signed  
F sparseexponent  
F splitdimen  
F to16dot16  
F tobasepoints  
F tobitstring  
F tocentimeters  
F tociceros  
F tocontext  
F todidots  
F todimen  
F toediths  
F toevenhex  
F toinches  
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F tonumberf  
F tonumberg  
F topicas  
F topoints  
F toscaled  
F toscaledpoints  
F totoves  
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S binsuffix  
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 F clock  
 F converttime  
 F date  
 F difftime  
 F enableansi  
 D env  
 F execute  
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 F getcodepage  
 F getenv  
 F getnamevalues  
 F gettimeofday  
 F gettypevalues  
 F getunamfields  
 F isleapyear  
 F launch  
 S libsuffix  
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 S selfbin  
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 S selfdir  
 S selflink  
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 F serialwrite  
 F setenv  
 F setexitcode  
 F setlocale  
 F sleep  
 F startuptime  
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F timezone  
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 F today  
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 S cpath  
 F extralibpath  
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 F extraluapaths  
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 F loadlib  
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 F close  
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 F getarray  
 F getboolean  
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 F getcatalog  
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F getfieldtypes		F NaN
F getfromarray		F NaR
F getfromdictionary		F __add
F getfromobject		F __band
F getfromreference		F __bor
F getfromstream		F __bxor
F getinfo		F __div
F getinteger		F __eq
F getmemoryusage		F __le
F getname		F __lt
F getnofobjects		F __mul
F getnofpages		S __name
F getnumber		F __pow
F getobjectrange		F __shl
F getpage		F __shr
F getpages		F __sub
F getpermissions		F __tostring
F getsize		F __unm
F getstatus		F abs
F getstatusvalues		F acos
F getstream		F asin
F getstring		F atan
F gettrailer		F band
F getversion		F bor
F new		F bxor
F open		F ceil
F openfile		F conj
F openstream		F copy
F pagestotable		F cos
F readfromstream		F exp
F readwholestream		F exp2
F type		F expand
F unencrypt		F floor
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F applyfilter		F fromposit
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F makemask		F log10
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F tocmk		F logb
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F new  
F pow  
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F shift  
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F sqrt  
F tan  
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F tochar  
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F convert  
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F free  
F fromfile  
F getbitmap  
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F finder  
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F pop		F findgivenfile
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F allprefixes		F findwldcardfiles
F appendhash		F formatofsuffix
F automount		F formatofvariable
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F cleanedpathlist		D generators
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D concatenators		F gethashes
S configbanner		F getownpath
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F datastate		S homedir
F dirstatus		F ignorelibrary
F dowithfilesandreport		F initialized
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F expandedpathfromlist		F knownvariables
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F openbinfile	F texdata-blob
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F opentexfile	F unexpandedpath
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F popextrapath	F unresolve
F popinputname	F updaterelations
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 F readinteger1  
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F getmvlstate  
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F getpoolstate  
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F disable  
F enable  
F flush  
F initialize  
F push  
F start  
F stop  
F synchronize

**string** table

F autodouble  
F autosingle  
F booleanstring  
F byte  
F bytepairs  
F bytes  
F bytetable  
F char  
F characterpairs  
F characters  
F checkedsplit  
F chrtointeger  
F collapsespaces  
F containsws  
F count  
F dectointeger  
F dump  
F escapedpattern  
F escapedquotes  
F f6  
F find  
F format  
F formatter  
D formatters  
F fullstrip  
F gmatch  
F gsub  
F hextocharacters  
F hextointeger  
F is\_boolean  
F is\_empty  
F itself  
F len  
F limit

F linetable	F upper	
F longtostring	F utf16toutf8	
F lower	F utfcharacter	
F match	F utfcharacters	
F nospaces	F utfcharactertable	
F octtointeger	F utflength	
F optionalquoted	F utfpadd	
F pack	F utfpadding	
F packrowscolumns	F utftabletostring	
F packsize	F utfvalue	
F quote	F utfvalues	
F quoted	F utfvaluetable	
F rep	F valid	
F replacenewlines	F wordsplitter	
F reverse	<b>structures</b>	<b>table</b>
F split	F allocation	
F splitintolines	F currentsectionnumber	
F splitlines	<b>table</b>	<b>table</b>
F splitup	F append	
F strip	F are_equal	
F sub	F combine	
F texhashed	F compact	
F texnewlines	F concat	
F tformat	F contains	
F toHEX	F copy	
F toboolean	F count	
F tobytes	F create	
F tocontext	F derive	
F todec	F deserialize	
F todimen	F fastcopy	
F tohex	F fastserialize	
F tonodes	F filtered	
F topattern	F flattened	
F totable	F fromhash	
F tunicode16	F getn	
F toutf	F has_one_entry	
F toutf16	F hashed	
F toutf32	F identical	
F toutf8	F imerge	
F tracedchar	F imerged	
F unescapedquotes	F insert	
F unpack	F is_empty	
F unquote	F is_simple_table	
F unquoted	F keys	

F load  
F loweredkeys  
F makeweb  
F merge  
F merged  
F mirrored  
F move  
F pack  
F prepend  
F print  
F remove  
F reverse  
F reversed  
F save  
F sequenced  
F serialize  
F setmetatablecall  
F setmetatableindex  
F setmetatableindices  
F setmetatablenewindex  
F sort  
F sorted  
F sortedhash  
F sortedhashkeys  
F sortedhashonly  
F sortedindexonly  
F sortedkeys  
F sortedpairs  
F sparse  
F strip  
F sub  
F swapped  
F tocontext  
F tocsv  
F tofile  
F tohandle  
F tohash  
F toxml  
F unique  
F unpack

## tex

F attributetracking  
D automigrationcodes  
D autoparagraphcodes

## table

F badness  
D badnessmodecodes  
F balance  
D balancecallbackcodes  
D boxoptioncodes  
D breakcodes  
D buildcodes  
D charactercontrolcodes  
D charactertagcodes  
F chardef  
D classoptioncodes  
D conditionals  
D constants  
F cprint  
N ctdcatcodes  
N ctxcatcodes  
F definefont  
F dimensiondef  
D directioncodes  
D directives  
D discoptioncodes  
D discpartcodes  
F dontcomplain  
D doublescriptoptioncodes  
F enableprimitives  
F error  
F expandasvalue  
D experiments  
F extraprimitives  
F fatalerror  
D fillcodes  
D flagcodes  
F fontidentifier  
F fontname  
F forcehmode  
F forceinputstatefile  
F forceinputstateline  
F fprint  
D frozenparcodes  
F get  
F getadjustoptionvalues  
F getalignmentcontextvalues  
F getamcode  
F getappendadjustcontextvalues

F getappendmigratecontextvalues	F getglyphprotectionvalues
F getattribute	F getglyphscales
F getautomigrationvalues	F getglyphscript
F getautoparagraphvalues	F getglyphstate
F getbadnessmodevalues	F getgroupvalues
F getbalancecallbackvalues	F gethccode
F getbalanceparameterfields	F gethelptext
F getbalanceresultfields	F gethmcode
F getbalancestepoptionvalues	F gethyphenationvalues
F getbox	F getiftypes
F getboxdir	F getinputstatefile
F getboxoptionvalues	F getinputstateline
F getboxresourcebox	F getinputstatemode
F getboxresourcedimensions	F getinsertcontent
F getbreakcontextvalues	F getinsertdepth
F getbuildcontextvalues	F getinsertdistance
F getcardinalvalue	F getinsertheight
F getcatcode	F getinsertlimit
F getcccode	F getinsertmultiplier
F getcharactercontrolvalues	F getinsertwidth
F getcharacteretagvalues	F getintegervalue
F getcount	F getinteraction
F getcurrentmvl	F getinteractionmodes
F getdelcode	F getiovalues
F getdelcodes	F getkerneloptionvalues
F getdimen	F getkernoptionvalues
F getdimensionvalue	F getlargestusedmark
F getdirectionvalues	F getlccode
F getdiscoptionvalues	F getlinebreakparameterfields
F getdiscpartvalues	F getlinebreakresultfields
F getdoublescriptoptionvalues	F getlinebreakstatevalues
F getemptyparagraphmodevalues	F getlinedir
F geterrorvalues	F getlist
F getfillvalues	F getlistanchorvalues
F getflagvalues	F getlistfields
F getfloat	F getlistgeometryvalues
F getfontdimension	F getlistsignvalues
F getfontoffamily	F getlocalbox
F getfrozenparvalues	F getlocalboxlocations
F getglue	F getlocallevel
F getglueoptionvalues	F getmark
F getglyphdata	F getmarknames
F getglyphdiscvalues	F getmath
F getglyphoptionvalues	F getmathclassoptionvalues

F getmathcode	F getprepoststatevalues
F getmathcodes	F getprimitivelegacies
F getmathcontrolvalues	F getprimitiveorigins
F getmathdir	F getprotrusionboundaryvalues
F getmathgluevalues	F getregisterindex
F getmathoptionvalues	F getruleoptionvalues
F getmathparametervalues	F getrunstate
F getmathscriptordervalue	F getrunstatevalues
F getmathscriptsmodevalues	F getsfcode
F getmathstylenamevalues	F getshapingpenaltiesvalues
F getmathstylevalues	F getskip
F getmathstylevariant	F getsnappingvalues
F getmathsurroundvalues	F getspecialmathclassvalues
F getmathvariantpresets	F getspecification
F getmathvariantvalues	F getspecificationoptionvalues
F getmeasure	F gettextcontrolvalues
F getmissingcharactervalues	F gettextdir
F getmode	F gettoks
F getmodevalues	F getuccode
F getmuglue	F getuleaderlocationvalues
F getmuskip	F getunitclassvalues
F getmvloptionvalues	F getusedmarks
F getnest	F getvsplitcontextvalues
F getnestfields	D glueoptioncodes
F getnestlevel	D glyphdiscodes
F getnoadooptionvalues	D glyphoptioncodes
F getnormalizelinevalues	D groupcodes
F getnormalizeparvalues	F hashtokens
F getoutputactive	N hshcatcodes
F getpacktypevalues	D hyphenationcodes
F getpagecontextvalues	D ifs
F getpagestate	N inicatcodes
F getpagestatevalues	F integerdef
F getparagraphoptionvalues	D interactioncodes
F getparametermodevalues	F isattribute
F getparcontextvalues	F isbox
F getpardataspecifications	F iscount
F getpardir	F isdefined
F getparmodevalues	F isdimen
F getparstate	F isfloat
F getparstatefields	F isglue
F getpartriggervalue	F ismuglue
F getpenaltyoptionvalues	F ismuskip
F getpositvalue	F isprintable

F isskip	D ruleoptioncodes
F istoks	F runlocal
F lastnodetype	D runstatecodes
F linebreak	F runstring
D linebreakstatecodes	F runtoks
D listanchorcodes	F saveboxresource
D listgeometrycodes	F scale
D listsigncodes	F scantoks
N luacatcodes	F set
F mathchardef	F setamcode
D mathcontrolcodes	F setattribute
D mathoptioncodes	F setbalanceshape
D mathparametercodes	F setbox
D mathscriptordercodes	F setboxdir
D mathscriptsmodecodes	F setcardinalvalue
D modes	F setcatcode
F mprint	F setcccode
D mvloptioncodes	F setconditional
N nilcatcodes	F setcount
D noadoptoptioncodes	F setdelcode
D normalizelinecodes	F setdimen
D normalizeparcodes	F setdimensionvalue
N notcatcodes	F setfloat
F number	F setglue
F overloadpermitted	F setglyphdata
D parcontextcodes	F setglyphscript
D partriggercodes	F setglyphstate
D penaltyoptioncodes	F sethccode
F poplocal	F sethmcode
F popsavelevel	F setinputstatefile
F positdef	F setinputstateline
F preparelinebreak	F setinputstatemode
F primitives	F setinsertcontent
F print	F setinsertdistance
D protrusionboundarycodes	F setinsertlimit
N prtcatcodes	F setinsertmultiplier
F pushlocal	F setintegervalue
F pushesavelevel	F setinteraction
F quitlocal	F setlccode
F quittoks	F setlinedir
F resetparagraph	F setlist
N rlnatcodes	F setlocalbox
F romannumeral	F setmath
F round	F setmathcode



F setmathdir  
 F setmuglue  
 F setmuskip  
 F setnest  
 F setpardir  
 F setpositvalue  
 F setrunstate  
 F setsfcode  
 F setskip  
 F settexdir  
 F settoks  
 F setuccode  
 D shapingpenaltiescodes  
 F shiftparshape  
 F shipout  
 F showcontext  
 D snappingcodes  
 F snapshotpar  
 F sp  
 D specialmathclasscodes  
 D specificationoptioncodes  
 F splitbox  
 D splitcodes  
 F sprint  
 F stringtocodesbitmap  
 D systemmodes  
 F takebox  
 N texcatcodes  
 D textcontrolcodes  
 F tonumber  
 F toscaled  
 N tpatcatcodes  
 N tpbcacodes  
 F tprint  
 F trackedattribute  
 D trackers  
 F triggerbuildpage  
 N txtcatcodes  
 F uprint  
 F useboxresource  
 D userdiscoptioncodes  
 D userglyphoptioncodes  
 N vrbcatcodes  
 F write

## **texconditionals**

### **texconfig**

S firstline  
 S formatname  
 N functionsize  
 F init  
 B kpse\_init  
 N propertiessize  
 S shell\_escape

### **texconstants**

### **texifs**

### **texio**

F closeinput  
 F forceendoffile  
 F getinputindex  
 F getselectorvalues  
 F getsourcefilename  
 F setlogfile  
 F terminal  
 F write  
 F write\_nl  
 F writenl  
 F writeselector  
 F writeselectorlf  
 F writeselectornl

### **texisdefined**

### **texmodes**

### **texsystemmodes**

### **thirddata**

### **toboolean**

### **todecimal**

### **token**

F create  
 F expand  
 F expand\_macro  
 F expandmacro  
 F future\_expand  
 F futureexpand  
 F get\_active  
 F get\_cmdchrsc  
 F get\_cmdname  
 F get\_command  
 F get\_csname  
 F get\_cstoken

data table  
table

data table  
data table  
table

data table  
data table  
data table  
table  
function  
function  
table

F get_dimension	F getparameters
F get_expandable	F getpermanent
F get_fields	F getprimitive
F get_flags	F getprimitives
F get_frozen	F getprotected
F get_id	F getrange
F get_immutable	F gettok
F get_index	F gettolerant
F get_instance	F gobble
F get_integer	F gobble_dimension
F get_macro	F gobble_integer
F get_meaning	F gobbledimension
F get_noaligned	F gobbleinteger
F get_parameters	F grab
F get_permanent	F grabstring
F get_primitive	F inhibit
F get_protected	F is_defined
F get_range	F is_next_char
F get_tok	F is_token
F get_tolerant	F isactivestring
F getactive	F isdefined
F getcmdchracs	F isnextchar
F getcmdname	F istoken
F getcommand	F locatemacro
F getcommandvalues	F new
F getconstant	F peek_next
F getsname	F peek_next_char
F getcstoken	F peek_next_expanded
F getdimension	F peeknext
F getexpandable	F peeknextchar
F getexpansion	F peeknextexpanded
F getfields	F pop_macro
F getflags	F popmacro
F getfrozen	F push_macro
F getfunctionvalues	F pushmacro
F getid	F put_back
F getimmutable	F put_next
F getindex	F putback
F getinstance	F putnext
F getinteger	F save_lua
F getlength	F savelua
F getmacro	F scan_argument
F getmeaning	F scan_box
F getnoaligned	F scan_cardinal

F scan_char	F scandimensionargument
F scan_cmdchr	F scanfloat
F scan_cmdchr_expanded	F scanglue
F scan_code	F scanint
F scan_csname	F scaninteger
F scan_delimited	F scanintegerargument
F scan_dimen	F scankey
F scan_float	F scankeyword
F scan_glue	F scankeywordcs
F scan_integer	F scanletters
F scan_key	F scanluacardinal
F scan_keyword	F scanluainteger
F scan_keyword_cs	F scanluanumber
F scan_letters	F scannext
F scan_luacardinal	F scannextchar
F scan_luainteger	F scannextexpanded
F scan_luanumber	F scanposit
F scan_next	F scanreal
F scan_next_char	F scanscale
F scan_next_expanded	F scanskip
F scan_real	F scanstring
F scan_scale	F scantoken
F scan_skip	F scantokencode
F scan_string	F scantokenlist
F scan_token	F scantokenstring
F scan_token_code	F scantoks
F scan_tokenlist	F scanvalue
F scan_toks	F scanword
F scan_value	F serialize
F scan_word	F set_dimension
F scanargument	F set_integer
F scanbox	F set_lua
F scancardinal	F set_macro
F scanchar	F setdimension
F scancmdchr	F setinteger
F scancmdchrexpanded	F setlua
F scancode	F setmacro
F scancsname	F setmacrofrommark
F scancstoken	F setmacrotonothing
F scandelimited	F skip_next
F scandetokened	F skip_next_expanded
F scandimen	F skipnext
F scandimenargument	F skipnextexpanded
F scandimension	F type

F undefine_macro		<b>typesetters</b>	table
F undefinemacro		F marksuspects	
<b>tokens</b>	table	F showinvisibles	
F astable		F showsuspects	
D cache		<b>unpack</b>	function
D commands		<b>updaters</b>	table
F compile		F apply	
F constant		F register	
F create		<b>url</b>	table
F defined		F addscheme	
F flags		F barepath	
F getinteger		F construct	
F gobble		F decode	
F isactivestring		F encode	
F isdefined		F escape	
F istoken		F filename	
F new		F hashed	
F pickup		F hasscheme	
F popmacro		F query	
F pushmacro		F split	
F setinteger		F toquery	
D values		F unescape	
<b>tonumber</b>	function	F unescapeget	
<b>tostring</b>	function	<b>userdata</b>	table
<b>tracers</b>	table	<b>utf</b>	table
F printerror		F byte	
F printwarning		F bytewidth	
F showlines		F char	
<b>trackers</b>	table	F characters	
D data		F chrln	
F default		F count	
F disable		F filetype	
F dumphashtofile		F is_valid	
F enable		F len	
F list		F length	
S name		F lower	
F register		F remapper	
F report		F replacer	
F reset		F split	
F savehash		F splitlines	
F show		F sub	
F value		F substituter	
F values		F tocodes	
<b>type</b>	function	F toeight	

F toentities  
F tostring  
F totable  
F upper  
F ustring  
F utf16\_to\_utf8\_be  
F utf16\_to\_utf8\_be\_t  
F utf16\_to\_utf8\_le  
F utf16\_to\_utf8\_le\_t  
F utf16\_to\_utf8\_t  
F utf32\_to\_utf8\_be  
F utf32\_to\_utf8\_be\_t  
F utf32\_to\_utf8\_le  
F utf32\_to\_utf8\_le\_t  
F utf32\_to\_utf8\_t  
F utf8\_to\_utf16  
F utf8\_to\_utf16\_be  
F utf8\_to\_utf16\_le  
F utf8\_to\_utf8\_t  
F values  
F xstring

**utf8** table

F char  
S charpattern  
F codepoint  
F codes  
F len  
F offset

**utilities** table

**vector** table

F add  
F append  
F average  
F ceiling  
F checkoverlap  
F collectoverlap  
F concat  
F copy  
F crossproduct  
F delete  
F determinant  
F div  
F equal  
F exchange

F floor  
F get  
F getdimensions  
F getepsilon  
F getmesh  
F getrc  
F getrow  
F getstacking  
F gettype  
F homogenize  
F identity  
F inner  
F insert  
F inverse  
F ismesh  
F issingular  
F isvector  
F iszero  
F meshname  
F mul  
F negate  
F new  
F normalize  
F onecolumn  
F onerow  
F product  
F remove  
F replace  
F round  
F rowechelon  
F set  
F setepsilon  
F setnext  
F setrc  
F setstacking  
F slice  
F sort  
F sub  
F swap  
F tostring  
F totable  
F transpose  
F triangulate  
F truncate

F type  
**visualizers** table

D escapepatterns  
F getspecification  
F getvisualizer  
F load  
F makenested  
F makepattern  
F newgrammar  
F newhandler  
F parsedxml  
F pattern  
F register  
F registerescapecommand  
F registerescapepline  
F registerescapepattern  
S signal  
U signalpattern  
D specifications  
F visualize  
F visualizebuffer  
F visualizefile  
F visualizestring  
F write  
F writeargument  
F writedefault  
F writeemptyline  
F writenewline  
F writespace

**warn** function  
**xcomplex** table

F I  
F \_\_add  
F \_\_div  
F \_\_eq  
F \_\_mul  
S \_\_name  
F \_\_pow  
F \_\_sub  
F \_\_tostring  
F \_\_unm  
F abs  
F acos  
F acosh

F arg  
F asin  
F asinh  
F atan  
F atanh  
F conj  
F cos  
F cosh  
F dawson  
F erf  
F erfc  
F erfcx  
F erfi  
F exp  
F i  
F imag  
F log  
F new  
F pow  
F proj  
F real  
F sin  
F sinh  
F sqrt  
F tan  
F tanh  
F topair  
F tostring  
F totable  
F voigt  
F voigt\_hwhm

**xdecimal** table

F \_\_add  
F \_\_band  
F \_\_bor  
F \_\_bxor  
F \_\_div  
F \_\_eq  
F \_\_idiv  
F \_\_le  
F \_\_lt  
F \_\_mod  
F \_\_mul  
S \_\_name

F \_\_pow  
F \_\_shl  
F \_\_shr  
F \_\_sub  
F \_\_tostring  
F \_\_unm  
F abs  
F band  
F bor  
F bxor  
F conj  
F copy  
F exp  
F getprecision  
F ln  
F log  
F max  
F min  
F minus  
F new  
F plus  
F pow  
F rotate  
F setprecision  
F shift  
F sqrt  
F toengstring  
F tonumber  
F tostring  
F trim

## **xmath**

F acos  
F acosh  
F asin  
F asinh  
F atan  
F atan2  
F atanh  
F cbrt  
F ceil  
F copysign  
F cos  
F cosh  
F deg

## **table**

F erf  
F erfc  
F exp  
F exp2  
F expm1  
F fabs  
F fdim  
F floor  
F fma  
F fmax  
F fmin  
F fmod  
F frexp  
F gamma  
F hypot  
N inf  
F isfinite  
F isinf  
F isnan  
F isnormal  
F j0  
F j1  
F jn  
F ldexp  
F lgamma  
F log  
F log10  
F log1p  
F log2  
F logb  
F modf  
N nan  
F nearbyint  
F nextafter  
N pi  
F pow  
F rad  
F remainder  
F remquo  
F round  
F scalbn  
F sin  
F sinh  
F sqrt





F lpathcalls	F setcdata	
F lshow	F setcomment	
F makestandalone	F sethandlersfunction	
F match	F setinjectors	
F name	F setproperty	
F newhandlers	F settings	
F nodesettostring	D specialcodes	
F originalload	F sprint	
F package	F string	
F parent	F strip	
U parsedentitylpeg	F strip_whitespace	
F popmatch	F stripelement	
F position	F stripleadingspaces	
D privatecodes	F table	
F privatetoken	F text	
F process	F textonly	
F process_attributes	F texttocdata	
F process_elements	F tocdata	
F processattributes	F toelement	
F pure	F tostring	
F pushmatch	F totable	
F raw	F toxml	
F registerentity	F tprint	
F registers	F traverse	
F reindex	F unescaped	
F remap_name	U unescapedentitylpeg	
F remap_namespace	F unprivatized	
F remap_tag	F unspecialized	
F remapname	F wipe	
F remapnamespace	F withelement	
F remaptag	F withelements	
F rename	F wrap	
F renamespace	<b>xpcall</b>	function
U reparsedentitylpeg	<b>xzip</b>	table
F replace	F adler32	
F replace_element	F compress	
F resetinjectors	F compresssize	
F resolvens	F crc32	
F root	F decompress	
F save	F decompresssize	
F selection	<b>zip</b>	table
F separate	F closearchive	
F serialize	F openarchive	
F serializetotext	<b>zlib</b>	table

F adler32

F crc32

F compress

F decompress

F compresssize

F decompresssize

# graphics (context)

## backgrounds

F fetchmultipar  
F pair  
F path  
F point

table

## bitmaps

F flush  
F load  
F new  
F placeholder  
F tocontext

table

## bpsize

function

## colorspaces

table

## identifiers

table

F bitmap  
F jp2  
F jpeg  
F jpg  
F png

## identify

function

## registerpdfcompactor

function

## registerpdffont

function

## synchronizers

table

F collapse  
F collect  
F extend  
F getbottom  
F getd  
F geth  
F getkind  
F getsize  
F gettask  
F gettop  
F getw  
F getx  
F gety  
F prune

## gzip (context)

**compress** function

**compressed** function

**decompress** function

**load** function

**save** function

**suffix** function

## helper (context)

**getprofile** function  
**mathnested** function  
**mathprocess** function  
**mathstep** function  
**snapindeed** function

**snaplist** function  
**traversecharmethod** function  
**traverseglyphmethod** function  
**traversehorizontal** function  
**traversevertical** function

# images (context)

<b>check</b>	function	B crop	
<b>checksize</b>	function	B media	
<b>copy</b>	function	B none	
<b>create</b>	function	B trim	
<b>embed</b>	function	<b>storedata</b>	function
<b>embedfromstore</b>	function	<b>totable</b>	function
<b>fetchdata</b>	function	<b>types</b>	table
<b>keys</b>	table	N jbig2	
<b>print</b>	function	N jp2	
<b>resetdata</b>	function	N jpg	
<b>resetstore</b>	function	N none	
<b>scan</b>	function	N pdf	
<b>serialize</b>	function	N png	
<b>sizes</b>	table	N stream	
B art		<b>wrap</b>	function
B bleed			

# interactions (context)

**attachments** data table

**fields** table

F clone

F define

F defineset

F insert

**general** table

F getidentity

F getidentityvariable

**help** table

F collect

F reference

F register

**javascripts** table

F addtopreamble

F code

D codes

F flushpreambles

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

**linkedList** data table

**pages** table

F setpagetransition

F setupcanvas

**references** table

F setclosedocumentaction

F setclosepageaction

F setopendocumentaction

F setopenpageaction

**renderings** data table

# interfaces (context)

<b>arrays</b>	table	<b>namesofscanners</b>	table
<b>cachedsetups</b>	data table	<b>namespaces</b>	table
<b>cachesetup</b>	function	F define	
<b>cardinals</b>	table	F list	
<b>checkedspecification</b>	function	<b>numbers</b>	table
<b>complete</b>	data table	<b>registernamespace</b>	function
<b>constants</b>	data table	<b>registerscanner</b>	function
<b>corenamespaces</b>	data table	<b>scanners</b>	data table
<b>currentinterface</b>	string	<b>setconstant</b>	function
<b>currentresponse</b>	string	<b>setcount</b>	function
<b>definecommand</b>	function	<b>setdimen</b>	function
<b>defined</b>	function	<b>setelement</b>	function
<b>doifelsemessage</b>	function	<b>setformat</b>	function
<b>elements</b>	data table	<b>setmacro</b>	function
<b>floats</b>	table	<b>setmessage</b>	function
<b>formats</b>	data table	<b>setmessages</b>	function
<b>getmessage</b>	function	<b>settranslation</b>	function
<b>getnamespace</b>	function	<b>setupstrings</b>	data table
<b>getsetupstring</b>	function	<b>setvariable</b>	function
<b>hashedsetups</b>	data table	<b>showmessage</b>	function
<b>implement</b>	function	<b>storedscanners</b>	data table
<b>integers</b>	table	<b>tolist</b>	function
<b>interfacedcommand</b>	function	<b>translations</b>	data table
<b>interfaces</b>	table	<b>usednamespaces</b>	data table
<b>knownscanner</b>	function	<b>variables</b>	data table
<b>message</b>	function	<b>writestatus</b>	function
<b>nameofscanner</b>	function		



## io (basic lua)

<b>ask</b>	function	<b>open</b>	overloaded function
<b>bytes</b>	function	<b>output</b>	overloaded function
<b>characters</b>	function	<b>pathseparator</b>	string
<b>close</b>	function	<b>popen</b>	overloaded function
<b>copydata</b>	function	<b>read</b>	function
<b>exists</b>	function	<b>readall</b>	function
<b>fileseparator</b>	string	<b>readnumber</b>	function
<b>flush</b>	function	<b>readstring</b>	function
<b>gobble</b>	function	<b>savedata</b>	function
<b>input</b>	overloaded function	<b>size</b>	function
<b>lines</b>	overloaded function	<b>stderr</b>	userdata
<b>loadchunk</b>	function	<b>stdin</b>	userdata
<b>loaddata</b>	function	<b>stdout</b>	userdata
<b>loadlines</b>	function	<b>tmpfile</b>	function
<b>newreader</b>	function	<b>type</b>	function
<b>noflines</b>	function	<b>write</b>	function

# job (context)

<b>comment</b>	function	D collected	
<b>datasets</b>	table	F countervalue	
D collected		F extend	
F extend		F realpage	
F getdata		F realpageorder	
F setdata		F setstate	
D tobesaved		D tobesaved	
<b>disablesave</b>	function	<b>parwrappers</b>	table
<b>embedded</b>	table	D collected	
D collected		D tobesaved	
D tobesaved		<b>positions</b>	table
<b>fileobjreferences</b>	table	F b_column	
D collected		F b_region	
D tobesaved		F c	
<b>files</b>	table	D collected	
D collected		F column	
F context		F columnofpos	
B forcerun		F copy	
F run		F depth	
D tobesaved		F e_column	
<b>getrandomseed</b>	function	F e_region	
<b>initialize</b>	function	F enhance	
<b>linkedlists</b>	table	F extra	
D collected		F get	
D tobesaved		F getcolumndata	
<b>load</b>	function	F getfree	
<b>loadother</b>	function	F gethpos	
<b>meshedup</b>	table	F gethvrpos	
D collected		F getpos	
D tobesaved		F getreserved	
<b>objects</b>	table	F getrpos	
D collected		F getsync	
F get		F gettobesaved	
F number		F getvpos	
F page		F hangafter	
F save		F hangindent	
F set		F height	
D tobesaved		F hsize	
<b>pack</b>	boolean	N lastr	
<b>packversion</b>	number	N lastx	
<b>pagestates</b>	table	N lasty	

F leftskip	F upperleft	
F lowerleft	F upperright	
F lowerright	F used	
F markregionbox	F whd	
F n	F width	
F onsamepage	F x	
F overlapping	F xy	
F p	F y	
F page	<b>register</b>	function
F paragraph	<b>save</b>	function
F parindent	<b>structure</b>	table
F position	D collected	
F r	<b>variables</b>	table
F region	D checksums	
F registerhandlers	D collected	
F replace	F getchecksum	
F rightskip	F makechecksum	
F set	F restore	
F setall	F save	
F setregionbox	F setchecksum	
F setspec	D tobesaved	
F settobesaved	<b>version</b>	number
D tobesaved		

## language (basic tex)

<b>clean</b>	function	<b>id</b>	function
<b>clearhyphenation</b>	function	<b>new</b>	function
<b>clearpatterns</b>	function	<b>patterns</b>	function
<b>current</b>	function	<b>posttexhyphenchar</b>	function
<b>gethjcode</b>	function	<b>posthyphenchar</b>	function
<b>has_language</b>	function	<b>preexhyphenchar</b>	function
<b>hyphenate</b>	function	<b>prehyphenchar</b>	function
<b>hyphenation</b>	function	<b>sethjcode</b>	function
<b>hyphenationmin</b>	function	<b>setwordhandler</b>	function

# languages (context)

<b>addgoodiesdata</b>	function	<b>numbers</b>	data table
<b>addgoodiesfile</b>	function	<b>pdflanguage</b>	function
<b>appliedoptions</b>	table	<b>postexhyphenchar</b>	function
<b>associate</b>	function	<b>posthyphenchar</b>	function
<b>associated</b>	data table	<b>preexhyphenchar</b>	function
<b>association</b>	function	<b>prehyphenchar</b>	function
<b>counters</b>	data table	<b>registered</b>	data table
<b>current</b>	function	<b>registeredactions</b>	table
<b>data</b>	data table	<b>replacements</b>	table
<b>decimals</b>	data table	F add	
<b>define</b>	function	F addlist	
<b>explicitthyphen</b>	function	F handler	
<b>exportlanguage</b>	function	F set	
<b>flatten</b>	function	<b>serializediscretionary</b>	function
<b>frequencies</b>	table	<b>setexceptions</b>	function
F averagecharwidth		<b>setgoodieshandler</b>	function
F getdata		<b>setoptions</b>	function
<b>getdata</b>	function	<b>setpatterns</b>	function
<b>getmetadata</b>	function	<b>setsynonym</b>	function
<b>getnumber</b>	function	<b>setwordhandler</b>	function
<b>goodiefiles</b>	function	<b>showdiscretionaries</b>	function
<b>hjcounts</b>	table	<b>strippedgoodiewords</b>	function
<b>hyphenate</b>	function	<b>tolang</b>	function
<b>hyphenators</b>	table	<b>transliteration</b>	table
D featuresets		F exception	
F handler		F handler	
F popmethod		F register	
F pushmethod		F set	
F setmethod		F use	
F setup		<b>unload</b>	function
F showhyphenationtrace		<b>urls</b>	table
<b>installed</b>	function	D characters	
<b>installhandler</b>	function	N lefthyphenmin	
<b>labels</b>	table	D mapping	
F define		B packslashes	
F split		N righthyphenmin	
<b>loadable</b>	function	F setcharacters	
<b>loadwords</b>	function	<b>version</b>	number
<b>logger</b>	table	<b>visualizediscretionaries</b>	function
F report		<b>words</b>	table
<b>nofflatten</b>	function	F check	

F disable  
F enable  
B enables

F found  
F load  
N threshold

# layouts (context)

**getcanvas**           function  
**getpagedimensions** function  
**setupcanvas**       function

**status**            table  
    F isleftpage  
    F leftorrightpageaction

## lfs (extra lua)

<b>attributes</b>	overloaded function	<b>link</b>	overloaded function
<b>chdir</b>	overloaded function	<b>mkdir</b>	overloaded function
<b>currentdir</b>	function	<b>makedirs</b>	function
<b>dir</b>	overloaded function	<b>modification</b>	function
<b>isdir</b>	overloaded function	<b>readlink</b>	function
<b>isfile</b>	overloaded function	<b>rmdir</b>	overloaded function
<b>isfound</b>	function	<b>setexecutable</b>	function
<b>isreadabledir</b>	function	<b>symlink</b>	function
<b>isreadablefile</b>	function	<b>symlinktarget</b>	function
<b>iswritabledir</b>	function	<b>touch</b>	overloaded function
<b>iswritablefile</b>	function	<b>walkdir</b>	function



## libraries (context)

**basiclua** data table

**basictex** data table

**builtin** data table

**extralua** data table

**extratex** data table

**functions** data table

**globals** data table

**optional** data table

# lrx (context)

<b>color</b>	function	<b>lrxfile</b>	function
<b>convert</b>	function	<b>loadedfile</b>	function
<b>convertfile</b>	function	<b>make</b>	function
<b>convertstring</b>	function	<b>new</b>	function
<b>einject</b>	function	<b>popupfile</b>	function
<b>eprint</b>	function	<b>print</b>	function
<b>escape</b>	function	<b>pv</b>	function
<b>finalized</b>	function	<b>report</b>	function
<b>finject</b>	function	<b>reset</b>	function
<b>fprint</b>	function	<b>result</b>	function
<b>get</b>	function	<b>set</b>	function
<b>getvariables</b>	function	<b>show</b>	function
<b>htmfile</b>	function	<b>stripcss</b>	function
<b>html</b>	table	<b>tv</b>	function
F a		<b>type</b>	function
F td		<b>urlescape</b>	function
F th		<b>variable</b>	function
<b>include</b>	function	<b>variables</b>	table
<b>inherited</b>	table	S color-background-blue	
S color-background-four		S color-background-body	
S color-background-one		S color-background-green	
S color-background-three		S color-background-main	
S color-background-two		S color-background-purple	
S title		S color-background-yellow	
<b>initialize</b>	function	S title-default	
<b>inject</b>	function		

# logs (context)

<b>application</b>	function	<b>setformats</b>	function
<b>categories</b>	function	<b>setformatters</b>	function
<b>direct</b>	function	<b>setlogfile</b>	function
<b>disable</b>	function	<b>setmessenger</b>	function
<b>enable</b>	function	<b>setprocessor</b>	function
<b>finalactions</b>	function	<b>settarget</b>	function
<b>flush</b>	function	<b>settimedlog</b>	function
<b>loggingerrors</b>	function	<b>settranslations</b>	function
<b>messenger</b>	function	<b>show</b>	function
<b>new</b>	function	<b>start_page_number</b>	function
<b>newline</b>	function	<b>start_run</b>	function
<b>poplogfile</b>	function	<b>starterrorlogging</b>	function
<b>poptarget</b>	function	<b>startfilelogging</b>	function
<b>private</b>	table	<b>status</b>	function
F enablepagetiming		<b>stop_page_number</b>	function
F getpagetiming		<b>stoperrorlogging</b>	function
<b>pushlogfile</b>	function	<b>stopfilelogging</b>	function
<b>pushtarget</b>	function	<b>subdirect</b>	function
<b>registerfinalactions</b>	function	<b>subreport</b>	function
<b>report</b>	function	<b>system</b>	function
<b>reporter</b>	function	<b>texerrormessage</b>	function
<b>resetlogfile</b>	function	<b>writer</b>	function

# lpdf (context)

<b>action</b>	function	<b>copystring</b>	function
<b>adddocumentcolorspace</b>	function	<b>copyunicode</b>	function
<b>adddocumenttextgstate</b>	function	<b>deferredobject</b>	function
<b>adddocumentpattern</b>	function	<b>delayedobject</b>	function
<b>adddocumentshade</b>	function	<b>destinationspecification</b>	function
<b>addtocatalog</b>	function	<b>dictionary</b>	function
<b>addtoinfo</b>	function	<b>docstring</b>	function
<b>addtonames</b>	function	<b>encodingvalues</b>	table
<b>addtopageattributes</b>	function	N base16	
<b>addtopageresources</b>	function	N base85	
<b>addtopagesattributes</b>	function	N decoded	
<b>addxmpinfo</b>	function	N encoded	
<b>annotationspecification</b>	function	N plain	
<b>array</b>	function	N utf16be	
<b>attachmentsymbols</b>	function	N utf16le	
<b>boolean</b>	function	<b>endpoints</b>	table
<b>border</b>	function	S Div	
<b>checkedkey</b>	function	S Part	
<b>checkedresources</b>	function	S Sect	
<b>checkedvalue</b>	function	<b>epdf</b>	table
<b>circularshade</b>	function	F allcontent	
<b>close</b>	function	F analyzefonts	
<b>cmymkcode</b>	function	F contentplugin	
<b>collectedresources</b>	function	F contenttostring	
<b>color</b>	function	F contenttotext	
<b>colorspace</b>	function	D encryptioncodes	
<b>colorspaceconstants</b>	data table	F expanded	
<b>colorspec</b>	function	F expandwidths	
<b>colorvalue</b>	function	F fontplugin	
<b>colorvalues</b>	function	F getpagecontent	
<b>commentsymbols</b>	function	F getstructure	
<b>compressdata</b>	function	F load	
<b>compresslevel</b>	function	F mergewidths	
<b>constant</b>	function	D objectcodes	
<b>copyarray</b>	function	F objectrange	
<b>copyboolean</b>	function	F objecttype	
<b>copyconstant</b>	function	F pageplugin	
<b>copydictionary</b>	function	F parsecontent	
<b>copyfloat</b>	function	F producer	
<b>copyinteger</b>	function	F unload	
<b>copynumber</b>	function	F verboseobject	

<b>escaped</b>	function	S \	
<b>finalizedocument</b>	function	<b>h_hex_4</b>	table
<b>finalizepage</b>	function	<b>hasmatrix</b>	function
<b>finalizesignature</b>	function	<b>immediateobject</b>	function
<b>finishtransparencycode</b>	function	<b>includeimage</b>	function
<b>flags</b>	table	<b>initialize</b>	function
<b>flushfonts</b>	function	<b>injectors</b>	table
<b>flushgroup</b>	function	F bitmap	
<b>flushobject</b>	function	F jp2	
<b>flushstreamfileobject</b>	function	F jpg	
<b>flushstreamobject</b>	function	F png	
<b>fonts</b>	table	<b>injectxmpinfo</b>	function
F color_direct		<b>insertxmpinfo</b>	function
F color_indirect		<b>lastreferredpage</b>	function
<b>formats</b>	data table	<b>layerreference</b>	function
<b>frombytes</b>	function	<b>limited</b>	function
<b>fromeight</b>	function	<b>linearshade</b>	function
<b>frompdfdoc</b>	function	<b>literal</b>	function
<b>fromsixteen</b>	function	<b>majorversion</b>	function
<b>getcatalog</b>	function	<b>makenametree</b>	function
<b>getcompression</b>	function	<b>minorversion</b>	function
<b>getfontname</b>	function	<b>noffontregistries</b>	function
<b>getfontobjectnumber</b>	function	<b>nofpages</b>	function
<b>getformatoption</b>	function	<b>null</b>	function
<b>getinfo</b>	function	<b>number</b>	function
<b>getmatrix</b>	function	<b>object</b>	function
<b>getnofpages</b>	function	<b>objectcompresslevel</b>	function
<b>getpageproperties</b>	function	<b>pagereference</b>	function
<b>getpagereference</b>	function	<b>patternstream</b>	function
<b>getpagetags</b>	function	<b>pdfcolor</b>	function
<b>getpos</b>	function	<b>pdftimestamp</b>	function
<b>gettaggingstatus</b>	function	<b>permissions</b>	table
<b>gettrailerid</b>	function	N access	
<b>getversion</b>	function	N add	
<b>getxformname</b>	function	N assemble	
<b>graycode</b>	function	N extract	
<b>h_hex_2</b>	table	N fillin	
S		N modify	
S		N print	
S		N quality	
S		<b>preparesignature</b>	function
S		<b>print</b>	function
S (		<b>procset</b>	function
S )		<b>protectresources</b>	boolean

<b>quads</b>	function	<b>splitsixteen</b>	function
<b>rectangle</b>	function	<b>spotcode</b>	function
<b>reference</b>	function	<b>stream</b>	function
<b>registerannotation</b>	function	<b>string</b>	function
<b>registerdestination</b>	function	<b>supportedformats</b>	function
<b>registerdocumentfinalizer</b>	function	<b>tocidset</b>	function
<b>registerfontmethod</b>	function	<b>toeight</b>	function
<b>registerinitializer</b>	function	<b>topdfdoc</b>	function
<b>registerpagefinalizer</b>	function	<b>topermissions</b>	function
<b>registerpattern</b>	function	<b>tosixteen</b>	function
<b>registersignature</b>	function	<b>transparency</b>	function
<b>replacexmpinfo</b>	function	<b>transparencycode</b>	function
<b>reserveobject</b>	function	<b>transparencygroups</b>	table
<b>rgbcode</b>	function	B none	
<b>rotationcm</b>	function	<b>transparencyvalue</b>	function
<b>setcompression</b>	function	<b>unicode</b>	function
<b>setencryption</b>	function	<b>usedcharacters</b>	table
<b>setpageorder</b>	function	<b>usedfontnames</b>	table
<b>setpagestate</b>	function	N dejavusansmonoboldttf-1-0-0	
<b>setpagetag</b>	function	<b>usedfontobjects</b>	table
<b>setutfstringmode</b>	function	N dejavusansmonoboldttf-1-0-0	
<b>setversion</b>	function	<b>usedfontstreams</b>	data table
<b>sharedobject</b>	function	<b>usedindices</b>	table
<b>shareobject</b>	function	<b>verbose</b>	function
<b>shareobjectreference</b>	function		

# lpeg (basic lua)

<b>B</b>	function	<b>firstofsplit</b>	function
<b>C</b>	function	<b>frontstripper</b>	function
<b>Carg</b>	function	<b>instringchecker</b>	function
<b>Cb</b>	function	<b>is_lpeg</b>	function
<b>Cc</b>	function	<b>keeper</b>	function
<b>Cf</b>	function	<b>locale</b>	function
<b>Cg</b>	function	<b>match</b>	function
<b>Cmt</b>	function	<b>oneof</b>	function
<b>Cp</b>	function	<b>patterns</b>	data table
<b>Cs</b>	function	<b>pcode</b>	function
<b>Ct</b>	function	<b>print</b>	function
<b>P</b>	function	<b>ptree</b>	function
<b>R</b>	function	<b>replacer</b>	function
<b>S</b>	function	<b>secondofsplit</b>	function
<b>UP</b>	function	<b>setmaxstack</b>	function
<b>UR</b>	function	<b>setutfcasers</b>	function
<b>US</b>	function	<b>split</b>	function
<b>V</b>	function	<b>splitat</b>	function
<b>afterprefix</b>	function	<b>splitter</b>	function
<b>anywhere</b>	function	<b>stripper</b>	function
<b>append</b>	function	<b>times</b>	function
<b>balancer</b>	function	<b>tsplitat</b>	function
<b>beforesuffix</b>	function	<b>tsplitter</b>	function
<b>checkedsplit</b>	function	<b>type</b>	function
<b>containsws</b>	function	<b>utfR</b>	function
<b>counter</b>	function	<b>utfchartabletopattern</b>	function
<b>endstripper</b>	function	<b>utfreplacer</b>	function
<b>finder</b>	function	<b>version</b>	string

## lua (basic tex)

<b>addnibble</b>	function	<b>getstacktop</b>	function
<b>bytecode</b>	table	<b>getstartupfile</b>	function
<b>bytedata</b>	data table	<b>getstringkeys</b>	function
<b>bytedone</b>	table	<b>getversion</b>	function
<b>callbytecode</b>	function	<b>lastbytecode</b>	number
<b>comparekeys</b>	function	<b>messages</b>	data table
<b>finalizeinitex</b>	function	<b>newindex</b>	function
<b>firstbytecode</b>	number	<b>newtable</b>	function
<b>get_functions_table</b>	function	<b>numbers</b>	data table
<b>getallkeys</b>	function	<b>protectglobal</b>	function
<b>getbytecode</b>	function	<b>registercode</b>	function
<b>getcheckedkeys</b>	function	<b>registercodes</b>	function
<b>getcurrenttime</b>	function	<b>registerglobal</b>	function
<b>getdebuginfo</b>	function	<b>registerinitexfinalizer</b>	function
<b>getexitcode</b>	function	<b>registername</b>	function
<b>getfunctionstable</b>	overloaded function	<b>setbytecode</b>	function
<b>getnibble</b>	function	<b>setexitcode</b>	function
<b>getnumerickeys</b>	function	<b>setnibble</b>	function
<b>getpreciseseconds</b>	function	<b>startupfile</b>	string
<b>getpreciseticks</b>	function	<b>subnibble</b>	function
<b>getruntime</b>	function	<b>version</b>	string



## luac (extra lua)

**inspect** function

**print** function

# luatex (context)

<b>abort</b>	function	F disable	
<b>cleanup</b>	function	F enable	
<b>cleanuptempfiles</b>	function	F finish	
<b>currentfile</b>	function	F isenabled	
<b>currentlevel</b>	function	F pause	
<b>currenttotal</b>	function	F popline	
<b>poprunstate</b>	function	F pushline	
<b>pushrunstate</b>	function	F registerdisabler	
<b>registerdumpactions</b>	function	F registerenabler	
<b>registerpageactions</b>	function	F resetfilename	
<b>registerstartactions</b>	function	F resume	
<b>registerstopactions</b>	function	F setfilename	
<b>registertempfile</b>	function	F setup	
<b>starttime</b>	number	F start	
<b>synctex</b>	table	F stop	
F blockfilename		F wrapup	
F collect		<b>wrapup</b>	function

# lxml (context)

<b>addindex</b>	function	<b>filter</b>	function
<b>all</b>	function	<b>filterlist</b>	function
<b>applyfunction</b>	function	<b>first</b>	function
<b>applyselectors</b>	function	<b>flush</b>	function
<b>att</b>	function	<b>flushlinewise</b>	function
<b>attribute</b>	function	<b>flushsetups</b>	function
<b>badinclusions</b>	function	<b>flushspacewise</b>	function
<b>chainattribute</b>	function	<b>get_id</b>	function
<b>checkindex</b>	function	<b>getid</b>	function
<b>collected</b>	function	<b>getindex</b>	function
<b>command</b>	function	<b>id</b>	function
<b>concat</b>	function	<b>idsplitter</b>	userdata
<b>concatrange</b>	function	<b>ifatt</b>	function
<b>content</b>	function	<b>ifattempty</b>	function
<b>context</b>	function	<b>include</b>	function
<b>convert</b>	function	<b>inclusion</b>	function
<b>count</b>	function	<b>inclusions</b>	function
<b>delete</b>	function	<b>index</b>	function
<b>depth</b>	function	<b>inlineverbatimim</b>	function
<b>direct</b>	function	<b>installsetup</b>	function
<b>directives</b>	table	<b>last</b>	function
F after		<b>lastatt</b>	function
F before		<b>lastmatch</b>	function
F handle		<b>lastpar</b>	function
F load		<b>load</b>	function
F setup		<b>loadbuffer</b>	function
<b>displayverbatimim</b>	function	<b>loaddata</b>	function
<b>doif</b>	function	<b>loaded</b>	table
<b>doifelse</b>	function	<b>main</b>	function
<b>doifelseempty</b>	function	<b>match</b>	function
<b>doifelsetext</b>	function	<b>name</b>	function
<b>doifempty</b>	function	<b>namespace</b>	function
<b>doifnot</b>	function	<b>nonspace</b>	function
<b>doifnotempty</b>	function	<b>par</b>	function
<b>doifnottext</b>	function	<b>param</b>	function
<b>doiftext</b>	function	<b>parameter</b>	function
<b>element</b>	function	<b>path</b>	function
<b>elements</b>	function	<b>popmatch</b>	function
<b>entities</b>	data table	<b>pos</b>	function
<b>fileline</b>	function	<b>position</b>	function
<b>filename</b>	function	<b>pure</b>	function

<b>pushmatch</b>	function	<b>sorters</b>	table
<b>raw</b>	function	F add	
<b>rawroot</b>	function	F compare	
<b>rawtex</b>	function	F flush	
<b>refatt</b>	function	F reset	
<b>register</b>	function	F show	
<b>registerentity</b>	function	F sort	
<b>removesetup</b>	function	<b>splitid</b>	function
<b>replace</b>	function	<b>startraw</b>	function
<b>resetcdata</b>	function	<b>startunesaped</b>	function
<b>resetsetups</b>	function	<b>stopraw</b>	function
<b>resolvedentity</b>	function	<b>stopunesaped</b>	function
<b>root</b>	function	<b>store</b>	function
<b>save</b>	function	<b>strip</b>	function
<b>serialize</b>	function	<b>stripped</b>	function
<b>setaction</b>	function	<b>tag</b>	function
<b>setatt</b>	function	<b>texatt</b>	function
<b>setattribute</b>	function	<b>text</b>	function
<b>setcdata</b>	function	<b>tobuffer</b>	function
<b>setcommandtonone</b>	function	<b>tofile</b>	function
<b>setcommandtotext</b>	function	<b>toparameters</b>	function
<b>setpar</b>	function	<b>toverbatim</b>	function
<b>setparam</b>	function	<b>verbatim</b>	function
<b>setparameter</b>	function	<b>withindex</b>	function
<b>setsetup</b>	function	<b>xmltexhandler</b>	data table
<b>snippet</b>	function		

## math (basic lua)

<b>abs</b>	function	<b>maxinteger</b>	number
<b>acos</b>	function	<b>min</b>	function
<b>asin</b>	function	<b>mininteger</b>	number
<b>atan</b>	function	<b>mod</b>	function
<b>atan2</b>	function	<b>modf</b>	function
<b>ceil</b>	function	<b>odd</b>	function
<b>ceiling</b>	function	<b>pi</b>	number
<b>cos</b>	function	<b>pow</b>	function
<b>cosd</b>	function	<b>rad</b>	function
<b>cosh</b>	function	<b>random</b>	overloaded function
<b>deg</b>	function	<b>randomseed</b>	function
<b>div</b>	function	<b>round</b>	function
<b>even</b>	function	<b>setrandomseedi</b>	function
<b>exp</b>	function	<b>sin</b>	function
<b>floor</b>	function	<b>sind</b>	function
<b>fmod</b>	function	<b>sinh</b>	function
<b>frexp</b>	function	<b>sqrt</b>	function
<b>huge</b>	number	<b>tan</b>	function
<b>initialseed</b>	number	<b>tand</b>	function
<b>ldexp</b>	function	<b>tanh</b>	function
<b>log</b>	function	<b>tointeger</b>	function
<b>log10</b>	function	<b>type</b>	function
<b>max</b>	function	<b>ult</b>	function

# mathematics (context)

<b>addfallbacks</b>	function	<b>familyname</b>	function
<b>addvariant</b>	function	<b>functiontype</b>	function
<b>alphabets</b>	data table	<b>gaps</b>	data table
<b>alternatives</b>	data table	<b>getblobindex</b>	function
<b>beforepassingfonttotex</b>	function	<b>getboth</b>	function
<b>big</b>	function	<b>getdomainname</b>	function
<b>boldmap</b>	data table	<b>getextensibledata</b>	function
<b>categories</b>	table	<b>getmathblob</b>	function
D functions		<b>getoptionallabel</b>	function
<b>charactersets</b>	data table	<b>getstyle</b>	function
<b>checkaftercopyingfont</b>	function	<b>gettextblob</b>	function
<b>classes</b>	data table	<b>getverboselabel</b>	function
<b>classnameses</b>	data table	<b>horizontalcode</b>	function
<b>codes</b>	data table	<b>initializeparameters</b>	function
<b>define</b>	function	<b>makefont</b>	function
<b>dictionaries</b>	table	<b>mapremap</b>	data table
D data		<b>markblobindexdone</b>	function
D defaults		<b>overloadparameters</b>	function
D groups		<b>preset</b>	function
F groupset		<b>presets</b>	table
F groupsetgroup		<b>privatebase</b>	number
F name		<b>registerextensible</b>	function
D names		<b>registersimplematrix</b>	function
F registercharacter		<b>registerverboselabel</b>	function
F registergroup		<b>remapalphabets</b>	function
F registergroupset		<b>renderextensible</b>	function
D sets		<b>renderings</b>	table
D variants		D mappings	
<b>dimensions</b>	function	D numbers	
<b>disablecollecting</b>	function	D sets	
<b>domainlabels</b>	table	<b>renderset</b>	function
<b>domainnames</b>	table	<b>resetattributes</b>	function
N default		<b>scaleparameters</b>	function
<b>enablecollecting</b>	function	<b>setextensibledata</b>	function
<b>extensiblecode</b>	function	<b>setmathsymbol</b>	function
<b>extensibles</b>	data table	<b>sets</b>	data table
<b>extrabase</b>	number	<b>setsnapping</b>	function
<b>fallbacks</b>	table	<b>setvariant</b>	function
F apply		<b>styles</b>	data table
F install		<b>syncboth</b>	function
<b>fallbackstyleattr</b>	function	<b>syncname</b>	function

<b>syncstyle</b>	function	F fontname	
<b>tagging</b>	table	F inspect	
B mfenced		F keepbases	
<b>toengineclass</b>	function	F kernpairs	
<b>toname</b>	function	F kerns	
<b>tostyle</b>	function	F margins	
<b>tweakaftercopyingfont</b>	function	F message	
<b>tweakbeforecopyingfont</b>	function	F moveitalics	
<b>tweaks</b>	table	F movelimits	
F accentdimensions		F parameters	
F action		F radicalbodymargins	
F addactuarian		F radicaldegreeanchors	
F addarrows		F replace	
F addbars		F replacealphabets	
F addcomposites		F replacerules	
F addequals		F setoptions	
F addfourier		F setovershoots	
F admirrors		F showinfo	
F addparts		F simplifykerns	
F addprivates		F sortvariants	
F addrules		F staircase	
F addscripts		F substitute	
F bigslots		F topanchors	
F checkaccents		F tweaks	
F checkspacing		F version	
F copyaccents		F wipeanchors	
F dimensions		F wipecues	
F extendaccents		F wipeitalics	
F fallbacks		F wipevariants	
F fixaccents		<b>utfmathaccent</b>	function
F fixellipses		<b>utfmathclass</b>	function
F fixintegrals		<b>utfmathcommand</b>	function
F fixoldschool		<b>utfmathfiller</b>	function
F fixprimes		<b>utfmathstretch</b>	function
F fixradicals		<b>variantcode</b>	function
F fixslashes		<b>variantcount</b>	function
F fixvariants		<b>virtualize</b>	function
F flattenaccents		<b>virtualized</b>	data table

## md5 (extra lua)

**HEX**    `function`  
**dec**    `function`  
**hex**    `function`

**sum**    `function`  
**sumHEXA** `function`  
**sumhexa** `function`



# metapost (context)

<b>checkformat</b>	function	N newinternal
<b>checktracingonline</b>	function	N nullary
<b>cm</b>	function	N numeric
<b>codes</b>	table	N of
N addto		N ofbinary
N ampersand		N onlyset
N and		N parametertype
N assignment		N pathconnect
N atleast		N pathjoin
N begingroup		N plusorminus
N btex		N primarybinary
N capsule		N primarydef
N colon		N property
N comma		N protection
N controls		N relax
N curl		N repeatloop
N cycle		N rightbrace
N definedmacro		N rightbracket
N delimiters		N rightdelimiter
N endgroup		N runscript
N equals		N save
N etex		N scantokens
N everyjob		N secondarybinary
N exittest		N secondarydef
N expandafter		N semicolon
N fiorelse		N setbounds
N if		N shipout
N input		N show
N interim		N slash
N internal		N step
N iteration		N stop
N leftbrace		N str
N leftbracket		N string
N leftdelimiter		N tag
N let		N tension
N macrodef		N tertiarybinary
N macrospecial		N tertiarydef
N maketext		N thingstoadd
N message		N to
N mode		N typename
N newbytemap		N unary

N undefinedcs		<b>gettolerance</b>	function
N until		<b>graphic</b>	function
N void		<b>graphic_base_pass</b>	function
N with		<b>hascurvature</b>	function
N within		<b>includesvgbuffer</b>	function
N write		<b>includesvgfile</b>	function
<b>colorinitializer</b>	function	<b>installplugin</b>	function
<b>convert</b>	function	<b>isobject</b>	function
<b>currentmpx</b>	function	<b>knownparameters</b>	table
<b>currentmpxstatus</b>	function	<b>lastlog</b>	string
<b>defaultformat</b>	string	<b>load</b>	function
<b>defaultinstance</b>	string	<b>maketext</b>	function
<b>defaultmethod</b>	string	<b>mesh</b>	function
<b>directrun</b>	function	<b>metafonts</b>	table
<b>escaped</b>	function	<b>metafun</b>	table
<b>exectime</b>	table	F interpolate	
<b>extensiondata</b>	data table	F topath	
<b>filterclippath</b>	function	<b>mptopdf</b>	table
<b>flush</b>	function	F convertmpstopdf	
<b>flushers</b>	table	N nofconverted	
<b>flushnormalpath</b>	function	<b>n</b>	number
<b>fonts</b>	table	<b>newlogger</b>	function
F define		<b>nofruns</b>	number
<b>format_number</b>	function	<b>nofscriptruns</b>	function
<b>format_string</b>	function	<b>nvformat</b>	function
<b>formatnumber</b>	function	<b>pdfliterals</b>	function
<b>getbackendoption</b>	function	<b>pluginactions</b>	function
<b>getbendtolerance</b>	function	<b>popformat</b>	function
<b>getbuffer</b>	function	<b>popscriptrunner</b>	function
<b>getclippath</b>	function	<b>popvariable</b>	function
<b>getextensions</b>	function	<b>popvariables</b>	function
<b>getextradata</b>	function	<b>preparetexttextsdata</b>	function
<b>gethashentries</b>	function	<b>process</b>	function
<b>getinstancebyname</b>	function	<b>processing</b>	function
<b>getinstanceinfo</b>	function	<b>processplugins</b>	function
<b>getinstancenames</b>	function	<b>properties</b>	table
<b>getjobdata</b>	function	<b>pushformat</b>	function
<b>getmovetolerance</b>	function	<b>pushscriptrunner</b>	function
<b>getparameter</b>	function	<b>pushvariable</b>	function
<b>getparameterpreset</b>	function	<b>pushvariables</b>	function
<b>getparameterset</b>	function	<b>quitonerror</b>	boolean
<b>getrecord</b>	function	<b>reducetogray</b>	boolean
<b>getstatistics</b>	function	<b>registerdirect</b>	function
<b>gettext</b>	function	<b>registerscript</b>	function

<b>registertokens</b>	function	N mm	
<b>remappedtext</b>	function	N pc	
<b>remaptext</b>	function	N pt	
<b>reporterror</b>	function	N px	
<b>reportsvgfonts</b>	function		<b>svgglyphtomp</b> function
<b>reset</b>	function		<b>svgshapestomp</b> function
<b>resetbackendoptions</b>	function		<b>svgshapestopdf</b> function
<b>resetlastlog</b>	function		<b>svgsplitcolor</b> function
<b>resetplugins</b>	function		<b>svgtomp</b> function
<b>run</b>	function		<b>svgtopdf</b> function
<b>runinternal</b>	function		<b>sxsty</b> function
<b>runscript</b>	function		<b>tex</b> table
<b>scanparameters</b>	function	F get	
<b>scriptindex</b>	function	F reset	
<b>setbendtolerance</b>	function	F set	
<b>setbuffer</b>	function	F setfrombuffer	
<b>setextensions</b>	function		<b>texerrors</b> boolean
<b>setlogging</b>	function		<b>texexp</b> function
<b>setmovetolerance</b>	function		<b>theclipath</b> function
<b>setoutercolor</b>	function		<b>tographic</b> function
<b>setparameter</b>	function		<b>totable</b> function
<b>setparameterset</b>	function		<b>types</b> table
<b>setrecord</b>	function	N boolean	
<b>settext</b>	function	N cmykcolor	
<b>settolerance</b>	function	N color	
<b>setvariable</b>	function	N dependent	
<b>showlog</b>	boolean	N independent	
<b>showsvgpage</b>	function	N known	
<b>simple</b>	function	N nep	
<b>splitprescript</b>	function	N numeric	
<b>startgraphic</b>	function	N pair	
<b>startsvghashing</b>	function	N path	
<b>stopgraphic</b>	function	N pen	
<b>stopsvghashing</b>	function	N picture	
<b>svformat</b>	function	N protodependent	
<b>svgcachefile</b>	boolean	N string	
<b>svgcolorremapper</b>	function	N structured	
<b>svgfactors</b>	table	N suffixedmacro	
N %		N tokenlist	
N bp		N transform	
N cm		N unknownboolean	
N em		N unknownnep	
N ex		N unknownpath	
N in		N unknownpen	

N unknowpicture  
N unknowstring  
N unsuffixedmacro  
N vacuous

**typesvgpage**  
**unload**  
**untagvariable**  
**variables**

function  
function  
function  
table

## mime (context)

**b64** function

**decode** function

**decodet** table

F base64

F quoted-printable

**dot** function

**encode** function

**encodet** table

F base64

F quoted-printable

**eol** function

**normalize** function

**qp** function

**qpwrp** function

**report** function

**stuff** function

**unb64** function

**unqp** function

**wrap** function

**wrapt** table

F base64

F default

F quoted-printable

F text

**wrp** function

# mp (context)

<b>autoinject</b>	function	<b>flatten</b>	function
<b>aux</b>	function	<b>flush</b>	function
F boolean		<b>format</b>	function
F color		<b>formatted</b>	function
F direct		<b>fprint</b>	function
F draw		<b>get</b>	table
F fill		F hashentry	
F flush		<b>getbytemap</b>	function
F fprint		<b>getbytemapdata</b>	function
F integer		<b>getlastaddtype</b>	function
F number		<b>graphformat</b>	function
F numeric		<b>inject</b>	function
F pair		F boolean	
F pairpoints		F cmykcolor	
F path		F color	
F pathpoints		F integer	
F points		F number	
F print		F numeric	
F quadruple		F pair	
F quadruplepoints		F path	
F quoted		F pt	
F size		F quadruplet	
F string		F string	
F transform		F transform	
F triplet		F triplet	
F tripletpoints		F vector	
F vprint		F vectors	
<b>boolean</b>	function	F whatever	
<b>bytemap_load_from_file</b>	function	F whd	
<b>cleaned</b>	function	F xy	
<b>color</b>	function	<b>integer</b>	function
<b>dataset</b>	function	<b>lmt_color_functions</b>	table
<b>datasets</b>	function	F shade	
F load		F step	
<b>direct</b>	function	<b>lmt_contours_bitmap_get</b>	function
<b>downgradebytemap</b>	function	<b>lmt_contours_bitmap_set</b>	function
<b>downsamplebytemap</b>	function	<b>lmt_contours_cleanup</b>	function
<b>draw</b>	function	<b>lmt_contours_color</b>	function
<b>expandtex</b>	function	<b>lmt_contours_edge_get_band</b>	function
<b>fill</b>	function	<b>lmt_contours_edge_get_cell</b>	function
<b>fillbytemap</b>	function	<b>lmt_contours_edge_paths</b>	function

<code>lmt_contours_edge_set</code>	function	<code>loadbytemap</code>	function
<code>lmt_contours_edge_set_by_band</code>	function	<code>loadbytemapfile</code>	function
<code>lmt_contours_edge_set_by_cell</code>	function	<code>mesh_register</code>	function
<code>lmt_contours_format</code>	function	<code>mf_blob_add</code>	function
<code>lmt_contours_function</code>	function	<code>mf_blob_dimensions</code>	function
<code>lmt_contours_maxmean</code>	function	<code>mf_blob_index</code>	function
<code>lmt_contours_maxz</code>	function	<code>mf_blob_new</code>	function
<code>lmt_contours_minmean</code>	function	<code>mf_blob_raw_content</code>	function
<code>lmt_contours_minz</code>	function	<code>mf_blob_raw_dimensions</code>	function
<code>lmt_contours_nofvalues</code>	function	<code>mf_blob_raw_reset</code>	function
<code>lmt_contours_nx</code>	function	<code>mf_blob_raw_toutf</code>	function
<code>lmt_contours_ny</code>	function	<code>mf_blob_raw_wipe</code>	function
<code>lmt_contours_range</code>	function	<code>mf_blob_size</code>	function
<code>lmt_contours_shade_paths</code>	function	<code>mf_blob_width</code>	function
<code>lmt_contours_shade_set</code>	function	<code>mf_external_figure</code>	function
<code>lmt_contours_shape_paths</code>	function	<code>mf_finish_saving_data</code>	function
<code>lmt_contours_start</code>	function	<code>mf_formatted_text</code>	function
<code>lmt_contours_stop</code>	function	<code>mf_get_outline_text</code>	function
<code>lmt_contours_value</code>	function	<code>mf_graphic_text</code>	function
<code>lmt_contours_xrange</code>	function	<code>mf_inject_blob</code>	function
<code>lmt_contours_yrange</code>	function	<code>mf_map_move</code>	function
<code>lmt_function_x</code>	function	<code>mf_map_text</code>	function
<code>lmt_glyphshape_accent</code>	function	<code>mf_named_color</code>	function
<code>lmt_glyphshape_baseline</code>	function	<code>mf_outline_text</code>	function
<code>lmt_glyphshape_boundingbox</code>	function	<code>mf_save_data</code>	function
<code>lmt_glyphshape_depth</code>	function	<code>mf_script_index</code>	function
<code>lmt_glyphshape_height</code>	function	<code>mf_start_saving_data</code>	function
<code>lmt_glyphshape_italic</code>	function	<code>mf_stop_saving_data</code>	function
<code>lmt_glyphshape_llx</code>	function	<code>mode</code>	function
<code>lmt_glyphshape_n</code>	function	<code>n</code>	function
<code>lmt_glyphshape_path</code>	function	<code>newbytemap</code>	function
<code>lmt_glyphshape_start</code>	function	<code>number</code>	function
<code>lmt_glyphshape_stop</code>	function	<code>numeric</code>	function
<code>lmt_glyphshape_usedbox</code>	function	<code>pair</code>	function
<code>lmt_glyphshape_usedline</code>	function	<code>pairpoints</code>	function
<code>lmt_glyphshape_width</code>	function	<code>path</code>	function
<code>lmt_mesh_set</code>	function	<code>pathpoints</code>	function
<code>lmt_mesh_update</code>	function	<code>points</code>	function
<code>lmt_poisson_generate</code>	function	<code>print</code>	function
<code>lmt_start_potrace</code>	function	<code>F boolean</code>	
<code>lmt_step_potrace</code>	function	<code>F color</code>	
<code>lmt_stop_potrace</code>	function	<code>F direct</code>	
<code>lmt_surface_do</code>	function	<code>F draw</code>	
<code>lmt_svg_include</code>	function	<code>F fill</code>	

F flush		F color	
F fprintf		F expression	
F integer		F integer	
F number		F next	
F numeric		F number	
F pair		F numeric	
F pairpoints		F pair	
F path		F path	
F pathpoints		F pen	
F points		F property	
F print		F string	
F quadruple		F symbol	
F quadruplepoints		F token	
F quoted		F transform	
F size		F whatever	
F string		<b>set</b>	table
F transform		<b>setbytemap</b>	function
F triplet		<b>setbytemapoctave</b>	function
F tripletpoints		<b>size</b>	function
F vprint		<b>skip</b>	table
<b>processbytemap</b>	function	F token	
<b>processingmode</b>	function	<b>solve</b>	function
<b>quadruple</b>	function	<b>string</b>	function
<b>quadruplepoints</b>	function	<b>systemmode</b>	function
<b>quoted</b>	function	<b>transform</b>	function
<b>report</b>	function	<b>triplet</b>	function
<b>scan</b>	table	<b>tripletpoints</b>	function
F boolean		<b>vprint</b>	function
F cmykcolor			



## mplib (extra tex)

<b>downgradebytemap</b>	function	<b>injectnumber</b>	function
<b>downsamplebytemap</b>	function	<b>injectnumeric</b>	function
<b>execute</b>	function	<b>injectpair</b>	function
<b>expandtex</b>	function	<b>injectpath</b>	function
<b>fillbytemap</b>	function	<b>injectstring</b>	function
<b>finder</b>	function	<b>injecttransform</b>	function
<b>finders</b>	table	<b>injectvector</b>	function
F file		<b>injectvectors</b>	function
F mpstemplate		<b>injectwhatever</b>	function
<b>finish</b>	function	<b>new</b>	overloaded function
<b>getbytemap</b>	function	<b>newbytemap</b>	function
<b>getbytemapdata</b>	function	<b>peninfo</b>	function
<b>getcallbackstate</b>	function	<b>processbytemap</b>	function
<b>getcodes</b>	function	<b>propertycodes</b>	table
<b>getcolormodels</b>	function	<b>realtimelogging</b>	boolean
<b>getfields</b>	function	<b>scanboolean</b>	function
<b>gethashentries</b>	function	<b>scancmykcolor</b>	function
<b>gethashentry</b>	function	<b>scancolor</b>	function
<b>getinternalactions</b>	function	<b>scanexpression</b>	function
<b>getknotstates</b>	function	<b>scaninteger</b>	function
<b>getlastadddtype</b>	function	<b>scannext</b>	function
<b>getlogtargets</b>	function	<b>scannumber</b>	function
<b>getobjectdata</b>	function	<b>scannumeric</b>	function
<b>getobjectpeninfo</b>	function	<b>scanpair</b>	function
<b>getobjectstacking</b>	function	<b>scanpath</b>	function
<b>getobjecttypes</b>	function	<b>scanpen</b>	function
<b>getpruneoptions</b>	function	<b>scanproperty</b>	function
<b>getresultstatus</b>	function	<b>scanstring</b>	function
<b>getscantypes</b>	function	<b>scansymbol</b>	function
<b>getstates</b>	function	<b>scantoken</b>	function
<b>getstatistics</b>	function	<b>scantransform</b>	function
<b>getstatus</b>	function	<b>setbytemap</b>	function
<b>gettolerance</b>	function	<b>setbytemapoctave</b>	function
<b>gettype</b>	function	<b>settolerance</b>	function
<b>gettypes</b>	function	<b>showcontext</b>	function
<b>injectboolean</b>	function	<b>skiptoken</b>	function
<b>injectcmykcolor</b>	function	<b>solvepath</b>	function
<b>injectcolor</b>	function	<b>version</b>	function
<b>injectinteger</b>	function		

# nanojpeg (context)

**decode** function

# noads (context)

**getmathmode** function

**handlers** table

F alternates

F autofences

F classes

F collapse

F dictionaries

F export

F families

F fencing

F intervals

F kernpairs

F makeup

F normalize

F numbers

F relocate

F render

F showtree

F snap

F spacing

F suspicious

F tags

F unscript

F unstack

F variants

**process** function

**processnested** function

**processors** table

**processouter** function

# node (basic tex)

<b>checkdiscretionaries</b>	function	F getanchors
<b>checkdiscretionary</b>	function	F getattribute
<b>copy</b>	function	F getattributelist
<b>copylist</b>	function	F getattributes
<b>count</b>	function	F getboth
<b>currentattributes</b>	function	F getbottom
<b>dimensions</b>	function	F getbottomdelimiter
<b>direct</b>	table	F getbox
F addmargins		F getcachestate
F addxoffset		F getchar
F addxymargins		F getchardict
F addyoffset		F getcharspec
F appendaftertail		F getchoice
F appendcurrenttail		F getclass
F beginofmath		F getcontrol
F checkdiscretionaries		F getcornerkerns
F checkdiscretionary		F getcurrenttail
F collapsing		F getdata
F copy		F getdegree
F copylist		F getdelimiter
F copyonly		F getdenominator
F count		F getdepth
F currentattributes		F getdirection
F dimensions		F getdisc
F effectiveglue		F getdiscpart
F endofmath		F getexcept
F exchange		F getexpansion
F fields		F getfam
F findattribute		F getfield
F findattributerange		F getfielderror
F findnode		F getfirstdirectioninlist
F firstchar		F getfont
F firstglyph		F getfontcheck
F firstglyphnode		F getgeometry
F firstitalicglyph		F getglue
F flattendiscretionaries		F getglyphdata
F flattenleaders		F getglyphdimensions
F flushlist		F getheight
F flushnode		F getid
F free		F getidsubtype
F freeze		F getidsubtypenext

F getindex	F gettopdelimiter
F getinputfields	F gettotal
F getkern	F getusage
F getkerndimension	F getusedattributes
F getlanguage	F getweight
F getleader	F getwhd
F getleftdelimiter	F getwidth
F getlist	F getwordrange
F getlistdimensions	F getxscale
F getmvlolist	F getxyscales
F getnext	F getsyscale
F getnodeerrorvalues	F gluetostring
F getnodes	F hasattribute
F getnormalizedline	F hasdimensions
F getnucleus	F hasdiscoption
F getnumerator	F hasfield
F getoffsets	F hasgeometry
F getoptions	F hasglyph
F getorientation	F hasglyphoption
F getparstate	F hasidsubtype
F getpenalty	F hasusage
F getpost	F hpack
F getpre	F hyphenating
F getprev	F id
F getprime	F ignoremathskip
F getpropertystable	F insertafter
F getproperty	F insertbefore
F getreplace	F insertcurrenthead
F getrightdelimiter	F isboth
F getruledimensions	F ischar
F getscale	F ischarcheck
F getscales	F ischardisc
F getscrip	F isdirect
F getscripts	F isfontcheck
F getshift	F isglyph
F getslant	F isitalicglyph
F getspeciallist	F isloop
F getstate	F isnext
F getsub	F isnextchar
F getsubpre	F isnextcharcheck
F getsubtype	F isnextglyph
F getsup	F isnode
F getsuppre	F isprev
F gettop	F isprevchar

F isprevcharcheck	F setbottomdelimiter
F isprevglyph	F setbox
F issimilarglyph	F setchar
F isspeciallist	F setchardict
F isvalid	F setchoice
F iszeroglue	F setclass
F kerning	F setcontrol
F lastnode	F setcurrenttail
F length	F setdata
F ligaturing	F setdegree
F makeextensible	F setdelimiter
F markglyphprocessing	F setdenominator
F migrate	F setdepth
F mlisttohtml	F setdirection
F naturalhsize	F setdisc
F naturalwidth	F setdiscpart
F new	F setexcept
F newcontinuationatom	F setexpansion
F newfontcheck	F setfam
F newmathglyph	F setfield
F newtextglyph	F setfielderror
F patchattributes	F setfont
F patchparshape	F setfontcheck
F prependbeforehead	F setgeometry
F prependcurrenttail	F setglue
F protectglyph	F setglyphdata
F protectglyphs	F setheight
F protectglyphsbase	F setindex
F protectglyphsnone	F setinputfields
F protrusionskippable	F setkern
F rangedimensions	F setlanguage
F remove	F setleader
F removefromlist	F setleftdelimiter
F repack	F setlink
F reverse	F setlist
F samefontcheck	F setnext
F serialized	F setnucleus
F setanchors	F setnumerator
F setattribute	F setoffsets
F setattributelist	F setoptions
F setattributes	F setorientation
F setattributesinlist	F setpenalty
F setboth	F setpost
F setbottom	F setpre

F setprev	F traverseelist
F setprime	F traversepossible
F setproperty	F type
F setreplace	F types
F setrightdelimiter	F unprotectglyph
F setruledimensions	F unprotectglyphs
F setscale	F unsetattribute
F setscales	F unsetattributes
F setscript	F updatefirstandbotmark
F setscripts	F updatefirstmarks
F setshift	F updatemarks
F setslant	F updatetopmarks
F setspeciallist	F usedlist
F setsplit	F usesfont
F setstate	F vbalance
F setsub	F verticalbreak
F setsubpre	F vpack
F setsubtype	F write
F setup	F xscaled
F setsuppre	F yscaled
F settop	<b>effectiveglue</b> function
F settopdelimiter	<b>endofmath</b> function
F settotal	<b>family_font</b> function
F setweight	<b>fields</b> function
F setwhd	<b>findattribute</b> function
F setwidth	<b>flattendiscretionaries</b> function
F show	<b>flushlist</b> function
F size	<b>flushnode</b> function
F slide	<b>free</b> function
F softenhyphens	<b>getattribute</b> function
F startofpar	<b>getcachestate</b> function
F subtypes	<b>getfield</b> function
F tail	<b>getfielderror</b> function
F todirect	<b>getglue</b> function
F tonode	<b>getnodeerrorvalues</b> function
F toString	<b>getpropertystable</b> function
F tovaliddirect	<b>getproperty</b> function
F traverse	<b>gluetostring</b> function
F traversechar	<b>hasattribute</b> function
F traversecontent	<b>hasfield</b> function
F traverseglyph	<b>hasglyph</b> function
F traverseid	<b>hpack</b> function
F traverseitalic	<b>hyphenating</b> function
F traverseleader	<b>id</b> function

<b>insertafter</b>	function	<b>setfielderror</b>	function
<b>insertbefore</b>	function	<b>setglue</b>	function
<b>instock</b>	function	<b>setProperty</b>	function
<b>intracking</b>	function	<b>show</b>	function
<b>inuse</b>	function	<b>size</b>	function
<b>isnode</b>	function	<b>slide</b>	function
<b>iszeroglue</b>	function	<b>subtypes</b>	function
<b> Kerning</b>	function	<b>tail</b>	function
<b>lastnode</b>	function	<b>todirect</b>	function
<b>length</b>	function	<b>tonode</b>	function
<b>ligaturing</b>	function	<b>tostring</b>	function
<b>makeextensible</b>	function	<b>traverse</b>	function
<b>mlisttohtml</b>	function	<b>traverseid</b>	function
<b>new</b>	function	<b>type</b>	function
<b>protectglyph</b>	function	<b>types</b>	function
<b>protectglyphs</b>	function	<b>unprotectglyph</b>	function
<b>protrusionskippable</b>	function	<b>unprotectglyphs</b>	function
<b>rangedimensions</b>	function	<b>unsetattribute</b>	function
<b>remove</b>	function	<b>usedlist</b>	function
<b>serialized</b>	function	<b>usesfont</b>	function
<b>setAttribute</b>	function	<b>vpack</b>	function
<b>setfield</b>	function	<b>write</b>	function



# nodes (context)

<b>accentcodes</b>	data table	<b>fencecodes</b>	data table
<b>adaptive</b>	table	<b>fields</b>	function
F handlehorizontal		<b>fieldtypes</b>	table
F handlevertical		<b>fillcodes</b>	data table
F set		<b>fillvalues</b>	data table
<b>aligned</b>	function	<b>firstdirinbox</b>	function
<b>append</b>	function	<b>flush</b>	function
<b>apply</b>	function	<b>flushlist</b>	function
<b>applyvisuals</b>	function	<b>flushnode</b>	function
<b>astable</b>	function	<b>fractioncodes</b>	data table
<b>basepoints</b>	function	<b>fullhpack</b>	function
<b>boundarycodes</b>	data table	<b>getattr</b>	function
<b>boxes</b>	table	<b>getattribute</b>	function
F count		<b>getboth</b>	function
F dimensions		<b>getbox</b>	function
F direct		<b>getchar</b>	function
F dispose		<b>getfield</b>	function
F found		<b>getfont</b>	function
F prune		<b>getid</b>	function
F reset		<b>getleader</b>	function
F restore		<b>getlist</b>	function
F save		<b>getnext</b>	function
F savenode		<b>getprev</b>	function
<b>builders</b>	table	<b>getproperty</b>	function
<b>choicecodes</b>	data table	<b>getsubtype</b>	function
<b>concat</b>	function	<b>gluecodes</b>	data table
<b>copy</b>	function	<b>glyphcodes</b>	data table
<b>copy_node</b>	function	<b>handlers</b>	table
<b>copylist</b>	function	F adjusters	
<b>countall</b>	function	F aligncharacter	
<b>currentattributes</b>	function	F backgrounds	
<b>delete</b>	function	F backgroundspage	
<b>destinations</b>	table	F backgroundsvbox	
N attribute		F characters	
F handler		F checkglyphs	
<b>dircodes</b>	data table	F checkparcounter	
<b>directioncodes</b>	data table	F cleanupbox	
<b>directionvalues</b>	data table	F cleanuppage	
<b>dirvalues</b>	data table	F export	
<b>disccodes</b>	data table	F finalizebox	
<b>discretionarycodes</b>	data table	F finalizelist	

F flatten		<b>is_display_math</b>	function
F flattenline		<b>isdirect</b>	function
F mathalignrelocate		<b>isnode</b>	function
F mathmatrixornaments		<b>isnut</b>	function
F mathmatrixrules		<b>kerncodes</b>	data table
F migrate		<b>leftmarginwidth</b>	function
F protectglyphs		<b>linefillers</b>	table
F recolor		F filler	
F show		F handler	
F showhyphenation		F set	
F showpreamble		<b>lines</b>	table
F stripping		D data	
F tabulateskip		F finalize	
F textbackgrounds		F number	
F unprotectglyphs		<b>link</b>	function
F visualizehyphenation		<b>linked</b>	function
F wipe		<b>list</b>	function
<b>hasattribute</b>	function	<b>listcodes</b>	data table
<b>hasfield</b>	function	<b>listtoutf</b>	function
<b>hpack</b>	function	<b>literalvalues</b>	data table
<b>idsandsubtypes</b>	function	<b>locate</b>	function
<b>idstostring</b>	function	<b>markcodes</b>	data table
<b>injections</b>	table	<b>markers</b>	table
F copy		F get	
F getligaindex		F set	
F getthreshold		<b>mathcodes</b>	data table
F handler		<b>mathvalues</b>	data table
F installgetspaceboth		<b>maxboxwidth</b>	function
F installnewkern		<b>migrations</b>	table
F isspace		F setinserts	
F keepcounts		F setmarks	
F reset		<b>new</b>	function
F resetcounts		<b>noadcodes</b>	data table
F setcursive		<b>nodecodes</b>	data table
F setkern		<b>nopts</b>	function
F setligaindex		<b>nuts</b>	table
F setmark		F addmargins	
F setmove		F addxoffset	
F setposition		F addxymargins	
F setspacekerns		F addyoffset	
<b>insertafter</b>	function	F append	
<b>insertbefore</b>	function	F appendaftertail	
<b>insertlistafter</b>	function	F apply	
<b>installattributehandler</b>	function	F applyvisuals	

F beginofmath	F getbottom
F checkdiscretionaries	F getbottomdelimiter
F checkdiscretionary	F getbox
F checkslide	F getboxglue
F collapsing	F getchar
F concat	F getchardict
F copy	F getcharspec
F copy_properties	F getchoice
F copyleft	F getclass
F copynode	F getcomponents
F copyonly	F getcornerkerns
F copyvisual	F getdata
F count	F getdegree
F countall	F getdelimiter
F currentattributes	F getdenominator
F delete	F getdepth
F dimensions	F getdirection
F dirdimensions	F getdisc
F effectiveglue	F getdiscpart
F endofmath	F getdiscretionary
F exchange	F getexcept
F findattribute	F getexpansion
F findattributerange	F getfam
F findnode	F getfield
F firstchar	F getfirstdirectioninlist
F firstglyph	F getfont
F firstglyphnode	F getfontcheck
F firstitalicglyph	F getgeometry
F flattendiscretionaries	F getglue
F flattenleaders	F getglyphdata
F flush	F getglyphdimensions
F flushlist	F getheight
F flushnode	F getid
F free	F getidsubtype
F freeze	F getidsubtypenext
F fullhpack	F getindex
F getanchors	F getinputfields
F getattr	F getkern
F getattribute	F getkerndimension
F getattributelist	F getlang
F getattributes	F getlanguage
F getattrlist	F getleader
F getattns	F getleftdelimiter
F getboth	F getlist

F getlistdimensions	F getwordrange
F getmiddle	F getxscale
F getmiddledelimiter	F getxyscales
F getmvl	F getsyscale
F getnext	F gluetostring
F getnormalizedline	F hasattribute
F getnucleus	F hasdimensions
F getnumerator	F hasdiscoption
F getoffsets	F hasfield
F getoptions	F hasgeometry
F getorientation	F hasglyph
F getparstate	F hasglyphoption
F getpenalty	F hasidsubtype
F getpost	F hpack
F getpre	F hyphenating
F getprev	F ignoremathskip
F getprime	F insertafter
F getprop	F insertbefore
F getreplace	F insertlistafter
F getrightdelimiter	F is_display_math
F getruledata	F isboth
F getruledimensions	F ischar
F getscale	F ischarcheck
F getscales	F isdirect
F getscrip	F isdone
F getscripts	F isglyph
F getshift	F isitalicglyph
F getslant	F isnext
F getspeciallist	F isnextchar
F getstate	F isnextcharcheck
F getsub	F isnextglyph
F getsubpre	F isnode
F getsubtype	F isnut
F getsup	F isprev
F getsuppre	F isprevchar
F getsurround	F isprevcharcheck
F gettop	F isprevglyph
F gettopdelimiter	F issimilarglyph
F gettotal	F iszeroglue
F getusedattributes	F kerning
F getvalue	F lastnode
F getweight	F length
F getwhd	F ligaturing
F getwidth	F link

F linked	F setboth
F locate	F setbottom
F migrate	F setbox
F migratebox	F setboxglue
F mlisttohlist	F setchar
F naturalhsize	F setchardict
F naturalwidth	F setchoice
F nestedtracedslide	F setclass
F new	F setcomponents
F newcontinuationatom	F setdata
F newfontcheck	F setdegree
F newmathglyph	F setdelimiter
F openup	F setdenominator
F patchattributes	F setdepth
F patchparshape	F setdirection
F prepend	F setdisc
F prependbeforehead	F setdiscpart
F processranges	F setdiscretionary
F processwords	F setexcept
F protectglyph	F setexpansion
F protectglyphs	F setfam
F protectglyphsbase	F setfield
F protectglyphsnone	F setfont
F protrusionskipppable	F setfontcheck
F rangedimensions	F setgeometry
F rawprop	F setglue
F reference	F setglyphdata
F rehpack	F setheight
F remove	F setinputfields
F removefromlist	F setkern
F repack	F setlang
F repackhlist	F setlanguage
F replace	F setleader
F reverse	F setleftdelimiter
F serialized	F setlink
F setanchors	F setlist
F setattr	F setmiddledelimiter
F setattribute	F setnext
F setattributelist	F setnucleus
F setattributes	F setnumerator
F setattributesinlist	F setoffsets
F setattrlist	F setoptions
F setattrs	F setorientation
F setattrsinlist	F setparproperty

F setpenalty	F theprop	
F setpost	F tonode	
F setpre	F tonodes	
F setprev	F tonut	
F setprime	F tosequence	
F setprop	F tostring	
F setreplace	F tracedslide	
F setrightdelimiter	F traverse	
F setruledata	F traversechar	
F setruledimensions	F traversecontent	
F setscale	F traverseglyph	
F setscales	F traverseid	
F setscript	F traverseitalic	
F setscripts	F traverseleader	
F setshift	F traverselist	
F setslant	F traversepossible	
F setspeciallist	F unprotectglyph	
F setsplit	F unprotectglyphs	
F setstate	F unsetattribute	
F setsub	F unsetattributes	
F setsubpre	F untracedslide	
F setsubtype	F updatefirstandbotmark	
F setup	F updatefirstmarks	
F setsuppre	F updatemarks	
F setsurround	F updatetopmarks	
F settop	F usedlist	
F setvalue	F usesfont	
F setvisual	F verticalbreak	
F setvisuals	F vianodes	
F setweight	F vianuts	
F setwhd	F vpack	
F setwidth	F write	
F show	F xscaled	
F slide	F yscaled	
F softenhyphens	<b>packlist</b>	function
F somepenalty	<b>parcodes</b>	data table
F somespace	<b>penaltycodes</b>	data table
F splitbox	<b>plugindata</b>	table
F startofpar	F finalizer	
F striprange	F initializer	
F tail	S name	
F takeattr	F processor	
F takebox	<b>points</b>	function
F takelist	<b>pool</b>	table

F baselineskip		<b>serialized</b>	function
F cleanup		<b>setattr</b>	function
F directliteral		<b>setattribute</b>	function
F glyph		<b>setattrlist</b>	function
F hlist		<b>setboth</b>	function
F latelua		<b>setbox</b>	function
F leader		<b>setboxtonaturalwd</b>	function
F lineskip		<b>setchar</b>	function
F literal		<b>setfield</b>	function
F originliteral		<b>setfont</b>	function
F register		<b>setleader</b>	function
F restore		<b>setlink</b>	function
F save		<b>setlist</b>	function
F savepos		<b>setnext</b>	function
F setmatrix		<b>setprev</b>	function
F stock		<b>setproperty</b>	function
F usage		<b>shadows</b>	table
F usernode		F handler	
F vlist		F set	
<b>prepend</b>	function	<b>shifts</b>	table
<b>print</b>	function	F handler	
<b>processors</b>	table	F set	
F trace_glyph_run_a		<b>showboxes</b>	function
F trace_glyph_run_b		<b>showlist</b>	function
<b>properties</b>	table	<b>showsimplelist</b>	function
<b>pts</b>	function	<b>skipcodes</b>	data table
<b>radicalcodes</b>	data table	<b>snapshots</b>	table
<b>references</b>	table	F getsamples	
N attribute		F resetsamples	
F handler		F takesample	
<b>repack</b>	function	<b>somepenalty</b>	function
<b>remove</b>	function	<b>somespace</b>	function
<b>repackhlist</b>	function	<b>specialskipcodes</b>	table
<b>replace</b>	function	<b>splitbox</b>	function
<b>report</b>	function	<b>startofpar</b>	function
<b>rightmarginwidth</b>	function	<b>stripdiscretionaries</b>	function
<b>rulecodes</b>	data table	<b>stripping</b>	table
<b>rules</b>	table	F set	
F handler		<b>subtypes</b>	data table
F process		<b>tail</b>	function
F set		<b>takeattr</b>	function
F userrule		<b>takebox</b>	function
<b>serialize</b>	function	<b>tasks</b>	table
<b>serializebox</b>	function	F actions	

F appendaction		F setlist	
F disableaction		F setproperties	
F disablegroup		F start	
F enableaction		F stop	
F enablegroup		<b>traverse</b>	function
F freeze		<b>traverseid</b>	function
F freezegrp		<b>typesetters</b>	table
F new		F hbox	
F prependaction		F hpack	
F removeaction		F tohbox	
F replaceaction		F tohpack	
F restart		F tonodes	
F setaction		F tovbox	
F showactions		F tovpack	
F table		F vpack	
<b>tobasepoints</b>	function	<b>unsetattribute</b>	function
<b>tocentimeters</b>	function	<b>upcomingproperties</b>	function
<b>tociceros</b>	function	<b>usedlist</b>	function
<b>todidots</b>	function	<b>vianodes</b>	function
<b>todimen</b>	function	<b>vianuts</b>	function
<b>toinches</b>	function	<b>visualizebox</b>	function
<b>tomillimeters</b>	function	<b>visualizers</b>	table
<b>tonode</b>	function	F attribute	
<b>tonodes</b>	function	F box	
<b>tonut</b>	function	F definelayer	
<b>topicsas</b>	function	F enable	
<b>topoints</b>	function	F getusedfont	
<b>toscaledpoints</b>	function	F handler	
<b>tosequence</b>	function	F markfonts	
<b>tostring</b>	function	F register	
<b>totable</b>	function	F registercache	
<b>totree</b>	function	F setfont	
<b>toutf</b>	function	F setlayer	
<b>tracers</b>	table	F setruledglyph	
F directions		F setvisual	
F fontchar		<b>vpack</b>	function
F resetproperties		<b>whatsitcodes</b>	data table
F rule		<b>write</b>	function



## number (context)

	function	<b>to16dot16</b>	function
<b>basepoints</b>	function	<b>tobasepoints</b>	function
<b>bytetodecimal</b>	function	<b>tobitstring</b>	function
<b>compactfloat</b>	function	<b>tocentimeters</b>	function
<b>decimaltobyte</b>	function	<b>toxiceros</b>	function
<b>dimenfactors</b>	data table	<b>tocontext</b>	function
<b>formatted</b>	function	<b>todidots</b>	function
<b>formattedfloat</b>	function	<b>todimen</b>	function
<b>fractiontobyte</b>	function	<b>toediths</b>	function
<b>idiv</b>	function	<b>toevenhex</b>	function
<b>maxdimen</b>	number	<b>toinches</b>	function
<b>nopts</b>	function	<b>tomillimeters</b>	function
<b>nubasepoints</b>	function	<b>tonumberf</b>	function
<b>nupoints</b>	function	<b>tonumberg</b>	function
<b>percent</b>	function	<b>topics</b>	function
<b>points</b>	function	<b>topoints</b>	function
<b>pts</b>	function	<b>toscaled</b>	function
<b>signed</b>	function	<b>toscaledpoints</b>	function
<b>sparseexponent</b>	function	<b>totoves</b>	function
<b>splitdimen</b>	function	<b>valid</b>	function

## objects (context)

<b>data</b>	table	<b>page</b>	function
<b>dimensions</b>	function	<b>reference</b>	function
<b>found</b>	function	<b>register</b>	function
<b>n</b>	number	<b>restore</b>	function

# optional (context)

## **curl** table

- F escape
- F fetch
- F getversion
- F initialize
- F unescape

## **foreign** table

- F abivalues
- F getbuffer
- F initialize
- F load
- F newbuffer
- F totable
- F types

## **ghostscript** table

- F execute
- F initialize

## **graphicsmagick** table

- F execute
- F getnoisetypes
- F initialize

## **hb** table

- F getshapers
- F getversion
- F initialize
- F loadfont
- F shapestring

## **imagemagick** table

- F execute
- F initialize

## **kpse** table

- F expand\_braces
- F expand\_path
- F expand\_var
- F find\_file
- F find\_files
- F get\_file\_types
- F initialize
- F readable\_file
- F set\_program\_name
- F var\_value

## **library** table

- F load

## **Loaded** table

## **lz4** table

- F compress
- F decompresssize
- F framecompress
- F framedecompress
- F initialize

## **lzma** table

- F compress
- F decompress
- F initialize

## **lzo** table

- F compress
- F decompresssize
- F initialize

## **mujs** table

- F dofile
- F execute
- F initialize
- F reset
- F setclosefile
- F setconsole
- F setfindfile
- F setopenfile
- F setreadfile
- F setseekfile

## **mysql** table

- F close
- F execute
- F getmessage
- F initialize
- F open

## **openssl** table

- F getversion
- F initialize
- F sign
- F verify

## **postgres** table

- F close

F execute  
F getmessage  
F initialize  
F open

**sqlite**            **table**

F close  
F execute  
F getmessage  
F initialize

F open

**zint**            **table**

F execute  
F initialize

**zstd**            **table**

F compress  
F decompress  
F initialize

## os (basic lua)

<code>__getenv__</code>	function	<code>platform</code>	string
<code>__setenv__</code>	function	<code>remove</code>	overloaded function
<code>binsuffix</code>	string	<code>rename</code>	overloaded function
<code>binsuffixes</code>	table	<code>resultof</code>	function
<code>bits</code>	number	<code>runtime</code>	function
<code>clock</code>	function	<code>selfarg</code>	table
<code>converttime</code>	function	<code>selfbin</code>	string
<code>date</code>	overloaded function	<code>selfcore</code>	string
<code>difftime</code>	function	<code>selfdir</code>	string
<code>enableansi</code>	function	<code>selflink</code>	string
<code>env</code>	data table	<code>selfname</code>	string
<code>execute</code>	overloaded function	<code>selfpath</code>	string
<code>exit</code>	overloaded function	<code>serialwrite</code>	function
<code>fulltime</code>	function	<code>setenv</code>	overloaded function
<code>getcodepage</code>	function	<code>setexitcode</code>	function
<code>getenv</code>	overloaded function	<code>setlocale</code>	overloaded function
<code>getnamevalues</code>	function	<code>sleep</code>	function
<code>gettimeofday</code>	function	<code>startuptime</code>	function
<code>gettypevalues</code>	function	<code>time</code>	function
<code>getunamelfields</code>	function	<code>timezone</code>	function
<code>isleapyear</code>	function	<code>tmpname</code>	function
<code>launch</code>	function	<code>today</code>	function
<code>libsuffix</code>	string	<code>type</code>	string
<code>localtime</code>	function	<code>uname</code>	function
<code>name</code>	string	<code>uuid</code>	function
<code>newline</code>	string	<code>validdate</code>	function
<code>nofdays</code>	function	<code>weekday</code>	function
<code>now</code>	function	<code>where</code>	function
<code>pipeto</code>	function	<code>which</code>	function

## package (basic lua)

<b>config</b>	string	<b>loadlib</b>	function
<b>cpath</b>	string	<b>luapaths</b>	function
<b>extralibpath</b>	function	<b>path</b>	string
<b>extralibpaths</b>	function	<b>poplibpath</b>	function
<b>extralupath</b>	function	<b>popluapath</b>	function
<b>extralupaths</b>	function	<b>preload</b>	table
<b>helpers</b>	table	<b>pushlibpath</b>	function
<b>libpaths</b>	function	<b>pushluapath</b>	function
<b>loaded</b>	table	<b>searchers</b>	table
<b>loaders</b>	table	<b>searchpath</b>	function

# pagebuilders (context)

## **columnsets** table

- F add
- F addmvl
- F block
- F blockrows
- F check
- F clean
- F define
- F definesub
- F delayedsheet
- F finishflush
- F flushareas
- F flushcolumn
- F goto
- F gotoslot
- F limit
- F noto
- F prepareflush
- F presetsheets
- F presetspreadsheets
- F put
- F putdirect
- F registerarea
- F registersheet
- F registerspreadsheets
- F reset
- F resetdirect

- F reshape
- F setarea
- F setextra
- F sethsize
- F sethspan
- F setlines
- F setmvl
- F setpresent
- F setproperties
- F setstart
- F shape
- F showshape
- F state
- F status
- F submvl
- F submvlbalance

## **injections** table

- F flushafter
- F flushbefore
- F save

## **mixedcolumns** table

- F cleanup
- F finalize
- F getlist
- F getrest
- F getsplit
- F setsplit

pdf (context)

`immediateobj` function



## pdfc (extra tex)

<b>arraytotable</b>	function	<b>getnumber</b>	function
<b>close</b>	function	<b>getobjectrange</b>	function
<b>closestream</b>	function	<b>getpage</b>	function
<b>dictionarytotable</b>	function	<b>getpages</b>	function
<b>getarray</b>	function	<b>getpermissions</b>	function
<b>getboolean</b>	function	<b>getsize</b>	function
<b>getbox</b>	function	<b>getstatus</b>	function
<b>getcatalog</b>	function	<b>getstatusvalues</b>	function
<b>getdictionary</b>	function	<b>getstream</b>	function
<b>getencodingvalues</b>	function	<b>getstring</b>	function
<b>getfieldtypes</b>	function	<b>gettrailer</b>	function
<b>getfromarray</b>	function	<b>getversion</b>	function
<b>getfromdictionary</b>	function	<b>new</b>	function
<b>getfromobject</b>	function	<b>open</b>	function
<b>getfromreference</b>	function	<b>openfile</b>	function
<b>getfromstream</b>	function	<b>openstream</b>	function
<b>getinfo</b>	function	<b>pagestotable</b>	function
<b>getinteger</b>	function	<b>readfromstream</b>	function
<b>getmemoryusage</b>	function	<b>readwholestream</b>	function
<b>getname</b>	function	<b>type</b>	function
<b>getnofobjects</b>	function	<b>unencrypt</b>	function
<b>getnofpages</b>	function		

# physics (context)

**units** table

F registershortcut

F registerunit

D tables

## pngdecode (extra tex)

**applyfilter** function  
**expand** function  
**interlace** function  
**makemask** function

**reduce** function  
**splitmask** function  
**tocmyk** function  
**tomask** function

## posit (extra lua)

<b>NaN</b>	function	<b>exp2</b>	function
<b>NaR</b>	function	<b>expand</b>	function
<b>__add</b>	function	<b>floor</b>	function
<b>__band</b>	function	<b>frombyte</b>	function
<b>__bor</b>	function	<b>fromchar</b>	function
<b>__bxor</b>	function	<b>fromposit</b>	function
<b>__div</b>	function	<b>integer</b>	function
<b>__eq</b>	function	<b>log</b>	function
<b>__le</b>	function	<b>log10</b>	function
<b>__lt</b>	function	<b>log1p</b>	function
<b>__mul</b>	function	<b>log2</b>	function
<b>__name</b>	string	<b>logb</b>	function
<b>__pow</b>	function	<b>max</b>	function
<b>__shl</b>	function	<b>min</b>	function
<b>__shr</b>	function	<b>modf</b>	function
<b>__sub</b>	function	<b>new</b>	function
<b>__tostring</b>	function	<b>pow</b>	function
<b>__unm</b>	function	<b>rotate</b>	function
<b>abs</b>	function	<b>round</b>	function
<b>acos</b>	function	<b>rounded</b>	function
<b>asin</b>	function	<b>shift</b>	function
<b>atan</b>	function	<b>sin</b>	function
<b>band</b>	function	<b>sqrt</b>	function
<b>bor</b>	function	<b>tan</b>	function
<b>bxor</b>	function	<b>tobyte</b>	function
<b>ceil</b>	function	<b>tochar</b>	function
<b>conj</b>	function	<b>tonumber</b>	function
<b>copy</b>	function	<b>toposit</b>	function
<b>cos</b>	function	<b>tostring</b>	function
<b>exp</b>	function		

## potrace (extra tex)

<b>checked</b>	function	<b>getnewfields</b>	function
<b>concat</b>	function	<b>getpolicyvalues</b>	function
<b>contourplot</b>	function	<b>getprocessfields</b>	function
<b>convert</b>	function	<b>new</b>	function
<b>count</b>	function	<b>process</b>	function
<b>flush</b>	function	<b>setbitmap</b>	function
<b>free</b>	function	<b>stripped</b>	function
<b>fromfile</b>	function	<b>totable</b>	function
<b>getbitmap</b>	function	<b>trace</b>	function

# publications (context)

<b>addtentry</b>	function	<b>concatstate</b>	function
<b>analyze</b>	function	<b>converttoxml</b>	function
<b>anywhere</b>	function	<b>currentspecification</b>	table
<b>authorcache</b>	data table	S author	
<b>authorcollapsers</b>	data table	S comment	
<b>authorhashers</b>	table	S copyright	
F invertedshort		S name	
F normal		S version	
F normalinverted		D virtual	
F normalshort		<b>datasets</b>	table
F sequential		<b>detailed</b>	table
F sequentialshort		<b>endnotes_to_btx</b>	function
F short		<b>enhancer</b>	table
<b>authormap</b>	data table	S arguments	
<b>authortoregister</b>	function	B dirty	
<b>btx</b>	table	N steps	
<b>casters</b>	table	<b>enhancers</b>	table
F author		F details	
F keyword		F order	
F pagenumber		F suffixes	
F range		<b>finder</b>	function
<b>checkeddataset</b>	function	<b>firstofrange</b>	function
<b>citevariants</b>	table	<b>found</b>	function
F author		<b>get</b>	function
F authornum		<b>getcasted</b>	function
F authorityyear		<b>getdetail</b>	function
F authorityyears		<b>getdirect</b>	function
F category		<b>getfaster</b>	function
F default		<b>getfield</b>	function
F entry		<b>getfuzzy</b>	function
F index		<b>getindex</b>	function
F keywords		<b>inspectors</b>	data table
F num		<b>journals</b>	table
F page		F abbreviated	
F short		F add	
F tag		F expanded	
F textnum		F load	
F year		F save	
<b>collected</b>	data table	<b>lastofrange</b>	function
<b>components</b>	table	<b>lists</b>	table
F author		F collectentries	

F combiinlist	
F fetchentries	
F filterall	
F flushcombi	
F flushentry	
F flushtag	
F nofregistered	
F prepareentries	
F register	
F sameasprevious	
F uservariable	
<b>listvariants</b>	table
F default	
F index	
F num	
F short	
F tag	
<b>load</b>	function
<b>loadbibdata</b>	function
<b>loaddefinitionfile</b>	function
<b>loaders</b>	table
F bbl	
F bib	
F buffer	
F endnote	
F json	
F lua	
F refman	
F registercleaner	
F xml	
<b>loadreplacementfile</b>	function
<b>meanings</b>	table
<b>new</b>	function
<b>okay</b>	function
<b>oneorange</b>	function
<b>parenttag</b>	function
<b>permitted</b>	function
<b>prerollcmdstring</b>	function
<b>refman_to_btx</b>	function
<b>resolvedname</b>	function
<b>save</b>	function
<b>savers</b>	table
F bib	
F lua	
F xml	
<b>search</b>	function
<b>setcategory</b>	function
<b>setspecification</b>	function
<b>singularorplural</b>	function
<b>sortedentries</b>	function
<b>sortmethods</b>	table
<b>specifications</b>	table
<b>splitauthor</b>	function
<b>splitoneauthor</b>	function
<b>statistics</b>	table
N nofbytes	
N nofdatasets	
N nofdefinitions	
N nofshortcuts	
<b>tables</b>	table
D implicits	
D origins	
D privates	
D sets	
D specials	
D types	
D virtuals	
<b>tags</b>	function
<b>tracers</b>	table
F showdatasetauthors	
F showdatasetcompleteness	
F showdatasetfields	
F showentry	
F showfields	
F showhashedauthors	
F showtables	
F showvariants	
<b>typesetters</b>	table
F author	
F string	
<b>usedataset</b>	function
<b>usedentries</b>	function
<b>writers</b>	table
F author	
F keyword	
F pagenumber	
F range	

# qrcodegen (context)

**bitmap** function

**generate** function



## regimes (context)

**backmapping** data table  
**cleanup** function  
**disable** function  
**enable** function  
**fromregime** function  
**list** function

**mapping** data table  
**pop** function  
**process** function  
**push** function  
**to regime** function  
**translate** function

# resolvers (context)

<b>allprefixes</b>	function	<b>findfiles</b>	function
<b>appendhash</b>	function	<b>findgivenfile</b>	function
<b>automount</b>	function	<b>findgivenfiles</b>	function
<b>booleanvariable</b>	function	<b>findlib</b>	function
<b>cacheversion</b>	string	<b>findpath</b>	function
<b>checkedvariable</b>	function	<b>findpk</b>	function
<b>cleanedpathlist</b>	function	<b>findtexfile</b>	function
<b>cleaners</b>	data table	<b>findwildcardfile</b>	function
<b>cleanpath</b>	function	<b>findwildcardfiles</b>	function
<b>cleanpathlist</b>	function	<b>formatofsuffix</b>	function
<b>cleanupbinfile</b>	function	<b>formatofvariable</b>	function
<b>concatinators</b>	data table	<b>formats</b>	data table
<b>configbanner</b>	string	<b>foundintree</b>	function
<b>configurationfiles</b>	function	<b>foundintrees</b>	function
<b>dangerous</b>	data table	<b>generators</b>	data table
<b>datastate</b>	function	<b>get_from_content</b>	function
<b>decompressors</b>	table	<b>getenv</b>	function
F register		<b>getextrapaths</b>	function
F unregister		<b>getfilehashes</b>	function
<b>defaultsuffixes</b>	table	<b>gethashes</b>	function
<b>dirstatus</b>	function	<b>getownpath</b>	function
<b>dowithfilesandreport</b>	function	<b>getreadfilename</b>	function
<b>dowithfilesintree</b>	function	<b>hashers</b>	data table
<b>dowithpath</b>	function	<b>homedir</b>	string
<b>dowithvariable</b>	function	<b>ignorelibrary</b>	function
<b>executers</b>	table	<b>initialized</b>	function
<b>expandbraces</b>	function	<b>installinputfilehandler</b>	function
<b>expandedpathfromlist</b>	function	<b>installinputlinehandler</b>	function
<b>expandedpathlist</b>	function	<b>jobpath</b>	function
<b>expandedpathlistfromvariable</b>	function	<b>jobs</b>	table
<b>expandpath</b>	function	F collectstructure	
<b>expandpathfromvariable</b>	function	F currentcomponent	
<b>expansion</b>	function	F currentenvironment	
<b>extendtexmfvariable</b>	function	F currentproduct	
<b>filtered_from_content</b>	function	F currentproject	
<b>find_file</b>	function	F currentstructure	
<b>find_files</b>	function	F justacomponent	
<b>findbinfile</b>	function	F namelist	
<b>findctxfile</b>	function	D processors	
<b>finders</b>	data table	F productcomponent	
<b>findfile</b>	function	F usefile	

<b>joinpath</b>	function	<b>registerfile</b>	function
<b>knownvariables</b>	function	<b>registerfilehash</b>	function
<b>libraries</b>	table	<b>registerintrees</b>	function
F optionalloaded		<b>registermethod</b>	function
F validoptional		<b>registerzipfile</b>	function
<b>load</b>	function	<b>relations</b>	data table
<b>loadbinfile</b>	function	<b>renew</b>	function
<b>loaders</b>	data table	<b>renewcache</b>	function
<b>loadluaLib</b>	function	<b>repath</b>	function
<b>loadtexfile</b>	function	<b>reset</b>	function
<b>loadtime</b>	function	<b>resetextrapaths</b>	function
<b>locateformat</b>	function	<b>resetresolve</b>	function
<b>locators</b>	data table	<b>resolve</b>	function
<b>luacnffallback</b>	string	<b>savers</b>	data table
<b>luacnfname</b>	string	<b>scandata</b>	function
<b>luacnfspec</b>	string	<b>scanfiles</b>	function
<b>luacnfstate</b>	string	<b>schemes</b>	table
<b>macros</b>	table	F cleanname	
F convertfile		F fetchstring	
F decodecomment		F fetchtable	
F enablecomment		F install	
F encodecomment		<b>setdynamic</b>	function
F preprocessed		<b>setenv</b>	function
F processmk		<b>showpath</b>	function
F processmkLx		<b>simplescanfiles</b>	function
F processmkvi		<b>splitconfigurationpath</b>	function
F version		<b>splitexpansions</b>	function
<b>maxreadlevel</b>	number	<b>splitmethod</b>	function
<b>methodhandler</b>	function	<b>splitpath</b>	function
<b>missinglibrary</b>	function	<b>stackpath</b>	function
<b>openbinfile</b>	function	<b>starttiming</b>	function
<b>openers</b>	data table	<b>stoptiming</b>	function
<b>openfile</b>	function	<b>suffixes</b>	data table
<b>opentexfile</b>	function	<b>suffixmap</b>	data table
<b>ownpath</b>	string	<b>suffixofformat</b>	function
<b>popextrapath</b>	function	<b>texdatablob</b>	function
<b>popinputname</b>	function	<b>toppath</b>	function
<b>poppath</b>	function	<b>tracers</b>	data table
<b>prefixes</b>	data table	<b>unexpandedpath</b>	function
<b>prependhash</b>	function	<b>unexpandedpathlist</b>	function
<b>pushextrapath</b>	function	<b>unresolve</b>	function
<b>pushinputname</b>	function	<b>updaterelations</b>	function
<b>pushpath</b>	function	<b>updatescript</b>	function
<b>registerextrapath</b>	function	<b>uselibrary</b>	function

<b>usertypes</b>	data table	<b>variableofformat</b>	function
<b>usezipfile</b>	function	<b>variableofformatorsuffix</b>	function
<b>validatedpath</b>	function	<b>wildcardpattern</b>	function
<b>variable</b>	function		

## sandbox (context)

<b>blockrequire</b>	function	<b>possiblepath</b>	function
<b>disablelibraries</b>	function	<b>redefine</b>	function
<b>disablerunners</b>	function	<b>register</b>	function
<b>enable</b>	function	<b>registerbinary</b>	function
<b>filehandlerone</b>	function	<b>registerlibrary</b>	function
<b>filehandlertwo</b>	function	<b>registerroot</b>	function
<b>finalizer</b>	function	<b>registerrunner</b>	function
<b>getrunner</b>	function	<b>report</b>	function
<b>initializer</b>	function	<b>setfilenamelogger</b>	function
<b>iohandler</b>	function	<b>setlogger</b>	function
<b>logcalls</b>	function	<b>setreporter</b>	function
<b>logfiles</b>	function	<b>settrace</b>	function
<b>original</b>	function	<b>validfilename</b>	function
<b>overload</b>	function		

# scripts (context)

**autofontfeature** table

F disable

F enable

F handler

**colors** data table

**decomposehangul** function

**defaults** table

N inter\_char\_half\_shrink\_factor

N inter\_char\_half\_stretch\_factor

N inter\_char\_hangul\_penalty

N inter\_char\_quarter\_shrink\_factor

N inter\_char\_quarter\_stretch\_factor

N inter\_char\_shrink\_factor

N inter\_char\_stretch\_factor

N inter\_word\_stretch\_factor

**getdata** function

**getinjector** function

**getsplitter** function

**getstatus** function

**handlers** data table

**helpers** data table

**injectors** data table

**inserters** table

F nobreakspace\_after

F nobreakspace\_before

F space\_after

F space\_before

F zerowidthspace\_after

F zerowidthspace\_before

**installdataset** function

**installmethod** function

**numbertodataset** data table

**numbertohandler** data table

**reset** function

**set** function

**setstatus** function

**splitters** data table

## serial (context)

**\_\_gc** function  
**\_\_name** string  
**\_\_tostring** function  
**close** function

**open** function  
**send** function  
**tostring** function  
**write** function

## set (context)

**contains** function

**create** function

**tolist** function

**tonumber** function

**totable** function



## sha2 (extra lua)

**HASH256** function  
**HASH384** function  
**HASH512** function  
**HEX256** function  
**HEX384** function  
**HEX512** function  
**digest256** function  
**digest384** function  
**digest512** function

**hash256** function  
**hash384** function  
**hash512** function  
**hex256** function  
**hex384** function  
**hex512** function  
**sum256** function  
**sum384** function  
**sum512** function

## sio (extra lua)

**read2dot14** function  
**readbytes** function  
**readbytetable** function  
**readcardinal1** function  
**readcardinal1le** function  
**readcardinal2** function  
**readcardinal2le** function  
**readcardinal3** function  
**readcardinal3le** function  
**readcardinal4** function  
**readcardinal4le** function  
**readcardinaltable** function  
**readcline** function  
**readcstring** function  
**readfixed2** function  
**readfixed4** function  
**readinteger1** function

**readinteger1le** function  
**readinteger2** function  
**readinteger2le** function  
**readinteger3** function  
**readinteger3le** function  
**readinteger4** function  
**readinteger4le** function  
**readintegertable** function  
**tocardinal1** function  
**tocardinal1le** function  
**tocardinal2** function  
**tocardinal2le** function  
**tocardinal3** function  
**tocardinal3le** function  
**tocardinal4** function  
**tocardinal4le** function

# socket (extra lua)

<b>BLOCKSIZE</b>	number	<b>sinkt</b>	table
<b>_SETSIZE</b>	number	F close-when-done	
<b>_SOCKETINVALID</b>	number	F default	
<b>bind</b>	function	F http-chunked	
<b>choose</b>	function	F keep-open	
<b>connect</b>	function	<b>skip</b>	function
<b>connect4</b>	function	<b>sleep</b>	function
<b>connect6</b>	function	<b>source</b>	function
<b>dns</b>	table	<b>sourcet</b>	table
F getaddrinfo		F by-length	
F gethostname		F default	
F getnameinfo		F http-chunked	
F tohostname		F until-closed	
F toip		<b>tcp</b>	function
<b>gettime</b>	function	<b>tcp4</b>	function
<b>headers</b>	table	<b>tcp6</b>	function
F lower		<b>tp</b>	table
F normalize		N TIMEOUT	
<b>http</b>	table	F connect	
N TIMEOUT		<b>try</b>	function
S USERAGENT		<b>url</b>	table
F genericform		F absolute	
F open		F build	
F request		F build_path	
<b>newtry</b>	function	F escape	
<b>protect</b>	function	F parse	
<b>report</b>	function	F parse_path	
<b>select</b>	function	F unescape	
<b>sink</b>	function		

# sorters (context)

**basicsorter**      function  
**comparers**        table  
    F basic  
**constants**        table  
    S defaultdigits  
    S defaultlanguage  
    S defaultmethod  
    N digitmaximum  
    N digitoffset  
    N ignoredoffset  
    N replacementoffset  
**definitions**      data table

**firstofsplit**     function  
**packch**            function  
**packuc**            function  
**replacementlist** function  
**setlanguage**     function  
**sort**              function  
**splitters**        table  
    F utf  
**strip**             function  
**tracers**          data table  
**update**            function

## sparse (extra lua)

**concat**    function  
**get**        function  
**max**        function  
**min**        function  
**new**        function

**range**     function  
**restore**   function  
**set**        function  
**traverse**  function  
**wipe**      function

# statistics (context)

**benchmarktimer** function  
**checkfmtstatus** function  
**currenttime** function  
**elapsed** function  
**elapsedindeed** function  
**elapsedseconds** function  
**elapsedtime** function  
**enable** boolean  
**feedback** table  
    F info  
    F processstates  
    F register  
    F reportstates  
    F setstate  
**formatruntime** function

**hastiming** function  
**memused** function  
**register** function  
**resettiming** function  
**runtime** function  
**savefmtstatus** function  
**show** function  
**showmemory** function  
**showusage** function  
**starttiming** function  
**stoptiming** function  
**threshold** number  
**timed** function  
**tracefunction** function

## status (basic tex)

<b>getbalancestate</b>	function	<b>getluastate</b>	function
<b>getbufferstate</b>	function	<b>getmarkstate</b>	function
<b>getcallbackstate</b>	function	<b>getmvlstate</b>	function
<b>getconstants</b>	function	<b>getneststate</b>	function
<b>geterrorlinestate</b>	function	<b>getnodestate</b>	function
<b>geterrorstate</b>	function	<b>getparameterstate</b>	function
<b>getexpandstate</b>	function	<b>getpoolstate</b>	function
<b>getfilestate</b>	function	<b>getreadstate</b>	function
<b>getfontstate</b>	function	<b>getsavestate</b>	function
<b>gethalferrorlinestate</b>	function	<b>getsparsestate</b>	function
<b>gethashstate</b>	function	<b>getstringstate</b>	function
<b>gethyphenationstate</b>	function	<b>gettexstate</b>	function
<b>getinputstate</b>	function	<b>gettokenstate</b>	function
<b>getinsertstate</b>	function	<b>getwarningstate</b>	function
<b>getlanguagestate</b>	function	<b>iocodes</b>	table
<b>getlinebreakstate</b>	function	<b>list</b>	function
<b>getlookupstate</b>	function	<b>resetmessages</b>	function

## storage (context)

<b>allocate</b>	function	<b>noftables</b>	number
<b>data</b>	table	<b>register</b>	function
<b>mark</b>	function	<b>shared</b>	data table
<b>marked</b>	function	<b>storedfunctions</b>	data table
<b>max</b>	number	<b>strip</b>	boolean
<b>min</b>	number	<b>tofmodules</b>	number
<b>nofmodules</b>	number	<b>toftables</b>	number



## streams (context)

**collect**      function  
**disable**     function  
**enable**      function  
**flush**        function  
**initialize**   function

**push**         function  
**start**        function  
**stop**         function  
**synchronize** function

# string (basic lua)

<b>autodouble</b>	function	<b>optionalquoted</b>	function
<b>autosingle</b>	function	<b>pack</b>	function
<b>booleanstring</b>	function	<b>packrowscolumns</b>	function
<b>byte</b>	function	<b>packsize</b>	function
<b>bytepairs</b>	function	<b>quote</b>	function
<b>bytes</b>	function	<b>quoted</b>	function
<b>bytable</b>	function	<b>rep</b>	function
<b>char</b>	function	<b>replacenewlines</b>	function
<b>characterpairs</b>	function	<b>reverse</b>	function
<b>characters</b>	function	<b>split</b>	function
<b>checkedsplit</b>	function	<b>splitintolines</b>	function
<b>chrtointeger</b>	function	<b>splitlines</b>	function
<b>collapsespaces</b>	function	<b>splitup</b>	function
<b>containsws</b>	function	<b>strip</b>	function
<b>count</b>	function	<b>sub</b>	function
<b>dectointeger</b>	function	<b>texhashed</b>	function
<b>dump</b>	function	<b>texnewlines</b>	function
<b>escapedpattern</b>	function	<b>tformat</b>	function
<b>escapedquotes</b>	function	<b>toHEX</b>	function
<b>f6</b>	function	<b>toboolean</b>	function
<b>find</b>	function	<b>tobytes</b>	function
<b>format</b>	function	<b>tocontext</b>	function
<b>formatter</b>	function	<b>todec</b>	function
<b>formatters</b>	function	<b>todimen</b>	function
<b>fullstrip</b>	function	<b>tohex</b>	function
<b>gmatch</b>	function	<b>tonodes</b>	function
<b>gsub</b>	function	<b>topattern</b>	function
<b>hashes</b>	table	<b>totable</b>	function
<b>hextocharacters</b>	function	<b>tounicode16</b>	function
<b>hextointeger</b>	function	<b>toutf</b>	function
<b>is_boolean</b>	function	<b>toutf16</b>	function
<b>is_empty</b>	function	<b>toutf32</b>	function
<b>itself</b>	function	<b>toutf8</b>	function
<b>len</b>	function	<b>tracedchar</b>	function
<b>limit</b>	function	<b>unescapedquotes</b>	function
<b>linetable</b>	function	<b>unpack</b>	function
<b>longtostring</b>	function	<b>unquote</b>	function
<b>lower</b>	function	<b>unquoted</b>	function
<b>match</b>	function	<b>upper</b>	function
<b>nospaces</b>	function	<b>utf16toutf8</b>	function
<b>octtointeger</b>	function	<b>utfcharacter</b>	function

**utfcharacters** function  
**utfcharacterstable** function  
**utflength** function  
**utfpadd** function  
**utfpadding** function  
**utftabletostring** function

**utfvalue** function  
**utfvalues** function  
**utfvaluetable** function  
**valid** function  
**wordsplitter** function

# structures (context)

<b>atlocation</b>	function	F reset	
<b>blocks</b>	table	F restart	
D collected		F restore	
F define		F save	
F empty		F set	
F print		F setlevel	
F save		F setoffset	
F select		F setown	
F setstate		F setstate	
D states		F setvalue	
D tobesaved		F subs	
F uservariable		D tobesaved	
<b>bookmarks</b>	table	F value	
F finalize		F way	
F flatten		<b>currentsectionnumber</b>	function
F installhandler		<b>descriptions</b>	table
F merge		<b>documents</b>	table
S method		D data	
F overload		F initialize	
F place		F preset	
F register		F reset	
F setopened		<b>floats</b>	table
F setup		<b>formulas</b>	table
<b>counters</b>	table	<b>helpers</b>	table
F add		F analyze	
F analyze		F formulanumber	
F check		F merged	
D collected		F page	
F compact		F pageofinternal	
F converted		F prefix	
F currentvalue		F prefixlastpage	
D data		F prefixpage	
F define		F simplify	
F first		F title	
F get		F touserdata	
F last		<b>inserts</b>	table
F next		F attach	
F prev		D data	
F previous		F define	
F raw		F detach	
F record		F getdata	

F getlocation  
 F getname  
 F getnumber  
 F nofdetached  
 F setlocation  
 F setup  
 D stored  
**itemgroups** table  
 D collected  
 D tobesaved  
**lists** table  
 F addto  
 F analyze  
 F bookmark  
 D cached  
 D collected  
 F discard  
 F enhance  
 F external  
 F filter  
 F formulainumber  
 F getresult  
 F groupindex  
 F hasnumberdata  
 F haspagedata  
 F hastitledata  
 F integrate  
 F iscached  
 D kinds  
 F label  
 F location  
 D names  
 F number  
 D ordered  
 F page  
 F popnesting  
 F prefix  
 F prefixednumber  
 F prefixedpage  
 F process  
 D pushed  
 F pushnesting  
 F rawnumber  
 F rawrealpage

F rawuserpage  
 F realpage  
 F reorder  
 F reordered  
 F savedlistnumber  
 F savedlistprefixednumber  
 F savedlisttitle  
 D sectionblocks  
 F size  
 F title  
 D tobosaved  
 F use  
 F userdata  
 F userpage  
 F uservalue

**marks** table

F number  
 F title

**notes** table

F check\_spacing  
 F checkpagechange  
 F define  
 F doifonsamepageasprevious  
 F flushrange  
 F get  
 F getdeltapage  
 F getinternal  
 F getn  
 F getstate  
 F hascontent  
 F internal  
 F internalid  
 F listindex  
 D numbers  
 F ordered  
 F postpone  
 F resetpostponed  
 F restore  
 F save  
 F setstate  
 D states  
 F store

**pages** table

F allmarked

F analyze  
 D collected  
 F fraction  
 F getlabels  
 F in\_body  
 F is\_odd  
 F mark  
 F marked  
 F markedlist  
 N nopages  
 F number  
 F on\_right  
 F save  
 D tobesaved  
 F toranges

## references

## table

F analyze  
 F checked  
 F checkedfile  
 F checkedfileorurl  
 F checkedprogram  
 F checkedrealpage  
 F checkedurl  
 D collected  
 U componentsplitter  
 F currentmetadata  
 F currentorder  
 D currentset  
 F define  
 D defined  
 D derived  
 F enhance  
 D executers  
 F export  
 F filter  
 F filterdefault  
 D filters  
 D flaginternals  
 F forceinnermode  
 F from  
 D functions  
 F get  
 F getcurrentlabel  
 F getcurrentmetadata

F getcurrentprefixspec  
 F getinnermethod  
 F getinternalcachedlistreference  
 F getinternallistreference  
 F getinternalreference  
 F getoutermethod  
 D handlers  
 F identify  
 F import  
 F inject  
 F injectcurrentset  
 S innermethod  
 F integrate  
 D internals  
 F load  
 F loadpresets  
 F mark  
 S outermethod  
 F pagefromhash  
 D pages  
 U prefixsplitter  
 D productdata  
 F realpageofpage  
 F referenced  
 U referencesplitter  
 D referred  
 F referredpage  
 F registerfinalizer  
 F registerinitializer  
 F registerpage  
 F reset  
 D runners  
 F set  
 F setandgetattribute  
 F setinternalreference  
 F setlinkmethod  
 F setnextinternal  
 F setnextorder  
 F setreferencerealpage  
 F setstructure  
 D specials  
 F splitcomponent  
 F splitprefix  
 F splitreference

F synchronizepage  
D tobereferred  
D tobesaved  
D tracedpages  
D usedinternals  
D usedviews  
F valid

**registers** table

F analyze  
D collected  
F compare  
F define  
F enhance  
F extend  
F filter  
F filtercollected  
F finalize  
F findinternal  
F flush  
F get  
F integrate  
F prepare  
F process  
F setmethod  
F sort  
F store  
D tobesaved  
F tweak  
F unique  
F use  
F userdata

**sections** table

F autodepth  
F cct  
D collected  
F current  
F currentblock  
F currentid  
F currentlevel  
F currentsectionindex  
F depthnumber  
F finddata  
F findnumber  
F fullnumber

F getcurrentlevel  
F getlevel  
F getnumber  
F internalreference  
D levelmap  
D levels  
F matchingtilldepth  
F numberatdepth  
F numbers  
F popblock  
F prefixedconverted  
F pushblock  
F register  
D registered  
F reportstructure  
F save  
F set  
F setblock  
F setchecker  
F setentry  
F setinitialblock  
F setlevel  
F setnumber  
F showstructure  
F structuredata  
F title  
D tobesaved  
F typesetnumber  
F userdata  
B verbose

**sets** table

F define  
F get  
F getall  
D setlist

**specials** table

D collected  
F retrieve  
F store  
D tobesaved

**synonyms** table

F analyzed  
D collected  
F compare

F define  
F enhance  
F filter  
F finalize  
F flush  
F isshown  
F isused  
F meaning  
F pages  
F prepare  
F process  
F register  
F registershown  
F registerused  
F reset  
F resetall  
F resetlist  
F resetshown  
F resetused  
F sort  
F synonym  
D tobesaved

## tags

F analyze  
F checknesting  
F current  
F elementtag  
F enabled  
F exportbox  
F finishexport  
F getdescriptionindex  
F getextradata  
F getid  
F getitemgroup  
F getmetadata  
F getoption  
F getsorting  
F getsynonym  
F gettablecell  
F gettabulatecell  
F gettagreferencedescription  
F handler  
F initializeexport  
D labels

## table

F last  
F lastinchain  
F localexport  
F locatedtag  
D overloads  
F pop  
D properties  
F push  
F registerextradata  
F registermetadata  
F restart  
F setaspect  
F setattributehash  
F setcodepoint  
F setcombination  
F setcombinationpair  
F setconstruct  
F setdescriptionindex  
F setfigure  
F setfloat  
F setformulacontent  
F sethighlight  
F setitem  
F setitemgroup  
F setmpgraphic  
F setnotation  
F setnotationsymbol  
F setparagraph  
F setproperty  
F setpublication  
F setregister  
F setsorting  
F setsynonym  
F settablecell  
F settabulatecell  
F settagdelimitedsymbol  
F settagsubsentencesymbol  
F setupexport  
F setuserproperties  
D specifications  
F start  
F stop  
F strip  
D taglist



## table (basic lua)

<b>append</b>	function	<b>pack</b>	function
<b>are_equal</b>	function	<b>prepend</b>	function
<b>combine</b>	function	<b>print</b>	function
<b>compact</b>	function	<b>remove</b>	function
<b>concat</b>	function	<b>reverse</b>	function
<b>contains</b>	function	<b>reversed</b>	function
<b>copy</b>	function	<b>save</b>	function
<b>count</b>	function	<b>sequenced</b>	function
<b>create</b>	function	<b>serialize</b>	function
<b>derive</b>	function	<b>setmetatablecall</b>	function
<b>deserialize</b>	function	<b>setmetatableindex</b>	function
<b>fastcopy</b>	function	<b>setmetatableindices</b>	function
<b>fastserialize</b>	function	<b>setmetatablenewindex</b>	function
<b>filtered</b>	function	<b>sort</b>	function
<b>flattened</b>	function	<b>sorted</b>	function
<b>fromhash</b>	function	<b>sortedhash</b>	function
<b>getn</b>	function	<b>sortedhashkeys</b>	function
<b>has_one_entry</b>	function	<b>sortedhashonly</b>	function
<b>hashed</b>	function	<b>sortedindexonly</b>	function
<b>identical</b>	function	<b>sortedkeys</b>	function
<b>imerge</b>	function	<b>sortedpairs</b>	function
<b>imerged</b>	function	<b>sparse</b>	function
<b>insert</b>	function	<b>strip</b>	function
<b>is_empty</b>	function	<b>sub</b>	function
<b>is_simple_table</b>	function	<b>swapped</b>	function
<b>keys</b>	function	<b>tocontext</b>	function
<b>load</b>	function	<b>tocsv</b>	function
<b>loweredkeys</b>	function	<b>tofile</b>	function
<b>makeweak</b>	function	<b>tohandle</b>	function
<b>merge</b>	function	<b>tohash</b>	function
<b>merged</b>	function	<b>toxml</b>	function
<b>mirrored</b>	function	<b>unique</b>	function
<b>move</b>	function	<b>unpack</b>	function

# tex (basic tex)

<b>amcode</b>		<b>discoptioncodes</b>	data table
<b>attribute</b>	table	<b>discpartcodes</b>	data table
<b>attributetracking</b>	function	<b>dontcomplain</b>	function
<b>automigrationcodes</b>	data table	<b>doublescriptoptioncodes</b>	data table
<b>autoparagraphcodes</b>	data table	<b>enableprimitives</b>	function
<b>badness</b>	function	<b>error</b>	function
<b>badnessmodecodes</b>	data table	<b>expandasvalue</b>	function
<b>balance</b>	function	<b>experiments</b>	data table
<b>balancecallbackcodes</b>	data table	<b>extraprimitives</b>	function
<b>boundaries</b>	table	<b>fatalerror</b>	function
D names		<b>fillcodes</b>	data table
D numbers		<b>flagcodes</b>	data table
F system		<b>fontidentifier</b>	function
<b>box</b>	table	<b>fontname</b>	function
<b>boxoptioncodes</b>	data table	<b>forcehmode</b>	function
<b>boxresources</b>	table	<b>forceinputstatefile</b>	function
F getbox		<b>forceinputstateline</b>	function
F getdimensions		<b>fprint</b>	function
F save		<b>frozenparcodes</b>	data table
F use		<b>get</b>	function
<b>breakcodes</b>	data table	<b>getadjustoptionvalues</b>	function
<b>buildcodes</b>	data table	<b>getalignmentcontextvalues</b>	function
<b>catcode</b>	table	<b>getamcode</b>	function
<b>cccode</b>	table	<b>getappendadjustcontextvalues</b>	function
<b>charactercontrolcodes</b>	data table	<b>getappendmigratecontextvalues</b>	function
<b>charactertagcodes</b>	data table	<b>getattribute</b>	function
<b>chardef</b>	function	<b>getautomigrationvalues</b>	function
<b>classoptioncodes</b>	data table	<b>getautoparagraphvalues</b>	function
<b>codes</b>	table	<b>getbadnessmodevalues</b>	function
<b>conditionals</b>	data table	<b>getbalancecallbackvalues</b>	function
<b>constants</b>	data table	<b>getbalanceparameterfields</b>	function
<b>count</b>	table	<b>getbalanceresultfields</b>	function
<b>cprint</b>	function	<b>getbalancestepoptionvalues</b>	function
<b>ctdcatcodes</b>	number	<b>getbox</b>	function
<b>ctxcatcodes</b>	number	<b>getboxdir</b>	function
<b>definefont</b>	function	<b>getboxoptionvalues</b>	function
<b>delcode</b>	table	<b>getboxresourcebox</b>	function
<b>dimen</b>	table	<b>getboxresource dimensions</b>	function
<b>dimensiondef</b>	function	<b>getbreakcontextvalues</b>	function
<b>directioncodes</b>	data table	<b>getbuildcontextvalues</b>	function
<b>directives</b>	data table	<b>getcardinalvalue</b>	function

<b>getcatcode</b>	function	<b>getinsertlimit</b>	function
<b>getcccode</b>	function	<b>getinsertmultiplier</b>	function
<b>getcharactercontrolvalues</b>	function	<b>getinsertwidth</b>	function
<b>getcharactertagvalues</b>	function	<b>getintegervalue</b>	function
<b>getcount</b>	function	<b>getinteraction</b>	function
<b>getcurrentmvl</b>	function	<b>getinteractionmodes</b>	function
<b>getdelcode</b>	function	<b>getiovalues</b>	function
<b>getdelcodes</b>	function	<b>getkerneloptionvalues</b>	function
<b>getdimen</b>	function	<b>getkernoptionvalues</b>	function
<b>getdimensionvalue</b>	function	<b>getlargestusedmark</b>	function
<b>getdirectionvalues</b>	function	<b>getlccode</b>	function
<b>getdiscoptionvalues</b>	function	<b>getlinebreakparameterfields</b>	function
<b>getdiscpartvalues</b>	function	<b>getlinebreakresultfields</b>	function
<b>getdoublescriptoptionvalues</b>	function	<b>getlinebreakstatevalues</b>	function
<b>getemptyparagraphmodevalues</b>	function	<b>getlinedir</b>	function
<b>geterrorvalues</b>	function	<b>getlist</b>	function
<b>getfillvalues</b>	function	<b>getlistanchorvalues</b>	function
<b>getflagvalues</b>	function	<b>getlistfields</b>	function
<b>getfloat</b>	function	<b>getlistgeometryvalues</b>	function
<b>getfontdimension</b>	function	<b>getlistsignvalues</b>	function
<b>getfontofffamily</b>	function	<b>getlocalbox</b>	function
<b>getfrozenparvalues</b>	function	<b>getlocalboxlocations</b>	function
<b>getglue</b>	function	<b>getlocallevel</b>	function
<b>getglueoptionvalues</b>	function	<b>getmark</b>	function
<b>getglyphdata</b>	function	<b>getmarknames</b>	function
<b>getglyphdiscvalues</b>	function	<b>getmath</b>	function
<b>getglyphoptionvalues</b>	function	<b>getmathclassoptionvalues</b>	function
<b>getglyphprotectionvalues</b>	function	<b>getmathcode</b>	function
<b>getglyphscales</b>	function	<b>getmathcodes</b>	function
<b>getglyphscript</b>	function	<b>getmathcontrolvalues</b>	function
<b>getglyphstate</b>	function	<b>getmathdir</b>	function
<b>getgroupvalues</b>	function	<b>getmathgluevalues</b>	function
<b>gethccode</b>	function	<b>getmathoptionvalues</b>	function
<b>gethelptext</b>	function	<b>getmathparametervalues</b>	function
<b>gethmcodes</b>	function	<b>getmathscriptordervalue</b>	function
<b>gethyphenationvalues</b>	function	<b>getmathscriptsmodevalues</b>	function
<b>getiftypes</b>	function	<b>getmathstylenamevalues</b>	function
<b>getinputstatefile</b>	function	<b>getmathstylevalues</b>	function
<b>getinputstateline</b>	function	<b>getmathstylevariant</b>	function
<b>getinputstatemode</b>	function	<b>getmathsurroundvalues</b>	function
<b>getinsertcontent</b>	function	<b>getmathvariantpresets</b>	function
<b>getinsertdepth</b>	function	<b>getmathvariantvalues</b>	function
<b>getinsertdistance</b>	function	<b>getmeasure</b>	function
<b>getinsertheight</b>	function	<b>getmissingcharactervalues</b>	function

<b>getmode</b>	function	<b>gettoks</b>	function
<b>getmodevalues</b>	function	<b>getuocode</b>	function
<b>getmuglue</b>	function	<b>getuleaderlocationvalues</b>	function
<b>getmuskip</b>	function	<b>getunitclassvalues</b>	function
<b>getmvloptionvalues</b>	function	<b>getusedmarks</b>	function
<b>getnest</b>	function	<b>getvsplitcontextvalues</b>	function
<b>getnestfields</b>	function	<b>glue</b>	table
<b>getnestlevel</b>	function	<b>glueoptioncodes</b>	data table
<b>getnoadooptionvalues</b>	function	<b>glyphdiscodes</b>	data table
<b>getnormalizelinevalues</b>	function	<b>glyphoptioncodes</b>	data table
<b>getnormalizeparvalues</b>	function	<b>groupcodes</b>	data table
<b>getoutputactive</b>	function	<b>hashtokens</b>	function
<b>getpacktypevalues</b>	function	<b>hccode</b>	table
<b>getpagecontextvalues</b>	function	<b>hmcode</b>	table
<b>getpagestate</b>	function	<b>hshcatcodes</b>	number
<b>getpagestatevalues</b>	function	<b>hyphenationcodes</b>	data table
<b>getparagraphoptionvalues</b>	function	<b>ifs</b>	data table
<b>getparametermodevalues</b>	function	<b>inimatcodes</b>	number
<b>getparcontextvalues</b>	function	<b>integerdef</b>	function
<b>getpardataspecifications</b>	function	<b>interactioncodes</b>	data table
<b>getpardir</b>	function	<b>isattribute</b>	function
<b>getparmodevalues</b>	function	<b>isbox</b>	function
<b>getparstate</b>	function	<b>iscount</b>	function
<b>getparstatefields</b>	function	<b>isdefined</b>	function
<b>getpartriggervalue</b>	function	<b>isdimen</b>	function
<b>getpenaltyoptionvalues</b>	function	<b>isfloat</b>	function
<b>getpositvalue</b>	function	<b>isglue</b>	function
<b>getprepoststatevalues</b>	function	<b>ismuglue</b>	function
<b>getprimitivelegacies</b>	function	<b>ismuskip</b>	function
<b>getprimitiveorigins</b>	function	<b>isprintable</b>	function
<b>getprotrusionboundaryvalues</b>	function	<b>isskip</b>	function
<b>getregisterindex</b>	function	<b>istoks</b>	function
<b>getruleoptionvalues</b>	function	<b>lastnodetype</b>	function
<b>getrunstate</b>	function	<b>lccode</b>	table
<b>getrunstatevalues</b>	function	<b>linebreak</b>	function
<b>getsfcode</b>	function	<b>linebreakstatecodes</b>	data table
<b>getshapingpenaltiesvalues</b>	function	<b>listanchorcodes</b>	data table
<b>getskip</b>	function	<b>listgeometrycodes</b>	data table
<b>getsnappingvalues</b>	function	<b>lists</b>	table
<b>getspecialmathclassvalues</b>	function	<b>listsigncodes</b>	data table
<b>getspecification</b>	function	<b>luacatcodes</b>	number
<b>getspecificationoptionvalues</b>	function	<b>magicconstants</b>	table
<b>gettextcontrolvalues</b>	function		
<b>gettextdir</b>	function		

S activecharacternamespace

N allfitnessvalues

N assumedmathcontrol	N maxglueregisterindex
N awfulbad	N maxhalfvalue
N decentcriterion	N maxhalfword
N defaultcatcodetable	N maxinteger
N defaultcharactercontrol	N maxintegerregisterindex
N defaultdeadcycles	N maxintregisterindex
N defaulteqnogapstep	N maxlimitedscale
N defaulthangafter	N maxmarkindex
N defaultoutputbox	N maxmathclasscode
N defaultpredisplaygap	N maxmathfamilyindex
N defaultrule	N maxmathscalingfactor
N defaultspacefactor	N maxmathstylescale
N defaulttolerance	N maxmuglueregisterindex
N deplorable	N maxmvlindex
N ejectpenalty	N maxnewlinecharacter
N ignoredepth	N maxnofbytecodes
N infinitebad	N maxnofcatcodetables
N infinitepenalty	N maxnoffitnessvalues
N infinity	N maxnoffonts
N largewidthexcess	N maxnoflanguages
N loosecriterion	N maxnofmarks
N mathallclass	N maxnofmathfamilies
N mathbeginclass	N maxquarterword
N mathdefaultpenalty	N maxscalefactor
N mathendclass	N maxsizeofword
N mathfirstuserclass	N maxspacefactor
N mathlastuserclass	N maxtoksregisterindex
N maxattributeregisterindex	N maxtwinlength
N maxboxregisterindex	N mincardinal
N maxbytecodeindex	N mindatavalue
N maxcalculatedbadness	N mindimen
N maxcardinal	N mindimension
N maxcharactercode	N minhalfword
N maxdatavalue	N mininfinity
N maxdimen	N mininteger
N maxdimenregisterindex	N minmvlindex
N maxdimension	N minnoffitnessvalues
N maxdimensionregisterindex	N minquarterword
N maxendlinecharacter	N minscalefactor
N maxfloatregisterindex	N minspacefactor
N maxfontadjustshrinkfactor	N nocatcodetable
N maxfontadjuststep	N null
N maxfontadjuststretchfactor	N nullflag
N maxfunctionreference	N nullfont

N onebp			
N presetrulethickness			
N runningrule			
N smallstretchability			
N specialspacefactor			
N texeqtbsize			
N texhashprime			
N texhashsize			
N texmemorymode			
N two			
N undefinedmathparameter			
N unity			
N unusedattributevalue			
N unusedmathfamily			
N unusedmathstyle			
N unusedscriptvalue			
N unusedstatevalue			
N zeroglue			
<b>mathchardef</b>	function		
<b>mathcode</b>	table		
<b>mathcontrolcodes</b>	data table		
<b>mathoptioncodes</b>	data table		
<b>mathparametercodes</b>	data table		
<b>mathscriptordercodes</b>	data table		
<b>mathscriptsmodecodes</b>	data table		
<b>modelevels</b>	table		
N horizontal			
N math			
N unset			
N vertical			
<b>modes</b>	data table		
<b>mprint</b>	function		
<b>muglue</b>	table		
<b>muskip</b>	table		
<b>mvloptioncodes</b>	data table		
<b>nest</b>	table		
<b>nilcatcodes</b>	number		
<b>noadoptioncodes</b>	data table		
<b>normalizelinecodes</b>	data table		
<b>normalizeparcodes</b>	data table		
<b>notcatcodes</b>	number		
<b>number</b>	function		
<b>overloadpermitted</b>	function		
<b>parcontextcodes</b>	data table		
<b>partriggercodes</b>			data table
<b>penaltyoptioncodes</b>			data table
<b>poplocal</b>			function
<b>popsavelevel</b>			function
<b>posit</b>			table
<b>positdef</b>			function
<b>preparelinebreak</b>			function
<b>primitives</b>			function
<b>print</b>			function
<b>protrusionboundarycodes</b>			data table
<b>prtcatscodes</b>			number
<b>pushlocal</b>			function
<b>pushsavelevel</b>			function
<b>quitlocal</b>			function
<b>quittoks</b>			function
<b>resetparagraph</b>			function
<b>rlncatcodes</b>			number
<b>romannumeral</b>			function
<b>round</b>			function
<b>ruleoptioncodes</b>			data table
<b>runlocal</b>			function
<b>runstatecodes</b>			data table
<b>runstring</b>			function
<b>runtoks</b>			function
<b>saveboxresource</b>			function
<b>scale</b>			function
<b>scantoks</b>			function
<b>set</b>			function
<b>setamcode</b>			function
<b>setattribute</b>			function
<b>setbalanceshape</b>			function
<b>setbox</b>			function
<b>setboxdir</b>			function
<b>setcardinalvalue</b>			function
<b>setcatcode</b>			function
<b>setcccode</b>			function
<b>setconditional</b>			function
<b>setcount</b>			function
<b>setdelcode</b>			function
<b>setdimen</b>			function
<b>setdimensionvalue</b>			function
<b>setfloat</b>			function
<b>setglue</b>			function
<b>setglyphdata</b>			function

<b>setglyphscript</b>	function	<b>shipout</b>	function
<b>setglyphstate</b>	function	<b>showcontext</b>	function
<b>sethccode</b>	function	<b>skip</b>	table
<b>sethmcodes</b>	function	<b>snappingcodes</b>	data table
<b>setinputstatefile</b>	function	<b>snapshotpar</b>	function
<b>setinputstateline</b>	function	<b>sp</b>	function
<b>setinputstatemode</b>	function	<b>specialmathclasscodes</b>	data table
<b>setinsertcontent</b>	function	<b>specificationoptioncodes</b>	data table
<b>setinsertdistance</b>	function	<b>splitbox</b>	function
<b>setinsertlimit</b>	function	<b>splitcodes</b>	data table
<b>setinsertmultiplier</b>	function	<b>sprint</b>	function
<b>setintegervalue</b>	function	<b>stringtocodesbitmap</b>	function
<b>setinteraction</b>	function	<b>systemmodes</b>	data table
<b>setlccode</b>	function	<b>takebox</b>	function
<b>setlinedir</b>	function	<b>textcatcodes</b>	number
<b>setlist</b>	function	<b>textcontrolcodes</b>	data table
<b>setlocalbox</b>	function	<b>toks</b>	table
<b>setmath</b>	function	<b>tonumber</b>	function
<b>setmathcode</b>	function	<b>toscaled</b>	function
<b>setmathdir</b>	function	<b>tpacatcodes</b>	number
<b>setmuglue</b>	function	<b>tpbcacodes</b>	number
<b>setmuskip</b>	function	<b>tprint</b>	function
<b>setnest</b>	function	<b>trackedattribute</b>	function
<b>setpardir</b>	function	<b>trackers</b>	data table
<b>setpositvalue</b>	function	<b>triggerbuildpage</b>	function
<b>setrunstate</b>	overloaded function	<b>truncatcodes</b>	number
<b>setsfcode</b>	function	<b>uccode</b>	table
<b>setskip</b>	function	<b>uprint</b>	function
<b>settexdir</b>	function	<b>useboxresource</b>	function
<b>settoks</b>	function	<b>userdiscoptioncodes</b>	data table
<b>setuccode</b>	function	<b>userglyphoptioncodes</b>	data table
<b>sfcode</b>	table	<b>vrbcacodes</b>	number
<b>shapingpenaltiescodes</b>	data table	<b>write</b>	function
<b>shiftparshape</b>	function		

# texconfig (basic tex)

<b>bufferize</b>	table	<b>languagesize</b>	table
N size		N size	
N step		N step	
<b>errorlinesize</b>	table	<b>marksizesize</b>	table
N size		N size	
<b>expandsize</b>	table	N step	
N size		<b>nestsize</b>	table
<b>filesize</b>	table	N size	
N size		N step	
N step		<b>nodesize</b>	table
<b>firstline</b>	string	N size	
<b>fontsize</b>	table	N step	
N size		<b>parametersize</b>	table
N step		N size	
<b>formatname</b>	string	N step	
<b>functionsizesize</b>	number	<b>poolsize</b>	table
<b>halferrorlinesize</b>	table	N size	
N size		N step	
<b>hashsize</b>	table	<b>propertyssize</b>	number
N size		<b>savesize</b>	table
N step		N size	
<b>init</b>	overloaded function	N step	
<b>inputsize</b>	table	<b>shell_escape</b>	string
N size		<b>stringsize</b>	table
N step		N size	
<b>insertsize</b>	table	N step	
N size		<b>tokensize</b>	table
N step		N size	
<b>kpse_init</b>	boolean	N step	



## texio (basic tex)

**closeinput**           function  
**forceendoffile**      function  
**getinputindex**       function  
**getselectorvalues**   function  
**getsourcefilename**   function  
**setlogfile**           function  
**terminal**             function

**write**                 function  
**write\_nl**             function  
**writenl**             function  
**writeselector**       function  
**writeselectorlf**     function  
**writeselectornl**     function

## token (basic tex)

<b>create</b>	function	<b>getexpandable</b>	function
<b>expand</b>	function	<b>getexpansion</b>	function
<b>expand_macro</b>	function	<b>getfields</b>	function
<b>expandmacro</b>	function	<b>getflags</b>	function
<b>future_expand</b>	function	<b>getfrozen</b>	function
<b>futureexpand</b>	function	<b>getfunctionvalues</b>	function
<b>get_active</b>	function	<b>getid</b>	function
<b>get_cmdchrscs</b>	function	<b>getimmutable</b>	function
<b>get_cmdname</b>	function	<b>getindex</b>	function
<b>get_command</b>	function	<b>getinstance</b>	function
<b>get_csname</b>	function	<b>getinteger</b>	function
<b>get_cstoken</b>	function	<b>getlength</b>	function
<b>get_dimension</b>	function	<b>getmacro</b>	function
<b>get_expandable</b>	function	<b>getmeaning</b>	function
<b>get_fields</b>	function	<b>getnoaligned</b>	function
<b>get_flags</b>	function	<b>getparameters</b>	function
<b>get_frozen</b>	function	<b>getpermanent</b>	function
<b>get_id</b>	function	<b>getprimitive</b>	function
<b>get_immutable</b>	function	<b>getprimitives</b>	function
<b>get_index</b>	function	<b>getprotected</b>	function
<b>get_instance</b>	function	<b>getrange</b>	function
<b>get_integer</b>	function	<b>gettok</b>	function
<b>get_macro</b>	function	<b>gettolerant</b>	function
<b>get_meaning</b>	function	<b>gobble</b>	function
<b>get_noaligned</b>	function	<b>gobble_dimension</b>	function
<b>get_parameters</b>	function	<b>gobble_integer</b>	function
<b>get_permanent</b>	function	<b>gobbledimension</b>	function
<b>get_primitive</b>	function	<b>gobbleinteger</b>	function
<b>get_protected</b>	function	<b>grab</b>	function
<b>get_range</b>	function	<b>grabstring</b>	function
<b>get_tok</b>	function	<b>inhibit</b>	function
<b>get_tolerant</b>	function	<b>is_defined</b>	function
<b>getactive</b>	function	<b>is_next_char</b>	function
<b>getcmdchrscs</b>	function	<b>is_token</b>	function
<b>getcmdname</b>	function	<b>isactivestring</b>	function
<b>getcommand</b>	function	<b>isdefined</b>	function
<b>getcommandvalues</b>	function	<b>isnextchar</b>	function
<b>getconstant</b>	function	<b>istoken</b>	function
<b>getcsname</b>	function	<b>locatemacro</b>	function
<b>getcstoken</b>	function	<b>new</b>	function
<b>getdimension</b>	function	<b>peek_next</b>	function

<code>peek_next_char</code>	function	<code>scan_tokenlist</code>	function
<code>peek_next_expanded</code>	function	<code>scan_toks</code>	function
<code>peeknext</code>	function	<code>scan_value</code>	function
<code>peeknextchar</code>	function	<code>scan_word</code>	function
<code>peeknextexpanded</code>	function	<code>scanargument</code>	function
<code>pop_macro</code>	function	<code>scanbox</code>	function
<code>popmacro</code>	function	<code>scancardinal</code>	function
<code>push_macro</code>	function	<code>scanchar</code>	function
<code>pushmacro</code>	function	<code>scancmdchr</code>	function
<code>put_back</code>	function	<code>scancmdchrexplanded</code>	function
<code>put_next</code>	function	<code>scancode</code>	function
<code>putback</code>	function	<code>scancsname</code>	function
<code>putnext</code>	function	<code>scancstoken</code>	function
<code>save_lua</code>	function	<code>scandelimited</code>	function
<code>savelua</code>	function	<code>scandetokened</code>	function
<code>scan_argument</code>	function	<code>scandimen</code>	function
<code>scan_box</code>	function	<code>scandimenargument</code>	function
<code>scan_cardinal</code>	function	<code>scandimension</code>	function
<code>scan_char</code>	function	<code>scandimensionargument</code>	function
<code>scan_cmdchr</code>	function	<code>scanfloat</code>	function
<code>scan_cmdchr_expanded</code>	function	<code>scanglue</code>	function
<code>scan_code</code>	function	<code>scanint</code>	function
<code>scan_csname</code>	function	<code>scaninteger</code>	function
<code>scan_delimited</code>	function	<code>scanintegerargument</code>	function
<code>scan_dimen</code>	function	<code>scankey</code>	function
<code>scan_float</code>	function	<code>scankeyword</code>	function
<code>scan_glue</code>	function	<code>scankeywordcs</code>	function
<code>scan_integer</code>	function	<code>scanletters</code>	function
<code>scan_key</code>	function	<code>scanluacardinal</code>	function
<code>scan_keyword</code>	function	<code>scanluainteger</code>	function
<code>scan_keyword_cs</code>	function	<code>scanluanumber</code>	function
<code>scan_letters</code>	function	<code>scannext</code>	function
<code>scan_luacardinal</code>	function	<code>scannextchar</code>	function
<code>scan_luainteger</code>	function	<code>scannextexpanded</code>	function
<code>scan_luanumber</code>	function	<code>scanposit</code>	function
<code>scan_next</code>	function	<code>scanreal</code>	function
<code>scan_next_char</code>	function	<code>scanscale</code>	function
<code>scan_next_expanded</code>	function	<code>scanskip</code>	function
<code>scan_real</code>	function	<code>scanstring</code>	function
<code>scan_scale</code>	function	<code>scantoken</code>	function
<code>scan_skip</code>	function	<code>scantokencode</code>	function
<code>scan_string</code>	function	<code>scantokenlist</code>	function
<code>scan_token</code>	function	<code>scantokenstring</code>	function
<code>scan_token_code</code>	function	<code>scantoks</code>	function

<b>scanvalue</b>	function	<b>setmacro</b>	function
<b>scanword</b>	function	<b>setmacrofrommark</b>	function
<b>serialize</b>	function	<b>setmacrotonothing</b>	function
<b>set_dimension</b>	function	<b>skip_next</b>	function
<b>set_integer</b>	function	<b>skip_next_expanded</b>	function
<b>set_lua</b>	function	<b>skipnext</b>	function
<b>set_macro</b>	function	<b>skipnextexpanded</b>	function
<b>setdimension</b>	function	<b>type</b>	function
<b>setinteger</b>	function	<b>undefine_macro</b>	function
<b>setlua</b>	function	<b>undefinemacro</b>	function

# tokens (context)

<b>accessors</b>	table	S todimen	
F active		S toglue	
F cmd		S tonumber	
F cmdchrsc		S tostring	
F cmdname		<b>create</b>	function
F command		<b>defined</b>	function
F csname		<b>flags</b>	function
F expandable		<b>getinteger</b>	function
F frozen		<b>getters</b>	table
F index		F box	
F name		F count	
F protected		F cstoken	
F range		F dimen	
<b>astable</b>	function	F glue	
<b>bits</b>	table	F macro	
N active		F meaning	
N alignment		F skip	
N begingroup		F token	
N character		<b>gobble</b>	function
N cclose		<b>isactivestring</b>	function
N comment		<b>isdefined</b>	function
N endgroup		<b>istoken</b>	function
N endofline		<b>new</b>	function
N escape		<b>pickup</b>	function
N ignore		<b>popmacro</b>	function
N invalid		<b>presets</b>	table
N letter		<b>pushmacro</b>	function
N mathshift		<b>scanners</b>	table
N open		F argument	
N other		F argumentasis	
N parameter		F array	
N space		F boolean	
N subscript		F box	
N superscript		F bracketed	
N whitespace		F bracketedasis	
<b>cache</b>	data table	F cardinal	
<b>commands</b>	data table	F char	
<b>compile</b>	function	F cmdchr	
<b>constant</b>	function	F cmdchrexplanded	
<b>converters</b>	table	F code	
S toboolean		F conditional	

F count	F tokencode	
F csname	F tokenlist	
F csnameunchecked	F tokens	
F delimited	F tokenstring	
F detokened	F toks	
F dimen	F value	
F dimension	F vbox	
F dimensionargument	F verbatim	
F float	F vtop	
F glue	F whd	
F gluespec	F word	
F gluevalues	<b>setinteger</b>	function
F hash	<b>setters</b>	table
F hbox	F box	
F integer	F char	
F integerargument	F count	
F ischar	F dimen	
F key	F glue	
F keyword	F lua	
F keywordcs	F macro	
F letters	F skip	
F list	<b>shortcuts</b>	table
F lua	N close	
F luacardinal	F inspect	
F luainteger	N open	
F luanumber	F report	
F lxmlid	F scanargument	
F next	F scanargumentasis	
F nextchar	F scanarray	
F nextexpanded	F scanboolean	
F number	F scanbox	
F optional	F scanbracketed	
F peek	F scanbracketedasis	
F peekchar	F scancardinal	
F peekexpanded	F scanclose	
F posit	F scancode	
F real	F scanconditional	
F scanclose	F scancsname	
F scanopen	F scancsnameunchecked	
F skip	F scandelimited	
F skipexpanded	F scandetokened	
F string	F scandimen	
F table	F scandimension	
F token	F scandimensionargument	

F scanfloat  
F scanglue  
F scangluespec  
F scangluevalues  
F scanhash  
F scanhbox  
F scaninteger  
F scanintegerargument  
F scankeyword  
F scankeywordcs  
F scanletters  
F scanlist  
F scanlua  
F scannumber  
F scanopen  
F scanoptional

F scanposit  
F scanstring  
F scantable  
F scantokenlist  
F scantokenstring  
F scantoks  
F scanvbox  
F scanverbatim  
F scanvtop  
F scanword  
F toboolean  
F todimen  
F tonumber  
F tostring

**values**

**data table**

## tracers (context)

**printerror** function

**printwarning** function

**showlines** function



## trackers (context)

<b>data</b>	data table	<b>register</b>	function
<b>default</b>	function	<b>report</b>	function
<b>disable</b>	function	<b>reset</b>	function
<b>done</b>	table	<b>savehash</b>	function
<b>dumphashtofile</b>	function	<b>show</b>	function
<b>enable</b>	function	<b>value</b>	function
<b>list</b>	function	<b>values</b>	function
<b>name</b>	string		

# typesetters (context)

<b>alignments</b>	table		
F handler			F getglobal
F set			F getmethod
<b>breakpoints</b>	table		F handler
F define			F installhandler
F handler			F set
D mapping			F setcolor
F set			F tomode
F setreplacement			
<b>cases</b>	table	<b>firstlines</b>	table
F handler		F handler	
F register		F set	
F set		<b>fontkerns</b>	table
<b>characteralign</b>	table	F handler	
F handler		F set	
F resetcharacteralign		<b>injectors</b>	table
F setcharacteralign		F check	
<b>characters</b>	table	F mark	
F handler		F reset	
F replacensp		F set	
F replacenspaces		F show	
<b>checkers</b>	table	<b>italics</b>	table
F handler		F enablemath	
F reset		F enabletext	
F set		F handler	
<b>cleaners</b>	table	<b>kerns</b>	table
F handler		D factors	
F set		F handler	
<b>compare</b>	table	F keepligature	
F handler		D mapping	
F reset		F set	
F set		<b>localboxes</b>	table
F setpair		F handler	
F setup		<b>manipulators</b>	table
<b>corrections</b>	table	F apply	
F handler		F applyspecification	
<b>digits</b>	table	F splitspecification	
F handler		<b>margins</b>	table
F set		F finalhandler	
<b>directions</b>	table	F globalhandler	
F getfences		F localhandler	

F save		D mapping	
<b>marksuspects</b>	function	F reset	
<b>paragraphs</b>	table	F set	
F addanchortoline		F setup	
F addtoline		<b>stacking</b>	table
F calculatedelta		F getindex	
F checkline		F getselection	
F moveinline		F handler	
<b>periodkerns</b>	table	<b>swapping</b>	table
D factors		F handler	
F handler		<b>synchronize</b>	table
D mapping		F handler	
F set		<b>tighten</b>	table
<b>processors</b>	table	F handler	
F apply		<b>wrappers</b>	table
F register		<b>xtables</b>	table
F reset		F cleanup	
F split		F construct	
F startapply		F create	
F stopapply		F finish_row	
F stripped		F flush	
F toString		F initialize_construct	
<b>rubies</b>	table	F initialize_reflow_height	
F attach		F initialize_reflow_width	
F check		F next_row	
<b>showinvisibles</b>	function	F reflow_height	
<b>showsuspects</b>	function	F reflow_width	
<b>spacings</b>	table	F set_construct	
F define		F set_reflow_height	
F handler		F set_reflow_width	

## updaters (context)

**apply** function

**register** function

## url (context)

**addscheme** function  
**barepath** function  
**construct** function  
**decode** function  
**encode** function  
**escape** function  
**filename** function

**hashed** function  
**hascheme** function  
**query** function  
**split** function  
**toquery** function  
**unescape** function  
**unescapeget** function

## utf8 (basic lua)

**char** function  
**charpattern** string  
**codepoint** function

**codes** function  
**len** function  
**offset** function

# utilities (context)

## **debugger** table

- F disable
- F enable
- F savestats
- F showstats
- F showtraceback

## **files** table

- F close
- F getposition
- F getsize
- F look
- F open
- F read2dot14
- F readbyte
- F readbytes
- F readbytetable
- F readcardinal
- F readcardinal1
- F readcardinal1le
- F readcardinal2
- F readcardinal2le
- F readcardinal3
- F readcardinal3le
- F readcardinal4
- F readcardinal4le
- F readcardinaltable
- F readchar
- F readcline
- F readcstring
- F readfixed2
- F readfixed4
- F readinteger
- F readinteger1
- F readinteger1le
- F readinteger2
- F readinteger2le
- F readinteger3
- F readinteger3le
- F readinteger4
- F readinteger4le
- F readintegertable

- F readsignedbyte
- F readstring
- F readtag
- F setposition
- F size
- F skip
- F skiplong
- F skipposition
- F skipshort
- F writebyte
- F writecardinal1
- F writecardinal1le
- F writecardinal2
- F writecardinal2le
- F writecardinal3
- F writecardinal3le
- F writecardinal4
- F writecardinal4le
- F writeinteger1
- F writeinteger1le
- F writeinteger2
- F writeinteger2le
- F writeinteger3
- F writeinteger3le
- F writeinteger4
- F writeinteger4le
- F writestring

## **formatters** table

- F formatcolumns
- F list
- F stripzeros

## **ghostscript** table

- F convert
- F statistics

## **graphicmagick** table

- F convert
- F statistics

## **graphicsmagick** table

- F convert
- F statistics

## **json** table

F load  
 F tojson  
 F tolua  
 F tostring  
**lua** table  
 B alwaysstripcode  
 F checkmemory  
 F compile  
 F loadedluacode  
 F loadstring  
 F loadstripped  
 N nofstrippedbytes  
 N nofstrippedchunks  
 F registerfinalizer  
 B stripcode  
 F strippedloadstring  
**packers** table  
 F hashed  
 F new  
 F pack  
 F simplehashed  
 F strip  
 F unpack  
 N version  
**parsers** table  
 F add\_settings\_to\_array  
 F arguments\_to\_table  
 F array\_to\_string  
 F csvsplitter  
 F getparameters  
 F groupdsplitat  
 F hash\_to\_string  
 F iterator  
 F keq\_to\_hash  
 F listitem  
 F make\_settings\_to\_hash\_pattern  
 F mergehashes  
 F options\_to\_array  
 F options\_to\_hash  
 F process\_stripped\_settings  
 F rfc4180splitter  
 F runtime  
 F settings\_to\_array  
 F settings\_to\_array\_obey\_fences

F settings\_to\_array\_with\_repeat  
 F settings\_to\_hash  
 F settings\_to\_hash\_colon\_too  
 F settings\_to\_hash\_strict  
 F settings\_to\_hash\_tolerant  
 F settings\_to\_numbers  
 F settings\_to\_set  
 F simple\_hash\_to\_string  
 F splitmethod  
 F splitthousands  
 F stepper  
 F stripped\_settings\_to\_array  
 F totime  
 F unittotex  
 F unittoxml  
**randomizer** table  
 F get  
 F getnumber  
 F getrepeatable  
 F getrepeatableseed  
 F getseed  
 F newrepeatable  
 F popseed  
 F pushseed  
 F repeatable  
 F reuseseed  
 F setseed  
 F setseedi  
**randomizers** table  
 F poisson  
**sequencers** table  
 F appendaction  
 F appendgroup  
 F compile  
 F disableaction  
 F disablegroup  
 F enableaction  
 F enablegroup  
 D functions  
 F localize  
 F new  
 F nodeprocessor  
 F prependaction  
 F prependgroup



F removeaction		F read2dot14
F replaceaction		F readbyte
F setkind		F readbytes
F toString		F readbytetable
<b>setters</b>	<b>table</b>	F readcardinal
F disable		F readcardinal1
F enable		F readcardinal1le
F initialize		F readcardinal2
F list		F readcardinal2le
F new		F readcardinal3
F register		F readcardinal3le
F report		F readcardinal4
F reset		F readcardinal4le
F show		F readcardinaltable
<b>signals</b>	<b>table</b>	F readchar
S configuration		F readcline
F initialize		F readcstring
F loadstate		F readfixed2
F report		F readfixed4
F savestate		F readinteger
F serialclose		F readinteger1
F serialfast		F readinteger1le
F serialopen		F readinteger2
S serialprefix		F readinteger2le
F serialsend		F readinteger3
F serialwrite		F readinteger3le
N version		F readinteger4
<b>stacker</b>	<b>table</b>	F readinteger4le
F new		F readintegertable
<b>storage</b>	<b>table</b>	F readsignedbyte
F allocate		F readstring
F checked		F setposition
F mark		F size
F marked		F skip
F setinitializer		F skipbytes
F sparse		F skiplong
<b>streams</b>	<b>table</b>	F skipshort
F close		F tocardinal1
F getposition		F tocardinal1le
F getsize		F tocardinal2
F getstring		F tocardinal2le
F look		F tocardinal3
F open		F tocardinal3le
F openstring		F tocardinal4

F tocardinal4le

**strings** table

F collapse

F collapseCrLf

F newcollector

F newrepeater

F striplines

F tabtospace

**tables** table

F accesstable

F definedtable

F definetable

F encapsulate

F insertaftervalue

F insertbeforevalue

F migratetable

F removevalue

F replacevalue

**tar** table

F closearchive

F openarchive

**templates** table

F load

F replace

F replacer

F resolve

**zipfiles** table

F close

F found

F hash

F list

F open

F unzip

F unzipdir

F zipdir

# vector (context)

<b>add</b>	function	<b>homogenize</b>	function
<b>append</b>	function	<b>identity</b>	function
<b>average</b>	function	<b>inner</b>	function
<b>ceiling</b>	function	<b>insert</b>	function
<b>checkoverlap</b>	function	<b>inverse</b>	function
<b>collectoverlap</b>	function	<b>ismesh</b>	function
<b>concat</b>	function	<b>issingular</b>	function
<b>contour</b>	table	<b>isvector</b>	function
F average		<b>iszero</b>	function
F bounds		<b>mesh</b>	table
F checkoverlap		F get	
F collectoverlap		F getdimensions	
F getarea		F ismesh	
F getmesh		F new	
F makemesh		F set	
F overlapping		F tostring	
F show		F totable	
F sort		F type	
<b>copy</b>	function	<b>meshname</b>	function
<b>crossproduct</b>	function	<b>mul</b>	function
<b>delete</b>	function	<b>negate</b>	function
<b>determinant</b>	function	<b>new</b>	function
<b>div</b>	function	<b>normalize</b>	function
<b>equal</b>	function	<b>onecolumn</b>	function
<b>exchange</b>	function	<b>onerow</b>	function
<b>floor</b>	function	<b>product</b>	function
<b>get</b>	function	<b>remove</b>	function
<b>getdimensions</b>	function	<b>replace</b>	function
<b>getepsilon</b>	function	<b>round</b>	function
<b>getmesh</b>	function	<b>rowechelon</b>	function
<b>getrc</b>	function	<b>set</b>	function
<b>getrow</b>	function	<b>setepsilon</b>	function
<b>getstacking</b>	function	<b>setnext</b>	function
<b>gettype</b>	function	<b>setrc</b>	function
<b>helpers</b>	table	<b>setstacking</b>	function
F points		<b>slice</b>	function
F transform		<b>sort</b>	function
F xrotation		<b>sub</b>	function
F xyzscale		<b>swap</b>	function
F yrotation		<b>tostring</b>	function
F zrotation		<b>totable</b>	function

**transpose**      function  
**triangulate**    function

**truncate**      function  
**type**            function

## visualizers (context)

<b>escapepatterns</b>	data table	<b>signal</b>	string
<b>getspecification</b>	function	<b>signalpattern</b>	userdata
<b>getvisualizer</b>	function	<b>specifications</b>	data table
<b>load</b>	function	<b>visualize</b>	function
<b>makenested</b>	function	<b>visualizebuffer</b>	function
<b>makepattern</b>	function	<b>visualizefile</b>	function
<b>newgrammar</b>	function	<b>visualizestring</b>	function
<b>newhandler</b>	function	<b>write</b>	function
<b>parsedxml</b>	function	<b>writeargument</b>	function
<b>pattern</b>	function	<b>writedefault</b>	function
<b>register</b>	function	<b>writeemptyline</b>	function
<b>registerescapecommand</b>	function	<b>writenewline</b>	function
<b>registerescapepline</b>	function	<b>writespace</b>	function
<b>registerescapepattern</b>	function		

## xcomplex (extra lua)

<b>I</b>	function	<b>erf</b>	function
<b>__add</b>	function	<b>erfc</b>	function
<b>__div</b>	function	<b>erfcx</b>	function
<b>__eq</b>	function	<b>erfi</b>	function
<b>__mul</b>	function	<b>exp</b>	function
<b>__name</b>	string	<b>i</b>	function
<b>__pow</b>	function	<b>imag</b>	function
<b>__sub</b>	function	<b>log</b>	function
<b>__tostring</b>	function	<b>new</b>	function
<b>__unm</b>	function	<b>pow</b>	function
<b>abs</b>	function	<b>proj</b>	function
<b>acos</b>	function	<b>real</b>	function
<b>acosh</b>	function	<b>sin</b>	function
<b>arg</b>	function	<b>sinh</b>	function
<b>asin</b>	function	<b>sqrt</b>	function
<b>asinh</b>	function	<b>tan</b>	function
<b>atan</b>	function	<b>tanh</b>	function
<b>atanh</b>	function	<b>topair</b>	function
<b>conj</b>	function	<b>tostring</b>	function
<b>cos</b>	function	<b>totable</b>	function
<b>cosh</b>	function	<b>voigt</b>	function
<b>dawson</b>	function	<b>voigt_hwhm</b>	function

## xdecimal (extra lua)

<b>__add</b>	function	<b>bxor</b>	function
<b>__band</b>	function	<b>conj</b>	function
<b>__bor</b>	function	<b>copy</b>	function
<b>__bxor</b>	function	<b>exp</b>	function
<b>__div</b>	function	<b>getprecision</b>	function
<b>__eq</b>	function	<b>ln</b>	function
<b>__idiv</b>	function	<b>log</b>	function
<b>__le</b>	function	<b>max</b>	function
<b>__lt</b>	function	<b>min</b>	function
<b>__mod</b>	function	<b>minus</b>	function
<b>__mul</b>	function	<b>new</b>	function
<b>__name</b>	string	<b>plus</b>	function
<b>__pow</b>	function	<b>pow</b>	function
<b>__shl</b>	function	<b>rotate</b>	function
<b>__shr</b>	function	<b>setprecision</b>	function
<b>__sub</b>	function	<b>shift</b>	function
<b>__tostring</b>	function	<b>sqrt</b>	function
<b>__unm</b>	function	<b>toengstring</b>	function
<b>abs</b>	function	<b>tonumber</b>	function
<b>band</b>	function	<b>tostring</b>	function
<b>bor</b>	function	<b>trim</b>	function

## xmath (extra lua)

<b>acos</b>	function	<b>isnormal</b>	function
<b>acosh</b>	function	<b>j0</b>	function
<b>asin</b>	function	<b>j1</b>	function
<b>asinh</b>	function	<b>jn</b>	function
<b>atan</b>	function	<b>ldexp</b>	function
<b>atan2</b>	function	<b>lgamma</b>	function
<b>atanh</b>	function	<b>log</b>	function
<b>cbrt</b>	function	<b>log10</b>	function
<b>ceil</b>	function	<b>log1p</b>	function
<b>copysign</b>	function	<b>log2</b>	function
<b>cos</b>	function	<b>logb</b>	function
<b>cosh</b>	function	<b>modf</b>	function
<b>deg</b>	function	<b>nan</b>	number
<b>erf</b>	function	<b>nearbyint</b>	function
<b>erfc</b>	function	<b>nextafter</b>	function
<b>exp</b>	function	<b>pi</b>	number
<b>exp2</b>	function	<b>pow</b>	function
<b>expm1</b>	function	<b>rad</b>	function
<b>fabs</b>	function	<b>remainder</b>	function
<b>fdim</b>	function	<b>remquo</b>	function
<b>floor</b>	function	<b>round</b>	function
<b>fma</b>	function	<b>scalbn</b>	function
<b>fmax</b>	function	<b>sin</b>	function
<b>fmin</b>	function	<b>sinh</b>	function
<b>fmod</b>	function	<b>sqrt</b>	function
<b>frexp</b>	function	<b>tan</b>	function
<b>gamma</b>	function	<b>tanh</b>	function
<b>hypot</b>	function	<b>tgamma</b>	function
<b>inf</b>	number	<b>trunc</b>	function
<b>isfinite</b>	function	<b>y0</b>	function
<b>isinf</b>	function	<b>y1</b>	function
<b>isnan</b>	function	<b>yn</b>	function



# xml (context)

<b>addentitiesdoctype</b>	function	F family	
<b>addspecialcode</b>	function	F fontspecification	
<b>after</b>	function	F mappedstylevalue	
<b>all</b>	function	F padding	
<b>applylpath</b>	function	F size	
<b>applyselector</b>	function	F style	
<b>assign</b>	function	F stylevalue	
<b>attribute</b>	function	F todimension	
<b>badinclusions</b>	function	F variant	
<b>before</b>	function	F weight	
<b>body</b>	function		
<b>builtinentities</b>	table	<b>defaulthandlers</b>	table
B amp		D file	
B apos		D parsedxml	
B gt		D string	
B lt		D tex	
B quot		D texline	
<b>CDATA</b>	function	D texspace	
		D verbose	
<b>CDATAtoText</b>	function	<b>defaultprotocol</b>	string
<b>checkBOM</b>	function	<b>delete</b>	function
<b>checkedEmpty</b>	function	<b>delete_element</b>	function
<b>checkError</b>	function	<b>despecialized</b>	function
<b>checkNamespace</b>	function	<b>each</b>	function
<b>checkNS</b>	function	<b>each_element</b>	function
<b>cleansed</b>	function	<b>elements</b>	function
<b>collect</b>	function	<b>elementtoCDATA</b>	function
<b>collect_elements</b>	function	<b>empty</b>	function
<b>collect_tags</b>	function	<b>entities</b>	data table
<b>collect_texts</b>	function	<b>erase</b>	function
<b>collected</b>	function	<b>errorhandler</b>	function
<b>collectTexts</b>	function	<b>escaped</b>	function
<b>compactElement</b>	function	<b>expand</b>	function
<b>content</b>	function	<b>expressions</b>	table
<b>convert</b>	function	F attribute	
<b>copy</b>	function	F boolean	
<b>count</b>	function	F child	
<b>cprint</b>	function	F contains	
<b>CSS</b>	table	F count	
F applyselector		F error	
F colorSpecification		F find	
F dimension		F hasclass	

F idstring		<b>insertcomment</b>	function
F lower		<b>inspect</b>	function
F name		<b>is_valid</b>	function
F number		<b>kind</b>	function
F oneof		<b>last</b>	function
F print		<b>lastmatch</b>	function
F quit		<b>load</b>	function
F tag		<b>lpath</b>	function
F text		<b>lpathcached</b>	function
F undefined		<b>lpathcalls</b>	function
F upper		<b>lshow</b>	function
<b>fillin</b>	function	<b>makestandalone</b>	function
<b>filter</b>	function	<b>match</b>	function
<b>finalizers</b>	table	<b>mml</b>	table
F paragraphs		F stripped	
<b>first</b>	function	F verbose	
<b>found</b>	function	<b>name</b>	function
<b>functions</b>	table	<b>newhandlers</b>	function
F classes		<b>nodesettostring</b>	function
F hasclass		<b>originalload</b>	function
<b>getbuffer</b>	function	<b>package</b>	function
<b>gethandlers</b>	function	<b>parent</b>	function
<b>gethandlersfunction</b>	function	<b>parsedentitylpeg</b>	userdata
<b>helpers</b>	table	<b>pihandlers</b>	table
F recursetext		F injector	
<b>include</b>	function	F tex	
<b>inclusion</b>	function	<b>placeholders</b>	table
<b>inclusions</b>	function	F unknown_any_entity	
<b>index</b>	function	F unknown_dec_entity	
<b>inheritattributes</b>	function	F unknown_hex_entity	
<b>inheritedconvert</b>	function	<b>popmatch</b>	function
<b>inject</b>	function	<b>position</b>	function
<b>inject_element</b>	function	<b>privatecodes</b>	data table
<b>inject_element_after</b>	function	<b>privatetoken</b>	function
<b>inject_element_before</b>	function	<b>process</b>	function
<b>injectafter</b>	function	<b>process_attributes</b>	function
<b>injectbefore</b>	function	<b>process_elements</b>	function
<b>insert</b>	function	<b>processattributes</b>	function
<b>insert_element</b>	function	<b>profiled</b>	table
<b>insert_element_after</b>	function	<b>pure</b>	function
<b>insert_element_before</b>	function	<b>pushmatch</b>	function
<b>insertafter</b>	function	<b>raw</b>	function
<b>insertbefore</b>	function	<b>registerentity</b>	function
<b>insertcdata</b>	function	<b>registerns</b>	function

<b>reindex</b>	function	<b>specialhandler</b>	table
<b>remap_name</b>	function	<b>sprint</b>	function
<b>remap_namespace</b>	function	<b>string</b>	function
<b>remap_tag</b>	function	<b>strip</b>	function
<b>remapname</b>	function	<b>strip_whitespace</b>	function
<b>remapnamespace</b>	function	<b>stripelement</b>	function
<b>remaptag</b>	function	<b>stripleadingspaces</b>	function
<b>rename</b>	function	<b>table</b>	function
<b>renamespace</b>	function	<b>text</b>	function
<b>reparsedentitylpeg</b>	userdata	<b>textonly</b>	function
<b>replace</b>	function	<b>texttocdata</b>	function
<b>replace_element</b>	function	<b>tocdata</b>	function
<b>resetinjectors</b>	function	<b>toelement</b>	function
<b>resolvens</b>	function	<b>tostring</b>	function
<b>root</b>	function	<b>totable</b>	function
<b>save</b>	function	<b>toxml</b>	function
<b>selection</b>	function	<b>tprint</b>	function
<b>separate</b>	function	<b>traverse</b>	function
<b>serialize</b>	function	<b>unescaped</b>	function
<b>serializetotext</b>	function	<b>unescapedentitylpeg</b>	userdata
<b>setcdata</b>	function	<b>unprivatized</b>	function
<b>setcomment</b>	function	<b>unspecialized</b>	function
<b>sethandlersfunction</b>	function	<b>wipe</b>	function
<b>setinjectors</b>	function	<b>withelement</b>	function
<b>setproperty</b>	function	<b>withelements</b>	function
<b>settings</b>	function	<b>wrap</b>	function
<b>specialcodes</b>	data table	<b>xmlns</b>	table

## xzip (extra lua)

**adler32**           function  
**compress**        function  
**compresssize**   function

**crc32**            function  
**decompress**      function  
**decompresssize** function

## zip (context)

**archives**

table

**closearchive**

function

**openarchive**

function

**registeredfiles**

table

## zlib (context)

**adler32**           function  
**compress**         function  
**compresssize**    function

**crc32**            function  
**decompress**      function  
**decompresssize** function