

MP attributes backends **bit32** blobs boolean  
buffers builders caches **callback** callbacks  
catcodes characters chemistry commands  
containers context converters **coroutine**  
ctxrunner **debug** dir directives document  
documentdata drivers environment experiments  
ffi figures **file** **fio** floats **font** fonts  
functions global graphics **gzip** images **img**  
interactions interfaces **io** job **lang** languages  
layouts **lfs** libraries lmx logs lpdf **lpeg** ltn12  
**lua** luatex lxml **math** mathematics **md5** metapost  
**mime** moduledata modules mp **mplib** noads **node**  
nodes number objects **os** **package** pagebuilders  
parametersets **pdf** **pdfe** pdfscanner physics  
publications regimes resolvers sandbox scripts  
set **sha2** **sio** **socket** sorters statistics **status**  
storage streams **string** structures **table** **tex**  
texconditionals **texconfig** texconstants texifs  
**texio** texitdefined texmodes texsystemmodes  
thirddata **token** tokens tracers trackers  
typesetters updaters url userdata **utf8**  
utilities vf visualizers xml **xzip** **zip** **zlib**

# ConT<sub>E</sub>Xt MkIV

# global (alias: \_G)

<b>CONTEXTLMTXMODE</b>	number	<b>documentdata</b>	table
<b>FFISUPPORTED</b>	function	<b>dofile</b>	function
<b>INITEXMODE</b>	boolean	<b>drivers</b>	table
<b>LUAMAJORVERSION</b>	number	<b>environment</b>	table
<b>LUAMINORVERSION</b>	number	<b>error</b>	function
<b>LUATEXCOREVERSION</b>	number	<b>experiments</b>	table
<b>LUATEXENGINE</b>	string	<b>ffi</b>	table
<b>LUATEXFORMATID</b>	number	<b>figures</b>	table
<b>LUATEXFUNCTIONALITY</b>	number	<b>file</b>	table
<b>LUATEXVERSION</b>	number	<b>fio</b>	table
<b>LUAVERSION</b>	number	<b>floats</b>	table
<b>MP</b>	function	<b>font</b>	table
<b>arg</b>	table	<b>fonts</b>	table
<b>assert</b>	function	<b>functions</b>	table
<b>attributes</b>	table	<b>getmetatable</b>	function
<b>backends</b>	table	<b>getrpos</b>	function
<b>bit32</b>	table	<b>global</b>	table
<b>blobs</b>	table	<b>graphics</b>	table
<b>blockrequire</b>	function	<b>gregorian_to_jalali</b>	function
<b>boolean</b>	table	<b>gzip</b>	table
<b>buffers</b>	table	<b>images</b>	table
<b>builders</b>	table	<b>img</b>	table
<b>caches</b>	table	<b>inspect</b>	function
<b>callback</b>	table	<b>interactions</b>	table
<b>callbacks</b>	table	<b>interfaces</b>	table
<b>catcodes</b>	table	<b>io</b>	table
<b>characters</b>	table	<b>ipairs</b>	function
<b>checkimage</b>	function	<b>jalali_to_gregorian</b>	function
<b>chemistry</b>	table	<b>job</b>	table
<b>collectgarbage</b>	function	<b>lang</b>	table
<b>commands</b>	table	<b>languages</b>	table
<b>containers</b>	table	<b>layouts</b>	table
<b>context</b>	function	<b>lfs</b>	table
<b>converters</b>	table	<b>libraries</b>	table
<b>coroutine</b>	table	<b>lmx</b>	table
<b>ctxrunner</b>	table	<b>load</b>	function
<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>directives</b>	table	<b>lpdf</b>	table
<b>document</b>	table	<b>lpeg</b>	table

ltn12	table	scripts	table
lua	table	select	function
luatex	table	set	table
lxml	table	setinspector	function
math	table	setmetatable	function
mathematics	table	sha2	table
md5	table	sio	table
metapost	table	socket	table
mime	table	sorters	table
module	function	statistics	table
moduledata	table	status	table
modules	table	storage	table
mp	function	streams	table
mplib	table	string	table
next	function	structures	table
noads	table	table	table
node	table	tex	table
nodes	table	texconditionals	data table
number	table	texconfig	table
objects	table	texconstants	data table
optionalrequire	function	texifs	data table
os	table	texio	table
package	table	texisdefined	data table
pagebuilders	table	texmodes	data table
pairs	function	texsystemmodes	data table
parametersets	table	thirddata	table
pcall	function	toboollean	function
pdf	table	todecimal	function
pdfe	table	token	table
pdfscanner	table	tokens	table
physics	table	tonumber	function
print	function	tostring	function
publications	table	tracers	table
rawequal	function	trackers	table
rawget	function	type	function
rawlen	function	typesetters	table
rawset	function	unpack	function
readarray	function	updaters	table
regimes	table	url	table
require	function	userdata	table
required	function	utf	table
resolvers	table	utf8	table
ruledspace	function	utilities	table
sandbox	table	v	string

<b>vf</b>	table	xzip	table
<b>visualizers</b>	table	zip	table
xml	table	zlib	table
<b>xpcall</b>	function		

# attributes (context)

<b>applyoverloads</b>	function	F inbetween
<b>cleanup</b>	function	F justone
<b>colorintents</b>	table	F hsvtorgay
N attribute		F hsvtorgb
D data		F hwbtorgb
F enable		F iccprofile
F handler		F isblack
F register		N main
D registered		S model
<b>colors</b>	table	D models
N attribute		F mpcolor
F cmyk		F mpnamedcolor
F cmyktorgay		F mpoptions
F cmyktorgb		F namedcolorattributes
F colorcomponents		N none
D counts		F popset
B couple		F processcolorcomponents
F currentmodel		F pushset
F currentnamedmodel		F register
D data		D registered
N default		F registerspotcolor
F defineintermediatecolor		F rgb
F definemultitonecolor		F rgbtocmyk
F defineprocesscolor		F rgbtorgay
F defineprocesscolordirect		F rgbtohsv
F definesimplegray		N selector
F definespotcolor		F setlist
F definetransparency		F setmodel
F enable		F setpagecolormodel
F filter		D sets
N forced		F spec
F forcedmodel		F spot
F forcesupport		F spotcolorname
F formatcolor		F spotcolorparent
F formatgray		F spotcolorvalue
F getpagecolormodel		B supported
F gray		F toattributes
F graytohsv		F transparencycomponents
F handler		B triggering
T helpers		F usecolors
F complement		D valid

F value		N attribute	
D values		D data	
B weightgray		F enable	
<b>define</b>	function	F forcesupport	
<b>effects</b>	table	F handler	
N attribute		T names	
D data		N color	
F enable		N colorburn	
F handler		N colordodge	
F register		N darken	
D registered		N difference	
D values		N exclusion	
<b>handlers</b>	table	N hardlight	
<b>list</b>	data table	N hue	
<b>markasoverload</b>	function	N lighten	
<b>names</b>	data table	N luminosity	
<b>negatives</b>	table	N multiply	
N attribute		N none	
D data		N normal	
F enable		N overlay	
F handler		N saturation	
F register		N screen	
D registered		N softlight	
F set		N none	
<b>numbers</b>	data table	F register	
<b>ofnode</b>	function	D registered	
<b>private</b>	function	B supported	
<b>public</b>	function	F toattribute	
<b>registercleaner</b>	function	B triggering	
<b>restore</b>	function	F value	
<b>save</b>	function	D values	
<b>showcurrent</b>	function	<b>unsetvalue</b>	number
<b>states</b>	table	<b>viewerlayers</b>	table
F disabletriggering		N attribute	
F enabletriggering		F cleanup	
F finalize		D data	
F initialize		F define	
F process		F definedlayoutcomponent	
F selective		F enable	
F stacked		F forcesupport	
F stacker		F handler	
<b>system</b>	function	B hasorder	
<b>tooverloads</b>	function	D listwise	
<b>transparencies</b>	table	F register	

D registered	F setfeatures
F resolve_begin	F start
F resolve_end	F stop
F resolve_reset	B supported
F resolve_step	D values
D scopes	

# backends (context)

## **codeinjections** table

F boxresourcedimensions  
F registerboxresource  
F restoreboxresource

## **current** string

## **defaults** table

T codeinjections  
F getpagedimensions  
F getpageorigin  
F lmtxmode  
F setpagedimensions  
F setpageorigin

T nodeinjections

T registrations

D tables

## **included** table

B context  
B date  
B id  
B metadata  
B pdf

## **install** function

## **nodeinjections** table

## **noflatelua** function

## **nothing** function

## **pdf** table

T codeinjections  
F addbookmarks  
F analyzenormalsymbol  
F analyzesymbol  
F attachmentid  
F clonefield  
F copyimage  
F definefield  
F definefieldset  
F defineviewerlayer  
F embedfile  
F embedimage  
F enabletags  
F exportformdata  
F fieldsurrounding

F flushmergelayer  
F getbookmarks  
F getdefaultfieldvalue  
F getfieldcategory  
F getfieldset  
F getformatoption  
F getidentityvariable  
F getinfo  
F getpreviewfigure  
F insertrenderingwindow  
F maptag  
F mergebookmarks  
F mergecomments  
F mergefields  
F mergereferences  
F mergeviewerlayers  
F newimage  
F prerollreference  
F presetsymbol  
F presetsymbollist  
F processrendering  
F registerdocumentcloseaction  
F registerdocumentopenaction  
F registeredsymbol  
F registerpagecloseaction  
F registerpageopenaction  
F registersymbol  
F scanimage  
F setattachmentsupport  
F setfieldcalculationset  
F setfigurealternative  
F setfigurecolorspace  
F setfiguremask  
F setformat  
F setformsmethod  
F setpagetransition  
F settaggingsupport  
F setupcanvas  
F setupidentity  
F setxmpfile  
F startlayer



F startunicodetoactualtext	F knockout
F startunicodetoactualtextdirect	F negative
F stoplayer	F overprint
F stopunicodetoactualtext	F positive
F stopunicodetoactualtextdirect	F reference
F supportedformats	F rgbcolor
F unicodetoactualtext	F spotcolor
F useviewerlayer	F startlayer
F validfield	F startstackedlayer
F validfieldcategory	F stoplayer
F validfieldset	F stopstackedlayer
F wrapimage	F transparency
S comment	F typesetfield
T nodeinjections	T registrations
F addtags	F cmykindexcolor
F annotation	F cmykspotcolor
F attachfile	F getspotcolorreference
F changestackedlayer	F grayindexcolor
F cmykcolor	F grayspotcolor
F comment	F rgbindexcolor
F destination	F rgbspotcolor
F effect	F spotcolorname
F graycolor	F transparency
F injectbitmap	T tables
F insertmovie	D vfspecials
F insertsound	<b>registrations</b> table
F insertswf	<b>tables</b> table
F insertu3d	<b>timestamp</b> function

## bit32 (basic lua)

**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)

<b>append</b>	function
<b>dimensions</b>	function
<b>dispose</b>	function
<b>new</b>	function
<b>pack</b>	function
<b>strdp</b>	function
<b>strhd</b>	function

<b>strht</b>	function
<b>strwd</b>	function
<b>tohpack</b>	function
<b>tonodes</b>	function
<b>tovpack</b>	function
<b>write</b>	function

## boolean (context)

**tocontext** function

**tonumber** function

# buffers (context)

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

# builders (context)

<b>checksidefloat</b>	function	F start	
<b>kernel</b>	table	F stop	
F hyphenating		F tag	
F hyphenation		<b>profiling</b>	table
F kerning		F add	
F ligaturing		F distance	
F mlist_to_hlist		F fixedprofile	
<b>paragraphs</b>	table	F get	
T constructors		F list	
N attribute		F pagehandler	
F define		F profilebox	
F disable		F set	
F enable		<b>vspacing</b>	table
F handler		F analyze	
T methods		D categories	
F basic		F collapsevbox	
F default		T data	
F hpack		D map	
F oneline		D skip	
D names		D snapmethods	
D numbers		F definesnapmethod	
F set		B fixed	
F start		F forcepageflush	
F stop		F forcestrutdepth	
T expansion		F getnofpreviouslines	
F trace		F pagehandler	
F kepttogether		F pageoverflow	
F registertogether		F popatsame	
T solutions		F pushatsame	
T splitters		F setmap	
F define		F setskip	
F optimize		F snapbox	
T registered		F synchronizepage	
F reset		F tocategories	
F set		F tocategory	
F split		F vboxhandler	

## cache (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)

**find**      function  
**list**      function

**register** overloaded function



# callbacks (context)

**freeze** function

**functions** table

F process\_rule

F start\_page\_number

F stop\_page\_number

**known** function

**list** data table

**pop** function

**push** function

**register** function

**report** function

**supported** table

B append\_to\_vlist\_filter

B build\_page\_insert

B buildpage\_filter

B call\_edit

B contribute\_filter

B define\_font

B find\_cidmap\_file

B find\_data\_file

B find\_enc\_file

B find\_font\_file

B find\_format\_file

B find\_image\_file

B find\_map\_file

B find\_opentype\_file

B find\_output\_file

B find\_pk\_file

B find\_read\_file

B find\_truetype\_file

B find\_type1\_file

B find\_vf\_file

B find\_write\_file

B finish\_pdfpage

B finish\_pdfpage

B finish\_synctex

B font\_descriptor\_objnum\_provider

B glyph\_info

B glyph\_not\_found

B glyph\_stream\_provider

B hpack\_filter

B hpack\_quality

B hyphenate

B insert\_local\_par

B kerning

B ligaturing

B linebreak\_filter

B make\_extensible

B mlist\_to\_hlist

B new\_graf

B open\_read\_file

B page\_order\_index

B post\_linebreak\_filter

B pre\_dump

B pre\_linebreak\_filter

B pre\_output\_filter

B process\_input\_buffer

B process\_jobname

B process\_output\_buffer

B process\_pdf\_image\_content

B process\_rule

B provide\_charproc\_data

B read\_cidmap\_file

B read\_data\_file

B read\_enc\_file

B read\_font\_file

B read\_map\_file

B read\_opentype\_file

B read\_pk\_file

B read\_truetype\_file

B read\_type1\_file

B read\_vf\_file

B show\_error\_hook

B show\_error\_message

B show\_lua\_error\_hook

B show\_warning\_message

B start\_file

B start\_page\_number

B start\_run

B stop\_file

B stop\_page\_number

B stop\_run

B vpack\_filter  
B vpack\_quality  
B wrapup\_run

## catcodes (context)

**names** data table

**numbers** data table

**register** function

# characters (context)

<b>activeoffset</b>	number	T anudatta	
<b>adobename</b>	function	T before_half	
<b>bidirectional</b>	data table	T before_main	
<b>blockrange</b>	function	T before_postscript	
<b>blocks</b>	data table	T before_subscript	
<b>casemap</b>	table	T below_mark	
<b>categories</b>	data table	T consonant	
<b>category</b>	function	T dependent_vowel	
<b>categorytags</b>	data table	T halant	
<b>classifiers</b>	table	T independent_vowel	
<b>collapsed</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_letter</b>	data table
F known		<b>is_mark</b>	data table
F resolve		<b>is_punctuation</b>	data table
<b>emojized</b>	function	<b>is_spacing</b>	data table
<b>encodes</b>	data table	<b>is_symbol</b>	data table
<b>entities</b>	data table	<b>lcchars</b>	data table
<b>fallbacks</b>	data table	<b>lccode</b>	function
<b>filters</b>	data table	<b>lccodes</b>	data table
<b>fractions</b>	table	<b>lettered</b>	function
<b>fromnumber</b>	function	<b>lhash</b>	data table
<b>fschars</b>	data table	<b>linebreaks</b>	data table
<b>fscodes</b>	data table	<b>lower</b>	function
<b>getrange</b>	function	<b>mathlists</b>	data table
<b>graphemes</b>	data table	<b>mirrors</b>	table
<b>hangul</b>	data table	<b>otfscripts</b>	data table
<b>indicgroups</b>	table	<b>private</b>	table
T above_mark		<b>ranges</b>	data table
T after_half		<b>registerentities</b>	function
T after_main		<b>remap_hangul_syllable</b>	function
T after_postscript		<b>setactivecatcodes</b>	function
T after_subscript		<b>setlettercatcodes</b>	function

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

## chemistry (context)

<b>component</b>	function	<b>method</b>	string
<b>define</b>	function	<b>molecule</b>	function
<b>definitions</b>	data table	<b>moleculeparser</b>	userdata
<b>format</b>	string	<b>start</b>	function
<b>inlinechemical</b>	function	<b>stop</b>	function
<b>instance</b>	string	<b>undefine</b>	function

## containers (context)

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

D data

F translate



**weekday**

function

**word**

function

**words**

function

## coroutine (basic lua)

<b>create</b>	function
<b>isyieldable</b>	function
<b>resume</b>	function
<b>running</b>	function

<b>status</b>	function
<b>wrap</b>	function
<b>yield</b>	function

# ctxrunner (context)

<b>load</b>	function	<b>prepfiles</b>	data table
<b>preparedfile</b>	function	<b>resolve</b>	function

## dir (context)

<b>collectpattern</b>	function
<b>current</b>	function
<b>expandname</b>	function
<b>found</b>	function
<b>glob</b>	function
<b>globdirs</b>	function
<b>globfiles</b>	function

<b>globpattern</b>	function
<b>ls</b>	function
<b>makedirs</b>	function
<b>mkdirs</b>	function
<b>pop</b>	function
<b>push</b>	function

## directives (context)

<b>data</b>	data table
<b>default</b>	function
<b>disable</b>	function
<b>done</b>	table
<b>enable</b>	function
<b>list</b>	function

<b>name</b>	string
<b>register</b>	function
<b>report</b>	function
<b>reset</b>	function
<b>show</b>	function
<b>value</b>	function

# document (context)

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

# documentdata (context)

**variable** function

# drivers (context)

<b>convert</b>	function	F prepare	
<b>converters</b>	table	T flushers	
F engine		S name	
<b>enable</b>	function	T none	
<b>helpers</b>	table	T actions	
F tomatrix		T flushers	
<b>install</b>	function	S name	
<b>instances</b>	table	T pdf	
T default		T actions	
T actions		F convert	
F convert		F outputfilename	
F outputfilename		F prepare	
T flushers		T flushers	
S name		S name	
T empty		<b>lmtxversion</b>	number
T actions		<b>outputfilename</b>	function
F convert		<b>report</b>	function



## environment (context)

<b>argument</b>	function	<b>loadluafile</b>	function
<b>arguments</b>	data table	<b>luafile</b>	function
<b>basicengines</b>	data table	<b>luafilechunk</b>	function
<b>currentrun</b>	number	<b>luatexengine</b>	string
<b>default_texmfcnf</b>	string	<b>luatexfunctionality</b>	number
<b>definefilefallback</b>	function	<b>luatexversion</b>	number
<b>definefilesynonym</b>	function	<b>maxnofruns</b>	number
<b>engineflags</b>	data table	<b>originalarguments</b>	data table
<b>filename</b>	string	<b>outputfilename</b>	string
<b>filenames</b>	table	<b>ownbin</b>	string
<b>files</b>	table	<b>ownmain</b>	string
<b>filesynonyms</b>	data table	<b>ownname</b>	string
<b>forcedruns</b>	number	<b>ownpath</b>	string
<b>getargument</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>jobname</b>	string	<b>uselua module</b>	function
<b>kindofrun</b>	number	<b>usemodules</b>	function
<b>lmtxmode</b>	number	<b>validengines</b>	data table
<b>loadexamodes</b>	function	<b>version</b>	string

## experiments (context)

<b>data</b>	data table
<b>default</b>	function
<b>disable</b>	function
<b>enable</b>	function
<b>list</b>	function
<b>name</b>	string

<b>register</b>	function
<b>report</b>	function
<b>reset</b>	function
<b>show</b>	function
<b>value</b>	function

# figures (context)

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

**setorder**  
**setpaths**

function  
function

**suffixes**  
**used**

data table  
data table

## file (basic lua)

<b>addsuffix</b>	function
<b>basename</b>	function
<b>checksum</b>	function
<b>collapsepath</b>	function
<b>copy</b>	function
<b>dirname</b>	function
<b>expandname</b>	function
<b>extname</b>	function
<b>is_qualified_path</b>	function
<b>is_readable</b>	function
<b>is_rootbased_path</b>	function
<b>is_writable</b>	function
<b>isreadable</b>	function
<b>iswritable</b>	function
<b>join</b>	function
<b>joinpath</b>	function
<b>loadchecksum</b>	function
<b>nameonly</b>	function
<b>nametotable</b>	function
<b>needs Updating</b>	function

<b>needsupdating</b>	function
<b>pathpart</b>	function
<b>readdata</b>	function
<b>removesuffix</b>	function
<b>replacesuffix</b>	function
<b>reslash</b>	function
<b>robustname</b>	function
<b>savechecksum</b>	function
<b>savedata</b>	function
<b>size</b>	function
<b>splitbase</b>	function
<b>splitname</b>	function
<b>splitpath</b>	function
<b>strip</b>	function
<b>suffix</b>	function
<b>suffixes</b>	function
<b>suffixesonly</b>	function
<b>suffixonly</b>	function
<b>syncmtimes</b>	function
<b>withinbase</b>	function

## fio (extra lua)

<b>getposition</b>	function
<b>read2dot14</b>	function
<b>readbytes</b>	function
<b>readbytetable</b>	function
<b>readcardinal1</b>	function
<b>readcardinal2</b>	function
<b>readcardinal3</b>	function
<b>readcardinal4</b>	function
<b>readcardinaltable</b>	function
<b>readfixed2</b>	function

<b>readfixed4</b>	function
<b>readinteger1</b>	function
<b>readinteger2</b>	function
<b>readinteger3</b>	function
<b>readinteger4</b>	function
<b>readintegertable</b>	function
<b>readline</b>	function
<b>setposition</b>	function
<b>skipposition</b>	function

# floats (context)

<b>analysemethod</b>	function	<b>nofstacked</b>	function
<b>checkedpagefloat</b>	function	<b>pop</b>	function
<b>collect</b>	function	<b>push</b>	function
<b>consult</b>	function	<b>resave</b>	function
<b>flush</b>	function	<b>save</b>	function
<b>getvariable</b>	function	<b>stacked</b>	function
<b>hasstacked</b>	function		

## font (basic tex)

<b>addcharacters</b>	function	<b>id</b>	function
<b>current</b>	function	<b>max</b>	function
<b>define</b>	function	<b>nextid</b>	function
<b>each</b>	overloaded function	<b>originaleach</b>	function
<b>fonts</b>	table	<b>read_tfm</b>	function
<b>frozen</b>	function	<b>read_vf</b>	function
<b>getcopy</b>	function	<b>setexpansion</b>	function
<b>getfont</b>	overloaded function	<b>setfont</b>	function
<b>getparameters</b>	function		



# fonts (context)

## analyzers table

- D features
- D initializers
- D methods
- F setstate
- D states
- B useunicodemarks

## checkers table

- F getmissing
- F missing
- F placeholder

## cid table

- F getmap
- F loadfile

## collections table

- F checkenabled
- F clonevector
- F define
- T definitions
- F found
- F prepare
- F process
- F registermain
- F report
- F reset
- T vectors

## constructors table

- F addcharacters
- F addcoreunicodes
- B addtounicode
- F aftercopyingcharacters
- F applymanipulators
- F assignmathparameters
- B autocleanup
- F beforecopyingcharacters
- D cache
- B cacheintex
- F calculatescale
- F checkedfeatures
- F checkedfilename
- F cleanupable

- F collectprocessors
- F currentfonthasfeature
- D designsizes
- D dontembed
- F enhanceparameters
- T enhancers
- T afm
  - F apply
  - F patch
- T patches
  - F register
  - F report
- F register
- F report
- T otf
  - F addfeature
  - F apply
  - F enhance
  - F patch
- T patches
  - F register
  - F report
- F register
- F report
- T tfm
  - F apply
  - F patch
- T patches
  - F register
  - F report
- F register
- F report
- N factor
- T features
  - D afm
  - D otf
  - D tfm
- F finalize
- B fixprotrusion
- F getfeatureaction
- F getmathparameter

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

F topdf	F ligature
D pngcache	F multiple
B pngenabled	F reversechainedcontextsingle
T readers	F single
F addunicodetable	F gvar
F avar	F head
F cbdt	T helpers
F cblc	F axistofactors
F cff	F cleanname
F cff2	F getaxissscale
F cffcheck	F getfactors
T cffencoder	F getscales
F checkhash	F gotodatatable
F cmap	F normalizedaxis
F colr	T normalizedaxisishash
F compact	F readvariationdata
F cpal	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 registerextender
F marktoligature	F rehash
F marktomark	F sbix
F pair	F stat
F single	T streamreader
F gsub	F close
T gsubhandlers	F getposition
F alternate	F getsizes
F chainedcontext	F look
F context	F open
F extension	F read2dot14

F readbyte	F vhea
F readbytes	F vmtx
F readbytetable	F vorg
F readcardinal	F vvar
F readcardinal1	F woff2otf
F readcardinal2	F registerpalette
F readcardinal2le	F registerplugin
F readcardinal3	F reorderlookups
F readcardinal3le	F scriptandlanguage
F readcardinal4	F setdynamics
F readcardinal4le	F setfeatures
F readcardinaltable	T statistics
F readchar	D usedfeatures
F readfixed2	F storepdfdata
F readfixed4	T svg
F readinteger	F filterglyph
F readinteger1	F topdf
F readinteger2	D svgcache
F readinteger2le	B svgenabled
F readinteger3	T tables
F readinteger3le	D baselines
F readinteger4	D features
F readinteger4le	D featuretypes
F readintegertable	D languages
F readsignedbyte	D scripts
F readstring	N version
F readtag	T pfb
F setposition	F loadvector
F size	T tfm
F skip	D cache
F skiplong	D features
F skipposition	N maxnestingdepth
F skipshort	N maxnestingsize
F writebyte	T readers
F writecardinal2	F loadpk
F writecardinal2le	F loadtfm
F writecardinal4	F loadtfmvf
F writecardinal4le	F loadvf
F writestring	F pktopdf
F stripredundant	F showpk
F svg	F reencode
N tableversion	F setfeatures
F unifymissing	N version
F unpack	T vf

T combinations	S stretch
F combine	S width
T combiner	S units
D commands	S vfactor
D helpers	S width
D math	S xheight
D predefined	T properties
N version	S autoitalicamount
D whatever	S cidinfo
F hashfeatures	T effect
F hashinstance	S ddelta
T hashmethods	S effect
F normal	S factor
F virtual	S hdelta
F initializefeatures	S hfactor
T keys	S vfactor
T characters	S wdelta
T descriptions	S width
T parameters	S embedding
S ascender	S encodingbytes
S descender	S filename
S designsize	S finalized
T expansion	S fontname
S auto	S format
S shrink	S fullname
S step	S hasitalics
S stretch	S hasmath
S extendfactor	S mathitalics
S factor	S mode
S hfactor	S name
S mathsize	S nostackmath
S mode	S psname
T protrusion	S textitalics
S auto	S virtualized
S quad	D loadedfonts
S scaledpoints	S namemode
S scriptpercentage	N noffontsloaded
S scriptscriptpercentage	N nofsharedfonts
S size	N nofsharedhashes
S slantfactor	N nofsharedvectors
S slantperpoint	N privateoffset
T spacing	D privateslots
S extra	F readanddefine
S shrink	F registerfeature

- F resetfeature
- B resolvevirtualtoo
- F scale
- F scaled
- F setfactor
- F setfeature
- F setmathparameter
- F setname
- B sharefonts
- F trytosharefont
- N version

**current** function

**currentid** function

**definers** table

- F addlookup
- F analyze
- F applypostprocessors
- F checkedmode
- F checkedscript
- 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 registersplit
- F resetnullfont
- F resolve
- T resolvers
  - F file
  - F name
  - F spec

**definetypeface** function

**encodings** table

- T agl
  - D ctxcodes
  - D extras
  - D names

- 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 dejavu-math
    - S author
    - S comment
    - S copyright
  - B initialized
  - T mathematics
    - T alternates
      - T dotless
        - S comment
        - S feature
      - N value
    - T kerns
    - 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

**handlers**                      table

T typethree

F register

**hashes**                      table

D characters

D classes

D csnames

D descriptions

D dynamics

D emwidths

D exheights

D extensibles

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 variants

D xheights

## helpers                      table

F addextraprivate

F addprivate

F appendcommands

F appendcommandtable

F checkflags

F checkmerge

F checksteps

F collectanchors

D commands

F descriptiontoslot

F dimenfactor

F expandglyph

T extraprivates

F fontpatternhassize

F getcoloredglyphs

F getdigitwidth

F getinstancespec

F getparameters

F getprivatecharornode

F getprivatenode

F getprivates

F getprivateslot

F hasprivate

F indextoslot

F name

F nametoslot

F newprivateslot

F prependcommands

F prependcommandtable

F privateslot

F setdigitwidth

F splitfontpattern

F tochar

## infofont                      function

## iterators                      table

F characters

F descriptions

F glyphs

## loggers                      table

F add\_placeholders

D category\_to\_placeholder

F format

F onetimemessage

F register		F otf	
F reportdefinedfonts		F pfb	
F reportusedfeatures		D sequence	
<b>mappings</b>	table	F tfm	
F addtounicode		F ttc	
F fromunicode16		F ttf	
F loadfile		F woff	
F loadline		<b>reserveid</b>	function
F makenameparser		<b>select</b>	table
D overloads		D alternatives	
F reset		F bodyfont	
F tounicode		D data	
F tounicode16		F default	
F tounicode16sequence		D defaults	
<b>metapost</b>	table	F definefallbackfamily	
F boundingbox		F definefontfamily	
F boxtomp		F definefontfamilypreset	
F draw		D extras	
F fill		F fallback	
F maxbounds		D fallbacks	
F output		F features	
F paths		F filefallback	
F widthline		F fontdata	
F zeroline		F fontfallback	
<b>mp</b>	table	F fontsynonym	
D cache		F goodies	
B inline		F mathfallback	
N version		D methods	
<b>names</b>	data table	D presets	
<b>nulldata</b>	data table	F registerfallback	
<b>privateoffsets</b>	table	F registerfiles	
B keepnames		F registerfontalternative	
N mathbase		F registerfontfamily	
N mathextrabase		F textfallback	
N textbase		F typeface	
N textextrabase		F typescript	
<b>protrusions</b>	data table	F userdata	
<b>readers</b>	table	<b>specifiers</b>	table
F afm		D contextmerged	
F check_lua		F contextnumber	
F check_tfm		D contextnumbers	
F lua		D contextsetups	
F ofm		F contexttostring	
F opentype		F definecontext	



F mergecontext  
F presetcontext  
F registercontext  
F showcontext  
F splitcontext  
D synonyms  
D variants  
**symbols** table  
T emoji  
F checked  
F resolved  
F uselibrary  
**tables** table

D data  
F savefont  
F saveoriginal  
**tracers** table  
**treatments** table  
F applyfixes  
D data  
S filename  
F ignoredfile  
F report  
F trace  
**typefaces** table

# functions (context)

**dummy** function

# graphics (context)

**backgrounds** table

- F fetchmultipar
- F pair
- F path
- F point

**identifiers** table

F bitmap

F jp2

F jpg

F png

**identify** function

## gzip (extra lua)

<b>close</b>	function
<b>compress</b>	function
<b>compressed</b>	function
<b>decompress</b>	function
<b>lines</b>	function

<b>load</b>	function
<b>open</b>	function
<b>save</b>	function
<b>suffix</b>	function

# images (context)

<b>check</b>	function
<b>checksize</b>	function
<b>copy</b>	function
<b>create</b>	function
<b>embed</b>	function
<b>keys</b>	table
<b>print</b>	function
<b>scan</b>	function
<b>serialize</b>	function
<b>sizes</b>	table
B art	
B bleed	
B crop	
B media	

B none	
B trim	
<b>totable</b>	function
<b>types</b>	table
N jbig2	
N jp2	
N jpg	
N memstream	
N none	
N pdf	
N png	
N stream	
<b>wrap</b>	function

img (basic tex)

new overloaded function

# interactions (context)

**attachments** data table

**fields** table

- F clone
- F define
- F defineset
- F insert

**general** table

- F getidentity
- F setupidentity

**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**s data table

**pages** table

- F setpagetransition
- F setupcanvas

**references** table

- F setcloseddocument
- F setclosepage
- F setopendocument
- F setopenpage

**renderings** data table

**soundclips** data table

# interfaces (context)

<b>_</b>	data table	<b>F list</b>	
<b>addvalidkeys</b>	function	<b>registernamespace</b>	function
<b>cachedsetups</b>	data table	<b>registerscanner</b>	function
<b>cachedsetup</b>	function	<b>scanners</b>	data table
<b>checkedspecification</b>	function	<b>setconstant</b>	function
<b>complete</b>	data table	<b>setcount</b>	function
<b>constants</b>	data table	<b>setdimen</b>	function
<b>corenamespaces</b>	data table	<b>setelement</b>	function
<b>currentinterface</b>	string	<b>setformat</b>	function
<b>currentresponse</b>	string	<b>setmacro</b>	function
<b>definecommand</b>	function	<b>setmessage</b>	function
<b>defined</b>	function	<b>setmessages</b>	function
<b>doifelsemessage</b>	function	<b>settranslation</b>	function
<b>elements</b>	data table	<b>setupstrings</b>	data table
<b>formats</b>	data table	<b>setuserinterface</b>	function
<b>getcheckedparameters</b>	function	<b>setvalidkeys</b>	function
<b>getmessage</b>	function	<b>setvariable</b>	function
<b>getnamespace</b>	function	<b>showmessage</b>	function
<b>getsetupstring</b>	function	<b>storedscanners</b>	data table
<b>hashedsetups</b>	data table	<b>strings</b>	table
<b>implement</b>	function	<b>syntax</b>	data table
<b>interfacedcommand</b>	function	<b>tolist</b>	function
<b>interfaces</b>	table	<b>translations</b>	data table
<b>invalidkey</b>	function	<b>usednamespaces</b>	data table
<b>message</b>	function	<b>variables</b>	data table
<b>namespaces</b>	table	<b>writestatus</b>	function

F define



## io (basic lua)

<b>ask</b>	function	<b>output</b>	overloaded function
<b>bytes</b>	function	<b>pathseparator</b>	string
<b>characters</b>	function	<b>popen</b>	overloaded function
<b>close</b>	function	<b>read</b>	function
<b>copydata</b>	function	<b>readall</b>	function
<b>exists</b>	function	<b>readnumber</b>	function
<b>fileseparator</b>	string	<b>readstring</b>	function
<b>flush</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
<b>open</b>	overloaded function		

# job (context)

<b>comment</b>	function	D tobesaved	
<b>datasets</b>	table	<b>passes</b>	table
D collected		F check	
F extend		D collected	
F getdata		F count	
F setdata		F define	
D tobesaved		F find	
<b>disablesave</b>	function	F first	
<b>embedded</b>	table	F get	
D collected		F getcollected	
D tobesaved		F getdata	
<b>fileobjreferences</b>	table	F getfield	
D collected		F gettobesaved	
D tobesaved		F inlist	
<b>files</b>	table	F last	
D collected		F list	
F context		F save	
B forcerun		F savetagged	
F run		D tobesaved	
D tobesaved		<b>positions</b>	table
<b>getrandomseed</b>	function	F b_column	
<b>initialize</b>	function	F b_region	
<b>load</b>	function	F c	
<b>loadother</b>	function	D collected	
<b>objects</b>	table	F column	
D collected		F columnofpos	
F get		F copy	
F number		F depth	
F page		F e_column	
F save		F e_region	
F set		F enhance	
D tobesaved		F extra	
<b>pack</b>	boolean	F get	
<b>packversion</b>	number	F getfree	
<b>pagestates</b>	table	F gethpos	
D collected		F getpos	
F countervalue		F getreserved	
F extend		F getrpos	
F realpage		F gettobesaved	
F realpageorder		F getvpos	
F setstate		F hangafter	

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

## lang (basic tex)

<b>clean</b>	function
<b>clear_hyphenation</b>	function
<b>clear_patterns</b>	function
<b>exceptions</b>	function
<b>gethjcode</b>	function
<b>hyphenate</b>	function
<b>hyphenation</b>	function
<b>hyphenationmin</b>	function

<b>id</b>	function
<b>new</b>	function
<b>patterns</b>	function
<b>postexhyphenchar</b>	function
<b>posthyphenchar</b>	function
<b>preexhyphenchar</b>	function
<b>prehyphenchar</b>	function
<b>sethjcode</b>	function

# languages (context)

<b>associate</b>	function	<b>F registerpattern</b>	
<b>associated</b>	data table	<b>F setfeatures</b>	
<b>association</b>	function	<b>installed</b>	function
<b>counters</b>	data table	<b>labels</b>	table
<b>current</b>	function	<b>F define</b>	
<b>data</b>	data table	<b>F split</b>	
<b>decimals</b>	data table	<b>loadable</b>	function
<b>define</b>	function	<b>loadwords</b>	function
<b>explicitthyphen</b>	function	<b>logger</b>	table
<b>flatten</b>	function	<b>F report</b>	
<b>frequencies</b>	table	<b>nofflatten</b>	function
<b>F averagecharwidth</b>		<b>numbers</b>	data table
<b>F getdata</b>		<b>postexhyphenchar</b>	function
<b>getdata</b>	function	<b>posthyphenchar</b>	function
<b>getnumber</b>	function	<b>preexhyphenchar</b>	function
<b>hjcounts</b>	table	<b>prehyphenchar</b>	function
<b>hyphenate</b>	function	<b>registered</b>	data table
<b>hyphenators</b>	table	<b>replacements</b>	table
<b>T dictionaries</b>		<b>F add</b>	
<b>D featuresets</b>		<b>F addlist</b>	
<b>F handler</b>		<b>F handler</b>	
<b>T methods</b>		<b>F set</b>	
<b>F expanded</b>		<b>serializediscretionary</b>	function
<b>B none</b>		<b>setexceptions</b>	function
<b>F original</b>		<b>setsynonym</b>	function
<b>F tex</b>		<b>showdiscretionaries</b>	function
<b>F traditional</b>		<b>unload</b>	function
<b>F popmethod</b>		<b>urls</b>	table
<b>F pushmethod</b>		<b>D characters</b>	
<b>F setmethod</b>		<b>N lefthyphenmin</b>	
<b>F setup</b>		<b>D mapping</b>	
<b>F showhyphenationtrace</b>		<b>B packslashes</b>	
<b>T traditional</b>		<b>N righthyphenmin</b>	
<b>F definefeatures</b>		<b>F setcharacters</b>	
<b>F gettrace</b>		<b>version</b>	number
<b>F hyphenate</b>		<b>visualizediscretionaries</b>	function
<b>F injecthyphens</b>		<b>words</b>	table
<b>F installmethod</b>		<b>F check</b>	
<b>F lasttrace</b>		<b>T data</b>	
<b>F loadpatterns</b>		<b>F disable</b>	
<b>F registerexception</b>		<b>F enable</b>	

T enablers

F load

B enables

T methods

F found

N threshold

# layouts (context)

<b>status</b>	table	F leftorrightpageaction
	F isleftpage	

## lfs (extra lua)

<b>attributes</b>	overloaded function	<b>mkdir</b>	overloaded function
<b>chdir</b>	overloaded function	<b>mkdirs</b>	function
<b>currentdir</b>	function	<b>modification</b>	function
<b>dir</b>	overloaded function	<b>readlink</b>	overloaded function
<b>isdir</b>	overloaded function	<b>rmdir</b>	overloaded function
<b>isfile</b>	overloaded function	<b>setmode</b>	overloaded function
<b>isfound</b>	function	<b>shortname</b>	overloaded function
<b>link</b>	overloaded function	<b>symlinkattributes</b>	overloaded function
<b>lock</b>	function	<b>touch</b>	overloaded function
<b>lock_dir</b>	overloaded function	<b>unlock</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

# lmx (context)

<b>color</b>	function
<b>convert</b>	function
<b>convertfile</b>	function
<b>convertstring</b>	function
<b>einject</b>	function
<b>eprint</b>	function
<b>escape</b>	function
<b>finalized</b>	function
<b>finject</b>	function
<b>fprint</b>	function
<b>get</b>	function
<b>getvariables</b>	function
<b>htmfile</b>	function
<b>html</b>	table
F a	
F td	
F th	
<b>include</b>	function
<b>inherited</b>	table
S color-background-four	
S color-background-one	
S color-background-three	
S color-background-two	
S title	
<b>initialize</b>	function
<b>inject</b>	function
<b>lmxfile</b>	function

<b>loadedfile</b>	function
<b>make</b>	function
<b>new</b>	function
<b>overloaderror</b>	function
<b>popupfile</b>	function
<b>print</b>	function
<b>pv</b>	function
<b>report</b>	function
<b>reset</b>	function
<b>result</b>	function
<b>set</b>	function
<b>show</b>	function
<b>showdebuginfo</b>	function
<b>showerror</b>	function
<b>stripcss</b>	function
<b>tv</b>	function
<b>type</b>	function
<b>urlescape</b>	function
<b>variable</b>	function
<b>variables</b>	table
S color-background-blue	
S color-background-body	
S color-background-green	
S color-background-main	
S color-background-purple	
S color-background-yellow	
S title-default	

# logs (context)

<b>application</b>	function	<b>reportline</b>	function
<b>categories</b>	function	<b>reportlines</b>	function
<b>direct</b>	function	<b>setformats</b>	function
<b>disable</b>	function	<b>setformatters</b>	function
<b>enable</b>	function	<b>setlogfile</b>	function
<b>exporters</b>	table	<b>setmessenger</b>	function
<b>extendbanner</b>	function	<b>setprocessor</b>	function
<b>finalactions</b>	function	<b>setprogram</b>	function
<b>flush</b>	function	<b>settarget</b>	function
<b>help</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>simple</b>	function
<b>newline</b>	function	<b>simpleline</b>	function
<b>poptarget</b>	function	<b>simplelines</b>	function
<b>pushtarget</b>	function	<b>start_page_number</b>	function
<b>registerfinalactions</b>	function	<b>starterrorlogging</b>	function
<b>report</b>	function	<b>startfilelogging</b>	function
<b>reportbanner</b>	function	<b>status</b>	function
<b>reporter</b>	function	<b>stop_page_number</b>	function
<b>reporters</b>	table	<b>stoperrorlogging</b>	function
F banner		<b>stopfilelogging</b>	function
F export		<b>subdirect</b>	function
F help		<b>subreport</b>	function
F info		<b>system</b>	function
F lines		<b>texerrormessage</b>	function
F version		<b>writer</b>	function

# lpdf (context)

<b>action</b>	function
<b>adddocumentcolorspace</b>	function
<b>adddocumenttextgstate</b>	function
<b>adddocumentpattern</b>	function
<b>adddocumentshade</b>	function
<b>addtocatalog</b>	function
<b>addtoinfo</b>	function
<b>addtonames</b>	function
<b>addtopageattributes</b>	function
<b>addtopageresources</b>	function
<b>addtopagesattributes</b>	function
<b>addxmpinfo</b>	function
<b>annotationspecification</b>	function
<b>array</b>	function
<b>attachmentsymbols</b>	function
<b>boolean</b>	function
<b>border</b>	function
<b>checkedkey</b>	function
<b>checkedvalue</b>	function
<b>circularshade</b>	function
<b>cmykcode</b>	function
<b>collectedresources</b>	function
<b>color</b>	function
<b>colorspace</b>	function
<b>colorspaceconstants</b>	data table
<b>colorspec</b>	function
<b>colorvalue</b>	function
<b>colorvalues</b>	function
<b>commentsymbols</b>	function
<b>compresslevel</b>	function
<b>constant</b>	function
<b>copyarray</b>	function
<b>copyboolean</b>	function
<b>copyconstant</b>	function
<b>copydictionary</b>	function
<b>copyfloat</b>	function
<b>copyinteger</b>	function
<b>copynumber</b>	function
<b>copystring</b>	function
<b>copyunicode</b>	function
<b>delayedobject</b>	function

<b>destination specification</b>	function
<b>dictionary</b>	function
<b>docstring</b>	function
<b>epdf</b>	table
F analyzefonts	
F contenttotext	
F expanded	
F getpagecontent	
F getstructure	
T image	
F close	
F copy	
F new	
F open	
F query	
F load	
F parsecontent	
F plugin	
T resolvers	
F destinations	
F embeddedfiles	
F javascripts	
F layers	
F pages	
F structure	
F widgets	
F stripcontent	
F unload	
<b>escaped</b>	function
<b>finalizedocument</b>	function
<b>finalizefonts</b>	function
<b>finalizepage</b>	function
<b>finishtransparencycode</b>	function
<b>flags</b>	table
T annotations	
N AutoView	
N Hidden	
N Invisible	
N Locked	
N LockedContents	
N NoRotate	

N NoView		getcatalog	function
N NoZoom		getcompression	function
N Print		getfontname	function
N Printable		getfontobjnumber	function
N ReadOnly		getinfo	function
N ToggleNoView		getmetadata	function
N auto		getpageproperties	function
N hidden		getversion	function
N printable		getxformname	function
T widgets		graycode	function
N Comb		id	function
N CommitOnSelChange		immediateobj	function
N DoNotScroll		includechar	function
N DoNotSpellCheck		includecharlist	function
N Edit		includefont	function
N FileSelect		includeimage	function
N MultiLine		injectxmpinfo	function
N NoExport		insertxmpinfo	function
N NoToggleToOff		layerreference	function
N Password		limited	function
N PopUp		linearshade	function
N PushButton		literal	function
N Radio		majorversion	function
N RadiosInUnison		makenametree	function
N ReadOnly		minorversion	function
N Required		nofpages	function
N RichText		null	function
N Sort		number	function
N file		obj	function
N fixed		objectcompresslevel	function
N nocheck		pagereference	function
N protected		patternstream	function
N readonly		pdfcolor	function
N required		pdftimestamp	function
N sorted		permitdetail	function
N unavailable		print	function
flushobject	function	procset	function
flushstreamfileobject	function	protectresources	boolean
flushstreamobject	function	rectangle	function
formats	data table	reference	function
frombytes	function	registerannotation	function
fromeight	function	registerdestination	function
frompdfdoc	function	registerdocumentfinalizer	function
fromsixteen	function	registerfont	function

<b>registerpagefinalizer</b>	function	<b>shareobject</b>	function
<b>registerpattern</b>	function	<b>shareobjectreference</b>	function
<b>reserveobject</b>	function	<b>spotcode</b>	function
<b>rgbcode</b>	function	<b>stream</b>	function
<b>rotationcm</b>	function	<b>string</b>	function
<b>setcompression</b>	function	<b>toeight</b>	function
<b>setdates</b>	function	<b>topdfdoc</b>	function
<b>setmapfile</b>	function	<b>tosixteen</b>	function
<b>setmapline</b>	function	<b>transparency</b>	function
<b>setomitcharset</b>	function	<b>transparencycode</b>	function
<b>setomitcidset</b>	function	<b>transparencygroups</b>	table
<b>suppressoptionalinfo</b>	function	<b>B none</b>	
<b>settime</b>	function	<b>transparencyvalue</b>	function
<b>settrailerid</b>	function	<b>unicode</b>	function
<b>setversion</b>	function	<b>verbose</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>utfchartabletopattern</b>	function
<b>counter</b>	function	<b>utfreplacer</b>	function
<b>endstripper</b>	function	<b>version</b>	function
<b>finder</b>	function		

# ltn12 (context)

**BLOCKSIZE** number  
**filter** table  
    F chain  
    F cycle  
**pump** table  
    F all  
    F step  
**sink** table  
    F chain  
    F error  
    F file  
    F null

    F simplify  
    F table  
**source** table  
    F cat  
    F chain  
    F empty  
    F error  
    F file  
    F rewind  
    F simplify  
    F string



# lua (basic tex)

<b>bytecode</b>	table	F loaded	
<b>bytedata</b>	data table	F required	
<b>bytdone</b>	table	F reset	
<b>collectgarbage</b>	function	F resolvestring	
<b>delay</b>	function	F resolving	
<b>finalize</b>	function	F showdefinitions	
<b>firstbytecode</b>	number	<b>mask</b>	string
<b>flush</b>	function	<b>messages</b>	data table
<b>flushdelayed</b>	function	<b>name</b>	table
<b>get_functions_table</b>	overloaded function	<b>newtable</b>	function
<b>getbytecode</b>	function	<b>numbers</b>	data table
<b>getcalllevel</b>	function	<b>registercode</b>	function
<b>getcodepage</b>	function	<b>registeredcodes</b>	function
<b>getfunctionstable</b>	function	<b>registerfinalizer</b>	function
<b>getluaname</b>	function	<b>registername</b>	function
<b>getstacktop</b>	function	<b>setbytecode</b>	function
<b>lastbytecode</b>	number	<b>setluaname</b>	function
<b>macros</b>	table	<b>startupfile</b>	string
B enabled		<b>version</b>	string

# luatex (context)

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

# lxml (context)

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

<b>register</b>	function
<b>registerentity</b>	function
<b>removesetup</b>	function
<b>replace</b>	function
<b>resetcdata</b>	function
<b>resetsetups</b>	function
<b>resolvedentity</b>	function
<b>root</b>	function
<b>save</b>	function
<b>serialize</b>	function
<b>setaction</b>	function
<b>setatt</b>	function
<b>setattribute</b>	function
<b>setcdata</b>	function
<b>setcommandtonone</b>	function
<b>setcommandtotext</b>	function
<b>setpar</b>	function
<b>setparam</b>	function
<b>setparameter</b>	function
<b>setsetup</b>	function
<b>snippet</b>	function
<b>sorters</b>	table

F add

F compare

F flush

F reset

F show

F sort

<b>splitid</b>	function
<b>startraw</b>	function
<b>startunesaped</b>	function
<b>stopraw</b>	function
<b>stopunesaped</b>	function
<b>store</b>	function
<b>strip</b>	function
<b>stripped</b>	function
<b>tag</b>	function
<b>text</b>	function
<b>tobuffer</b>	function
<b>tofile</b>	function
<b>toparameters</b>	function
<b>toverbatim</b>	function
<b>verbatim</b>	function
<b>withindex</b>	function
<b>xmltexhandler</b>	data table

## 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>mapremap</b>	data table
<b>alphabets</b>	data table	<b>overloadadditions</b>	function
<b>alternatives</b>	data table	<b>overloadparameters</b>	function
<b>big</b>	function	<b>privatebase</b>	number
<b>boldmap</b>	data table	<b>registerdomain</b>	function
<b>categories</b>	table	<b>registerfallbackid</b>	function
D functions		<b>remapalphabets</b>	function
<b>charactersets</b>	data table	<b>renderings</b>	table
<b>checkaccentbaseheight</b>	function	D mappings	
<b>checkprivateparameters</b>	function	D numbers	
<b>classes</b>	data table	D sets	
<b>codes</b>	data table	<b>renderset</b>	function
<b>define</b>	function	<b>resetattributes</b>	function
<b>dimensions</b>	function	<b>resetitalics</b>	function
<b>domains</b>	table	<b>resolvefallbacks</b>	function
<b>extensiblecode</b>	function	<b>scaleparameters</b>	function
<b>extensibles</b>	data table	<b>setdomain</b>	function
<b>extrabase</b>	number	<b>setitalics</b>	function
<b>extras</b>	table	<b>setridofprime</b>	function
F add		<b>sets</b>	data table
F copy		<b>styles</b>	data table
<b>fallbacks</b>	table	<b>syncboth</b>	function
F apply		<b>syncname</b>	function
F install		<b>syncstyle</b>	function
<b>fallbackstyleattr</b>	function	<b>toname</b>	function
<b>families</b>	data table	<b>tostyle</b>	function
<b>finishfallbacks</b>	function	<b>tweakaftercopyingfont</b>	function
<b>gaps</b>	data table	<b>tweakbeforecopyingfont</b>	function
<b>getboth</b>	function	<b>tweaks</b>	table
<b>getdomain</b>	function	<b>utfmathaccent</b>	function
<b>getitalics</b>	function	<b>utfmathclass</b>	function
<b>getridofprime</b>	function	<b>utfmathcommand</b>	function
<b>getstyle</b>	function	<b>utfmathfiller</b>	function
<b>horizontalcode</b>	function	<b>utfmathstretch</b>	function
<b>initializeparameters</b>	function	<b>virtualize</b>	function
<b>makefont</b>	function	<b>virtualized</b>	data table

## md5 (extra lua)

<b>HEX</b>	function
<b>crypt</b>	function
<b>dec</b>	function
<b>decrypt</b>	function
<b>exor</b>	function

<b>hex</b>	function
<b>sum</b>	function
<b>sumHEXA</b>	overloaded function
<b>sumhexa</b>	overloaded function

# metapost (context)

<b>checkformat</b>	function	<b>getstatistics</b>	function
<b>cm</b>	function	<b>gettext</b>	function
<b>colorinitializer</b>	function	<b>graphic</b>	function
<b>comment</b>	function	<b>graphic_base_pass</b>	function
<b>convert</b>	function	<b>includesvgbuffer</b>	function
<b>currentmpx</b>	function	<b>includesvgfile</b>	function
<b>currentmpxstatus</b>	function	<b>installplugin</b>	function
<b>defaultformat</b>	string	<b>isobject</b>	function
<b>defaultinstance</b>	string	<b>lastlog</b>	string
<b>defaultmethod</b>	string	<b>load</b>	function
<b>directrun</b>	function	<b>maketext</b>	function
<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	
T pdf		<b>n</b>	number
F comment		<b>nofruns</b>	number
F flushfigure		<b>nofscriptruns</b>	function
F startfigure		<b>nvformat</b>	function
F stopfigure		<b>pdfliterals</b>	function
F textfigure		<b>pluginactions</b>	function
<b>flushliteral</b>	function	<b>popformat</b>	function
<b>flushnormalpath</b>	function	<b>popscriptrunner</b>	function
<b>flushreset</b>	function	<b>popvariable</b>	function
<b>fonts</b>	table	<b>popvariables</b>	function
F define		<b>preparetexttsdata</b>	function
T flusher		<b>process</b>	function
F flushfigure		<b>processing</b>	function
F startfigure		<b>processplugins</b>	function
F stopfigure		<b>processspecial</b>	function
N instances		<b>properties</b>	table
F process		<b>pushformat</b>	function
<b>format_number</b>	function	<b>pushscriptrunner</b>	function
<b>format_string</b>	function	<b>pushvariable</b>	function
<b>formatnumber</b>	function	<b>pushvariables</b>	function
<b>getclippath</b>	function	<b>reducetogray</b>	boolean
<b>getextensions</b>	function	<b>registerscript</b>	function
<b>getextradata</b>	function	<b>remappedtext</b>	function
<b>getjobdata</b>	function	<b>remaptext</b>	function



<b>reporterror</b>	function	<b>svgcolorremapper</b>	function
<b>reportsvgfonts</b>	function	<b>svgglyhtomp</b>	function
<b>reset</b>	function	<b>svgshapestomp</b>	function
<b>resetlastlog</b>	function	<b>svgshapestopdf</b>	function
<b>resetplugins</b>	function	<b>svgsplitcolor</b>	function
<b>run</b>	function	<b>svgtomp</b>	function
<b>runscript</b>	function	<b>svgtopdf</b>	function
<b>scripterror</b>	function	<b>sxsy</b>	function
<b>scriptindex</b>	function	<b>tex</b>	table
<b>setextensions</b>	function	F get	
<b>setoutercolor</b>	function	F reset	
<b>settext</b>	function	F set	
<b>setvariable</b>	function	F setfrombuffer	
<b>showlog</b>	boolean	<b>texerrors</b>	boolean
<b>showsvgpage</b>	function	<b>texexp</b>	function
<b>simple</b>	function	<b>theclippath</b>	function
<b>splitprescript</b>	function	<b>tographic</b>	function
<b>startgraphic</b>	function	<b>totable</b>	function
<b>startsvghashing</b>	function	<b>typesvgpage</b>	function
<b>stopgraphic</b>	function	<b>unload</b>	function
<b>stopsvghashing</b>	function	<b>untagvariable</b>	function
<b>svformat</b>	function	<b>variables</b>	table

## mime (extra lua)

<b>b64</b>	function	<b>qpwrp</b>	function
<b>decode</b>	overloaded function	<b>report</b>	function
<b>decodet</b>	overloaded table	<b>stuff</b>	overloaded function
	F base64	<b>unb64</b>	function
	F quoted-printable	<b>unqp</b>	function
<b>dot</b>	function	<b>wrap</b>	overloaded function
<b>encode</b>	overloaded function	<b>wrapt</b>	overloaded table
<b>encodet</b>	overloaded table		F base64
	F base64		F default
	F quoted-printable		F quoted-printable
<b>eol</b>	function		F text
<b>normalize</b>	overloaded function	<b>wrp</b>	function
<b>qp</b>	function		

## mp (context)

<b>BackSpace</b>	function	<b>OuterMarginWidth</b>	function
<b>BaselineSkip</b>	function	<b>OverlayDepth</b>	function
<b>BodyFontSize</b>	function	<b>OverlayHeight</b>	function
<b>BottomDistance</b>	function	<b>OverlayLineWidth</b>	function
<b>BottomHeight</b>	function	<b>OverlayOffset</b>	function
<b>BottomSpace</b>	function	<b>OverlayRegion</b>	function
<b>CurrentColumn</b>	function	<b>OverlayWidth</b>	function
<b>CurrentHeight</b>	function	<b>PageDepth</b>	function
<b>CurrentWidth</b>	function	<b>PageFraction</b>	function
<b>CutSpace</b>	function	<b>PageNumber</b>	function
<b>EmWidth</b>	function	<b>PageOffset</b>	function
<b>ExHeight</b>	function	<b>PaperBleed</b>	function
<b>FooterDistance</b>	function	<b>PaperHeight</b>	function
<b>FooterHeight</b>	function	<b>PaperWidth</b>	function
<b>HSize</b>	function	<b>PrintPaperHeight</b>	function
<b>HeaderDistance</b>	function	<b>PrintPaperWidth</b>	function
<b>HeaderHeight</b>	function	<b>RealPageNumber</b>	function
<b>InPageBody</b>	function	<b>RightEdgeDistance</b>	function
<b>InnerEdgeDistance</b>	function	<b>RightEdgeWidth</b>	function
<b>InnerEdgeWidth</b>	function	<b>RightMarginDistance</b>	function
<b>InnerMarginDistance</b>	function	<b>RightMarginWidth</b>	function
<b>InnerMarginWidth</b>	function	<b>SpineWidth</b>	function
<b>LastPageNumber</b>	function	<b>StrutDepth</b>	function
<b>LayoutColumnDistance</b>	function	<b>StrutHeight</b>	function
<b>LayoutColumnWidth</b>	function	<b>SubPageNumber</b>	function
<b>LayoutColumns</b>	function	<b>TextHeight</b>	function
<b>LeftEdgeDistance</b>	function	<b>TextWidth</b>	function
<b>LeftEdgeWidth</b>	function	<b>TopDistance</b>	function
<b>LeftMarginDistance</b>	function	<b>TopHeight</b>	function
<b>LeftMarginWidth</b>	function	<b>TopSkip</b>	function
<b>LineHeight</b>	function	<b>TopSpace</b>	function
<b>MakeupHeight</b>	function	<b>VSize</b>	function
<b>MakeupWidth</b>	function	<b>_get_count_</b>	function
<b>NumberOfColumns</b>	function	<b>_get_dimen_</b>	function
<b>NumberOfPages</b>	function	<b>_get_macro_</b>	function
<b>NumberOfSubPages</b>	function	<b>_get_toks_</b>	function
<b>OnOddPage</b>	function	<b>_set_count_</b>	function
<b>OnRightPage</b>	function	<b>_set_dimen_</b>	function
<b>OuterEdgeDistance</b>	function	<b>_set_macro_</b>	function
<b>OuterEdgeWidth</b>	function	<b>_set_toks_</b>	function
<b>OuterMarginDistance</b>	function	<b>aux</b>	table

F boolean		<b>fill</b>	function
F color		<b>flatten</b>	function
F direct		<b>flush</b>	function
F direct1		<b>format</b>	function
F direct2		<b>formatted</b>	function
F direct3		<b>fprint</b>	function
F direct4		<b>fromhash</b>	function
F draw		<b>get</b>	table
F fill		F boolean	
F flush		F integer	
F fprint		F number	
F integer		F numeric	
F number		F path	
F numeric		F string	
F pair		<b>getcount</b>	function
F pairpoints		<b>getdimen</b>	function
F path		<b>getmacro</b>	function
F pathpoints		<b>gettoks</b>	function
F points		<b>graphformat</b>	function
F print		<b>inhash</b>	function
F quadruple		<b>integer</b>	function
F quadruplepoints		<b>isarray</b>	function
F quoted		<b>isobject</b>	function
F size		<b>lmt_color_functions</b>	table
F string		F shade	
F transform		F step	
F triplet		<b>lmt_contours_bitmap_get</b>	function
F tripletpoints		<b>lmt_contours_bitmap_set</b>	function
F vprint		<b>lmt_contours_cleanup</b>	function
<b>boolean</b>	function	<b>lmt_contours_color</b>	function
<b>cleaned</b>	function	<b>lmt_contours_edge_get_band</b>	function
<b>color</b>	function	<b>lmt_contours_edge_get_cell</b>	function
<b>dataset</b>	function	<b>lmt_contours_edge_paths</b>	function
<b>datasets</b>	function	<b>lmt_contours_edge_set</b>	function
F load		<b>lmt_contours_edge_set_by_band</b>	function
<b>defaultcolormodel</b>	function	<b>lmt_contours_edge_set_by_cell</b>	function
<b>dimension</b>	function	<b>lmt_contours_format</b>	function
<b>direct</b>	function	<b>lmt_contours_function</b>	function
<b>direct1</b>	function	<b>lmt_contours_maxmean</b>	function
<b>direct2</b>	function	<b>lmt_contours_maxz</b>	function
<b>direct3</b>	function	<b>lmt_contours_minmean</b>	function
<b>direct4</b>	function	<b>lmt_contours_minz</b>	function
<b>disposehash</b>	function	<b>lmt_contours_nofvalues</b>	function
<b>draw</b>	function	<b>lmt_contours_nx</b>	function

<b>lmt_contours_ny</b>	function	<b>mf_tt_dimensions</b>	function
<b>lmt_contours_range</b>	function	<b>mf_tt_initialize</b>	function
<b>lmt_contours_shade_paths</b>	function	<b>mode</b>	function
<b>lmt_contours_shade_set</b>	function	<b>n</b>	function
<b>lmt_contours_shape_paths</b>	function	<b>newhash</b>	function
<b>lmt_contours_start</b>	function	<b>number</b>	function
<b>lmt_contours_stop</b>	function	<b>numeric</b>	function
<b>lmt_contours_value</b>	function	<b>pair</b>	function
<b>lmt_contours_xrange</b>	function	<b>pairpoints</b>	function
<b>lmt_contours_yrange</b>	function	<b>path</b>	function
<b>lmt_surface_do</b>	function	<b>pathleft</b>	function
<b>mf_blob_add</b>	function	<b>pathlength</b>	function
<b>mf_blob_dimensions</b>	function	<b>pathpoint</b>	function
<b>mf_blob_index</b>	function	<b>pathpoints</b>	function
<b>mf_blob_new</b>	function	<b>pathreset</b>	function
<b>mf_blob_raw_content</b>	function	<b>pathright</b>	function
<b>mf_blob_raw_dimensions</b>	function	<b>points</b>	function
<b>mf_blob_raw_reset</b>	function	<b>positionanchor</b>	function
<b>mf_blob_raw_toutf</b>	function	<b>positionbox</b>	function
<b>mf_blob_raw_wipe</b>	function	<b>positioncurve</b>	function
<b>mf_blob_size</b>	function	<b>positionpage</b>	function
<b>mf_blob_width</b>	function	<b>positionpath</b>	function
<b>mf_external_figure</b>	function	<b>positionpxy</b>	function
<b>mf_finish_saving_data</b>	function	<b>positionregion</b>	function
<b>mf_formatted_text</b>	function	<b>positionwhd</b>	function
<b>mf_get_outline_text</b>	function	<b>positionxy</b>	function
<b>mf_graphic_text</b>	function	<b>prefix</b>	function
<b>mf_inject_blob</b>	function	<b>print</b>	function
<b>mf_made_text</b>	function	<b>processingmode</b>	function
<b>mf_map_move</b>	function	<b>quadruple</b>	function
<b>mf_map_text</b>	function	<b>quadruplepoints</b>	function
<b>mf_named_color</b>	function	<b>quoted</b>	function
<b>mf_outline_text</b>	function	<b>report</b>	function
<b>mf_path_left</b>	function	<b>scan</b>	table
<b>mf_path_length</b>	function	<b>set</b>	table
<b>mf_path_point</b>	function	<b>F path</b>	
<b>mf_path_reset</b>	function	<b>setcount</b>	function
<b>mf_path_right</b>	function	<b>setdimen</b>	function
<b>mf_save_data</b>	function	<b>setmacro</b>	function
<b>mf_script_index</b>	function	<b>settoks</b>	function
<b>mf_some_text</b>	function	<b>size</b>	function
<b>mf_start_saving_data</b>	function	<b>string</b>	function
<b>mf_stop_saving_data</b>	function	<b>systemmode</b>	function
<b>mf_tb_dimensions</b>	function	<b>texstr</b>	function

<b>texttextanchor</b>	function	<b>tripletpoints</b>	function
<b>texvar</b>	function	<b>utflen</b>	function
<b>tohash</b>	function	<b>utfsub</b>	function
<b>transform</b>	function	<b>vprint</b>	function
<b>triplet</b>	function		

## mplib (extra tex)

<b>char_depth</b>	function	<b>get_boolean</b>	function
<b>char_height</b>	function	<b>get_number</b>	function
<b>char_width</b>	function	<b>get_numeric</b>	function
<b>execute</b>	function	<b>get_path</b>	function
<b>fields</b>	function	<b>get_string</b>	function
<b>finder</b>	function	<b>new</b>	overloaded function
<b>finders</b>	table	<b>pen_info</b>	function
F file		<b>solve_path</b>	function
F mpstemplate		<b>statistics</b>	function
<b>finish</b>	function	<b>version</b>	function

# noads (context)

<b>handlers</b>	table		F resize
F align			F showtree
F alternates			F tags
F autofences			F unscript
F classes			F unstack
F collapse			F variants
F domains		<b>process</b>	function
F families		<b>processnested</b>	function
F fixscripts		<b>processors</b>	table
F italics		F mlist_to_hlist	
F kernpairs		T unscript	
F makeup		T unstack	
F relocate		<b>processouter</b>	function
F render			



## node (basic tex)

<b>check_discretionaries</b>	function	F getglue
<b>check_discretionary</b>	function	F getheight
<b>copy</b>	function	F getid
<b>copy_list</b>	function	F getkern
<b>count</b>	function	F getlang
<b>current_attr</b>	function	F getleader
<b>dimensions</b>	function	F getlist
<b>direct</b>	table	F getnext
F check_discretionaries		F getnucleus
F check_discretionary		F getoffsets
F copy		F getpenalty
F copy_list		F getprev
F count		F getproperty
F current_attr		F getshift
F dimensions		F getsub
F effective_glue		F getsubtype
F end_of_math		F getsup
F find_attribute		F getwhd
F first_glyph		F getwidth
F flatten_discretionaries		F has_attribute
F flush_list		F has_field
F flush_node		F has_glyph
F flush_properties_table		F hpack
F free		F hyphenating
F get_attribute		F insert_after
F get_properties_table		F insert_before
F get_synctex_fields		F is_char
F getattributelist		F is_direct
F getboth		F is_glyph
F getbox		F is_node
F getchar		F is_zero_glue
F getcomponents		F kerning
F getdata		F last_node
F getdepth		F length
F getdir		F ligaturing
F getdirection		F new
F getdisc		F prepend_prevdepth
F getexpansion		F protect_glyph
F getfam		F protect_glyphs
F getfield		F protrusion_skippable
F getfont		F rangedimensions

F remove	F traverse_char	
F set_attribute	F traverse_glyph	
F set_properties_mode	F traverse_id	
F set_synctex_fields	F traverse_list	
F setattributelist	F unprotect_glyph	
F setboth	F unprotect_glyphs	
F setbox	F unset_attribute	
F setchar	F usedlist	
F setcomponents	F uses_font	
F setdata	F vpack	
F setdepth	F write	
F setdir	<b>effective_glue</b>	function
F setdirection	<b>end_of_math</b>	function
F setdisc	<b>family_font</b>	function
F setexpansion	<b>fields</b>	function
F setfam	<b>find_attribute</b>	function
F setfield	<b>first_glyph</b>	function
F setfont	<b>fix_node_lists</b>	function
F setglue	<b>flatten_discretionaries</b>	function
F setheight	<b>flush_list</b>	function
F setkern	<b>flush_node</b>	function
F setlang	<b>flush_properties_table</b>	function
F setleader	<b>free</b>	function
F setlink	<b>get_attribute</b>	function
F setlist	<b>get_properties_table</b>	function
F setnext	<b>getboth</b>	function
F setnucleus	<b>getchar</b>	function
F setoffsets	<b>getdisc</b>	function
F setpenalty	<b>getfield</b>	function
F setprev	<b>getfont</b>	function
F setproperty	<b>getglue</b>	function
F setshift	<b>getid</b>	function
F setsplit	<b>getleader</b>	function
F setsub	<b>getlist</b>	function
F setsubtype	<b>getnext</b>	function
F setsup	<b>getprev</b>	function
F setwhd	<b>getproperty</b>	function
F setwidth	<b>getsubtype</b>	function
F slide	<b>getwhd</b>	function
F tail	<b>has_attribute</b>	function
F todirect	<b>has_field</b>	function
F tonode	<b>has_glyph</b>	function
F toString	<b>hpack</b>	function
F traverse	<b>hyphenating</b>	function

<b>id</b>	function	<b>setfield</b>	function
<b>insert_after</b>	function	<b>setglue</b>	function
<b>insert_before</b>	function	<b>setproperty</b>	function
<b>is_char</b>	function	<b>slide</b>	function
<b>is_glyph</b>	function	<b>subtype</b>	function
<b>is_node</b>	function	<b>subtypes</b>	function
<b>is_zero_glue</b>	function	<b>tail</b>	function
<b>kerneling</b>	function	<b>tostring</b>	function
<b>last_node</b>	function	<b>traverse</b>	function
<b>length</b>	function	<b>traverse_char</b>	function
<b>ligaturing</b>	function	<b>traverse_glyph</b>	function
<b>make_extensible</b>	function	<b>traverse_id</b>	function
<b>mlist_to_hlist</b>	function	<b>traverse_list</b>	function
<b>new</b>	function	<b>type</b>	function
<b>next</b>	function	<b>types</b>	function
<b>prepend_prevdepth</b>	function	<b>unprotect_glyph</b>	function
<b>prev</b>	function	<b>unprotect_glyphs</b>	function
<b>protect_glyph</b>	function	<b>unset_attribute</b>	function
<b>protect_glyphs</b>	function	<b>usedlist</b>	function
<b>protrusion_skippable</b>	function	<b>uses_font</b>	function
<b>rangedimensions</b>	function	<b>values</b>	function
<b>remove</b>	function	<b>vpack</b>	function
<b>set_attribute</b>	function	<b>whatsits</b>	function
<b>set_properties_mode</b>	function	<b>write</b>	function

# nodes (context)

<b>accentcodes</b>	data table	<b>discretionarycodes</b>	data table
<b>aligned</b>	function	<b>effective_glue</b>	function
<b>append</b>	function	<b>end_of_math</b>	function
<b>apply</b>	function	<b>fencecodes</b>	data table
<b>applyvisuals</b>	function	<b>fields</b>	function
<b>astable</b>	function	<b>fillcodes</b>	data table
<b>basepoints</b>	function	<b>find_attribute</b>	function
<b>boundarycodes</b>	data table	<b>first_glyph</b>	function
<b>boxes</b>	table	<b>firstcharacter</b>	function
F dimensions		<b>firstcharinbox</b>	function
F direct		<b>firstdirinbox</b>	function
F found		<b>firstglyph</b>	function
F reset		<b>flatten_discretionaries</b>	function
F restore		<b>flush</b>	function
F save		<b>flush_list</b>	function
F savenode		<b>flush_node</b>	function
<b>builders</b>	table	<b>free</b>	function
F buildpage_filter		<b>fullhpack</b>	function
F vpack_filter		<b>getattr</b>	function
<b>check_discretionaries</b>	function	<b>getattribute</b>	function
<b>codes</b>	data table	<b>getboth</b>	function
<b>concat</b>	function	<b>getbox</b>	function
<b>copy</b>	function	<b>getchar</b>	function
<b>copy_list</b>	function	<b>getfield</b>	function
<b>copy_node</b>	function	<b>getfont</b>	function
<b>count</b>	function	<b>getglue</b>	function
<b>countall</b>	function	<b>getid</b>	function
<b>current_attr</b>	function	<b>getleader</b>	function
<b>delete</b>	function	<b>getlist</b>	function
<b>destinations</b>	table	<b>getnext</b>	function
N attribute		<b>getnormalizeline</b>	function
T done		<b>getprev</b>	function
F handler		<b>getsubtype</b>	function
T stack		<b>gluecodes</b>	data table
<b>dimensionfields</b>	data table	<b>gluevalues</b>	data table
<b>dimensions</b>	function	<b>glyphcodes</b>	data table
<b>dircodes</b>	data table	<b>handlers</b>	table
<b>directioncodes</b>	data table	F accessibility	
<b>directionvalues</b>	data table	F backgrounds	
<b>dirvalues</b>	data table	F backgroundspage	
<b>disccodes</b>	data table	F backgroundsvbox	

F characters		<b>installattributehandler</b>	function
F checkforleaks		<b>is_direct</b>	function
F checkglyphs		<b>is_display_math</b>	function
F checkparcounter		<b>is_node</b>	function
F cleanupbox		<b>is_nut</b>	function
F cleanuppage		<b>is_zero_glue</b>	function
F export		<b>kerncodes</b>	data table
F finalizebox		<b>kerning</b>	function
F flatten		<b>keys</b>	table
F flattenline		T whatsit	
F migrate		<b>last_node</b>	function
F protectglyphs		<b>leadercodes</b>	data table
F stripping		<b>leftmarginwidth</b>	function
F textbackgrounds		<b>length</b>	function
F unprotectglyphs		<b>ligaturing</b>	function
<b>has_attribute</b>	function	<b>linefillers</b>	table
<b>has_field</b>	function	D data	
<b>has_glyph</b>	function	F define	
<b>hpack</b>	function	F enable	
<b>hyphenating</b>	function	F filler	
<b>idsandsubtypes</b>	function	F handler	
<b>idstostring</b>	function	<b>lines</b>	table
<b>ignorablefields</b>	data table	T boxed	
<b>injections</b>	table	F register	
F copy		F setup	
F getligaindex		F stage_one	
F getthreshold		F stage_two	
F handler		D data	
F installgetspaceboth		F finalize	
F installnewkern		F number	
F isspace		N scratchbox	
F keepcounts		<b>link</b>	function
F reset		<b>linked</b>	function
F resetcounts		<b>list</b>	function
F setcursive		<b>listablefields</b>	data table
F setkern		<b>listcodes</b>	data table
F setligaindex		<b>listtoutf</b>	function
F setmark		<b>literalvalues</b>	data table
F setmove		<b>load</b>	function
F setposition		<b>localparcodes</b>	data table
F setspacekerns		<b>locate</b>	function
<b>insert_after</b>	function	<b>margincodes</b>	data table
<b>insert_before</b>	function	<b>marginkerncodes</b>	data table
<b>insert_list_after</b>	function	<b>markers</b>	table

F get		F firstcharacter
<b>mathcodes</b>	data table	F firstcharinbox
<b>maxboxwidth</b>	function	F firstglyph
<b>mlist_to_hlist</b>	function	F flatten_discretionaries
<b>new</b>	function	F flush
<b>noadcodes</b>	data table	F flush_list
<b>noadoptions</b>	table	F flush_node
N axis		F free
N exact		F fullhpack
N left		F get_components
N middle		F get_synctex_fields
N no_axis		F getattr
N right		F getattribute
N set		F getattributelist
N unused_1		F getattrlist
N unused_2		F getboth
<b>nodecodes</b>	data table	F getbox
<b>nopts</b>	function	F getboxglue
<b>nuts</b>	table	F getchar
F append		F getcomponents
F apply		F getdata
F applyvisuals		F getdepth
F check_discretionaries		F getdir
F concat		F getdirection
F copy		F getdisc
F copy_list		F getdiscretionary
F copy_no_components		F getexpansion
F copy_node		F getfam
F copy_only		F getfield
F copy_only_glyphs		F getfont
F copy_properties		F getglue
F copyvisual		F getglyphdata
F count		F getheight
F count_components		F getid
F countall		F getkern
F current_attr		F getlang
F delete		F getlanguage
F dimensions		F getleader
F dirdimensions		F getlist
F effective_glue		F getnext
F end_of_math		F getnormalizedline
F find_attribute		F getnucleus
F find_node		F getoffsets
F first_glyph		F getorientation

F getpenalty  
F getpost  
F getpre  
F getprev  
F getprop  
F getreplace  
F getruledata  
F getshift  
F getstate  
F getsub  
F getsubtype  
F getsup  
F getsurround  
F getvalue  
F getwhd  
F getwidth  
F has\_attribute  
F has\_dimensions  
F has\_field  
F has\_glyph  
F hpack  
F hyphenating  
F insert\_after  
F insert\_before  
F insert\_list\_after  
F is\_direct  
F is\_display\_math  
F is\_node  
F is\_nut  
F is\_zero\_glue  
F ischar  
F isdone  
F isglyph  
F kerning  
F last\_node  
F leftmarginwidth  
F length  
F ligaturing  
F link  
F linked  
F locate  
F mlist\_to\_hlist  
F nestedtracedslide  
F new

T pool  
F accent  
F baselineskip  
F boundary  
F choice  
F cleanup  
F delim  
F delimiter  
F direction  
F directliteral  
F disc  
F emptyrule  
F fence  
F fontkern  
F fraction  
F glue  
F glyph  
F hlist  
F indentskip  
F italickern  
F kern  
F latelua  
F leader  
F lefthangskip  
F leftmarginkern  
F leftskip  
F lineskip  
F literal  
F mathchar  
F mathtextchar  
F negatedglue  
F noad  
F originliteral  
F outlinerule  
F pageliteral  
F penalty  
F radical  
F rawliteral  
F register  
F restore  
F righthangskip  
F rightmarginkern  
F rightskip  
F rule

F save	F setattributelist
F savepos	F setattributes
F setmatrix	F setattrlist
F shrink	F setboth
F stretch	F setbox
F subbox	F setboxglue
F submlist	F setchar
F temp	F setcomponents
F usage	F setdata
T userids	F setdepth
N margins.inline	F setdir
N splitters.one	F setdirection
N splitters.two	F setdisc
F usernode	F setdiscretionary
F userrule	F setexpansion
F vlist	F setfam
F wordboundary	F setfield
F prepend	F setfont
F processranges	F setglue
F processwords	F setglyphdata
F protect_glyph	F setheight
F protect_glyphs	F setkern
F protrusion_skippable	F setlang
F rangedimensions	F setlanguage
F rawprop	F setleader
F reference	F setlink
F rehpack	F setlist
F remove	F setnext
F repackhlist	F setnucleus
F replace	F setoffsets
F rightmarginwidth	F setorientation
T rules	F setparproperty
T ruleactions	F setpenalty
F box	F setpost
F draw	F setpre
F fill	F setprev
F mp	F setprop
F stroke	F setreplace
F userrule	F setruledata
F set_attribute	F setshift
F set_components	F setsplit
F set_synctex_fields	F setstate
F setattr	F setsub
F setattribute	F setsubtype



F setup  
 F setsurround  
 F setunsetattributes  
 F setvalue  
 F setvisual  
 F setvisuals  
 F setwhd  
 F setwidth  
 F slide  
 F somepenalty  
 F somespace  
 F splitbox  
 F start\_of\_par  
 F striprange  
 F tail  
 F takeattr  
 F takebox  
 F takelist  
 F theprop  
 F tonode  
 F tonodes  
 F tonut  
 F tosequence  
 F toString  
 F tracedslide  
 F traverse  
 F traverse\_char  
 F traverse\_glyph  
 F traverse\_id  
 F traverse\_list  
 T traversers  
   F boundary  
   F char  
   F dir  
   F disc  
   F glue  
   F glyph  
   F hlist  
   F list  
   F next  
   F node  
   F vlist  
   F whatsit  
 T typesetters

F tohbox  
 F tohpack  
 F tonodes  
 F to vbox  
 F tovpack  
 F unprotect\_glyph  
 F unprotect\_glyphs  
 F unset\_attribute  
 F unsetattribute  
 F unsetattributes  
 F untracedslide  
 F usedlist  
 F uses\_font  
 F vianodes  
 F vianuts  
 F vpack  
 F write

**packlist**  
**penaltycodes**  
**plugindata**

F finalizer  
 F initializer  
 S name  
 T namespace  
 N attribute  
 D data  
 F enable  
 F handler  
 F register  
 D registered  
 D values  
 F processor

**points**  
**pool**

F baselineskip  
 F cleanup  
 F directliteral  
 F glyph  
 F hlist  
 F latelua  
 F lineskip  
 F literal  
 F originliteral  
 F register

function  
 data table  
 table

function  
 table

F restore	
F save	
F savepos	
F setmatrix	
F special	
F usage	
F vlist	
<b>prepend</b>	function
<b>print</b>	function
<b>processors</b>	table
F contribute_filter	
B enabled	
F hpack_filter	
F post_linebreak_filter	
F pre_linebreak_filter	
F tracer	
<b>properties</b>	table
T data	
<b>protect_glyph</b>	function
<b>protect_glyphs</b>	function
<b>protrusion_skipable</b>	function
<b>pts</b>	function
<b>radicalcodes</b>	data table
<b>rangedimensions</b>	function
<b>reference</b>	function
<b>references</b>	table
N attribute	
T done	
F handler	
T stack	
<b>reheap</b>	function
<b>remove</b>	function
<b>repackhlist</b>	function
<b>replace</b>	function
<b>report</b>	function
<b>rightmarginwidth</b>	function
<b>rulecodes</b>	data table
<b>rules</b>	table
D data	
F define	
F enable	
F handler	
F userrule	
<b>save</b>	function

<b>serialize</b>	function
<b>serializebox</b>	function
<b>set_attribute</b>	function
<b>setattr</b>	function
<b>setattribute</b>	function
<b>setattributes</b>	function
<b>setboth</b>	function
<b>setbox</b>	function
<b>setboxtonaturalwd</b>	function
<b>setchar</b>	function
<b>setfield</b>	function
<b>setfont</b>	function
<b>setglue</b>	function
<b>setleader</b>	function
<b>setlink</b>	function
<b>setlist</b>	function
<b>setnext</b>	function
<b>setnormalizeline</b>	function
<b>setprev</b>	function
<b>setunsetattributes</b>	function
<b>shifts</b>	table
D data	
F define	
F enable	
F handler	
<b>show</b>	function
<b>showboxes</b>	function
<b>showcodes</b>	function
<b>showlist</b>	function
<b>showsimplelist</b>	function
<b>skipcodes</b>	data table
<b>skipvalues</b>	data table
<b>slide</b>	function
<b>snapshots</b>	table
F getparameters	
F getsamples	
F resetsamples	
F takesample	
<b>somepenalty</b>	function
<b>somespace</b>	function
<b>splitbox</b>	function
<b>start_of_par</b>	function
<b>stripdiscussionaries</b>	function
<b>stripping</b>	table

T glyphs		T characters	
F set		F collect	
<b>subtypes</b>	data table	F equal	
<b>tail</b>	function	F start	
<b>takeattr</b>	function	F string	
<b>takebox</b>	function	F unicodes	
<b>tasks</b>	table	T colors	
F actions		F reset	
F appendaction		F set	
F disableaction		F setlist	
F disablegroup		F directions	
F enableaction		F fontchar	
F enablegroup		T frequencies	
F freeze		F register	
F freezegroup		T pool	
F new		T nodes	
F prependaction		F rule	
F removeaction		T nuts	
F replaceaction		F rule	
F restart		F resetproperties	
F setaction		F rule	
F showactions		F setlist	
F table		F setproperties	
<b>tobasepoints</b>	function	F start	
<b>tocentimeters</b>	function	T steppers	
<b>tociceros</b>	function	F check	
<b>todidots</b>	function	F codes	
<b>todimen</b>	function	F features	
<b>toinches</b>	function	F font	
<b>tomillimeters</b>	function	F glyphs	
<b>tonewciceros</b>	function	F message	
<b>tonewdidots</b>	function	F messages	
<b>tonode</b>	function	F nofsteps	
<b>tonodes</b>	function	F register	
<b>tonut</b>	function	F reset	
<b>topicas</b>	function	F start	
<b>topoints</b>	function	F stop	
<b>toscaledpoints</b>	function	F stop	
<b>tosequence</b>	function	T transparencies	
<b>tostring</b>	function	F reset	
<b>totable</b>	function	F set	
<b>totree</b>	function	F setlist	
<b>toutf</b>	function	<b>traverse</b>	function
<b>tracers</b>	table	<b>traverse_char</b>	function

<b>traverse_glyph</b>	function	<b>usedlist</b>	function
<b>traverse_id</b>	function	<b>usercodes</b>	data table
<b>traverse_list</b>	function	<b>uses_font</b>	function
<b>traversers</b>	table	<b>vianodes</b>	function
F char		<b>vianuts</b>	function
F glyph		<b>visualizebox</b>	function
F list		<b>visualizers</b>	table
F node		F attribute	
<b>typesetters</b>	table	T attributes	
F hbox		F box	
F hpack		F handler	
F tohbox		F markfonts	
F tohpack		F register	
F tonodes		F setfont	
F tovbox		F setlayer	
F tovpack		F setruledglyph	
F vpack		F setvisual	
<b>unprotect_glyph</b>	function	<b>vpack</b>	function
<b>unprotect_glyphs</b>	function	<b>whatcodes</b>	data table
<b>unset_attribute</b>	function	<b>whatsitcodes</b>	data table
<b>unsetattribute</b>	function	<b>write</b>	function
<b>unsetattributes</b>	function		

## number (context)

	function	<b>tobitstring</b>	function
<b>basepoints</b>	function	<b>tocentimeters</b>	function
<b>bytetodecimal</b>	function	<b>tociceros</b>	function
<b>compactfloat</b>	function	<b>tocontext</b>	function
<b>decimaltobyte</b>	function	<b>todidots</b>	function
<b>dimenfactors</b>	data table	<b>todimen</b>	function
<b>formatted</b>	function	<b>toevenhex</b>	function
<b>formattedfloat</b>	function	<b>toinches</b>	function
<b>idiv</b>	function	<b>tomillimeters</b>	function
<b>maxdimen</b>	number	<b>tonewciceros</b>	function
<b>nopts</b>	function	<b>tonewdidots</b>	function
<b>percent</b>	function	<b>tonumberf</b>	function
<b>points</b>	function	<b>tonumberg</b>	function
<b>pts</b>	function	<b>topicas</b>	function
<b>signed</b>	function	<b>topoints</b>	function
<b>sparseexponent</b>	function	<b>toscaled</b>	function
<b>splitdimen</b>	function	<b>toscaledpoints</b>	function
<b>tol6dot16</b>	function	<b>valid</b>	function
<b>tobasepoints</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

## os (basic lua)

<b>__getenv__</b>	function	<b>remove</b>	overloaded function
<b>__setenv__</b>	function	<b>rename</b>	overloaded function
<b>binsuffix</b>	string	<b>resolvers</b>	table
<b>binsuffixes</b>	table	<b>F bits</b>	
<b>clock</b>	function	<b>resultof</b>	function
<b>converttime</b>	function	<b>runtime</b>	function
<b>date</b>	overloaded function	<b>selfdir</b>	string
<b>difftime</b>	function	<b>setenv</b>	overloaded function
<b>env</b>	data table	<b>setexitcode</b>	function
<b>exec</b>	overloaded function	<b>setlocale</b>	overloaded function
<b>execute</b>	overloaded function	<b>sleep</b>	function
<b>exit</b>	overloaded function	<b>spawn</b>	overloaded function
<b>fulltime</b>	function	<b>time</b>	function
<b>getenv</b>	overloaded function	<b>timezone</b>	function
<b>gettimeofday</b>	function	<b>tmpdir</b>	function
<b>isleapyear</b>	function	<b>tmpname</b>	function
<b>launch</b>	function	<b>today</b>	function
<b>libsuffix</b>	string	<b>type</b>	string
<b>localtime</b>	function	<b>uname</b>	function
<b>name</b>	string	<b>uuid</b>	function
<b>newline</b>	string	<b>validdatetime</b>	function
<b>nofdays</b>	function	<b>weekday</b>	function
<b>now</b>	function	<b>where</b>	function
<b>pipeto</b>	function	<b>which</b>	function
<b>platform</b>	string		

## package (basic lua)

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



# pagebuilders (context)

## columnsets    table

- F add
- F block
- F check
- F currentcolumn
- F define
- F finishflush
- F flushareas
- F flushcolumn
- F flushrest
- F goto
- F noto
- F prepareflush
- F put
- F registerarea
- F reset
- F setarea

- F sethsize
- F sethspace
- F setlines
- F setproperties
- F setstart
- F setvsize

## injections    table

- F flushafter
- F flushbefore
- F save

## mixedcolumns    table

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

pdf (basic tex)

**immediateobj** function

## pdf (extra tex)

<b>arraytotable</b>	function	<b>getnofpages</b>	function
<b>close</b>	function	<b>getnumber</b>	function
<b>closestream</b>	function	<b>getpage</b>	function
<b>dictionarytotable</b>	function	<b>getpages</b>	function
<b>encryptioncodes</b>	data table	<b>getsize</b>	function
<b>getarray</b>	function	<b>getstatus</b>	function
<b>getboolean</b>	function	<b>getstream</b>	function
<b>getbox</b>	function	<b>getstring</b>	function
<b>getcatalag</b>	function	<b>gettrailer</b>	function
<b>getdictionary</b>	function	<b>getversion</b>	function
<b>getfromarray</b>	function	<b>new</b>	function
<b>getfromdictionary</b>	function	<b>objectcodes</b>	data table
<b>getfromreference</b>	function	<b>open</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

# pdfscanner (context)

**scan** function

# physics (context)

**units** table

F registerunit

D tables

# publications (context)

<b>addtexentry</b>	function	<b>converttoxml</b>	function
<b>analyze</b>	function	<b>currentspecification</b>	table
<b>anywhere</b>	function	S author	
<b>authorcache</b>	data table	T categories	
<b>authorcollapsers</b>	data table	T article	
<b>authorhashers</b>	table	S category	
F invertedshort		T extra	
F normal		T fields	
F normalinverted		S author	
F normalshort		S editor	
F sequential		S journal	
F sequentialshort		S keywords	
F short		S note	
<b>authormap</b>	data table	S number	
<b>authortoregister</b>	function	S pages	
<b>casters</b>	table	S title	
F author		S volume	
F keyword		S year	
F pagenumber		T optional	
F range		T required	
<b>checkeddataset</b>	function	T sets	
<b>citevariants</b>	table	T author	
F author		T virtual	
F authornum		T book	
F authoryear		S category	
F authoryears		T extra	
F category		T fields	
F default		S address	
F entry		S author	
F index		S edition	
F keywords		S editor	
F num		S keywords	
F page		S note	
F short		S number	
F tag		S publisher	
F textnum		S subtitle	
F year		S title	
<b>collected</b>	data table	S volume	
<b>components</b>	table	S year	
F author		T optional	
<b>concatstate</b>	function	T required	

T sets	S pages	
T author	S volume	
T editionset	S version	
T virtual	D virtual	
T demo-a	T virtualfields	
S category	B authornum	
T extra	B authoryear	
T fields	B authoryears	
S author	B num	
S institution	B suffix	
S organization	<b>datasets</b>	table
S subtitle	<b>detailed</b>	table
S title	<b>endnotes_to_btx</b>	function
S year	<b>enhancer</b>	table
T optional	S arguments	
T required	T askip	
T sets	B dirty	
T author	T gskip	
T virtual	T kind	
T demo-b	T list	
S category	T system	
T extra	T order	
T fields	N steps	
S author	<b>enhancers</b>	table
S institution	F details	
S organization	F order	
S subtitle	F suffixes	
S title	<b>finder</b>	function
S year	<b>firstofrange</b>	function
T optional	<b>found</b>	function
T required	<b>get</b>	function
T sets	<b>getcasted</b>	function
T authors	<b>getdetail</b>	function
T virtual	<b>getdirect</b>	function
S comment	<b>getfaster</b>	function
S copyright	<b>getfield</b>	function
T fields	<b>getfuzzy</b>	function
S name	<b>getindex</b>	function
T types	<b>inspectors</b>	data table
S author	<b>journals</b>	table
S editor	F abbreviated	
S keywords	F add	
S number	F expanded	
S page	F load	

F save		F lua	
<b>lastofrange</b>	function	F refman	
<b>lists</b>	table	F registercleaner	
F collectentries		F xml	
F combiinlist		<b>loadreplacementfile</b>	function
F fetchentries		<b>new</b>	function
F filterall		<b>okay</b>	function
F flushcombi		<b>oneorange</b>	function
F flushentry		<b>parenttag</b>	function
F flushtag		<b>permitted</b>	function
T methods		<b>prerollcmdstring</b>	function
F dataset		<b>refman_to_btx</b>	function
F force		<b>resolvedname</b>	function
F global		<b>save</b>	function
F local		<b>savers</b>	table
F nofregistered		F bib	
F prepareentries		F lua	
F register		F xml	
F sameasprevious		<b>search</b>	function
T sorters		<b>setcategory</b>	function
F cite		<b>setspecification</b>	function
F dataset		<b>singularorplural</b>	function
F default		<b>sortedentries</b>	function
F index		<b>sortmethods</b>	table
F list		T authoryear	
F reference		T sequence	
F short		<b>specifications</b>	table
F used		T default	
F uservariable		S author	
<b>listvariants</b>	table	S comment	
F default		S copyright	
F index		S name	
F num		S version	
F short		D virtual	
F tag		<b>splitauthor</b>	function
<b>load</b>	function	<b>splitoneauthor</b>	function
<b>loadbibdata</b>	function	<b>statistics</b>	table
<b>loaddefinitionfile</b>	function	N nofbytes	
<b>loaders</b>	table	N nofdatasets	
F bbl		N nofdefinitions	
F bib		N nofshortcuts	
F buffer		<b>tables</b>	table
F endnote		D implicits	
F json		D origins	



D	privates	F	showtables	
D	sets	F	showvariants	
D	specials		<b>typesetters</b>	table
D	types	F	author	
D	virtuals	F	string	
<b>tags</b>			<b>usedataset</b>	function
<b>tracers</b>	function		<b>usedentries</b>	function
	table		<b>writers</b>	table
F	showdatasetauthors		F	author
F	showdatasetcompleteness		F	keyword
F	showdatasetfields		F	pagenumber
F	showentry		F	range
F	showfields			
F	showhashedauthors			

## regimes (context)

<b>backmapping</b>	data table
<b>cleanup</b>	function
<b>disable</b>	function
<b>enable</b>	function
<b>fromregime</b>	function
<b>list</b>	function

<b>mapping</b>	data table
<b>pop</b>	function
<b>process</b>	function
<b>push</b>	function
<b>toregime</b>	function
<b>translate</b>	function

# resolvers (context)

<b>allprefixes</b>	function	<b>findtexfile</b>	function
<b>appendhash</b>	function	<b>findwildcardfile</b>	function
<b>automount</b>	function	<b>findwildcardfiles</b>	function
<b>booleanvariable</b>	function	<b>formatofsuffix</b>	function
<b>cacheversion</b>	string	<b>formatofvariable</b>	function
<b>checkedvariable</b>	function	<b>formats</b>	data table
<b>cleanedpathlist</b>	function	<b>foundintree</b>	function
<b>cleanpath</b>	function	<b>foundintrees</b>	function
<b>cleanpathlist</b>	function	<b>generators</b>	data table
<b>concatinators</b>	data table	<b>get_from_content</b>	function
<b>configbanner</b>	string	<b>getenv</b>	function
<b>configurationfiles</b>	function	<b>getextrapaths</b>	function
<b>dangerous</b>	data table	<b>getfilehashes</b>	function
<b>datastate</b>	function	<b>gethashes</b>	function
<b>defaultsuffixes</b>	table	<b>getownpath</b>	function
<b>dirstatus</b>	function	<b>getreadfilename</b>	function
<b>dowithfilesandreport</b>	function	<b>hashers</b>	data table
<b>dowithfilesintree</b>	function	<b>homedir</b>	string
<b>dowithpath</b>	function	<b>initialized</b>	function
<b>dowithvariable</b>	function	<b>installinputfilehandler</b>	function
<b>executers</b>	table	<b>installinputlinehandler</b>	function
<b>expandbraces</b>	function	<b>jobpath</b>	function
<b>expandedpathfromlist</b>	function	<b>jobs</b>	table
<b>expandedpathlist</b>	function	F currentcomponent	
<b>expandedpathlistfromvariable</b>	function	F currentenvironment	
<b>expandpath</b>	function	F currentproduct	
<b>expandpathfromvariable</b>	function	F currentproject	
<b>expansion</b>	function	F justacomponent	
<b>extendtexmfvariable</b>	function	D processors	
<b>filtered_from_content</b>	function	F productcomponent	
<b>find_file</b>	function	F usefile	
<b>find_files</b>	function	<b>joinpath</b>	function
<b>findbinfile</b>	function	<b>knownvariables</b>	function
<b>findctxfile</b>	function	<b>load</b>	function
<b>finders</b>	data table	<b>loadbinfile</b>	function
<b>findfile</b>	function	<b>loaders</b>	data table
<b>findfiles</b>	function	<b>loadlua lib</b>	function
<b>findgivenfile</b>	function	<b>loadtexfile</b>	function
<b>findgivenfiles</b>	function	<b>loadtime</b>	function
<b>findpath</b>	function	<b>locateformat</b>	function
<b>findpk</b>	function	<b>locators</b>	data table

<b>luacnffallback</b>	string	<b>resolve</b>	function
<b>luacnfname</b>	string	<b>savers</b>	data table
<b>luacnfspec</b>	string	<b>scandata</b>	function
<b>luacnfstate</b>	string	<b>scanfiles</b>	function
<b>macros</b>	table	<b>schemes</b>	table
F convertfile		T cleaners	
F decodecomment		F md5	
F enablecomment		F none	
F encodecomment		F strip	
F preprocessed		F cleanname	
F processmk		F fetchstring	
F processmklx		F fetchtable	
F processmkvi		F install	
F version		<b>setdynamic</b>	function
<b>maxreadlevel</b>	number	<b>setenv</b>	function
<b>methodhandler</b>	function	<b>setmemstream</b>	function
<b>openbinfile</b>	function	<b>showpath</b>	function
<b>openers</b>	data table	<b>simplescanfiles</b>	function
<b>openfile</b>	function	<b>splitconfigurationpath</b>	function
<b>opentexfile</b>	function	<b>splitexpansions</b>	function
<b>ownpath</b>	string	<b>splitmethod</b>	function
<b>popextrapath</b>	function	<b>splitpath</b>	function
<b>popinputname</b>	function	<b>stackpath</b>	function
<b>poppath</b>	function	<b>starttiming</b>	function
<b>prefixes</b>	data table	<b>stoptiming</b>	function
<b>prependhash</b>	function	<b>suffixes</b>	data table
<b>pushextrapath</b>	function	<b>suffixmap</b>	data table
<b>pushinputname</b>	function	<b>suffixofformat</b>	function
<b>pushpath</b>	function	<b>texdatablob</b>	function
<b>registerextrapath</b>	function	<b>toppath</b>	function
<b>registerfile</b>	function	<b>unexpandedpath</b>	function
<b>registerfilehash</b>	function	<b>unexpandedpathlist</b>	function
<b>registerintrees</b>	function	<b>unresolve</b>	function
<b>registermethod</b>	function	<b>updaterelations</b>	function
<b>registerzipfile</b>	function	<b>updatescript</b>	function
<b>relations</b>	data table	<b>uselibrary</b>	function
<b>renew</b>	function	<b>usertypes</b>	data table
<b>renewcache</b>	function	<b>usezipfile</b>	function
<b>repath</b>	function	<b>validatedpath</b>	function
<b>reset</b>	function	<b>variable</b>	function
<b>resetextrapaths</b>	function	<b>variableofformat</b>	function
<b>resetmemstream</b>	function	<b>variableofformatorsuffix</b>	function
<b>resetresolve</b>	function	<b>wildcardpattern</b>	function

## sandbox (context)

<b>disablelibraries</b>	function
<b>disablerunners</b>	function
<b>enable</b>	function
<b>filehandlerone</b>	function
<b>filehandlertwo</b>	function
<b>finalizer</b>	function
<b>getrunner</b>	function
<b>initializer</b>	function
<b>iohandler</b>	function
<b>logcalls</b>	function
<b>logfiles</b>	function
<b>original</b>	function
<b>overload</b>	function

<b>possiblepath</b>	function
<b>redefine</b>	function
<b>register</b>	function
<b>registerbinary</b>	function
<b>registerlibrary</b>	function
<b>registerroot</b>	function
<b>registerrunner</b>	function
<b>report</b>	function
<b>setfilenamelogger</b>	function
<b>setlogger</b>	function
<b>setreporter</b>	function
<b>settrace</b>	function
<b>validfilename</b>	function

# scripts (context)

**autofontfeature**      table

    F disable

    F enable

    F handler

**categorytonumber**   data table

**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

**handlers**            data table

**hash**                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

**numbertocategory**   data table

**numbertodataset**    data table

**numbertohandler**    data table

**reset**                function

**set**                  function

**splitters**           data table

## set (context)

**contains**    function

**create**     function

**tolist**     function

**tonumber**   function

**totable**    function

## sha2 (extra lua)

**HASH256**    function

**HASH384**    function

**HASH512**    function

**digest256** function

**digest384** function

**digest512** function

**hash256**    function

**hash384**    function

**hash512**    function



## sio (extra lua)

<b>read2dot14</b>	function
<b>readbytes</b>	function
<b>readbytetable</b>	function
<b>readcardinal1</b>	function
<b>readcardinal2</b>	function
<b>readcardinal3</b>	function
<b>readcardinal4</b>	function
<b>readcardinaltable</b>	function

<b>readfixed2</b>	function
<b>readfixed4</b>	function
<b>readinteger1</b>	function
<b>readinteger2</b>	function
<b>readinteger3</b>	function
<b>readinteger4</b>	function
<b>readintegertable</b>	function

# socket (extra lua)

<b>BLOCKSIZE</b>	number	S cc
<b>_DATAGRAMSIZE</b>	number	S comments
<b>_DEBUG</b>	boolean	S connection
<b>_SETSIZE</b>	number	S content-description
<b>_SOCKETINVALID</b>	number	S content-disposition
<b>bind</b>	overloaded function	S content-encoding
<b>choose</b>	overloaded function	S content-id
<b>connect</b>	function	S content-language
<b>connect4</b>	overloaded function	S content-length
<b>connect6</b>	overloaded function	S content-location
<b>dns</b>	table	S content-md5
F getaddrinfo		S content-range
F gethostname		S content-transfer-encoding
F getnameinfo		S content-type
F tohostname		S cookie
F toip		S date
<b>ftp</b>	table	S diagnostic-code
S PASSWORD		S dsn-gateway
N TIMEOUT		S etag
S USER		S expect
F command		S expires
F genericform		S final-log-id
F get		S final-recipient
F open		S from
F put		S host
<b>gettime</b>	function	S if-match
<b>headers</b>	overloaded table	S if-modified-since
T canonic		S if-none-match
S accept		S if-range
S accept-charset		S if-unmodified-since
S accept-encoding		S in-reply-to
S accept-language		S keywords
S accept-ranges		S last-attempt-date
S action		S last-modified
S age		S location
S allow		S max-forwards
S alternate-recipient		S message-id
S arrival-date		S mime-version
S authorization		S original-envelope-id
S bcc		S original-recipient
S cache-control		S pragma

S proxy-authenticate	F request	
S proxy-authorization	<b>newtry</b>	function
S range	<b>protect</b>	function
S received	<b>report</b>	function
S received-from-mta	<b>select</b>	function
S references	<b>sink</b>	overloaded function
S referer	<b>sinkt</b>	overloaded table
S remote-mta	F close-when-done	
S reply-to	F default	
S reporting-mta	F http-chunked	
S resent-bcc	F keep-open	
S resent-cc	<b>skip</b>	function
S resent-date	<b>sleep</b>	function
S resent-from	<b>smtip</b>	table
S resent-message-id	S DOMAIN	
S resent-reply-to	N PORT	
S resent-sender	S SERVER	
S resent-to	N TIMEOUT	
S retry-after	S ZONE	
S return-path	F message	
S sender	F open	
S server	F send	
S smtp-remote-recipient	<b>source</b>	overloaded function
S status	<b>sourcet</b>	overloaded table
S subject	F by-length	
S te	F default	
S to	F http-chunked	
S trailer	F until-closed	
S transfer-encoding	<b>tcp</b>	function
S upgrade	<b>tcp4</b>	function
S user-agent	<b>tcp6</b>	function
S vary	<b>tp</b>	overloaded table
S via	N TIMEOUT	
S warning	F connect	
S will-retry-until	<b>try</b>	overloaded function
S www-authenticate	<b>udp</b>	function
S x-mailer	<b>udp4</b>	function
F lower	<b>udp6</b>	function
F normalize	<b>url</b>	overloaded table
<b>http</b>	F absolute	
N TIMEOUT	F build	
S USERAGENT	F build_path	
F genericform	F escape	
F open	F parse	

F parse\_path

F unescape

# sorters (context)

<b>basicsorter</b>	function	B pm	
<b>comparers</b>	table	B uc	
F basic		B zc	
<b>constants</b>	table	B zm	
S defaultdigits		<b>definitions</b>	data table
S defaultlanguage		<b>firstofsplit</b>	function
S defaultmethod		<b>packch</b>	function
N digitmaximum		<b>packuc</b>	function
N digitoffset		<b>replacementlist</b>	function
N ignoredoffset		<b>setlanguage</b>	function
N replacementoffset		<b>sort</b>	function
T validmethods		<b>splitters</b>	table
B ch		F utf	
B mc		<b>strip</b>	function
B mm		<b>tracers</b>	data table
B pc		<b>update</b>	function

## statistics (context)

<b>benchmarktimer</b>	function	<b>memused</b>	function
<b>callbacks</b>	function	<b>register</b>	function
<b>checkfmtstatus</b>	function	<b>resettiming</b>	function
<b>currenttime</b>	function	<b>runtime</b>	function
<b>elapsed</b>	function	<b>savefmtstatus</b>	function
<b>elapsedindeed</b>	function	<b>show</b>	function
<b>elapsedseconds</b>	function	<b>starttiming</b>	function
<b>elapsedtime</b>	function	<b>stoptiming</b>	function
<b>enable</b>	boolean	<b>threshold</b>	number
<b>formatruntime</b>	function	<b>timed</b>	function
<b>hastiming</b>	function	<b>tracefunction</b>	function

## status (basic tex)

**list**                    function

**resetmessages**    function

**setexitcode**        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)

<b>collect</b>	function
<b>disable</b>	function
<b>enable</b>	function
<b>flush</b>	function
<b>initialize</b>	function

<b>push</b>	function
<b>start</b>	function
<b>stop</b>	function
<b>synchronize</b>	function

## string (basic lua)

<b>autodouble</b>	function	<b>packsize</b>	function
<b>autosingle</b>	function	<b>quote</b>	function
<b>booleanstring</b>	function	<b>quoted</b>	function
<b>byte</b>	function	<b>rep</b>	function
<b>bytepairs</b>	function	<b>replacenewlines</b>	function
<b>bytes</b>	function	<b>reverse</b>	function
<b>bytetable</b>	function	<b>split</b>	function
<b>char</b>	function	<b>splitlines</b>	function
<b>characterpairs</b>	function	<b>splitup</b>	function
<b>characters</b>	function	<b>strip</b>	function
<b>checkedsplit</b>	function	<b>sub</b>	function
<b>collapsespaces</b>	function	<b>tformat</b>	function
<b>containsws</b>	function	<b>toHEX</b>	function
<b>count</b>	function	<b>toboollean</b>	function
<b>dump</b>	function	<b>tobytes</b>	function
<b>escapedpattern</b>	function	<b>tocontext</b>	function
<b>escapedquotes</b>	function	<b>todec</b>	function
<b>explode</b>	function	<b>todimen</b>	function
<b>find</b>	function	<b>tohex</b>	function
<b>format</b>	function	<b>tonodes</b>	function
<b>formatter</b>	function	<b>topattern</b>	function
<b>formatters</b>	function	<b>totable</b>	function
<b>fullstrip</b>	function	<b>toutf</b>	function
<b>gmatch</b>	function	<b>tracedchar</b>	function
<b>gsub</b>	function	<b>tracedchars</b>	table
<b>is_boolean</b>	function	<b>unpack</b>	function
<b>is_empty</b>	function	<b>unquote</b>	function
<b>itself</b>	function	<b>unquoted</b>	function
<b>len</b>	function	<b>upper</b>	function
<b>limit</b>	function	<b>utfcharacter</b>	function
<b>longtostring</b>	function	<b>utfcharacters</b>	function
<b>lower</b>	function	<b>utflength</b>	function
<b>match</b>	function	<b>utfpadd</b>	function
<b>nospaces</b>	function	<b>utfpadding</b>	function
<b>nspaces</b>	table	<b>utfvalue</b>	function
<b>optionalquoted</b>	function	<b>utfvalues</b>	function
<b>pack</b>	function	<b>valid</b>	function

# structures (context)

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

F touserdata		F reordered	
<b>inserts</b>	<b>table</b>	T result	
D data		F savedlistnumber	
F define		F savedlistprefixednumber	
F getdata		F savedlisttitle	
F getlocation		D sectionblocks	
F getname		F sectionnumber	
F getnumber		F size	
F setlocation		F title	
F setup		D tobesaved	
D stored		F userdata	
<b>itemgroups</b>	<b>table</b>	F uservalue	
<b>lists</b>	<b>table</b>	<b>marks</b>	<b>table</b>
F addto		D data	
F analyze		F define	
B autoreorder		F exists	
D cached		F fetch	
D collected		F fetchallmarks	
F discard		F fetched	
F enhance		F fetchonemark	
T enhancers		F fetchtwomarks	
F filter		F get	
F formulainumber		F number	
F getresult		F relate	
F groupindex		F reset	
F hasnumberdata		F set	
F haspagedata		F show	
F hastitledata		F synchronize	
F iscached		F title	
D kinds		T tracers	
F label		F showtable	
F location		<b>notes</b>	<b>table</b>
D names		F check_spacing	
F number		F checkpagechange	
D ordered		F define	
F page		F doifonsamepageasprevious	
F popnesting		F get	
F prefix		F getdeltapage	
F prefixednumber		F getinternal	
F prefixedpage		F getn	
F process		F getstate	
D pushed		F hascontent	
F pushnesting		F internal	
F realpage		F internalid	

F listindex		T files
T numbers		T data
F ordered		F define
F postpone		F found
F resetpostponed		F get
F restore		F filter
F save		F filterdefault
F setstate		D filters
D states		D flaginternals
F store		F from
<b>pages</b>	<b>table</b>	D functions
F allmarked		F get
F analyze		F getcurrentmetadata
D collected		F getcurrentprefixspec
F fraction		F getinnermethod
F in_body		F getinternalcachedlistreference
F is_odd		F getinternallistreference
F mark		F getinternalreference
F marked		F getoutermethod
N nopages		D handlers
F number		F identify
F on_right		F import
F save		F inject
D tobesaved		F injectcurrentset
F toranges		S innermethod
<b>references</b>	<b>table</b>	D internals
F analyze		F load
F checkedfile		F loadpresets
F checkedfileorurl		F mark
F checkedprogram		S outermethod
F checkedrealpage		D pages
F checkedurl		U prefixsplitter
D collected		D productdata
U componentsplitter		T programs
F currentmetadata		T data
F currentorder		F define
D currentset		F get
F define		F realpageofpage
D defined		U referencesplitter
D derived		D referred
F enhance		F referredpage
D executers		F registerfinalizer
F expandcurrent		F registerinitializer
F export		F registerpage

- F reset
- D runners
- F set
- F setandgetattribute
- F setcomponent
- F setinternalreference
- F setlinkmethod
- F setnextinternal
- F setnextorder
- F setreferencerealpage
- D specials
- F splitcomponent
- F splitprefix
- F splitreference
- F synchronizepage
- T testrunners
  - F inner
  - F special
  - F special operation
  - F special operation with arguments
- T testspecials
  - F deltapage
  - F i
  - F internal
  - F page
  - F realpage
  - F section
  - F userpage
- D tobereferred
- D tobesaved
- D tracedpages
- T urls
  - T data
  - F define
  - F found
  - F get
  - F untex
- D usedinternals
- D usedviews
- F valid

## registers

- F analyze
- D collected
- F compare

## table

- F define
- F enhance
- F extend
- F filter
- F filtercollected
- F finalize
- F findinternal
- F flush
- F get
- F prepare
- F process
- F setmethod
- F sort
- F store
- D tobesaved
- F unique
- F userdata

## sections

- 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

## table

- F reportstructure
- F save
- T sectionblockdata
  - T bodypart
    - S bookmark
- 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 filter
- F finalize
- F flush
- F isshown
- F isused
- F meaning
- F prepare
- F process
- F register
- F registershown

- F registerused
- F resetshown
- F resetused
- F sort
- F synonym
- D tobesaved

## tags table

- F current
- F elementtag
- F finishexport
- F getextradata
- F getid
- F getmetadata
- F gettablecell
- F gettabulatecell
- F handler
- F initializeexport
- D labels
- F last
- F lastinchain
- F locatedtag
- T patterns
  - U splitter
- D properties
- F registerextradata
- F registermetadata
- F restart
- F setaspect
- F setattributehash
- F setcombination
- F setconstruct
- F setfigure
- F setfloat
- F setformulacontent
- F sethighlight
- F setitem
- F setitemgroup
- F setlist
- F setnotation
- F setnotationsymbol
- F setparagraph
- F setproperty
- F setpublication
- F setregister

F setsorting	D specifications
F setsynonym	F start
F settablecell	F stop
F settabulatecell	F strip
F settagdelimitedsymbol	D taglist
F settagsubsentencesymbol	T usewithcare
F setupexport	T images
F setuserproperties	



## table (basic lua)

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

## tex (basic tex)

<b>attribute</b>	table	<b>getdimen</b>	function
<b>badness</b>	function	<b>getfontoffamily</b>	function
<b>box</b>	table	<b>getglue</b>	function
<b>boxresources</b>	table	<b>getglyphdata</b>	function
F getbox		<b>getlccode</b>	function
F getdimensions		<b>getlist</b>	function
F save		<b>getlocallevel</b>	function
F use		<b>getmath</b>	function
<b>catcode</b>	table	<b>getmathcode</b>	function
<b>conditionals</b>	data table	<b>getmathcodes</b>	function
<b>constants</b>	data table	<b>getmodevalues</b>	function
<b>count</b>	table	<b>getmuglue</b>	function
<b>cprint</b>	function	<b>getmuskip</b>	function
<b>ctdcatcodes</b>	number	<b>getnest</b>	function
<b>ctxcatcodes</b>	number	<b>getpagestate</b>	function
<b>definefont</b>	function	<b>getsfcode</b>	function
<b>delcode</b>	table	<b>getskip</b>	function
<b>dimen</b>	table	<b>gettoks</b>	function
<b>directives</b>	data table	<b>getuccode</b>	function
<b>enableprimitives</b>	function	<b>glue</b>	table
<b>error</b>	function	<b>hashtokens</b>	function
<b>extraprimitives</b>	function	<b>ifs</b>	data table
<b>finish</b>	function	<b>inimatcodes</b>	number
<b>fontidentifier</b>	function	<b>init_rand</b>	function
<b>fontname</b>	function	<b>isattribute</b>	function
<b>force_synctex_line</b>	function	<b>isbox</b>	function
<b>force_synctex_tag</b>	function	<b>iscount</b>	overloaded function
<b>forcehmode</b>	function	<b>isdefined</b>	function
<b>fprint</b>	function	<b>isdimen</b>	overloaded function
<b>get</b>	function	<b>isglue</b>	function
<b>get_synctex_line</b>	function	<b>ismuglue</b>	function
<b>get_synctex_mode</b>	function	<b>ismuskip</b>	overloaded function
<b>get_synctex_tag</b>	function	<b>isskip</b>	overloaded function
<b>getattribute</b>	function	<b>istoken</b>	function
<b>getbox</b>	function	<b>istoks</b>	function
<b>getboxresourcebox</b>	function	<b>lccode</b>	table
<b>getboxresourcedimensions</b>	function	<b>linebreak</b>	function
<b>getcatcode</b>	function	<b>lists</b>	table
<b>getcount</b>	function	<b>lua_math_random</b>	function
<b>getdelcode</b>	function	<b>lua_math_randomseed</b>	function
<b>getdelcodes</b>	function	<b>luacatcodes</b>	number

<b>magicconstants</b>	table	<b>setglyphdata</b>	function
N maxdimen		<b>setlccode</b>	function
N running		<b>setlist</b>	function
N trueinch		<b>setmath</b>	function
<b>mathcode</b>	table	<b>setmathcode</b>	function
<b>modes</b>	data table	<b>setmuglue</b>	function
<b>muglue</b>	table	<b>setmuskip</b>	function
<b>muskip</b>	table	<b>setnest</b>	function
<b>nest</b>	table	<b>setsfcode</b>	function
<b>nilcatcodes</b>	number	<b>setskip</b>	function
<b>normal_rand</b>	function	<b>settoks</b>	function
<b>notcatcodes</b>	number	<b>setuccode</b>	function
<b>number</b>	function	<b>sfcode</b>	table
<b>primitives</b>	function	<b>shipout</b>	function
<b>print</b>	function	<b>show_context</b>	function
<b>prtcacodes</b>	number	<b>skip</b>	table
<b>quittoks</b>	function	<b>sp</b>	function
<b>resetparagraph</b>	function	<b>splitbox</b>	function
<b>romannumeral</b>	function	<b>sprint</b>	function
<b>round</b>	function	<b>systemmodes</b>	data table
<b>run</b>	function	<b>takebox</b>	function
<b>runtoks</b>	function	<b>texcatcodes</b>	number
<b>saveboxresource</b>	function	<b>toks</b>	table
<b>scale</b>	function	<b>tpacatcodes</b>	number
<b>scantoks</b>	function	<b>tpbcatcodes</b>	number
<b>set</b>	function	<b>tprint</b>	function
<b>set_synctex_line</b>	function	<b>trackers</b>	data table
<b>set_synctex_mode</b>	function	<b>triggerbuildpage</b>	function
<b>set_synctex_no_files</b>	function	<b>txtcatcodes</b>	number
<b>set_synctex_tag</b>	function	<b>type</b>	function
<b>setattribute</b>	function	<b>uccode</b>	table
<b>setbox</b>	function	<b>uniform_rand</b>	function
<b>setcatcode</b>	function	<b>uniformdeviate</b>	function
<b>setcount</b>	function	<b>uprint</b>	function
<b>setdelcode</b>	function	<b>useboxresource</b>	function
<b>setdimen</b>	function	<b>vrbcacodes</b>	number
<b>setglue</b>	function	<b>write</b>	function

## texconfig (basic tex)

<b>error_line</b>	number	<b>max_in_open</b>	number
<b>expand_depth</b>	number	<b>max_print_line</b>	number
<b>fix_mem_init</b>	number	<b>max_strings</b>	number
<b>formatname</b>	string	<b>nest_size</b>	number
<b>function_size</b>	number	<b>param_size</b>	number
<b>half_error_line</b>	number	<b>properties_size</b>	number
<b>hash_extra</b>	number	<b>save_size</b>	number
<b>init</b>	overloaded function	<b>shell_escape</b>	string
<b>kpse_init</b>	boolean	<b>stack_size</b>	overloaded number

## texio (basic tex)

**closeinput** function

**setescape** function

**write** function

**write\_nl** function

## token (basic tex)

<b>biggest_char</b>	function	<b>put_next</b>	function
<b>command_id</b>	function	<b>scan_argument</b>	function
<b>commands</b>	function	<b>scan_box</b>	function
<b>create</b>	function	<b>scan_code</b>	function
<b>expand</b>	function	<b>scan_csname</b>	function
<b>get_active</b>	function	<b>scan_dimen</b>	function
<b>get_cmdname</b>	function	<b>scan_float</b>	function
<b>get_command</b>	function	<b>scan_glue</b>	function
<b>get_csname</b>	function	<b>scan_int</b>	function
<b>get_expandable</b>	function	<b>scan_keyword</b>	function
<b>get_id</b>	function	<b>scan_keyword_cs</b>	function
<b>get_index</b>	function	<b>scan_list</b>	function
<b>get_macro</b>	function	<b>scan_real</b>	function
<b>get_meaning</b>	function	<b>scan_string</b>	function
<b>get_mode</b>	function	<b>scan_token</b>	function
<b>get_next</b>	function	<b>scan_toks</b>	function
<b>get_protected</b>	function	<b>scan_word</b>	function
<b>get_tok</b>	function	<b>set_char</b>	function
<b>is_defined</b>	function	<b>set_lua</b>	function
<b>is_token</b>	function	<b>set_macro</b>	function
<b>new</b>	function	<b>type</b>	function

# tokens (context)

<b>astable</b>	function	U loadfoundtypescriptfile
<b>bgroup</b>	userdata	U resetctxscanner
<b>bits</b>	table	U rlap
N active		U scratchcounter
N alignment		U scratchdimen
N begingroup		U scratchmuskip
N character		U scratchskip
N close		U scratchtoken
N comment		U secondoftwoarguments
N endgroup		U setfalsevalue
N endoffline		U setsectionblock
N escape		U setupsystem
N ignore		U startcolumns
N invalid		U starttabulate
N letter		U starttitle
N mathshift		U startxtitle
N open		U stopcolumns
N other		U stoptabulate
N parameter		U stoptitle
N space		U stopxtitle
N subscript		U texsetup
N superscript		U xmlw
N whitespace		
<b>cache</b>	table	<b>collectors</b> table
U NC		T data
U NR		F defaultwords
U bf		F dowithwords
U color		F flush
U colordefalc		F install
U colordefflc		F register
U colordefflt		T registered
U colordefrlt		F show
U dofinishreference		F test
U dostarttext		<b>commands</b> data table
U finishjob		<b>compile</b> function
U firstofoneargument		<b>constant</b> function
U firstoftwoarguments		<b>converters</b> table
U gobbleoneargument		S toboolean
U goto		S todimen
U iftrue		S toglue
U input		S tonumber
		S tostring

**create** function  
**defined** function  
**egroup** userdata  
**getters** table

F box  
 F count  
 F dimen  
 F glue  
 F macro  
 F meaning  
 F skip  
 F token

**hbox** userdata  
**isdefined** function  
**istoken** function  
**letter** function  
**letters** function  
**new** function  
**other** function  
**pickup** function  
**presets** table

T 1 string  
 T 2 strings  
 T 3 strings  
 T 4 strings  
 T 5 strings  
 T 6 strings  
 T 7 strings  
 T 8 strings

**printlist** function  
**scanners** table

F argument  
 F boolean  
 F box  
 F code  
 F conditional  
 F count  
 F csname  
 F dimen  
 F dimension  
 F float  
 F glue  
 F hbox  
 F integer

F keyword  
 F keywordcs  
 F list  
 F lxmld  
 F number  
 F real  
 F scanclose  
 F scanopen  
 F string  
 F table  
 F token  
 F tokens  
 F toks  
 F vbox  
 F verbatim  
 F vtop  
 F whd  
 F word

**setters** table

F box  
 F char  
 F count  
 F dimen  
 F glue  
 F lua  
 F macro  
 F skip

**shortcuts** table

T bits  
 N active  
 N alignment  
 N begingroup  
 N character  
 N close  
 N comment  
 N endgroup  
 N endofline  
 N escape  
 N ignore  
 N invalid  
 N letter  
 N mathshift  
 N open  
 N other



N parameter	F scanopen
N space	F string
N subscript	F table
N superscript	F token
N whitespace	F tokens
N close	F toks
F inspect	F vbox
N open	F verbatim
F report	F vtop
F scanargument	F whd
F scanboolean	F word
F scanbox	F scannumber
F scanclose	F scanopen
F scancode	F scanstring
F scanconditional	F scantable
F scancname	F scanvbox
F scandimen	F scanverbatim
F scandimension	F scanvtop
F scanhbox	F scanword
F scaninteger	F toboolean
F scankeyword	F todimen
F scankeywordcs	T tokens
F scanlist	F astable
T scanners	U bgroup
F argument	T cache
F boolean	U NC
F box	U NR
F code	U bf
F conditional	U color
F count	U colordefalc
F csname	U colordefflc
F dimen	U colordefflt
F dimension	U colordefrlt
F float	U dofinishreference
F glue	U dostarttext
F hbox	U finishjob
F integer	U firstofoneargument
F keyword	U firstoftwoarguments
F keywordcs	U gobbleoneargument
F list	U goto
F lxmld	U iftrue
F number	U input
F real	U loadfoundtypescriptfile
F scanclose	U resetctxscanner

U rlap	F glue
U scratchcounter	F macro
U scratchdimen	F meaning
U scratchmuskip	F skip
U scratchskip	F token
U scratchtoken	U hbox
U secondoftwoarguments	F isdefined
U setfalsevalue	F istoken
U setsectionblock	F letter
U setupsystem	F letters
U startcolumns	F new
U starttabulate	F other
U starttitle	F pickup
U startxtitle	T presets
U stopcolumns	F printlist
U stoptabulate	T setters
U stoptitle	F box
U stopxtitle	F char
U texsetup	F count
U xmlw	F dimen
T collectors	F glue
F defaultwords	F lua
F dowithwords	F macro
F flush	F skip
F install	T shortcuts
F register	N close
F show	F inspect
F test	N open
D commands	F report
F compile	F scanargument
F constant	F scanboolean
T converters	F scanbox
S toboolean	F scanclose
S todimen	F scancode
S toglue	F scanconditional
S tonumber	F scansname
S tostring	F scandimen
F create	F scandimension
F defined	F scanhbox
U egroup	F scaninteger
T getters	F scankeyword
F box	F scankeywordcs
F count	F scanlist
F dimen	F scannumber

F scanopen	F tonumber	
F scanstring	F tostring	
F scantable	U vbox	
F scanvbox	U vtop	
F scanverbatim	F tonumber	
F scanvtop	F tostring	
F scanword	<b>vbox</b>	userdata
F toboolean	<b>vtop</b>	userdata
F todimen		

# tracers (context)

<b>count</b>	function	<b>primitive</b>	function
<b>cs</b>	function	<b>printerror</b>	function
<b>dimen</b>	function	<b>printwarning</b>	function
<b>knownlist</b>	function	<b>showlines</b>	function
<b>lists</b>	table	<b>strings</b>	table
T context		S undefined	
T internals		<b>toks</b>	function
T scratch		<b>type</b>	function
<b>name</b>	function		

## trackers (context)

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

# typesetters (context)

## **alignments** table

F handler  
F set

## **breakpoints** table

F define  
F handler  
D mapping  
T methods  
T numbers  
F set  
F setreplacement

## **cases** table

T actions  
F handler  
F register  
F set

## **characteralign** table

F handler  
F resetcharacteralign  
F setcharacteralign

## **characters** table

F handler  
T methods  
F replacensp  
F replacenspaces

## **checkers** table

F handler  
F reset  
F set

## **cleaners** table

F handler  
F set

## **digits** table

T actions  
F handler  
F set

## **directions** table

F getfences  
F getglobal  
F getmethod  
F handler

T handlers  
F installhandler  
F processmath  
F set  
F setcolor  
F setmath  
F tomode

## **firstlines** table

T actions  
F default  
F line  
F word  
F handler  
F set

## **fontkerns** table

F handler

## **initials** table

T actions  
F default  
F addanchortoline  
F addtoline  
F calculatedelta  
F checkline  
F handler  
F moveinline  
F normalize  
F set

## **injectors** table

F check  
T list  
F mark  
F reset  
F set  
F show

## **italics** table

F enablemath  
F enabletext  
F forcevariant  
F handler  
F reset  
F set

## **kerns**                      table

D factors  
F handler  
F keepligature  
D mapping  
F set

## **manipulators**            table

F apply  
F applyspecification  
T methods  
F Word  
F Words  
F abbreviatedjournal  
F expandedjournal  
F lowercase  
F stripperperiod  
F uppercase  
T patterns  
U list  
U pair  
F splitspecification

## **margins**                      table

F finalhandler  
F globalhandler  
F localhandler  
F save

## **marksuspects**            function

## **paragraphs**              table

F addanchortoline  
F addtoline  
F calculatedelta  
F checkline  
F handler  
F moveinline  
F normalize  
F set

## **periodkerns**            table

D factors  
F handler  
D mapping  
F set

## **processors**                table

F apply  
F register  
F reset  
F split  
F startapply  
F stopapply  
F stripped  
F toString

## **rubies**                      table

F attach  
F check

## **showsuspects**            function

## **spacings**                      table

F define  
F handler  
D mapping  
T numbers  
T frenchpunctuation  
T characters  
S name  
N number

F reset

F set

F setup

## **wrappers**                      table

F handler

## **xtables**                      table

F cleanup  
F construct  
F create  
F finish\_row  
F flush  
F initialize\_construct  
F initialize\_reflow\_height  
F initialize\_reflow\_width  
F next\_row  
F reflow\_height  
F reflow\_width  
F set\_construct  
F set\_reflow\_height  
F set\_reflow\_width

## updaters (context)

**apply**      function  
**register**   function



## url (context)

<b>addscheme</b>	function
<b>barepath</b>	function
<b>construct</b>	function
<b>decode</b>	function
<b>encode</b>	function
<b>escape</b>	function
<b>filename</b>	function

<b>hashed</b>	function
<b>hasscheme</b>	function
<b>query</b>	function
<b>split</b>	function
<b>toquery</b>	function
<b>unescape</b>	function
<b>unescapeget</b>	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 readcardinal2  
F readcardinal2le  
F readcardinal3  
F readcardinal3le  
F readcardinal4  
F readcardinal4le  
F readcardinaltable  
F readchar  
F readfixed2  
F readfixed4  
F readinteger  
F readinteger1  
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 writecardinal2  
F writecardinal2le  
F writecardinal4  
F writecardinal4le  
F writestring

## **formatters**                      table

F formatcolumns  
F list  
F stripzeros

## **garbagecollector**      table

F check  
N criterium  
B enabled

## **lua**                                      table

B alwaysstripcode  
F checkmemory  
F compile  
F loadedluacode  
F loadstring  
F loadstripped  
N nofstrippedbytes  
N nofstrippedchunks  
F registerfinalizer  
B stripcode  
T strippedchunks  
F strippedloadstring  
T suffixes  
S lua  
S luc  
S lui  
S luj  
S luv  
S tma  
S tmc  
S tua

S	tuc	B	latin-modern-condensed-designsize
<b>packers</b>	<b>table</b>	B	latin-modern-light-condensed
F	hashed	B	modern-condensed
F	new	B	modern-light-condensed
F	pack	T	modern-light,latin-modern-light-designsize,latin-modern-light-condensed
F	simplehashed	B	latin-modern-light
F	strip	B	latin-modern-light-designsize
F	unpack	B	modern-light
N	version	T	modern-mono,modern-base-mono
<b>parsers</b>	<b>table</b>	B	modern-base-mono
F	add_settings_to_array	B	modern-mono
F	arguments_to_table	T	modern-variable,latin-modern-variable-designsize,latin-modern-variable-light
F	array_to_string	B	latin-modern-variable
F	csvsplitter	B	latin-modern-variable-designsize
F	getparameters	B	modern-variable
F	groupedsplitat	T	modernvariable,modern-variable
F	hash_to_string	B	modern-variable
T	hashes	B	modernvariable
T	settings_to_set	T	modernvariablelight,modern-variable-light
T	min,max,fit,broad,auto	B	modern-variable-light
B	auto	B	modernvariablelight
B	broad	T	serif,sans,mono
B	fit	B	mono
B	max	B	sans
B	min	B	serif
T	modern,latin-modern	T	text,hidden,paper,page,leftpage,rightpage
B	latin-modern	B	hidden
B	modern	B	leftpage
T	modern,latin-modern,modern-variable,latin-modern-variable,modern-variable-light	B	modern-condensed,latin-modern-condensed
B	latin-modern	B	paper
B	latin-modern-condensed	B	rightpage
B	latin-modern-variable	B	text
B	modern	F	iterator
B	modern-condensed	F	keq_to_hash
B	modern-variable	F	listitem
T	modern,latin-modern-designsize,latin-modern	F	make_settings_to_hash_pattern
B	latin-modern	F	mergehashes
B	latin-modern-designsize	F	options_to_array
B	modern	F	options_to_hash
T	modern,modern-base	T	patterns
B	modern	U	settings_to_array
B	modern-base	U	settings_to_hash_a
T	modern-condensed,latin-modern-condensed-designsize,latin-modern-condensed	U	settings_to_hash_b
B	latin-modern-condensed	U	settings_to_hash_c

- U settings\_to\_hash\_d
- U unittotex
- 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 unittotxml

## randomizer table

- F get
- F getnumber
- F getseed
- F popseed
- F pushseed
- F reuseseed
- F setseed
- F setseedi

## report function

## 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 replaceaction
- F setkind
- F tostring

## setters table

- F disable
- F enable
- F initialize
- F list
- F new
- F register
- F report
- F reset
- F show

## stacker table

- F new

## storage table

- F allocate
- F checked
- F mark
- F marked
- F setinitializer
- F sparse

## streams table

- F close
- F getposition
- F getsizes
- F getstring
- F look
- F open
- F openstring
- F read2dot14
- F read2dot4
- F readbyte
- F readbytes
- F readbytetable
- F readcardinal
- F readcardinal1
- F readcardinal2
- F readcardinal2le
- F readcardinal3
- F readcardinal3le

- F readcardinal4
- F readcardinal4le
- F readcardinaltable
- F readchar
- F readfixed2
- F readfixed4
- F readinteger
- F readinteger1
- F readinteger2
- F readinteger2le
- F readinteger3
- F readinteger3le
- F readinteger4
- F readinteger4le
- F readintegertable
- F readsignedbyte
- F readstring
- F setposition
- F size
- F skip
- F skipbytes
- F skiplong
- F skipshort

## strings table

- F collapse
- F collapsecrlf
- T formatters
  - F add
  - F new
- F newcollector

- F newrepeater
- F nice
- T striplinepatterns
  - U collapse
  - U prune
  - U prune and collapse
  - U prune and no empty
  - U prune and to space
  - U retain
  - U retain and collapse
  - U retain and no empty
- F striplines
- F striplong
- F tabtospace
- T tracers

## tables table

- F accesstable
- F definedtable
- F definetable
- F encapsulate
- F insertaftervalue
- F insertbeforevalue
- F migratetable
- F removevalue
- F replacevalue

## templates table

- F load
- F replace
- F replacer
- F resolve

## vf (context)

<b>char</b>	function
<b>down</b>	function
<b>fontid</b>	function
<b>image</b>	function
<b>node</b>	function
<b>nop</b>	function

<b>pdf</b>	function
<b>pop</b>	function
<b>push</b>	function
<b>right</b>	function
<b>rule</b>	function
<b>special</b>	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		



# xml (context)

<b>addentitiesdoctype</b>	function	F fontspecification	
<b>addspecialcode</b>	function	F mappedstylevalue	
<b>after</b>	function	F padding	
<b>all</b>	function	F size	
<b>applylpath</b>	function	F style	
<b>applyselector</b>	function	F stylevalue	
<b>assign</b>	function	F todimension	
<b>attribute</b>	function	F variant	
<b>badinclusions</b>	function	F weight	
<b>before</b>	function	<b>defaulthandlers</b>	table
<b>body</b>	function	D file	
<b>builtinentities</b>	table	D parsedxml	
B amp		D string	
B apos		D tex	
B gt		D texline	
B lt		D texspace	
B quot		D verbose	
<b>cdata</b>	function	<b>defaultprotocol</b>	string
<b>cdatatotext</b>	function	<b>delete</b>	function
<b>checkbom</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>expressions</b>	table
<b>content</b>	function	F attribute	
<b>convert</b>	function	F boolean	
<b>copy</b>	function	F child	
<b>count</b>	function	F contains	
<b>cprint</b>	function	F count	
<b>css</b>	table	F error	
F applyselector		F find	
F colorspecification		F hasclass	
F dimension		F idstring	
F family		F lower	

F name	F xml	
F number	T xml	
F oneof	F all	
F print	F att	
F quit	F attribute	
F tag	F attributes	
F text	F cdata	
F undefined	F chainattribute	
F upper	F count	
<b>fillin</b>	F default	function
<b>filter</b>	F elements	function
<b>finalizers</b>	F empty	table
F paragraphs	F first	
T tex	F function	
F all	F index	
F attribute	F last	
F chainattribute	F lowerall	
F chainpath	F match	
F command	F name	
F concat	F position	
F concatrange	F reverse	
F context	F table	
F count	F tag	
F ctxtext	F tags	
F default	F text	
F first	F texts	
F function	F upperall	
F index	<b>first</b>	function
F last	<b>found</b>	function
F lettered	<b>functions</b>	table
F lower	F classes	
F lowerall	F hasclass	
F match	<b>getbuffer</b>	function
F name	<b>gethandlers</b>	function
F param	<b>gethandlersfunction</b>	function
F parameter	<b>helpers</b>	table
F position	F recursetext	
F reverse	<b>include</b>	function
F stripped	<b>inclusion</b>	function
F tag	<b>inclusions</b>	function
F tags	<b>index</b>	function
F text	<b>inheritattributes</b>	function
F upper	<b>inheritedconvert</b>	function
F upperall	<b>inject</b>	function

<b>inject_element</b>	function	<b>process_attributes</b>	function
<b>inject_element_after</b>	function	<b>process_elements</b>	function
<b>inject_element_before</b>	function	<b>processattributes</b>	function
<b>injectafter</b>	function	<b>profiled</b>	table
<b>injectbefore</b>	function	<b>pure</b>	function
<b>insert</b>	function	<b>pushmatch</b>	function
<b>insert_element</b>	function	<b>raw</b>	function
<b>insert_element_after</b>	function	<b>registerentity</b>	function
<b>insert_element_before</b>	function	<b>registerns</b>	function
<b>insertafter</b>	function	<b>reindex</b>	function
<b>insertbefore</b>	function	<b>remap_name</b>	function
<b>insertcdata</b>	function	<b>remap_namespace</b>	function
<b>insertcomment</b>	function	<b>remap_tag</b>	function
<b>inspect</b>	function	<b>remapname</b>	function
<b>is_valid</b>	function	<b>remapnamespace</b>	function
<b>kind</b>	function	<b>remaptag</b>	function
<b>last</b>	function	<b>rename</b>	function
<b>lastmatch</b>	function	<b>renamespace</b>	function
<b>load</b>	function	<b>reparsedentitylpeg</b>	userdata
<b>lpath</b>	function	<b>replace</b>	function
<b>lpathcached</b>	function	<b>replace_element</b>	function
<b>lpathcalls</b>	function	<b>resetinjectors</b>	function
<b>lshow</b>	function	<b>resolvns</b>	function
<b>makestandalone</b>	function	<b>root</b>	function
<b>match</b>	function	<b>save</b>	function
<b>name</b>	function	<b>selection</b>	function
<b>newhandlers</b>	function	<b>separate</b>	function
<b>nodesettostring</b>	function	<b>serialize</b>	function
<b>originalload</b>	function	<b>serializetotext</b>	function
<b>package</b>	function	<b>setcdata</b>	function
<b>parent</b>	function	<b>setcomment</b>	function
<b>parsedentitylpeg</b>	userdata	<b>sethandlersfunction</b>	function
<b>pihandlers</b>	table	<b>setinjectors</b>	function
F injector		<b>setproperty</b>	function
F tex		<b>settings</b>	function
<b>placeholders</b>	table	<b>specialcodes</b>	table
F unknown_any_entity		S "	
F unknown_dec_entity		S #	
F unknown_hex_entity		S \$	
<b>popmatch</b>	function	S %	
<b>position</b>	function	S &	
<b>privatecodes</b>	table	S '	
<b>privatetoken</b>	function	S <	
<b>process</b>	function	S >	

<code>s \</code>		<code>tocdata</code>	function
<code>s {</code>		<code>toelement</code>	function
<code>s  </code>		<code>tostring</code>	function
<code>s }</code>		<code>totable</code>	function
<code>s ~</code>		<code>toxml</code>	function
<code>specialhandler</code>	table	<code>tprint</code>	function
<code>sprint</code>	function	<code>traverse</code>	function
<code>string</code>	function	<code>unescaped</code>	function
<code>strip</code>	function	<code>unescapedentitylpeg</code>	userdata
<code>strip_whitespace</code>	function	<code>unprivatized</code>	function
<code>stripelement</code>	function	<code>unspecialized</code>	function
<code>stripleadingspaces</code>	function	<code>withelement</code>	function
<code>table</code>	function	<code>withelements</code>	function
<code>text</code>	function	<code>wrap</code>	function
<code>textonly</code>	function	<code>xmlns</code>	table
<code>texttocdata</code>	function		

## xzip (extra lua)

<b>adler32</b>	function
<b>compress</b>	function
<b>compressobj</b>	function
<b>crc32</b>	function

<b>decompress</b>	function
<b>decompressobj</b>	function
<b>version</b>	function

## zip (extra lua)

**archives**

table

**close**

function

**closearchive**

function

**open**

overloaded function

**openarchive**

function

**openfile**

function

**registeredfiles**

table

**type**

function

## zlib (extra lua)

<b>adler32</b>	function
<b>compress</b>	function
<b>compressobj</b>	function
<b>crc32</b>	function

<b>decompress</b>	function
<b>decompressobj</b>	function
<b>version</b>	function