

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

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

# global (alias: \_G)

MP	table	floats	table
_LUAVERSION	number	font	table
_MAJORVERSION	number	fontloader	table
_MINORVERSION	number	fonts	table
arg	table	frozen	boolean
assert	function	functions	table
attributes	table	gcinfo	function
backends	table	getfenv	function
bit	table	getmetatable	function
bit32	table	getpos	function
blobs	table	getvpos	function
boolean	table	global	table
buffers	table	graphics	table
builders	table	gsubfeatures	table
caches	table	gzip	table
callback	table	img	table
callbacks	table	inspect	function
catcodes	table	interactions	table
chained_contextchain	function	interfaces	table
characters	table	io	table
chemistry	table	ipairs	function
collectgarbage	function	jit	table
commands	table	job	table
containers	table	lang	table
context	function	languages	table
converters	table	layouts	table
coroutine	table	lfs	table
ctxrunner	table	libraries	table
debug	table	lmx	table
dimen	function	load	function
dir	table	loadfile	function
directives	table	loadstring	function
document	table	logs	table
documentdata	table	lpdf	table
dofile	function	lpeg	table
environment	table	ltn12	table
epdf	table	lua	table
error	function	luatex	table
experiments	table	lxml	table
figures	table	m	string
file	table	math	table

mathematics	table	setinspector	function
mbox	table	setmetatable	function
md5	table	socket	table
metapost	table	sorters	table
mime	table	statistics	table
module	function	status	table
moduledata	table	storage	table
modules	table	streams	table
mp	table	string	table
mplib	table	structures	table
newproxy	function	swiglib	function
next	function	table	table
noads	table	tex	table
node	table	texconfig	table
nodes	table	texio	table
number	table	thirddata	table
objects	table	toboollean	function
oldtoken	number	tokens	table
optionalrequire	function	tonumber	function
os	table	tostring	function
package	table	tracers	table
pagebuilders	table	trackers	table
pairs	function	type	function
parametersets	table	typesetters	table
pcall	function	unicode	table
pdf	table	unpack	function
pdfscanner	table	url	table
physics	table	userdata	table
print	function	utf	table
profiler	table	utilities	table
publications	table	vf	table
rawequal	function	visualizers	table
rawget	function	xml	table
rawlen	function	xpcall	function
rawset	function	zip	table
regimes	table	zlib	table
require	function		
resolvers	table		
resolvestoredfunction	function		
sandbox	table		
scripts	table		
select	function		
set	table		
setfenv	function		

# attributes (context)

## colorintents table

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

## colors table

- N attribute
- F cmyk
- F cmyktogray
- F cmyktorgb
- F colorcomponents
- B couple
- D data
- N default
- F defineintermediatecolor
- F definemultitonecolor
- F defineprocesscolor
- F definesimplegray
- F definespotcolor
- F definetransparency
- F enable
- F filter
- F forcedmodel
- F forcesupport
- F formatcolor
- F formatgray
- F getpagecolormodel
- F gray
- F graytohsb
- F handler
- F hstogray
- F hstorgb
- F iccprofile
- F isblack
- N main
- S model
- D models
- F mpcolor
- F mpnamedcolor

- F moptions
- U none
- F popset
- F processcolorcomponents
- F pushset
- F register
- D registered
- F registerspotcolor
- F rgb
- F rgbtocmyk
- F rgbtorgb
- F rgbtohsb
- N selector
- F setlist
- F setmodel
- F setpagecolormodel
- D sets
- F spec
- F spot
- F spotcolorname
- F spotcolorparent
- F spotcolorvalue
- B supported
- F transparencycomponents
- B triggering
- F usecolors
- F value
- D values
- B weightgray

define

effects

function

table

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

handlers

list

names

table

data table

data table

<b>negatives</b>	table	F definedlayoutcomponent
N attribute		F enable
D data		F forcesupport
F enable		F handler
F handler		B hasorder
F register		D listwise
D registered		F register
F set		D registered
<b>numbers</b>	data table	F resolve_begin
<b>ofnode</b>	function	F resolve_end
<b>private</b>	function	F resolve_reset
<b>public</b>	function	F resolve_step
<b>restore</b>	function	D scopes
<b>save</b>	function	F setfeatures
<b>showcurrent</b>	function	F start
<b>states</b>	table	F stop
F disabletriggering		B supported
F enabletriggering		D values
F finalize		
F initialize		
F process		
F selective		
F stacked		
F stacker		
<b>system</b>	function	
<b>transparencies</b>	table	
N attribute		
D data		
F enable		
F forcesupport		
F handler		
U none		
F register		
D registered		
B supported		
B triggering		
F value		
D values		
<b>unsetvalue</b>	number	
<b>viewerlayers</b>	table	
N attribute		
F cleanup		
D data		
F define		

# backends (context)

## **codeinjections** table

F boxresourcedimensions  
F registerboxresource  
F restoreboxresource

## **current** string

## **defaults** table

T codeinjections  
F gethpos  
F getmatrix  
F getpos  
F getvpos  
F hasmatrix  
T nodeinjections  
T registrations  
D tables

## **install** function

## **nodeinjections** table

F restore  
F save  
F transform

## **nothing** function

## **pdf** table

T codeinjections  
F addbookmarks  
F attachmentid  
F clonefield  
F definefield  
F definefieldset  
F defineviewerlayer  
F embedfile  
F enabletags  
F exportformdata  
F getbookmarks  
F getdefaultfieldvalue  
F getfieldcategory  
F getfieldset  
F getformatoption  
F gethpos  
F getmatrix  
F getoutputfilename  
F getpos

F getpreviewfigure  
F getvpos  
F hasmatrix  
F insertrenderingwindow  
F mergebookmarks  
F mergereferences  
F mergeviewerlayers  
F prerollreference  
F presetsymbol  
F presetsymbollist  
F processrendering  
F registerdocumentcloseaction  
F registerdocumentopenaction  
F registeredsymbol  
F registerpagecloseaction  
F registerpageopenaction  
F registersymbol  
F setfieldcalculationset  
F setfigurealternative  
F setfigurecolorspace  
F setfiguremask  
F setformat  
F setformsmethod  
F setpagetransition  
F setupcanvas  
F setupidentity  
F setxmpfile  
F startlayer  
F startunicodetoactualtext  
F stoplayer  
F stopunicodetoactualtext  
F supportedformats  
F unicodetoactualtext  
F useviewerlayer  
F validfield  
F validfieldcategory  
F validfieldset  
S comment  
T nodeinjections  
F addtags  
F annotation

- F attachfile
- F changestackedlayer
- F cmykcolor
- F comment
- F destination
- F effect
- F graycolor
- F injectbitmap
- F insertmovie
- F insertsound
- F insertswf
- F insertu3d
- F knockout
- F negative
- F overprint
- F positive
- F reference
- F rgbcolor
- F spotcolor
- F startlayer
- F startstackedlayer
- F stoplayer
- F stopstackedlayer
- F transparency
- F typesetfield
- T registrations
  - F cmykindexcolor
  - F cmykspotcolor
  - F getspotcolorreference
  - F grayindexcolor
  - F grayspotcolor
  - F rgbindexcolor
  - F rgbspotcolor
  - F spotcolorname
  - F transparency
- T tables
  - D vfspecials

**registrations**      table

**tables**              table

## bit (context)

<b>arshift</b>	function
<b>band</b>	function
<b>bnot</b>	function
<b>bor</b>	function
<b>bswap</b>	function
<b>bxor</b>	function
<b>lshift</b>	function
<b>rol</b>	function
<b>ror</b>	function
<b>rshift</b>	function
<b>tobit</b>	function
<b>tohex</b>	function



## bit32 (basic lua)

<b>arshift</b>	function
<b>band</b>	function
<b>bnot</b>	function
<b>bor</b>	function
<b>btest</b>	function
<b>bxor</b>	function
<b>extract</b>	function
<b>lrotate</b>	function
<b>lshift</b>	function
<b>replace</b>	function
<b>rrotate</b>	function
<b>rshift</b>	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>assign</b>	function
<b>collectcontent</b>	function
<b>erase</b>	function
<b>exists</b>	function
<b>getcontent</b>	function
<b>getlines</b>	function
<b>loadcontent</b>	function
<b>parallel</b>	table
F define	
F hassomecontent	
F next	
F place	
F reset	
F save	
<b>prepend</b>	function
<b>raw</b>	function
<b>undent</b>	function

# builders (context)

## kernel table

- F hyphenation
- F kerning
- F ligaturing
- F mlist\_to\_hlist
- T originals
  - F hyphenate
  - F kerning
  - F ligaturing

## paragraphs table

- T constructors
  - N attribute
  - F define
  - F disable
  - F enable
  - F handler
  - T methods
    - F basic
    - F default
    - F hpack
    - F oneline
  - D names
  - D numbers
  - F set
  - F start
  - F stop
- T expansion
  - F trace
- F kepttogether
- F registertogether
- T solutions
  - T splitters
    - F define
    - F optimize
  - T registered
    - F reset
    - F set
    - F split
    - F start
    - F stop
- F tag

## profiling table

- F add
- F distance
- F fixedprofile
- F get
- F list
- F pagehandler
- F profilebox
- F set

## vsparing table

- F analyze
- D categories
- F collapsevbox
- T data
  - D map
  - D skip
  - D snapmethods
- F definesnapmethod
- B fixed
- F pagehandler
- F resetprevdepth
- F setmap
- F setskip
- F snapbox
- F tocategories
- F tocategory
- F vboxhandler

## cache (context)

<b>ask</b>	boolean
<b>base</b>	string
<b>collapsecontent</b>	function
<b>configfiles</b>	function
<b>contentstate</b>	function
<b>defaults</b>	table
<b>define</b>	function
<b>direct</b>	boolean
<b>force</b>	boolean
<b>getfirstreadablefile</b>	function
<b>getfirstreadablefile_TEST_ME_FIRST</b>	function
<b>getreadablepaths</b>	function
<b>getwritablepath</b>	function
<b>hashed</b>	function
<b>is_writable</b>	function
<b>loadcontent</b>	function
<b>loaddata</b>	function
<b>more</b>	string
<b>relocate</b>	boolean
<b>savecontent</b>	function
<b>savedata</b>	function
<b>setfirstwritablefile</b>	function
<b>setluanames</b>	function
<b>tree</b>	string
<b>treehash</b>	function
<b>usedpaths</b>	function

## callback (basic tex)

<b>find</b>	function
<b>list</b>	function
<b>register</b>	overloaded function

## callbacks (context)

<b>freeze</b>	function
<b>known</b>	function
<b>list</b>	data table
<b>pop</b>	function
<b>push</b>	function
<b>register</b>	function
<b>report</b>	function



## catcodes (context)

**names** data table

**numbers** data table

**register** function

# characters (context)

<b>activeoffset</b>	<b>number</b>	<b>lhash</b>	<b>data table</b>
<b>adobename</b>	<b>function</b>	<b>linebreaks</b>	<b>table</b>
<b>bidirectional</b>	data table	S ai	
<b>blockrange</b>	function	S al	
<b>blocks</b>	data table	S b2	
<b>casemap</b>	table	S ba	
<b>categories</b>	data table	S bb	
<b>category</b>	function	S bk	
<b>categorytags</b>	data table	S cb	
<b>collapsed</b>	data table	S cj	
<b>combined</b>	data table	S cl	
<b>contextname</b>	function	S cm	
<b>csletters</b>	data table	S cp	
<b>data</b>	data table	S cr	
<b>decomposed</b>	data table	S ex	
<b>description</b>	function	S gl	
<b>descriptions</b>	data table	S h2	
<b>detailltags</b>	data table	S h3	
<b>directions</b>	table	S hl	
<b>encodes</b>	data table	S hy	
<b>entities</b>	data table	S id	
<b>fallbacks</b>	data table	S in	
<b>filters</b>	data table	S is	
<b>fractions</b>	table	S jl	
<b>fromnumber</b>	function	S jt	
<b>fschars</b>	data table	S jv	
<b>fscodes</b>	data table	S lf	
<b>getrange</b>	function	S nl	
<b>graphemes</b>	data table	S ns	
<b>hangul</b>	data table	S nu	
<b>initialize</b>	function	S op	
<b>is_character</b>	data table	S po	
<b>is_command</b>	data table	S pr	
<b>is_letter</b>	data table	S qu	
<b>is_mark</b>	data table	S ri	
<b>is_punctuation</b>	data table	S sa	
<b>is_spacing</b>	data table	S sg	
<b>lcchars</b>	data table	S sp	
<b>lccode</b>	function	S sy	
<b>lccodes</b>	data table	S wj	
<b>lettered</b>	function	S xx	

S zw	
<b>lower</b>	function
<b>math</b>	table
<b>mathpairs</b>	data table
<b>mirrors</b>	table
<b>otfscripts</b>	data table
<b>ranges</b>	data table
<b>registerentities</b>	function
<b>remap_hangul_syllable</b>	function
<b>setactivecatcodes</b>	function
<b>setlettercatcodes</b>	function
<b>shape</b>	function
<b>shaped</b>	function
<b>shash</b>	data table
<b>shchars</b>	data table
<b>shcodes</b>	data table
<b>showstring</b>	function
<b>specialchars</b>	data table
<b>specials</b>	data table
<b>splits</b>	table
T char	
T compat	
<b>subscripts</b>	table
<b>superscripts</b>	table
<b>synonyms</b>	data table
<b>tex</b>	table
D accentmapping	
D commandmapping	
F defineaccents	
F safechar	
F toutf	
F toutfpattern	
<b>textclasses</b>	table
<b>tonumber</b>	function
<b>ucchars</b>	data table
<b>uccode</b>	function
<b>uccodes</b>	data table
<b>uhash</b>	data table
<b>unicodechar</b>	function
<b>upper</b>	function

## chemistry (context)

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

## containers (context)

<b>cleannname</b>	function
<b>content</b>	function
<b>define</b>	function
<b>is_usable</b>	function
<b>is_valid</b>	function
<b>read</b>	function
<b>usecache</b>	boolean
<b>write</b>	function

## converters (context)

<b>A</b>	function	<b>lower</b>	function
<b>AK</b>	function	<b>maxchrs</b>	function
<b>Alphabetic</b>	function	<b>minute</b>	function
<b>Character</b>	function	<b>month</b>	function
<b>Characters</b>	function	<b>nicenumber</b>	function
<b>Characters:es</b>	function	<b>nofdays</b>	function
<b>I</b>	function	<b>number</b>	function
<b>KA</b>	function	<b>numbers</b>	function
<b>KR</b>	function	<b>octnumber</b>	function
<b>R</b>	function	<b>octstringtonumber</b>	function
<b>RK</b>	function	<b>ordinal</b>	function
<b>Romannumerals</b>	function	<b>r</b>	function
<b>Sloviannumerals</b>	function	<b>rawcharacter</b>	function
<b>Spanishnumerals</b>	function	<b>romannumerals</b>	function
<b>Word</b>	function	<b>second</b>	function
<b>Words</b>	function	<b>sequences</b>	data table
<b>a</b>	function	<b>sloviannumerals</b>	function
<b>abjadnodotnumerals</b>	function	<b>spanishnumerals</b>	function
<b>abjadnumerals</b>	function	<b>textime</b>	function
<b>alphabetic</b>	function	<b>toabjad</b>	function
<b>character</b>	function	<b>tochinese</b>	function
<b>characters</b>	function	<b>toroman</b>	function
<b>characters:es</b>	function	<b>uchexnumber</b>	function
<b>chineseallnumerals</b>	function	<b>uchexnumbers</b>	function
<b>chinesecapnumerals</b>	function	<b>upper</b>	function
<b>chinesenumerals</b>	function	<b>verbose</b>	table
<b>chr</b>	function	<b>D data</b>	
<b>chrs</b>	function	<b>F translate</b>	
<b>cn</b>	function	<b>weekday</b>	function
<b>cn-a</b>	function	<b>word</b>	function
<b>cn-c</b>	function	<b>words</b>	function
<b>convert</b>	function	<b>year</b>	function
<b>decimals</b>	function		
<b>define</b>	function		
<b>hexstringtonumber</b>	function		
<b>hour</b>	function		
<b>i</b>	function		
<b>isleapyear</b>	function		
<b>lchexnumber</b>	function		
<b>lchexnumbers</b>	function		
<b>leapyear</b>	function		

## coroutine (basic lua)

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



## debug (basic lua)

<b>debug</b>	function
<b>getfenv</b>	function
<b>gethook</b>	function
<b>getinfo</b>	function
<b>getlocal</b>	function
<b>getmetatable</b>	function
<b>getregistry</b>	function
<b>getupvalue</b>	function
<b>getuservalue</b>	function
<b>setfenv</b>	function
<b>sethook</b>	function
<b>setlocal</b>	function
<b>setmetatable</b>	function
<b>setupvalue</b>	function
<b>setuservalue</b>	function
<b>traceback</b>	function
<b>upvalueid</b>	function
<b>upvaluejoin</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>globfiles</b>	function
<b>globpattern</b>	function
<b>ls</b>	function
<b>makedirs</b>	function
<b>makedirs</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
<b>files</b>	table
<b>getargument</b>	function
<b>getfilename</b>	function
<b>options</b>	table
T cmdline	
D environments	
D modes	
D modules	
T ctxfile	
D environments	
D modes	
D modules	
<b>setargument</b>	function
<b>setcommandline</b>	function
<b>setdefaultargument</b>	function
<b>setenvironments</b>	function
<b>setfilename</b>	function
<b>setfilenames</b>	function
<b>setmodes</b>	function
<b>setmodules</b>	function
<b>variables</b>	data table

## environment (context)

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

## epdf (extra tex)

<b>Array</b>	function
<b>Attribute</b>	function
<b>AttributeOwner_Type</b>	function
<b>Attribute_Type</b>	function
<b>Dict</b>	function
<b>Object</b>	function
<b>PDFRectangle</b>	function
<b>StructElement_Type</b>	function
<b>open</b>	overloaded function
<b>openMemStream</b>	function
<b>type</b>	function

## 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>F totable</b>	
<b>badname</b>	function	<b>F types</b>	
<b>bases</b>	data table	<b>F write</b>	
<b>bitmapimage</b>	function	<b>include</b>	function
<b>boxnumber</b>	number	<b>includes</b>	data table
<b>cachepaths</b>	data table	<b>initialize</b>	function
<b>check</b>	function	<b>loaded</b>	data table
<b>checkers</b>	data table	<b>localpaths</b>	data table
<b>converters</b>	data table	<b>magics</b>	data table
<b>current</b>	function	<b>mergegoodies</b>	function
<b>defaultdepth</b>	number	<b>notprocessed</b>	number
<b>defaultheight</b>	number	<b>order</b>	data table
<b>defaultsearch</b>	boolean	<b>paths</b>	data table
<b>defaultwidth</b>	number	<b>patterns</b>	data table
<b>done</b>	function	<b>pop</b>	function
<b>dummy</b>	function	<b>preferquality</b>	boolean
<b>exists</b>	data table	<b>programs</b>	data table
<b>exists</b>	function	<b>push</b>	function
<b>formats</b>	data table	<b>registerpattern</b>	function
<b>found</b>	data table	<b>registerresource</b>	function
<b>get</b>	function	<b>registersuffix</b>	function
<b>getrealpage</b>	function	<b>resources</b>	data table
<b>guess</b>	function	<b>scale</b>	function
<b>hash</b>	function	<b>set</b>	function
<b>identifiers</b>	data table	<b>setlookups</b>	function
<b>identify</b>	function	<b>setorder</b>	function
<b>images</b>	table	<b>setpaths</b>	function
<b>F boxes</b>		<b>suffixes</b>	data table
<b>F check</b>		<b>used</b>	data table
<b>F checksize</b>			
<b>F clone</b>			
<b>F copy</b>			
<b>F immediatewrite</b>			
<b>F keys</b>			
<b>F new</b>			
<b>F node</b>			
<b>F ofindex</b>			
<b>F package</b>			
<b>F print</b>			
<b>F scan</b>			
<b>F serialize</b>			



## 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

## floats (context)

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

## font (basic tex)

<b>current</b>	function
<b>define</b>	function
<b>each</b>	function
<b>fonts</b>	table
<b>frozen</b>	function
<b>getfont</b>	overloaded function
<b>id</b>	function
<b>max</b>	function
<b>nextid</b>	function
<b>read_tfm</b>	function
<b>read_vf</b>	function
<b>setfont</b>	overloaded function

## fontloader (extra tex)

<b>apply_afmfile</b>	function
<b>apply_featurefile</b>	function
<b>close</b>	function
<b>fields</b>	function
<b>fullinfo</b>	function
<b>info</b>	overloaded function
<b>open</b>	overloaded function
<b>to_table</b>	function
<b>totable</b>	function

# fonts (context)

## analyzers            table

- T features
  - N blwf
  - N fina
  - N half
  - N init
  - N isol
  - N medi
  - N pref
  - N pstf
  - N rphf
- D initializers
- D methods
- F setstate
- T states
  - N blwf
  - N fina
  - N half
  - N init
  - N isol
  - N mark
  - N medi
  - N pref
  - N pstf
  - N rest
  - N rphf
- 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 addcoreunicodes
- F aftercopyingcharacters
- F applymanipulators
- F assignmathparameters
- B autocleanup
- F beforecopyingcharacters
- D cache
- B cacheintex
- F calculatescale
- F checkedfeatures
- F checkedfilename
- F checkvirtualids
- F cleanupable
- F collectprocessors
- F currentfonthasfeature
- D designsizes
- D dontembed
- F enhanceparameters
- N factor
- F finalize
- F getfeatureaction
- F hashfeatures
- F hashinstance
- T hashmethods
  - F normal
  - F virtual
- F initializefeatures
- T keys
  - T character
    - S depth
    - S height
    - S italic
    - S width
  - T description
  - T boundingbox

S depth	S xheight	
S height	T properties	
S width	S autoitalicamount	
T parameters	T cidinfo	
S ascender	S embedding	
S descender	S encodingbytes	
S designsizes	S filename	
T expansion	S finalized	
S auto	S fontname	
S shrink	S format	
S step	S fullname	
S stretch	S hasitalics	
S extendfactor	S hasmath	
S factor	S mathitalics	
S hfactor	S mode	
S mathsize	S name	
T protrusion	S noglyphnames	
S auto	S nostackmath	
S quad	S psname	
S scaledpoints	S textitalics	
S scriptpercentage	S virtualized	
S scriptscriptpercentage	D loadedfonts	
S size	S namemode	
S slantfactor	F newfeatures	
S slantperpoint	F newhandler	
T spacing	N noffontsloaded	
S extra	N nofsharedfonts	
S shrink	N nofsharedhashes	
S stretch	N nofsharedvectors	
S width	N privateoffset	
T synonyms	F readanddefine	
S em	F registerfeature	
S ex	B resolvevirtualtoo	
S extra_space	F scale	
S extraspace	F scaled	
S slant	F setfactor	
S space	F setname	
S space_shrink	B sharefonts	
S space_stretch	F trytosharefont	
S spaceshrink	N version	
S spacestretch	<b>current</b>	function
S x_height	<b>currentid</b>	function
S units	<b>definers</b>	table
S vfactor	F addlookup	

F analyze	
F applypostprocessors	
F checkedmode	
F checkedscript	
F current	
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	
<b>definetypeface</b>	function
<b>encodings</b>	table
T agl	
D ctxcodes	
D extras	
D names	
T synonyms	
N Acyrillic	
N Becyrillic	
N Cdot	
N Checyrillic	
N Decyrillic	
N Djecyrillic	
N Dzecyrillic	
N Dzhecyrillic	
N Ecyrillic	
N Edot	
N Efcyrillic	
N Elcyrillic	
N Emcyrillic	

N Encyrillic
N Ercyrillic
N Ereversedcyrillic
N Escyrillic
N Fitacyrillic
N Gcedilla
N Gdot
N Gecyrillic
N Gheupturncyrillic
N Gjecyrillic
N Hardsigncyrillic
N IAcyrillic
N IUcyrillic
N Icyrillic
N Idot
N Iecyrillic
N Iicyrillic
N Iishortcyrillic
N Iocyrillic
N Izhitsacyrillic
N Jecyrillic
N Kacyrillic
N Kcedilla
N Khacyrillic
N Kjecyrillic
N Lcedilla
N Ljecyrillic
N Ncedilla
N Njecyrillic
N Ocyrillic
N Odblacute
N Ohm
N Pecyrillic
N Rcedilla
N Shacyrillic
N Shchacyrillic
N Softsigncyrillic
N Tcedilla
N Tecyrillic
N Tsecyrillic
N Tshacyrillic
N Ucyrillic
N Udblacute
N Ushortcyrillic

N Vecyrillic	N dalettholam
N Yatcyrillic	N dalettholamhebrew
N Yericyrillic	N daletpatah
N Yicyrillic	N daletpatahhebrew
N Zdot	N daletqamats
N Zecyrillic	N daletqamatshebrew
N Zhecyrillic	N daletqubuts
N acutecmb	N daletqubutshebrew
N acyrillic	N daletsegol
N afii00208	N daletsegolhebrew
N afii08941	N daletsheva
N afii57694	N daletshevahebrew
N afii57695	N dalettserie
N afii57700	N dammaarabic
N afii57705	N dammatanaltonearabic
N afii57723	N dargahebrew
N alef	N dbllowline
N alefmaksurainitialarabic	N decimalseparatorarabic
N alefmaksuramedialarabic	N dialytikatonos
N approximatelyequal	N dotbelowcmb
N asteriskaltonearabic	N doubleyodpatah
N ayin	N doubleyodpatahhebrew
N bet	N edot
N betdagesh	N eightarabic
N blackdownpointingtriangle	N eighthnotebeamed
N blackleftpointingpointer	N etnahtafoukhhebrew
N blackrectangle	N etnahtafoukhlefthebrew
N blackrightpointingpointer	N etnahtahebrew
N blacksmilingface	N fathaarabic
N blacksquare	N finalkaf
N blackuppointingtriangle	N finalkafdagesh
N bulletinverse	N finalkafhebrew
N cdot	N finalkafqamats
N compass	N finalkafqamatshebrew
N dagesh	N finalkafsheva
N dalet	N finalmem
N daletdagesh	N finalnun
N daletthatafpatah	N finalpe
N daletthatafpatahhebrew	N finaltsadi
N daletthatafsegol	N fivearabic
N daletthatafsegolhebrew	N forall
N dalethebrew	N fourarabic
N daletthiriq	N gcedilla
N daletthiriqhebrew	N gdot



N gimel	N holam
N gimeldagesh	N holam19
N gravecmb	N holam26
N haaltonearabic	N holam32
N hamzaarabic	N holamhebrew
N hamzadammaarabic	N holamnarrowhebrew
N hamzadammatanarabic	N holamquarterhebrew
N hamzafathaarabic	N ilde
N hamzafathatanarabic	N integralbottom
N hamzalowarabic	N integraltop
N hamzalowkasraarabic	N kaf
N hamzalowkasratanarabic	N kafdagesh
N hatafpatah	N kashidaautoarabic
N hatafpatah16	N kashidaautonosidebearingarabic
N hatafpatah23	N kcedilla
N hatafpatah2f	N lamed
N hatafpatahhebrew	N lameddagesh
N hatafpatahnarrowhebrew	N lamedhebrew
N hatafpatahquarterhebrew	N lamedholam
N hatafqamats	N lamedholamdagesh
N hatafqamats1b	N lamedholamdageshhebrew
N hatafqamats28	N laminitialarabic
N hatafqamats34	N lammeemjeeminitialarabic
N hatafqamatshebrew	N lcedilla
N hatafqamatsnarrowhebrew	N logicalnotreversed
N hatafqamatsquarterhebrew	N mahapakhhebrew
N hatafsegol	N mem
N hatafsegol17	N memdagesh
N hatafsegol24	N merkhahhebrew
N hatafsegol30	N merkhakefulahebrew
N hatafsegolhebrew	N middot
N hatafsegolnarrowhebrew	N munahhebrew
N hatafsegolquarterhebrew	N nbspace
N he	N ncedilla
N hedagesh	N newsheqelsign
N hehfinalalttwoarabic	N ninearabic
N het	N noonhehinitialarabic
N hiriq	N nun
N hiriq14	N nundagesh
N hiriq21	N odblacute
N hiriq2d	N onearabic
N hiriqhebrew	N overscore
N hiriqnarrowhebrew	N patah
N hiriqquarterhebrew	N patah11

N patah1d	N qubuts
N patah2a	N qubuts18
N patahhebrew	N qubuts25
N patahnarrowhebrew	N qubuts31
N patahquarterhebrew	N qubutshewbrew
N pe	N qubutsnarrowhebrew
N pedagesh	N qubutsquarterhebrew
N qamats	N quoteleftreversed
N qamats10	N rafe
N qamats1a	N rcedilla
N qamats1c	N reharabic
N qamats27	N resh
N qamats29	N reshhatafpatah
N qamats33	N reshhatafpatahhebrew
N qamatsde	N reshhatafsegol
N qamatshebrew	N reshhatafsegolhebrew
N qamatsnarrowhebrew	N reshhebrew
N qamatsqatanhebrew	N reshhiqiq
N qamatsqatannarrowhebrew	N reshhiqiqhebrew
N qamatsqatanquarterhebrew	N reshholam
N qamatsqatanwidehebrew	N reshholamhebrew
N qamatsquarterhebrew	N reshpatah
N qof	N reshpatahhebrew
N qofdagesh	N reshqamats
N qofhatafpatah	N reshqamatshebrew
N qofhatafpatahhebrew	N reshqubuts
N qofhatafsegol	N reshqubutshewbrew
N qofhatafsegolhebrew	N reshsegol
N qofhebrew	N reshsegolhebrew
N qofhiriqiq	N reshsheva
N qofhiriqiqhebrew	N reshshevahebrew
N qofholam	N reshtsere
N qofholamhebrew	N reviahebrew
N qofpatah	N samekh
N qofpatahhebrew	N samekhdagesh
N qofqamats	N segol
N qofqamatshebrew	N segol13
N qofqubuts	N segol1f
N qofqubutshewbrew	N segol2c
N qofsegol	N segolhebrew
N qofsegolhebrew	N segolnarrowhebrew
N qofsheva	N segolquarterhebrew
N qofshevahebrew	N sevenarabic
N qoftsere	N sfthyphen

N shaddaarabic	N vavholam	
N sheqel	N yerahbenyomohebrew	
N sheva	N yod	
N sheva115	N yoddagesh	
N sheva15	N zayin	
N sheva22	N zayindagesh	
N sheva2e	N zdot	
N shevahebrew	N zeroarabic	
N shevanarrowhebrew	D unicodes	
N shevaquarterhebrew	D cache	
N shin	F is_known	
N shindagesh	D known	
N shindageshshindot	F load	
N shindageshsindot	F make_unicode_vector	
N shinshindot	D math	
N shinsindot	N version	
N siluqhebrew	<b>enhanceid</b>	function
N sixarabic	<b>expansions</b>	data table
N tav	<b>formats</b>	data table
N tavgages	<b>getalternate</b>	function
N tavgagesh	<b>getdiscexpansion</b>	function
N tcedilla	<b>getkern</b>	function
N tchehinitialarabic	<b>getmultiple</b>	function
N tet	<b>getsubstitution</b>	function
N tetdagesh	<b>getters</b>	table
N tevirhebrew	T alternate	
N thousandsseparatorarabic	F opentype	
N threearabic	T kern	
N tildecmb	F opentype	
N tipehahebrew	F type1	
N tsadi	T multiple	
N tsadidagesh	F opentype	
N tsere	T substitution	
N tsere12	F opentype	
N tsere1e	<b>goodies</b>	table
N tsere2b	D colorschemes	
N tserehebrew	D data	
N tserenarrowhebrew	D designsizes	
N tserequarterhebrew	D filenames	
N twoarabic	F getcompositions	
N udblacute	T list	
N vav	F compositions	
N vavgagesh	F designsizes	
N vavgagesh65	F expansions	

F featureset	F pair
F filenames	F substitution
F files	F register
F mathematics	S stepkey
F protrusions	F dataset
F solutions	S defaultbasealternate
F treatments	S defaultnodealternate
F typefaces	D enhancers
F load	D features
F prepare_features	F getalternate
F register	F getgsub
F registerpostprocessor	F getkern
F report	F getmultiple
<b>handlers</b>	F getsubstitution
<b>table</b>	T handlers
T afm	F devanagari_remove_joiners
B addkerns	F devanagari_reorder_matras
B addligatures	F devanagari_reorder_pre_base_reordering_consonants
B addtexligatures	F devanagari_reorder_reph
B autoprefixed	F gpos_context
D cache	F gpos_contextchain
D features	F gpos_cursive
F getkern	F gpos_mark2base
T helpdata	F gpos_mark2ligature
D bothkerned	F gpos_mark2mark
D leftkerned	F gpos_pair
D ligatures	F gpos_single
D rightkerned	F gsub_alternate
D texligatures	F gsub_context
F load	F gsub_contextchain
F setfeatures	F gsub_ligature
B syncspace	F gsub_multiple
N version	F gsub_reversecontextchain
T otf	F gsub_single
F addfeature	F load
D cache	F packoutlines
F collectlookups	T readers
T coverup	F addunicodetable
T actions	D cache
F alternate	F cff
F chainposition	F checkhash
F chainsubstitution	F cmap
F kern	F compact
F ligature	F expand
F multiple	

F gdef	F skipshort	
F getinfo	N tableversion	
F glyf	F unpack	
F gpos	N version	
F gsub	F scriptandlanguage	
F head	F setdynamics	
F hhea	F setfeatures	
F hmtx	T statistics	
F kern	D usedfeatures	
F loadfont	T tables	
F loadshapes	D baselines	
F loca	D features	
F math	D featuretypes	
F maxp	D languages	
F name	D scripts	
F os/2	F unpackoutlines	
F pack	N version	
F post	T pfb	
F rehash	T tfm	
T streamreader	D features	
F close	N maxnestingdepth	
F getposition	N maxnestingsize	
F look	F setfeatures	
F open	N version	
F read2dot14	T vf	
F readbyte	T combinations	
F readbytes	F combine	
F readcardinal	T combiner	
F readcardinal1	D commands	
F readcardinal2	D helpers	
F readcardinal3	D math	
F readcardinal4	D predefined	
F readchar	N version	
F readfixed4	D whatever	
F readinteger	<b>hashes</b>	<b>table</b>
F readinteger1	D characters	
F readinteger2	D csnames	
F readinteger4	D descriptions	
F readstring	D dynamics	
F readtag	D emwidths	
F setposition	D exheights	
F size	D extensibles	
F skip	D features	
F skiplong	D identifiers	

D italics	
D lastmathids	
D marks	
D modes	
D originals	
D parameters	
T processes	
D properties	
D quads	
D resources	
T setdynamics	
T shapes	
D spaces	
D spacings	
D unicodes	
D variants	
D xheights	
<b>helpers</b>	table
F addprivate	
F dimenfactor	
F expandglyph	
F fontpatternhassize	
F getdigitwidth	
F getparameters	
F getprivatenode	
F hasprivate	
F indextoslot	
F name	
F nametoslot	
F setdigitwidth	
F splitfontpattern	
F tochar	
<b>infofont</b>	function
<b>iterators</b>	table
F characters	
F descriptions	
F glyphs	
<b>loggers</b>	table
F add_placeholders	
D category_to_placeholder	
F format	
F onetimemessage	
F register	
F reportdefinedfonts	
F reportusedfeatures	
<b>mappings</b>	table
F addtounicode	
F fromunicode16	
F loadfile	
F loadline	
F makenameparser	
D overloads	
F reset	
F tounicode	
F tounicode16	
F tounicode16sequence	
<b>metapost</b>	table
F boundingbox	
F boxtop	
F draw	
F fill	
F maxbounds	
F output	
F paths	
F widthline	
F zeroline	
<b>mp</b>	table
D cache	
B inline	
N version	
<b>names</b>	data table
<b>nulldata</b>	data table
<b>protrusions</b>	data table
<b>readers</b>	table
F afm	
F check_lua	
F check_tfm	
F lua	
F opentype	
F otf	
F pfb	
D sequence	
F tfm	
F ttc	
F ttf	
<b>reserveid</b>	function
<b>select</b>	table
T data	

- F define
- F definetypface
- T fallbacks
- F filterinput
- T methods
  - F default
  - F features
  - F file
  - F goodies
  - F name
  - F selectfont
  - F simplefonts
  - F spec
  - F style
- F registerfallback
- F searchfiles
- setdiscexpansion** function
- specifiers** table
  - D contextmerged
  - F contextnumber
  - D contextnumbers
  - D contextsetups
  - F contexttostring
  - F definecontext
  - F mergecontext
  - F presetcontext
  - F registercontext
  - F showcontext
  - F splitcontext
  - D synonyms
  - D variants
- symbols** table
  - F uselibrary
- tables** table
- tracers** table
- treatments** table
  - F applyfixes
  - D data
  - S filename
  - F ignoredfile
  - F report
  - F trace
- typefaces** data table

# functions (context)

**dummy** function



# graphics (context)

## **backgrounds** table

F calculatemultipar

F fetchmultipar

F pair

F path

F point

# gsubfeatures (context)

<b>anum</b>	table
T arab	
B dflt	
B urd	
<b>char-ligatures</b>	table
T *	
B *	
<b>compat-ligatures</b>	table
T *	
B *	
<b>tlig</b>	table
T *	
B *	
<b>trep</b>	table
T *	
B *	

## gzip (extra lua)

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

## img (basic tex)

<b>boxes</b>	function
<b>check</b>	function
<b>checksize</b>	function
<b>clone</b>	function
<b>copy</b>	function
<b>immediatewrite</b>	function
<b>keys</b>	function
<b>new</b>	function
<b>node</b>	function
<b>ofindex</b>	function
<b>package</b>	function
<b>print</b>	function
<b>scan</b>	function
<b>serialize</b>	function
<b>totable</b>	function
<b>types</b>	function
<b>write</b>	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

**linkedlists** 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>addvalidkeys</b>	function	F MPrest
<b>cachedsetups</b>	data table	F MPrs
<b>cachesetup</b>	function	F MPul
<b>checkedspecification</b>	function	F MPur
<b>complete</b>	data table	F MPw
<b>constants</b>	data table	F MPx
<b>corenamespaces</b>	data table	F MPxy
<b>definecommand</b>	function	F MPxywhd
<b>doifelsemessage</b>	function	F MPy
<b>elements</b>	data table	F Romannumerals
<b>formats</b>	data table	F abjadnodotnumerals
<b>getcheckedparameters</b>	function	F abjadnumerals
<b>getmessage</b>	function	F addcounter
<b>hashedsetups</b>	data table	F addfeature
<b>implement</b>	function	F addgrapheme
<b>interfacedcommand</b>	function	F addlinklistelement
<b>interfaces</b>	table	F addreplacements
<b>invalidkey</b>	function	F addtojavascriptpreamble
<b>message</b>	function	F addtolist
<b>namespaces</b>	table	F addvalidinterfacekeys
F define		F allinputpaths
F list		F alphabetic
<b>registernamespace</b>	function	F analysefloatmethod
<b>scanners</b>	table	F analyzeitemgroup
F Alphabetic		F analyzelist
F Character		F analyzeregister
F Characters		F applytobox
F MPLIBconvertoutlinetext		F applytofirstcharacter
F MPc		F assignbuffer
F MPd		F autofinishstructurelevels
F MPH		F autonextspace
F MPLl		F autonextstructurelevel
F MPLr		F autosetups
F MPLs		F autostarttext
F MPn		F autostoptext
F MPp		F averagecharwidth
F MPpardata		F bitmapimage
F MPplus		F boxtostring
F MPpos		F bposcolumn
F MPposset		F bposcolumnregistered
F MPPr		F btxabbreviatedjournal

F btxaddentry	F btxsetdataset
F btxaddjournal	F btxsetentry
F btxauthor	F btxsetregister
F btxauthorfield	F btxsetspecification
F btxauthorregister	F btxsingularorplural
F btxcollectlistentries	F bxtoregister
F btxcurrentfirstnames	F btxusedataset
F btxcurrentinitials	F btxuservariable
F btxcurrentjuniors	F buildtextaccent
F btxcurrentsurnames	F character
F btxcurrentvons	F characters
F btxdetail	F chardescription
F btxdirect	F checkcountersetup
F btxdoif	F checkedconversion
F btxdoifelse	F checkedpagefloat
F btxdoifelsecombiinlist	F checkinjector
F btxdoifelsesameasprevious	F checkinterfacechain
F btxdoifelseuservariable	F checktwopassdata
F btxdoifnot	F chemicalcomponent
F btxexpandedjournal	F chinesenumerals
F btxfetchlistentries	F cleanfontname
F btxfield	F cleanupbox
F btxfieldname	F cleanuplayers
F btxfieldtype	F clonefield
F btxfirstofrange	F collectfloat
F btxflush	F collecthelp
F btxflushlistcombi	F colorcomponents
F btxflushlistentry	F concatcommalist
F btxflushmarked	F consultfloat
F btxflushpages	F convertbtxdatasettoxml
F btxfoundname	F converteddimen
F btxfoundtype	F convertmpstopdf
F btxhandlecite	F copyposition
F btxhandlenocite	F cos
F btxlastofrange	F cosd
F btxlistvariant	F countervalue
F btxloaddefinitionfile	F counttwopassdata
F btxloadjournallist	F currentcomponent
F btxloadreplacementfile	F currentdate
F btxoneorrange	F currentdesignsize
F btxpreparelistentries	F currentenvironment
F btxremapauthor	F currentposthyphenchar
F btxsavedataset	F currentprehyphenchar
F btxsavejournallist	F currentproduct

F currentproject	F defineprogram
F currentreferenceorder	F definereference
F currentsectiontolist	F defineregister
F datasetvariable	F definerule
F dayname	F definesectionlevels
F decimals	F defineselectfont
F decrementcounter	F defineshift
F decrementedcounter	F definesnapmethod
F decrementsubcounter	F definespotcolorglobal
F defineaccents	F definestructureblock
F defineattribute	F definestructureset
F definebreakpoint	F definetransparency
F definebreakpoints	F definetwopasslist
F definecharacterspacing	F definetypeface
F definechemical	F defineviewerlayer
F defineconversion	F depthnumber
F definecounter	F digits_normal
F definedlayoutcomponent	F digits_reverse
F definefallbackfamily	F disableautofontscript
F definefield	F disabledirectives
F definefieldset	F disableexperiments
F definefilefallback	F disablejobsave
F definefilesynonym	F disableparbuilder
F definefont_one	F disableregime
F definefont_two	F disablespellchecking
F definefontfamily	F disablestatetriggering
F definefontfeature	F disablestream
F definefontsolution	F disabletrackers
F definehyphenationfeatures	F discardfromlist
F defineinsertion	F doanalyzeframedbox
F defineintermediatecolor	F doifcommon
F definelabels	F doifcounter
F definelanguage	F doifelseblack
F definelinkedlist	F doifelsebuffer
F definemarking	F doifelsecharinfo
F definemetafont	F doifelsecommon
F definemultitonecolorglobal	F doifelsecontinnewithfile
F definenamespace	F doifelseconverter
F definenote	F doifelsecounter
F defineparallel	F doifelsecurrentfontasfeature
F defineparbuilder	F doifelsedrawingblack
F defineprocesscolordummy	F doifelsefieldcategory
F defineprocesscolorglobal	F doifelsefiledefined
F defineprocesscolorlocal	F doifelsefileexist



F doifelsefirstchar	F doifnoteonsamepageasprevious
F doifelsefontpresent	F doifnotinset
F doifelseinelement	F doifnotsame
F doifelseinputfile	F doifposition
F doifelseinset	F doifsame
F doifelseintwopassdata	F doprocesstypescriptfile
F doifelseleapyear	F doreshapeframedbox
F doifelselisthasentry	F dosaveposition
F doifelselisthasnumber	F dosavepositionplus
F doifelselisthaspage	F dosavepositionwhd
F doifelselisthastitle	F dosetposition
F doifelselocfile	F dosetpositionbox
F doifelsemarking	F dosetpositionplus
F doifelsemessage	F dosetpositionstrut
F doifelseobject	F dosetpositionwhd
F doifelseobjectreference	F dostarttextfile
F doifelseolderversion	F dostoptextfile
F doifelseoverlapping	F elapsedtime
F doifelseparallel	F enableasciimode
F doifelseparentfile	F enableautofences
F doifelsepathexist	F enableautofontscript
F doifelseposition	F enablebackgroundalign
F doifelsepositiononpage	F enablebackgroundboxes
F doifelsepositionsonsamepage	F enablecolor
F doifelsepositionsonthispage	F enablecolorintents
F doifelsepositionsused	F enablecrlf
F doifelserangeonpage	F enabledirectives
F doifelserreference	F enableexperiments
F doifelserighttoleftinbox	F enablefontcolorchemes
F doifelsesame	F enableinteraction
F doifelsestackedfloats	F enableparbuilder
F doifelsesynonymshown	F enableregime
F doifelsesynonymused	F enablerules
F doifelseurldefined	F enableshifts
F doifelseutfmathabove	F enablespellchecking
F doifelseutfmathaccent	F enablestatetriggering
F doifelseutfmathbelow	F enablestream
F doifelseutfmathfiller	F enabletrackers
F doifelsevisualizer	F enabletransparency
F doiffieldsetelse	F enableutf
F doifinset	F enhancelinkedlist
F doifnotcommon	F enhancelist
F doifnotcounter	F enhancereference
F doifnotecontent	F enhanceregister

F eposcolumn	F flushlabeledfloat
F eposcolumnregistered	F flushnotes
F erasebuffer	F flushpageinjectionsafter
F execute	F flushpageinjectionsbefore
F expandcurrentreference	F flushpostponedblocks
F exportformdata	F flushpostponednotes
F exportreferences	F flushstream
F extendregister	F flushstreamcopy
F extensiblecode	F fontchar
F featureattribute	F fontcharbyindex
F featurelist	F fontcollectionclone
F feedback	F fontcollectiondefine
F fetchallmarks	F fontcollectionprepare
F fetchmultipar	F fontcollectionregister
F fetchmultishape	F fontcollectionreport
F fetchonemark	F fontcollectionreset
F fetchposboxes	F fontlookupgetkey
F fetchtwomarks	F fontlookupgetkeyofindex
F figure_check	F fontlookupinitialize
F figure_done	F fontlookupnoffound
F figure_dummy	F forceendjob
F figure_identify	F forcequitjob
F figure_include	F formatcolor
F figure_mergegoodies	F formatgray
F figure_pop	F from
F figure_push	F getbidimode
F figure_reset	F getbodyfontsizes
F figure_scale	F getbuffer
F figurefilename	F getbuffercctxlua
F figurefilepath	F getbuffermkvi
F figurefiletype	F getcheckedinterfaceparameters
F figurerequest	F getcurrentprefixspec
F figuresetdimensions	F getcurrentreferencemetadata
F figurestatus	F getdefaultfieldvalue
F figureused	F getdocumentargument
F filterdefaultreference	F getdocumentfilename
F filterreference	F getelementtag
F finalizebox	F getfieldcategory
F findtwopassdata	F getfile
F finishexport	F getfirstcharacter
F firstcountervalue	F getfirsttwopassdata
F firstinset	F getfloatvariable
F firstsubcountervalue	F getfullstructurenumber
F flushfloat	F getinternallistreference

F getlasttwopassdata	F initializemathitalics
F getmarking	F initializestream
F getmathdomain	F initializetexdirectives
F getmathitalics	F initializetextrackers
F getmessage	F injectcurrentreference
F getmpextensions	F injectcurrentreferencehtdp
F getmprandomnumber	F injectreference
F getnaturaldimensions	F inlinechemical
F getnotestate	F inputfilebarename
F getobjectdimensions	F inputfilename
F getobjectreference	F inputfilerealsuffix
F getobjectreferencepage	F inputfilesuffix
F getprivatechar	F insertattachment
F getprogram	F insertcomment
F getrandomdimen	F insertfield
F getrandomfloat	F insertionnumber
F getrandomnumber	F insertrenderingwindow
F getrandomseed	F installedlanguages
F getreadfilename	F installtexdirective
F getsomefullstructurenumber	F installtextracker
F getsomestructurenumber	F jobfilename
F getspecificstructuretitle	F jobfilesuffix
F getstructurelevel	F languagenumber
F getstructurenumber	F lastcountervalue
F getsubstring	F lastsubcountervalue
F gettexbuffer	F lchexnumber
F gettwopassdata	F lchexnumbers
F gettwopassdatalist	F leapyear
F geturl	F linenumbersstageone
F getvisual	F linenumbersstagetwo
F hboxtovbox	F listgroupindex
F helpaction	F listlabel
F helpreference	F listlocation
F hexstringtonumber	F listnamespaces
F horizontalcode	F listprefixednumber
F hour	F listprefixedpage
F hyphenatedlist	F listrealpage
F hyphenatedurl	F listsize
F immediatemessage	F listtitle
F incrementcounter	F listuserdata
F incrementedcounter	F loadexamodes
F incrementsubcounter	F loadfontgoodies
F initializejob	F loadluamodule
F initializemathdomain	F loadmapfile

F loadmapline	F molecule
F loadspellchecklist	F month
F loadtypescriptfile	F monthnmnem
F loadvisualizer	F monthname
F locatefilepath	F mpcolor
F locfilename	F mpflushliteral
F lower	F mpflushreset
F lpdf_adddocumentcolorspace	F mpgettext
F lpdf_adddocumenttextgstate	F mpgraphic
F lpdf_adddocumentpattern	F mpoptions
F lpdf_adddocumentshade	F mprunset
F lpdf_addtocatalog	F mpruntab
F lpdf_addtoinfo	F mprunvar
F lpdf_addtonames	F mpsetclippath
F lpdf_addtopageattributes	F mpsetoutercolor
F lpdf_addtopageresources	F mpsetsxxy
F lpdf_addtopagesattributes	F mpsettext
F lpdf_collectedresources	F mptexget
F lpdf_color	F mptexreset
F luascript	F mptexset
F luathread	F mptexsetfrombuffer
F lxmlid	F namedstructureuservariable
F markcontent	F namedstructurevariable
F markingnumber	F naturalwd
F markingtitle	F nbfs
F markinjector	F nextcountervalue
F markregionbox	F nextparallel
F markregionboxcorrected	F nextsubcountervalue
F markregionboxtagged	F nofdays
F markvisualfonts	F nofstackedfloats
F mathfraction	F notedeltapage
F mathrenderset	F notelistindex
F message	F notenumberpage
F metapostescaped	F noteprefixednumber
F metapostformatted	F notesymbolpage
F metapostgraphformat	F notetitle
F minute	F ntimes
F mixcleanup	F number
F mixfinalize	F numbers
F mixflushlist	F octnumber
F mixflushrest	F octstringtonumber
F mixgetsplit	F operatingsystem
F mixsetsplit	F ordinal
F mixstate	F outputfilename

F overloadbookmark  
F overloaderror  
F pagestaterealpage  
F parpos  
F pdfrotation  
F pdfstartmatrix  
F pdfstartmirroring  
F pdfstartrotation  
F pdfstartscaling  
F pdfstopmatrix  
F pdfstopmirroring  
F pdfstoprotation  
F pdfstopscaling  
F percentageof  
F pgfxcolorspec  
F pickupbuffer  
F pickupmarkedcontent  
F pickuppunctuation  
F placeparallel  
F popfloat  
F pophyphenation  
F popitaliccorrection  
F poplist  
F poppath  
F poprandomseed  
F popreferenceprefix  
F popregime  
F popsectionblock  
F postponeotes  
F prefixedconverted  
F presetsymbollist  
F presettabulate  
F prevcountervalue  
F previoussubcountervalue  
F processbodyfontsizes  
F processbuffer  
F processcolorcomponents  
F processedfile  
F processedfiles  
F processfile  
F processfilemany  
F processfilenone  
F processfileonce  
F processjob

F processlist  
F processregister  
F processsplit  
F processsynonyms  
F profilebox  
F purefontname  
F pushfloat  
F pushhyphenation  
F pushitaliccorrection  
F pushlist  
F pushpath  
F pushrandomseed  
F pushreferenceprefix  
F pushregime  
F pushsectionblock  
F pushstream  
F rawcharacter  
F rawcountervalue  
F rawdate  
F rawsubcountervalue  
F referencepagedetail  
F referencepagestate  
F referencerealpage  
F registerattachment  
F registerbackendsymbol  
F registerbodyfontsize  
F registerbookmark  
F registerbuttons  
F registercolorintent  
F registeredviewerlayer  
F registerfigurepattern  
F registerfiguresuffix  
F registerhelp  
F registerhyphenationexception  
F registerhyphenationpattern  
F registeritemgroup  
F registerlanguagefeatures  
F registerlinenumbering  
F registermaintextcolor  
F registermpyfile  
F registernamedlua  
F registernamespace  
F registerobject  
F registerpostponedblock

F registerreferencedobject	F restoreobject
F registerrendering	F reuserandomseed
F registersection	F revivefeature
F registershownsynonym	F romannumerals
F registerstructureprocessor	F rounded
F registersynonym	F runbuffer
F registerunit	F runcontextjob
F registerusedsynonym	F safechar
F registeruserdata	F savebuffer
F relatemarking	F savecounter
F renderingvar	F savecurrentattributes
F replacefeature	F savedlistnumber
F replacepospxywhd	F savedlistprefixednumber
F reportstructure	F savedlisttitle
F resavefloat	F savefloat
F resetcharacteralign	F savemargindata
F resetcounter	F savenote
F reseteffect	F savepagedata
F resetfeature	F savepageinjections
F resetfontfeature	F saveparallel
F resetfontsolution	F savespecificfloat
F resetinjector	F savestructureblock
F resetitaliccorrection	F savetaggedtwopassdata
F resetmapfiles	F savetwopassdata
F resetmarking	F savevariable
F resetmathattributes	F second
F resetmathitalics	F selectstructureblock
F resetnullfont	F setactivecatcodes
F resetparallel	F setbreakpoints
F resetpath	F setcharacteralign
F resetprevdepth	F setcharactercasing
F resetreference	F setcharactercleaning
F resetscript	F setcharacterkerning
F resetshownsynonyms	F setcharacterspacing
F resetstructureprocessor	F setcharacterstripping
F resetsubcounter	F setcloseddocumentaction
F resettimer	F setclosepageaction
F resettrackers	F setcolormodel
F resetusedsynonyms	F setcounter
F restartcounter	F setdataset
F restartsubcounter	F setdigitsmanipulation
F restorecounter	F setdirection
F restorecurrentattributes	F setdocumentargument
F restorenote	F setdocumentcommandline

F setdocumentctxfile	F setmathitalics
F setdocumentdefaultargument	F setmathstyle
F setdocumentenvironments	F setmpextensions
F setdocumentfilename	F setnegative
F setdocumentfilenames	F setnextinternalreference
F setdocumentmodes	F setnextreferenceorder
F setdocumentmodules	F setnotestate
F seteffect	F setnotesymbolpage
F setelementuserproperties	F setopendocumentaction
F setfieldcalculationset	F setopenpageaction
F setfigurelookuporder	F setowncounter
F setfigurepaths	F setownsubcounter
F setfirstline	F setpagecolormodel
F setfontfeature	F setpagestate
F setfontofid	F setpagestaterealpageno
F setfontsolution	F setpagetransition
F setformat	F setparbuilder
F setformsmethod	F setprofile
F sethyphenatedurlcharacters	F setrandomseed
F sethyphenationfeatures	F setrealign
F sethyphenationmethod	F setrealspaces
F setinitial	F setreferencearguments
F setinitialsectionblock	F setreferenceattribute
F setinjector	F setreferenceoperation
F setinnerreferencemethod	F setregionbox
F setinsertionlocation	F setregionboxtagged
F setinterfaceconstant	F setregistermethod
F setinterfaceelement	F setreplacements
F setinterfacemessage	F setscript
F setinterfacemessages	F setsectionblock
F setinterfacevariable	F setsectionentry
F setinternalreference	F setstructureblockstate
F setitaliccorrection	F setstructurelevel
F setjavascriptpreamble	F setstructurenumber
F setjobcomment	F setsubcounter
F setlanguageexceptions	F settagaspect
F setlanguagesynonym	F settagcombination
F setlettercatcodes	F settagdelimitedsymbol
F setmarking	F settagfigure
F setmathalphabet	F settaggedmetadata
F setmathalternate	F settaghighlight
F setmathattribute	F settagitem
F setmathdirection	F settagitemgroup
F setmathdomain	F settaglist

F settagnotation	F spotcolorname
F settagnotationsymbol	F spotcolorparent
F settagproperty	F spotcolorvalue
F settagproperty_b	F startactualtext
F settagproperty_n	F startchemical
F settagregister	F startcolorset
F settagsorting	F startcomponent
F settagsubsentencesymbol	F startenvironment
F settagsynonym	F startfontsolution
F settagtablecell	F startparbuilder
F settagtabulatecell	F startproduct
F setupbookmarks	F startproject
F setupcanvas	F startregime
F setupcharacterspacing	F startsectionlevel
F setupexport	F startstream
F setupfontexpansion	F starttag
F setupfontprotrusion	F starttag_c
F setupidentity	F starttag_d
F setupinsertion	F starttag_u
F setupitaliccorrection	F starttext
F setuplinenumbering	F startviewerlayer
F setuserinterface	F stopactualtext
F setvalidinterfacekeys	F stopchemical
F setvisual	F stopcolorset
F setvisualfont	F stopcomponent
F setvisuallayer	F stopenvironment
F setxmpfile	F stopfontsolution
F showassignerror	F stopparbuilder
F showattributes	F stopproduct
F showcounter	F stopproject
F showdebuginfo	F stopregime
F showdirectives	F stopsectionlevel
F showdiscretionaries	F stopstream
F showexperiments	F stoptag
F showhyphenatedinlist	F stoptext
F showhyphenationtrace	F stopviewerlayer
F showinjector	F storejavascriptcode
F showjustification	F storejavascriptpreamble
F showlogcategories	F storenote
F showmessage	F storeregister
F showtrackers	F strdp
F sin	F strhd
F sind	F strht
F splitfilename	F strip



F structureautocatcodedget	F useMPLibrary
F structurecatcodedget	F useanyfile
F structuregivencatcodedget	F useanyfileonce
F structurenumber	F usecldfilename
F structuretitle	F usecldfilenameonce
F structureuservariable	F usecolors
F structurevariable	F usecomponent
F strwd	F useenvironment
F subcountervalue	F usefigurebase
F subcountervalues	F usefile
F subsubcountervalues	F usejavascriptpreamble
F subtractfeature	F usejavascriptscripts
F synchronizemarking	F useluafile
F synchronizestream	F useluafileonce
F synonymmeaning	F useluamodule
F synonymname	F usemodules
F systemlog	F usepath
F tagmfunctionlab	F useproduct
F tagmfunctiontxt	F useproject
F tan	F usesubpath
F tand	F usesymbols
F texdefinition_one	F usetexfile
F texdefinition_two	F usetexfileonce
F textime	F useurl
F thefirstcharacter	F usexmlfile
F themaxboxwidth	F usexmlfileonce
F theremainingcharacters	F usezipfile
F tochar	F utfchar
F transparencycomponents	F utfmathclass
F triggerpagebuilder	F utfmathcommand
F truefilename	F utfmathcommandabove
F type	F utfmathcommandbelow
F typebuffer	F utfmathcommandfiller
F typefile	F utfmathfiller
F uchar	F utfmathstretch
F uchexnumber	F vboxlisttohbox
F uchexnumbers	F verbose
F undefinechemical	F vspacing
F unicodechar	F vspacingcollapse
F unihex	F vspacingcollapseonly
F unit_normal	F vspacingdefine
F unit_reverse	F vspacingsetamount
F unloadlanguage	F vspacingsnap
F upper	F way

F weekday	F xmldirectivesafter
F weekdayname	F xmldirectivesbefore
F writestatus	F xmldisplayverbatim
F x_table_c	F xmldoif
F x_table_cleanup	F xmldoifelself
F x_table_construct	F xmldoifelselfempty
F x_table_create	F xmldoifelselfempty
F x_table_finish_row	F xmldoifelselfsetext
F x_table_flush	F xmldoifelselfempty
F x_table_init_construct	F xmldoifnot
F x_table_init_reflow_height	F xmldoifnotempty
F x_table_init_reflow_height_option	F xmldoifnotselfempty
F x_table_init_reflow_width	F xmldoifnottext
F x_table_init_reflow_width_option	F xmldoifselfempty
F x_table_next_row	F xmldoiftext
F x_table_next_row_option	F xmlelement
F x_table_r	F xmlfilter
F x_table_reflow_height	F xmlfilterlist
F x_table_reflow_width	F xmlfirst
F x_table_set_construct	F xmlflush
F x_table_set_reflow_height	F xmlflushcontext
F x_table_set_reflow_width	F xmlflushnewline
F xmladdindex	F xmlflushsetups
F xmlaftersesetup	F xmlflushspacewise
F xmlall	F xmlfunction
F xmlappendsetup	F xmlgetindex
F xmlapplyselectors	F xmlinclude
F xmlatt	F xmlincludeoptions
F xmlattdef	F xmlinclusion
F xmlattribute	F xmlinclusions
F xmlattributedef	F xmlindex
F xmlbadinclusions	F xmlinlineverbatim
F xmlbeforesetup	F xmlinstalldirective
F xmlchainatt	F xmllast
F xmlchainattdef	F xmllastatt
F xmlchecknamespace	F xmllastmatch
F xmlcommand	F xmlload
F xmlconcat	F xmlloadbuffer
F xmlconcatrange	F xmlloaddata
F xmlcontext	F xmlloaddirectives
F xmlcount	F xmlloadentities
F xmldelete	F xmlmain
F xmldirect	F xmlmatch
F xmldirectives	F xmlname

F xmlnamespace	<b>setformat</b>	function
F xmlnonspace	<b>setmacro</b>	function
F xmlpath	<b>setmessage</b>	function
F xmlpos	<b>setmessages</b>	function
F xmlprependsetup	<b>settranslation</b>	function
F xmlraw	<b>setuserinterface</b>	function
F xmlrawtex	<b>setvalidkeys</b>	function
F xmlrefatt	<b>setvariable</b>	function
F xmlregisterns	<b>showmessage</b>	function
F xmlremapname	<b>storedscanners</b>	data table
F xmlremapnamespace	<b>strings</b>	table
F xmlremovesetup	<b>syntax</b>	data table
F xmlresetinjectors	<b>tolist</b>	function
F xmlresetsetups	<b>translations</b>	data table
F xmlsave	<b>variables</b>	data table
F xmlsetcommandtonone	<b>writestatus</b>	function
F xmlsetcommandtotext		
F xmlsetentity		
F xmlsetinjectors		
F xmlsetsetup		
F xmlsnippet		
F xmlstartraw		
F xmlstarttiming		
F xmlstopraw		
F xmlstoptiming		
F xmlstrip		
F xmlstripanywhere		
F xmlstripnolines		
F xmlstripped		
F xmlstrippednolines		
F xmltag		
F xmltexentity		
F xmltext		
F xmltobuffer		
F xmltobufferverbose		
F xmltofile		
F xmltoparameters		
F xmlverbatim		
F xmlwithindex		
F year		
<b>setconstant</b>		function
<b>setcount</b>		function
<b>setdimen</b>		function
<b>setelement</b>		function

## io (basic lua)

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

## jit (context)

<b>arch</b>	string
<b>attach</b>	function
<b>flush</b>	function
<b>off</b>	function
<b>on</b>	function
<b>opt</b>	table
F start	
<b>os</b>	string
<b>status</b>	function
<b>version</b>	string
<b>version_num</b>	number

# job (context)

<b>comment</b>	function	F find	
<b>datasets</b>	table	F first	
D collected		F get	
F extend		F getcollected	
F getdata		F getdata	
F setdata		F getfield	
D tobesaved		F gettobesaved	
<b>disablesave</b>	function	F inlist	
<b>fileobjreferences</b>	table	F last	
D collected		F list	
D tobesaved		F save	
<b>files</b>	table	F savetagged	
D collected		D tobesaved	
F context		<b>positions</b>	table
B forcerun		F b_col	
F run		F b_region	
D tobesaved		F c	
<b>initialize</b>	function	D collected	
<b>load</b>	function	F column	
<b>loadother</b>	function	F copy	
<b>objects</b>	table	F depth	
D collected		F e_col	
F get		F e_region	
F number		F enhance	
F page		F extra	
F save		F get	
F set		F getreserved	
D tobesaved		F hangafter	
<b>pack</b>	boolean	F hangindent	
<b>packversion</b>	number	F height	
<b>pagestates</b>	table	F hsize	
D collected		F leftskip	
F extend		F lowerleft	
F realpage		F lowerright	
F setstate		F markregionbox	
D tobesaved		F n	
<b>passes</b>	table	F onsamepage	
F check		F overlapping	
D collected		F p	
F count		F page	
F define		F paragraph	

F parindent	
F position	
F r	
F region	
F replace	
F rightskip	
F set	
F setall	
F setdim	
F setregionbox	
D tobesaved	
F upperleft	
F upperright	
S used	
F width	
F x	
F xy	
F y	
<b>register</b>	function
<b>save</b>	function
<b>structure</b>	table
D collected	
T components	
T tobesaved	
T branches	
S name	
S type	
<b>variables</b>	table
D checksums	
D collected	
F getchecksum	
F makechecksum	
F restore	
F save	
F setchecksum	
D tobesaved	
<b>version</b>	number

## 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	F registerpattern	
<b>associated</b>	data table	F setfeatures	
<b>association</b>	function	<b>installed</b>	function
<b>counters</b>	data table	<b>labels</b>	table
<b>current</b>	function	F define	
<b>data</b>	data table	F split	
<b>decimals</b>	data table	<b>lefthyphenmin</b>	function
<b>define</b>	function	<b>loadable</b>	function
<b>expand</b>	function	<b>loadwords</b>	function
<b>expanders</b>	table	<b>logger</b>	table
<b>frequencies</b>	table	F report	
F averagecharwidth		<b>numbers</b>	data table
F getdata		<b>postexhyphenchar</b>	function
<b>getdata</b>	function	<b>posthyphenchar</b>	function
<b>getnumber</b>	function	<b>preexhyphenchar</b>	function
<b>hyphenate</b>	function	<b>prehyphenchar</b>	function
<b>hyphenators</b>	table	<b>registered</b>	data table
T dictionaries		<b>replacements</b>	table
D featuresets		F add	
F handler		F handler	
T methods		F set	
F expanded		<b>righthyphenmin</b>	function
B none		<b>serializediscretionary</b>	function
F original		<b>setexceptions</b>	function
F tex		<b>setsynonym</b>	function
F traditional		<b>showdiscretionaries</b>	function
B optimize		<b>unload</b>	function
F popmethod		<b>version</b>	number
F pushmethod		<b>visualizediscretionaries</b>	function
F setmethod		<b>words</b>	table
F setup		F check	
F showhyphenationtrace		T data	
T traditional		F disable	
F definefeatures		F enable	
F gettrace		T enablers	
F hyphenate		B enables	
F injecthyphens		F found	
F installmethod		F load	
F lasttrace		T methods	
F loadpatterns		N threshold	
F registerexception			

# layouts (context)

**status** table

F isleftpage

F leftorrightpagection

## lfs (extra lua)

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

# libraries (context)

<b>basiclua</b>	data table
<b>basictex</b>	data table
<b>builtin</b>	data table
<b>extralua</b>	data table
<b>extratex</b>	data table
<b>functions</b>	data table
<b>globals</b>	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>categories</b>	function
<b>direct</b>	function
<b>disable</b>	function
<b>enable</b>	function
<b>exporters</b>	table
<b>extendbanner</b>	function
<b>flush</b>	function
<b>help</b>	function
<b>messenger</b>	function
<b>new</b>	function
<b>newline</b>	function
<b>poptarget</b>	function
<b>pushtarget</b>	function
<b>report</b>	function
<b>reportbanner</b>	function
<b>reporter</b>	function
<b>reporters</b>	table
F banner	
F export	
F help	
F info	
F lines	
F version	
<b>reportline</b>	function
<b>reportlines</b>	function
<b>setformats</b>	function
<b>setformatters</b>	function
<b>setlogfile</b>	function
<b>setmessenger</b>	function
<b>setprocessor</b>	function
<b>setprogram</b>	function
<b>settarget</b>	function
<b>settimedlog</b>	function
<b>settranslations</b>	function
<b>show</b>	function
<b>show_close</b>	function
<b>show_load</b>	function
<b>show_open</b>	function
<b>simple</b>	function
<b>simpleline</b>	function

<b>simplelines</b>	function
<b>start_page_number</b>	function
<b>status</b>	function
<b>stop_page_number</b>	function
<b>subdirect</b>	function
<b>subreport</b>	function
<b>system</b>	function
<b>texerrormessage</b>	function
<b>writer</b>	function

# lpdf (context)

<b>action</b>	function	<b>finalizedocument</b>	function
<b>adddocumentcolorspace</b>	function	<b>finalizepage</b>	function
<b>adddocumenttextgstate</b>	function	<b>finishtransparencycode</b>	function
<b>adddocumentpattern</b>	function	<b>flushobject</b>	function
<b>adddocumentshade</b>	function	<b>flushstreamfileobject</b>	function
<b>addtocatalog</b>	function	<b>flushstreamobject</b>	function
<b>addtoinfo</b>	function	<b>formats</b>	data table
<b>addtonames</b>	function	<b>frompdfdoc</b>	function
<b>addtopageattributes</b>	function	<b>fromsixteen</b>	function
<b>addtopageresources</b>	function	<b>gethpos</b>	function
<b>addtopagesattributes</b>	function	<b>getmatrix</b>	function
<b>addtxmpinfo</b>	function	<b>getpos</b>	function
<b>annotationspecification</b>	function	<b>getvpos</b>	function
<b>array</b>	function	<b>graycode</b>	function
<b>boolean</b>	function	<b>hasmatrix</b>	function
<b>border</b>	function	<b>id</b>	function
<b>checkedkey</b>	function	<b>injecttxmpinfo</b>	function
<b>checkedvalue</b>	function	<b>inserttxmpinfo</b>	function
<b>circularshade</b>	function	<b>layerreference</b>	function
<b>cmykcode</b>	function	<b>limited</b>	function
<b>collectedresources</b>	function	<b>linearshade</b>	function
<b>color</b>	function	<b>nametree</b>	function
<b>colorspace</b>	function	<b>null</b>	function
<b>colorspaceconstants</b>	data table	<b>number</b>	function
<b>colorspec</b>	function	<b>pagedestinations</b>	data table
<b>colorvalue</b>	function	<b>pagereference</b>	function
<b>colorvalues</b>	function	<b>pagereferences</b>	data table
<b>constant</b>	function	<b>pdfcolor</b>	function
<b>delayedobject</b>	function	<b>pdftimestamp</b>	function
<b>destinationspecification</b>	function	<b>protectresources</b>	boolean
<b>dictionary</b>	function	<b>rectangle</b>	function
<b>docstring</b>	function	<b>reference</b>	function
<b>epdf</b>	table	<b>registerannotation</b>	function
F contenttotext		<b>registerdestination</b>	function
F expand		<b>registerdocumentfinalizer</b>	function
F expanded		<b>registerpagefinalizer</b>	function
F getpagecontent		<b>reserveobject</b>	function
F getstructure		<b>rgbcode</b>	function
F load		<b>rotationcm</b>	function
F unload		<b>shareobject</b>	function
<b>escaped</b>	function	<b>shareobjectreference</b>	function

<b>spotcode</b>	function
<b>stream</b>	function
<b>string</b>	function
<b>timestamp</b>	function
<b>toeight</b>	function
<b>topdfdoc</b>	function
<b>tosixteen</b>	function
<b>transform</b>	function
<b>transparency</b>	function
<b>transparencycode</b>	function
<b>transparencygroups</b>	table
B none	
<b>transparencyvalue</b>	function
<b>unicode</b>	function
<b>verbose</b>	function



## lpeg (basic lua)

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

# ltn12 (extra lua)

**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
<b>bytedata</b>	data table
<b>bytedone</b>	table
<b>collectgarbage</b>	function
<b>delay</b>	function
<b>finalize</b>	function
<b>firstbytecode</b>	number
<b>flush</b>	function
<b>flushdelayed</b>	function
<b>get_functions_table</b>	function
<b>getbytecode</b>	function
<b>getluaname</b>	function
<b>lastbytecode</b>	number
<b>mask</b>	string
<b>messages</b>	data table
<b>name</b>	table
<b>numbers</b>	data table
<b>registercode</b>	function
<b>registeredcodes</b>	function
<b>registerfinalizer</b>	function
<b>registername</b>	function
<b>setbytecode</b>	function
<b>setluaname</b>	function
<b>startupfile</b>	string
<b>version</b>	string

## luatex (context)

<b>cleanuptempfiles</b>	function
<b>registerstartactions</b>	function
<b>registerstopactions</b>	function
<b>registertempfile</b>	function
<b>starttime</b>	number

# 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>load</b>	function
<b>directives</b>	table	<b>loadbuffer</b>	function
F after		<b>loaddata</b>	function
F before		<b>loaded</b>	table
F handle		<b>main</b>	function
F load		<b>match</b>	function
F setup		<b>name</b>	function
<b>displayverbatimim</b>	function	<b>namespace</b>	function
<b>doif</b>	function	<b>nonspace</b>	function
<b>doifelse</b>	function	<b>path</b>	function
<b>doifelseempty</b>	function	<b>pos</b>	function
<b>doifelsetext</b>	function	<b>position</b>	function
<b>doifempty</b>	function	<b>raw</b>	function
<b>doifnot</b>	function	<b>rawroot</b>	function
<b>doifnotempty</b>	function	<b>rawtex</b>	function
<b>doifnottext</b>	function	<b>refatt</b>	function
<b>doiftext</b>	function	<b>register</b>	function
<b>element</b>	function	<b>registerentity</b>	function
<b>elements</b>	function	<b>removesetup</b>	function
<b>entities</b>	data table	<b>resetcdata</b>	function
<b>filter</b>	function	<b>resetsetups</b>	function
<b>filterlist</b>	function	<b>resolvedentity</b>	function
<b>first</b>	function	<b>root</b>	function

<b>save</b>	function
<b>serialize</b>	function
<b>setaction</b>	function
<b>setcdata</b>	function
<b>setcommandtonone</b>	function
<b>setcommandtotext</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>stopraw</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>acos</b>	function
<b>asin</b>	function
<b>atan</b>	function
<b>atan2</b>	function
<b>ceil</b>	function
<b>ceiling</b>	function
<b>cos</b>	function
<b>cosd</b>	function
<b>cosh</b>	function
<b>deg</b>	function
<b>div</b>	function
<b>even</b>	function
<b>exp</b>	function
<b>floor</b>	function
<b>fmod</b>	function
<b>frexp</b>	function
<b>huge</b>	number
<b>initialseed</b>	number
<b>ldexp</b>	function
<b>log</b>	function
<b>log10</b>	function
<b>max</b>	function
<b>min</b>	function
<b>mod</b>	function
<b>modf</b>	function
<b>odd</b>	function
<b>pi</b>	number
<b>pow</b>	function
<b>rad</b>	function
<b>random</b>	function
<b>randomseed</b>	function
<b>round</b>	function
<b>setrandomseedi</b>	function
<b>sin</b>	function
<b>sind</b>	function
<b>sinh</b>	function
<b>sqrt</b>	function
<b>tan</b>	function
<b>tand</b>	function
<b>tanh</b>	function

# mathematics (context)

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



## mbox (context)

<b>parse</b>	function
<b>parse_from</b>	function
<b>parse_header</b>	function
<b>parse_headers</b>	function
<b>parse_message</b>	function
<b>split_headers</b>	function
<b>split_mbox</b>	function
<b>split_message</b>	function

## 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>	function

# metapost (context)

<b>analyzeplugins</b>	function	<b>gettext</b>	function
<b>checkformat</b>	function	<b>graphic</b>	function
<b>checktexts</b>	function	<b>graphic_base_pass</b>	function
<b>collapse</b>	boolean	<b>initializescriptrunner</b>	function
<b>colorinitializer</b>	function	<b>instance</b>	function
<b>convert</b>	function	<b>intermediate</b>	table
<b>defaultformat</b>	string	T actions	
<b>defaultinstance</b>	string	F makempy	
<b>defaultmethod</b>	string	<b>lastlog</b>	string
<b>directrun</b>	function	<b>load</b>	function
<b>escaped</b>	function	<b>makempy</b>	table
<b>exectime</b>	table	N nofconverted	
<b>extensiondata</b>	data table	F processgraphics	
<b>filterclippath</b>	function	F registerfile	
<b>flush</b>	function	<b>maketext</b>	function
<b>flushers</b>	table	<b>metafun</b>	table
T pdf		F interpolate	
F comment		F topath	
F flushfigure		<b>method</b>	number
F startfigure		<b>mptopdf</b>	table
F stopfigure		F convertmpstopdf	
F textfigure		N nofconverted	
<b>flushliteral</b>	function	<b>n</b>	number
<b>flushnormalpath</b>	function	<b>nvformat</b>	function
<b>flushreset</b>	function	<b>optimize</b>	boolean
<b>fonts</b>	table	<b>parse</b>	function
F define		<b>pdfliterals</b>	function
T flusher		<b>pluginactions</b>	function
F flushfigure		<b>process</b>	function
F startfigure		<b>processplugins</b>	function
F stopfigure		<b>processspecial</b>	function
N instances		<b>properties</b>	table
F process		<b>quickanddirty</b>	function
<b>format</b>	function	<b>reducetogray</b>	boolean
<b>format_number</b>	function	<b>reporterror</b>	function
<b>format_string</b>	function	<b>reset</b>	function
<b>formatnumber</b>	function	<b>resetlastlog</b>	function
<b>getclippath</b>	function	<b>resetplugins</b>	function
<b>getextensions</b>	function	<b>runscript</b>	function
<b>getjobdata</b>	function	<b>scripterror</b>	function
<b>getstatistics</b>	function	<b>setextensions</b>	function

<b>setoutercolor</b>	function
<b>settext</b>	function
<b>showlog</b>	boolean
<b>svformat</b>	function
<b>tex</b>	table
F get	
F reset	
F set	
F setfrombuffer	
<b>texerrors</b>	boolean
<b>textextsdata</b>	function
<b>theclippath</b>	function
<b>totable</b>	function
<b>unload</b>	function
<b>untagvariable</b>	function
<b>variables</b>	table

## mime (extra lua)

**b64** function

**decode** function

**decodet** table

F base64

F quoted-printable

**dot** function

**encode** function

**encodet** table

F base64

F quoted-printable

**eol** function

**normalize** function

**qp** function

**qpwrp** function

**stuff** function

**unb64** function

**unqp** function

**wrap** function

**wrapt** table

F base64

F default

F quoted-printable

F text

**wrp** function

## mp (context)

<b>BackSpace</b>	function	<b>OverlayDepth</b>	function
<b>BaselineSkip</b>	function	<b>OverlayHeight</b>	function
<b>BodyFontSize</b>	function	<b>OverlayLineWidth</b>	function
<b>BottomDistance</b>	function	<b>OverlayOffset</b>	function
<b>BottomHeight</b>	function	<b>OverlayWidth</b>	function
<b>BottomSpace</b>	function	<b>PageDepth</b>	function
<b>CurrentColumn</b>	function	<b>PageFraction</b>	function
<b>CurrentHeight</b>	function	<b>PageNumber</b>	function
<b>CurrentWidth</b>	function	<b>PageOffset</b>	function
<b>CutSpace</b>	function	<b>PaperBleed</b>	function
<b>EmWidth</b>	function	<b>PaperHeight</b>	function
<b>ExHeight</b>	function	<b>PaperWidth</b>	function
<b>FooterDistance</b>	function	<b>PrintPaperHeight</b>	function
<b>FooterHeight</b>	function	<b>PrintPaperWidth</b>	function
<b>HSize</b>	function	<b>RealPageNumber</b>	function
<b>HeaderDistance</b>	function	<b>RightEdgeDistance</b>	function
<b>HeaderHeight</b>	function	<b>RightEdgeWidth</b>	function
<b>InPageBody</b>	function	<b>RightMarginDistance</b>	function
<b>InnerEdgeDistance</b>	function	<b>RightMarginWidth</b>	function
<b>InnerEdgeWidth</b>	function	<b>SpineWidth</b>	function
<b>InnerMarginDistance</b>	function	<b>StrutDepth</b>	function
<b>InnerMarginWidth</b>	function	<b>StrutHeight</b>	function
<b>LastPageNumber</b>	function	<b>TextHeight</b>	function
<b>LayoutColumnDistance</b>	function	<b>TextWidth</b>	function
<b>LayoutColumnWidth</b>	function	<b>TopDistance</b>	function
<b>LayoutColumns</b>	function	<b>TopHeight</b>	function
<b>LeftEdgeDistance</b>	function	<b>TopSkip</b>	function
<b>LeftEdgeWidth</b>	function	<b>TopSpace</b>	function
<b>LeftMarginDistance</b>	function	<b>VSize</b>	function
<b>LeftMarginWidth</b>	function	<b>_f_</b>	function
<b>LineHeight</b>	function	<b>boolean</b>	function
<b>MakeupHeight</b>	function	<b>dataset</b>	function
<b>MakeupWidth</b>	function	<b>datasets</b>	table
<b>NOfColumns</b>	function	<b>F load</b>	
<b>NOfPages</b>	function	<b>defaultcolormodel</b>	function
<b>OnOddPage</b>	function	<b>format</b>	function
<b>OnRightPage</b>	function	<b>formatted</b>	function
<b>OuterEdgeDistance</b>	function	<b>get</b>	table
<b>OuterEdgeWidth</b>	function	<b>F boolean</b>	
<b>OuterMarginDistance</b>	function	<b>F number</b>	
<b>OuterMarginWidth</b>	function	<b>F numeric</b>	

F string	
<b>get_outline_text</b>	function
<b>graphformat</b>	function
<b>n</b>	function
<b>numeric</b>	function
<b>pair</b>	function
<b>path</b>	function
<b>print</b>	function
<b>quadruple</b>	function
<b>quoted</b>	function
<b>report</b>	function
<b>size</b>	function
<b>triplet</b>	function
<b>tt_dimensions</b>	function
<b>tt_initialize</b>	function

## mplib (extra tex)

<b>fields</b>	function
<b>finder</b>	function
<b>finders</b>	table
F file	
<b>get_boolean</b>	function
<b>get_number</b>	function
<b>get_numeric</b>	function
<b>get_string</b>	function
<b>new</b>	overloaded function
<b>pen_info</b>	function
<b>preprocessed</b>	function
<b>version</b>	function



# noads (context)

**handlers**            table

- F alternates
- F autofences
- F classes
- F collapse
- F domains
- F families
- F italics
- F relocate
- F render
- F resize
- F showtree
- F tags
- F unscript
- F variants

**process**            function

**processnested**    function

**processors**        table

- T autofences
- T collapse
- F mlist\_to\_hlist
- T relocate
- T render
- T resize
- T unscript

**processouter**     function

## node (basic tex)

<b>copy</b>	function	F is_direct	
<b>copy_list</b>	function	F is_node	
<b>count</b>	function	F kerning	
<b>current_attr</b>	function	F last_node	
<b>dimensions</b>	function	F length	
<b>direct</b>	table	F ligaturing	
F copy		F new	
F copy_list		F protect_glyph	
F count		F protect_glyphs	
F current_attr		F protrusion_skippable	
F dimensions		F remove	
F do_ligature_n		F set_attribute	
F effective_glue		F set_properties_mode	
F end_of_math		F setboth	
F first_glyph		F setbox	
F flush_list		F setchar	
F flush_node		F setdisc	
F flush_properties_table		F setfield	
F free		F setleader	
F get_attribute		F setlink	
F get_properties_table		F setlist	
F getboth		F setnext	
F getbox		F setprev	
F getchar		F setproperty	
F getdisc		F setsubtype	
F getfield		F slide	
F getfont		F tail	
F getid		F todirect	
F getleader		F tonode	
F getlist		F toString	
F getnext		F traverse	
F getprev		F traverse_char	
F getproperty		F traverse_id	
F getsubtype		F unprotect_glyphs	
F has_attribute		F unset_attribute	
F has_field		F usedlist	
F has_glyph		F vpack	
F hpack		F write	
F insert_after		<b>do_ligature_n</b>	function
F insert_before		<b>effective_glue</b>	function
F is_char		<b>end_of_math</b>	function

<b>family_font</b>	function	<b>setfield</b>	function
<b>fields</b>	function	<b>setProperty</b>	function
<b>first_glyph</b>	function	<b>slide</b>	function
<b>flush_list</b>	function	<b>subtype</b>	function
<b>flush_node</b>	function	<b>subtypes</b>	function
<b>flush_properties_table</b>	function	<b>tail</b>	function
<b>free</b>	function	<b>tostring</b>	function
<b>get_attribute</b>	function	<b>traverse</b>	function
<b>get_properties_table</b>	function	<b>traverse_char</b>	function
<b>getboth</b>	function	<b>traverse_id</b>	function
<b>getchar</b>	function	<b>type</b>	function
<b>getdisc</b>	function	<b>types</b>	function
<b>getfield</b>	function	<b>unprotect_glyphs</b>	function
<b>getfont</b>	function	<b>unset_attribute</b>	function
<b>getid</b>	function	<b>usedlist</b>	function
<b>getleader</b>	function	<b>vpack</b>	function
<b>getlist</b>	function	<b>whatsits</b>	function
<b>getnext</b>	function	<b>write</b>	function
<b>getprev</b>	function		
<b>getproperty</b>	function		
<b>getsubtype</b>	function		
<b>has_attribute</b>	function		
<b>has_field</b>	function		
<b>has_glyph</b>	function		
<b>hpack</b>	function		
<b>id</b>	function		
<b>insert_after</b>	function		
<b>insert_before</b>	function		
<b>is_char</b>	function		
<b>is_node</b>	function		
<b>kerning</b>	function		
<b>last_node</b>	function		
<b>length</b>	function		
<b>ligaturing</b>	function		
<b>mlist_to_hlist</b>	function		
<b>new</b>	function		
<b>next</b>	function		
<b>prev</b>	function		
<b>protect_glyph</b>	function		
<b>protect_glyphs</b>	function		
<b>protrusion_skippable</b>	function		
<b>remove</b>	function		
<b>set_attribute</b>	function		
<b>set_properties_mode</b>	function		

## nodes (context)

<b>accentcodes</b>	data table	<b>free_spec</b>	function
<b>aligned</b>	function	<b>fullhpack</b>	function
<b>append</b>	function	<b>getattr</b>	function
<b>astable</b>	function	<b>getattribute</b>	function
<b>basepoints</b>	function	<b>getbox</b>	function
<b>builders</b>	table	<b>getchar</b>	function
F buildpage_filter		<b>getfield</b>	function
F vpack_filter		<b>getfont</b>	function
<b>codes</b>	data table	<b>getid</b>	function
<b>concat</b>	function	<b>getleader</b>	function
<b>copy</b>	function	<b>getlist</b>	function
<b>copy_list</b>	function	<b>getnext</b>	function
<b>copy_spec</b>	function	<b>getprev</b>	function
<b>count</b>	function	<b>getskip</b>	function
<b>current_attr</b>	function	<b>getsubtype</b>	function
<b>delete</b>	function	<b>gluecodes</b>	data table
<b>destinations</b>	table	<b>glyphcodes</b>	data table
N attribute		<b>glyphdir_is_equal</b>	data table
T done		<b>glyphdir_is_opposite</b>	data table
F handler		<b>glyphdir_is_orthogonal</b>	data table
T stack		<b>handlers</b>	table
<b>dimensionfields</b>	data table	F accessibility	
<b>dimensions</b>	function	F alignbackgrounds	
<b>dir_is_pop</b>	data table	F backgrounds	
<b>dir_negation</b>	data table	F characters	
<b>disccodes</b>	data table	F checkforleaks	
<b>discretionarycodes</b>	data table	F checkglyphs	
<b>do_ligature_n</b>	function	F cleanupbox	
<b>effective_glue</b>	function	F cleanuppage	
<b>end_of_math</b>	function	F export	
<b>fencecodes</b>	data table	F finalize	
<b>fields</b>	function	F migrate	
<b>fillcodes</b>	data table	F protectglyphs	
<b>first_glyph</b>	function	F stripping	
<b>firstcharacter</b>	function	F unprotectglyphs	
<b>firstcharinbox</b>	function	<b>has_attribute</b>	function
<b>firstdirinbox</b>	function	<b>has_field</b>	function
<b>firstglyph</b>	function	<b>has_glyph</b>	function
<b>flush_list</b>	function	<b>hpack</b>	function
<b>flush_node</b>	function	<b>idstoring</b>	function
<b>free</b>	function	<b>ignorablefields</b>	data table

<b>injections</b>	table	<b>listablefields</b>	data table
F copy		<b>listcodes</b>	data table
F getligaindex		<b>listtutf</b>	function
F handler		<b>load</b>	function
F installnewkern		<b>locate</b>	function
F keepcounts		<b>margincodes</b>	data table
F reset		<b>marginkerncodes</b>	data table
F resetcounts		<b>markers</b>	table
F setcursive		F get	
F setkern		<b>mathcodes</b>	data table
F setligaindex		<b>maxboxwidth</b>	function
F setmark		<b>mlist_to_hlist</b>	function
F setpair		<b>new</b>	function
<b>insert_after</b>	function	<b>noadcodes</b>	data table
<b>insert_before</b>	function	<b>nodecodes</b>	data table
<b>insert_list_after</b>	function	<b>nopts</b>	function
<b>installattributehandler</b>	function	<b>nuts</b>	table
<b>is_direct</b>	function	F append	
<b>is_display_math</b>	function	F concat	
<b>is_mirrored</b>	data table	F copy	
<b>is_node</b>	function	F copy_list	
<b>is_nut</b>	function	F copy_properties	
<b>is_rotated</b>	data table	F count	
<b>kerncodes</b>	data table	F current_attr	
<b>kerning</b>	function	F delete	
<b>keys</b>	table	F dimensions	
T whatsit		F do_ligature_n	
<b>last_node</b>	function	F effective_glue	
<b>leadercodes</b>	data table	F end_of_math	
<b>leftmarginwidth</b>	function	F first_glyph	
<b>ligaturing</b>	function	F firstcharacter	
<b>lines</b>	table	F firstcharinbox	
T boxed		F firstglyph	
F register		F flush_list	
F setup		F flush_node	
F stage_one		F free	
F stage_two		F fullhpack	
D data		F getattr	
F finalize		F getattribute	
F number		F getboth	
N scratchbox		F getbox	
<b>link</b>	function	F getchar	
<b>linked</b>	function	F getdisc	
<b>list</b>	function	F getfield	

F getfont	F leftskip
F getid	F lineskip
F getleader	F negatedglue
F getlist	F noad
F getnext	F pdfannotation
F getprev	F pdfdestination
F getprop	F pdfdirect
F getskip	F pdfliteral
F getsubtype	F pdfrestore
F has_attribute	F pdfsave
F has_field	F pdfsetmatrix
F has_glyph	F penalty
F hpack	F register
F insert_after	F rightmarginkern
F insert_before	F rightskip
F insert_list_after	F rule
F is_char	F shrink
F is_direct	F special
F is_display_math	F stretch
F is_node	F temp
F is_nut	F textdir
F kerning	F usage
F last_node	T userids
F leftmarginwidth	N margins.inline
F ligaturing	N property
F link	N splitters.one
F linked	N splitters.two
F locate	F userlist
F mlist_to_hlist	F usernumber
F nestedtracedslide	F userstring
F new	F usertokens
T pool	F vlist
F baselineskip	F zeroglue
F cleanup	F prepend
F disc	F protect_glyph
F fontkern	F protect_glyphs
F glue	F protrusion_skippable
F gluespec	F rawprop
F glyph	F reference
F hlist	F remove
F kern	F repackhlist
F latelua	F replace
F lateluafunction	F rightmarginwidth
F leftmarginkern	F set_attribute

F setattr  
 F setattrattribute  
 F setattrattributes  
 F setboth  
 F setbox  
 F setchar  
 F setdisc  
 F setfield  
 F setleader  
 F setlink  
 F setlist  
 F setnext  
 F setprev  
 F setprop  
 F setsubtype  
 F setunsetattributes  
 F setvisual  
 F slide  
 F somepenalty  
 F somespace  
 F tail  
 F takebox  
 F theprop  
 F tonode  
 F tonodes  
 F tonut  
 F tosequence  
 F tostring  
 F tracedslide  
 F traverse  
 F traverse\_char  
 F traverse\_id  
 T typesetters  
   F tohbox  
   F tohpack  
   F tonodes  
   F tovbox  
   F tovpack  
 F unprotect\_glyphs  
 F unset\_attribute  
 F unsetattribute  
 F unsetattributes  
 F untracedslide  
 F usedlist

F vianodes  
 F vianuts  
 F vpack  
 F writable\_spec  
 F write

**packlist**  
**pardir\_is\_equal**  
**pardir\_is\_opposite**  
**pardir\_is\_parallel**  
**partextdir\_is\_equal**  
**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 glyph  
 F kern  
 F latelua  
 F lateluafunction  
 F lineskip  
 F pdfdirect  
 F pdfliteral  
 F pdfrestore  
 F pdfsave  
 F pdfsetmatrix  
 F register  
 F rule  
 F special  
 F usage  
 F usernumber

**prepend**

function  
 data table  
 data table  
 data table  
 data table  
 data table  
 table

function  
 table

function

<b>print</b>	function	<b>setattrattributes</b>	function
<b>processors</b>	table	<b>setbox</b>	function
B enabled		<b>setfield</b>	function
F hpack_filter		<b>setunsetattributes</b>	function
F post_linebreak_filter		<b>shifts</b>	table
F pre_linebreak_filter		D data	
F tracer		F define	
<b>processwords</b>	function	F enable	
<b>properties</b>	table	F handler	
T actions		<b>show</b>	function
F delayed		<b>showboxes</b>	function
F fdelayed		<b>showcodes</b>	function
F immediate		<b>showlist</b>	function
F attach		<b>showsimplelist</b>	function
T data		<b>skipcodes</b>	data table
F delayed		<b>slide</b>	function
<b>protect_glyph</b>	function	<b>snapshots</b>	table
<b>protect_glyphs</b>	function	F getparameters	
<b>protrusion_skippable</b>	function	F getsamples	
<b>pts</b>	function	F resetsamples	
<b>radicalcodes</b>	data table	F takesample	
<b>reference</b>	function	<b>somepenalty</b>	function
<b>references</b>	table	<b>somespace</b>	function
N attribute		<b>striptdiscretionaries</b>	function
T done		<b>stripping</b>	table
F handler		T glyphs	
T stack		F set	
<b>remove</b>	function	<b>striprange</b>	function
<b>repackhlist</b>	function	<b>tail</b>	function
<b>replace</b>	function	<b>takebox</b>	function
<b>report</b>	function	<b>tasks</b>	table
<b>rightmarginwidth</b>	function	F actions	
<b>rulecodes</b>	data table	F appendaction	
<b>rules</b>	table	F disableaction	
D data		F disablegroup	
F define		F enableaction	
F enable		F enablegroup	
F handler		F freeze	
<b>save</b>	function	F freezegroup	
<b>serialize</b>	function	F new	
<b>serializebox</b>	function	F prependaction	
<b>set_attribute</b>	function	F removeaction	
<b>setattr</b>	function	F replaceaction	
<b>setattribute</b>	function	F restart	



F setaction		T nuts	
F showactions		F rule	
F table		F resetproperties	
<b>textdir_is_equal</b>	data table	F rule	
<b>textdir_is_is</b>	data table	F setlist	
<b>textdir_is_opposite</b>	data table	F setproperties	
<b>textdir_is_parallel</b>	data table	F start	
<b>tobasepoints</b>	function	T steppers	
<b>tocentimeters</b>	function	F check	
<b>tociceros</b>	function	F codes	
<b>todidots</b>	function	F features	
<b>todimen</b>	function	F font	
<b>toinches</b>	function	F glyphs	
<b>tomillimeters</b>	function	F message	
<b>tonewciceros</b>	function	F messages	
<b>tonewdidots</b>	function	F nofsteps	
<b>tonode</b>	function	F register	
<b>tonodes</b>	function	F reset	
<b>tonut</b>	function	F start	
<b>topicsas</b>	function	F stop	
<b>topoints</b>	function	F stop	
<b>toscaledpoints</b>	function	T transparencies	
<b>tosequence</b>	function	F reset	
<b>tostring</b>	function	F set	
<b>totable</b>	function	F setlist	
<b>totree</b>	function	<b>traverse</b>	function
<b>toutf</b>	function	<b>traverse_char</b>	function
<b>tracers</b>	table	<b>traverse_id</b>	function
T characters		<b>typesetters</b>	table
F collect		F hbox	
F equal		F hpack	
F start		F tohbox	
F string		F tohpack	
F unicodes		F tonodes	
T colors		F tovbox	
F reset		F tovpack	
F set		F vpack	
F setlist		<b>unprotect_glyphs</b>	function
F fontchar		<b>unset_attribute</b>	function
T frequencies		<b>unsetattribute</b>	function
F register		<b>unsetattributes</b>	function
T pool		<b>usedlist</b>	function
T nodes		<b>vianodes</b>	function
F rule		<b>vianuts</b>	function

**visualizebox**  
**visualizers**  
    F box  
    F handler  
    F markfonts  
    F setfont  
    F setlayer  
    F setvisual  
**vpack**  
**whatcodes**  
**whatsitcodes**  
**whatsitters**  
    T getters  
        T dimensions  
        T width  
    T setters  
        T dimensions  
        T width  
**writable\_spec**  
**write**

function  
table  
  
  
  
  
  
  
  
  
  
function  
data table  
data table  
table  
  
  
  
  
  
  
  
  
  
function  
function

## number (context)

	function
<b>basepoints</b>	function
<b>bit</b>	function
<b>bits</b>	function
<b>clearbit</b>	function
<b>dimenfactors</b>	data table
<b>formatted</b>	function
<b>hasbit</b>	function
<b>maxdimen</b>	number
<b>nopts</b>	function
<b>percent</b>	function
<b>points</b>	function
<b>pts</b>	function
<b>setbit</b>	function
<b>signed</b>	function
<b>sparseexponent</b>	function
<b>splitdimen</b>	function
<b>tobasepoints</b>	function
<b>tobitstring</b>	function
<b>tocentimeters</b>	function
<b>toxiceros</b>	function
<b>to didots</b>	function
<b>todimen</b>	function
<b>toevenhex</b>	function
<b>toinches</b>	function
<b>tomillimeters</b>	function
<b>tonewciceros</b>	function
<b>tonewdidots</b>	function
<b>tonumberf</b>	function
<b>tonumberg</b>	function
<b>topicsas</b>	function
<b>topoints</b>	function
<b>toscaled</b>	function
<b>toscaledpoints</b>	function
<b>toset</b>	function
<b>valid</b>	function

## objects (context)

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

## os (basic lua)

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

## package (basic lua)

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

# pagebuilders (context)

## **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)

<b>fontname</b>	function	<b>objtype</b>	function
<b>fontobjnum</b>	function	<b>pageref</b>	function
<b>fontsize</b>	function	<b>print</b>	function
<b>getcatalog</b>	function	<b>refobj</b>	function
<b>getcompresslevel</b>	function	<b>registerannot</b>	overloaded function
<b>getdecimaldigits</b>	function	<b>reserveobj</b>	function
<b>getdestmargin</b>	function	<b>setcatalog</b>	overloaded function
<b>gethpos</b>	function	<b>setcompresslevel</b>	function
<b>getignoreunknownimages</b>	function	<b>setdecimaldigits</b>	function
<b>getinclusionerrorlevel</b>	function	<b>setdestmargin</b>	function
<b>getinfo</b>	function	<b>setignoreunknownimages</b>	function
<b>getlastannot</b>	function	<b>setinclusionerrorlevel</b>	function
<b>getlastlink</b>	function	<b>setinfo</b>	overloaded function
<b>getlastobj</b>	function	<b>setlinkmargin</b>	function
<b>getlinkmargin</b>	function	<b>setmajorversion</b>	function
<b>getmajorversion</b>	function	<b>setminorversion</b>	function
<b>getmatrix</b>	function	<b>setnames</b>	overloaded function
<b>getminorversion</b>	function	<b>setobjcompresslevel</b>	function
<b>getnames</b>	function	<b>setorigin</b>	function
<b>getobjcompresslevel</b>	function	<b>setpageattributes</b>	overloaded function
<b>getorigin</b>	function	<b>setpageresources</b>	overloaded function
<b>getpageattributes</b>	function	<b>setpagesattributes</b>	overloaded function
<b>getpageresources</b>	function	<b>setpkresolution</b>	function
<b>getpagesattributes</b>	function	<b>setthreadmargin</b>	function
<b>getpkresolution</b>	function	<b>settrailer</b>	overloaded function
<b>getpos</b>	function	<b>setxformattributes</b>	function
<b>getretval</b>	function	<b>setxformmargin</b>	function
<b>getthreadmargin</b>	function	<b>setxformresources</b>	function
<b>gettrailer</b>	function	<b>xformname</b>	function
<b>getversion</b>	function		
<b>getvpos</b>	function		
<b>getxformattributes</b>	function		
<b>getxformmargin</b>	function		
<b>getxformresources</b>	function		
<b>hasmatrix</b>	function		
<b>immediateobj</b>	function		
<b>mapfile</b>	function		
<b>mapline</b>	function		
<b>maxobjnum</b>	function		
<b>newcolorstack</b>	function		
<b>obj</b>	function		



# pdfscanner (context)

**scan** function

# physics (context)

**units** table

F registerunit

D tables

## profiler (extra lua)

**pause**    function  
**resume**   function  
**start**    function  
**stop**     function

# publications (context)

<b>addtexentry</b>	function	S author
<b>analyze</b>	function	T categories
<b>anywhere</b>	function	T article
<b>authorcache</b>	data table	S category
<b>authorcollapsers</b>	data table	T extra
<b>authorhashers</b>	table	T fields
F invertedshort		S author
F normal		S editor
F normalinverted		S journal
F normalshort		S keywords
F short		S number
<b>authormap</b>	data table	S pages
<b>authortoregister</b>	function	S title
<b>casters</b>	table	S volume
F author		S year
F keyword		T optional
F pagenumber		T required
F range		T sets
<b>checkeddataset</b>	function	T author
<b>citevariants</b>	table	T virtual
F author		T book
F authornum		S category
F authoryear		T extra
F authoryears		T fields
F category		S address
F default		S author
F entry		S edition
F index		S editor
F keywords		S keywords
F num		S number
F page		S publisher
F short		S subtitle
F tag		S title
F textnum		S volume
F year		S year
<b>collected</b>	data table	T optional
<b>components</b>	table	T required
F author		T sets
<b>concatstate</b>	function	T author
<b>converttoxml</b>	function	T editionset
<b>currentspecification</b>	table	T 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	<b>enhancers</b>	table
S author	F details	
S institution	F order	
S organization	F suffixes	
S subtitle	<b>finder</b>	function
S title	<b>firstofrange</b>	function
S year	<b>found</b>	function
T optional	<b>get</b>	function
T required	<b>getcasted</b>	function
T sets	<b>getdetail</b>	function
T authors	<b>getdirect</b>	function
T virtual	<b>getfaster</b>	function
S comment	<b>getfield</b>	function
S copyright	<b>getfuzzy</b>	function
T fields	<b>getindex</b>	function
S name	<b>inspectors</b>	data table
T types	<b>journals</b>	table
S author	F abbreviated	
S editor	F add	
S keywords	F expanded	
S number	F load	
S page	F save	
S pages	<b>lastofrange</b>	function
S volume	<b>lists</b>	table
S version	F collectentries	
D virtual	F combiinlist	

F fetchentries		<b>okay</b>	function
F filterall		<b>oneorange</b>	function
F flushcombi		<b>parenttag</b>	function
F flushentry		<b>permitted</b>	function
T methods		<b>refman_to_btx</b>	function
F dataset		<b>resolvedname</b>	function
F force		<b>save</b>	function
F global		<b>search</b>	function
F local		<b>setcategory</b>	function
F nofreeregistered		<b>setspecification</b>	function
F prepareentries		<b>singularorplural</b>	function
F register		<b>sortedentries</b>	function
F sameasprevious		<b>sortmethods</b>	table
T sorters		T authoryear	
F cite		T sequence	
F dataset		<b>specifications</b>	table
F default		T default	
F index		S author	
F list		S comment	
F reference		S copyright	
F short		S name	
F used		S version	
F uservariable		D virtual	
<b>listvariants</b>	table	<b>splitauthor</b>	function
F default		<b>splitoneauthor</b>	function
F index		<b>statistics</b>	table
F num		N nofbytes	
F page		N nofdatasets	
F short		N nofdefinitions	
F tag		N nofshortcuts	
<b>load</b>	function	<b>tables</b>	table
<b>loadbibdata</b>	function	D implicits	
<b>loaddefinitionfile</b>	function	D origins	
<b>loaders</b>	table	D privates	
F bbl		D sets	
F bib		D specials	
F buffer		D types	
F endnote		D virtuals	
F lua		<b>tags</b>	function
F refman		<b>tracers</b>	table
F registercleaner		F showdatasetauthors	
F xml		F showdatasetcompleteness	
<b>loadreplacementfile</b>	function	F showdatasetfields	
<b>new</b>	function	F showentry	

F showfields

F showhashedauthors

F showtables

F showvariants

## **typesetters**

table

F author

F string

## **usedataset**

function

## **usedentries**

function

## **writers**

table

F author

F keyword

F pagenumber

F range

## regimes (context)

<b>cleanup</b>	function
<b>disable</b>	function
<b>enable</b>	function
<b>fromregime</b>	function
<b>pop</b>	function
<b>process</b>	function
<b>push</b>	function
<b>to regime</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>automounted</b>	table	<b>formatofsuffix</b>	function
<b>booleanvariable</b>	function	<b>formatofvariable</b>	function
<b>cacheversion</b>	string	<b>formats</b>	data table
<b>checkedvariable</b>	function	<b>generators</b>	data table
<b>cleanedpathlist</b>	function	<b>get_from_content</b>	function
<b>cleanpath</b>	function	<b>getenv</b>	function
<b>cleanpathlist</b>	function	<b>getownpath</b>	function
<b>concatinators</b>	data table	<b>getreadfilename</b>	function
<b>configbanner</b>	string	<b>hashers</b>	data table
<b>criticalvars</b>	data table	<b>homedir</b>	string
<b>dangerous</b>	data table	<b>inputstack</b>	table
<b>datastate</b>	function	<b>installinputfilehandler</b>	function
<b>defaultsuffixes</b>	table	<b>installinputlinehandler</b>	function
<b>dowithfilesandreport</b>	function	<b>instance</b>	table
<b>dowithfilesintree</b>	function	D data	
<b>dowithpath</b>	function	B diskcache	
<b>dowithvariable</b>	function	D environment	
<b>env</b>	function	D expansions	
<b>executers</b>	table	D fakepaths	
<b>expandbraces</b>	function	D files	
<b>expandedpathfromlist</b>	function	B force_suffixes	
<b>expandedpathlist</b>	function	D found	
<b>expandedpathlistfromvariable</b>	function	D foundintrees	
<b>expandpath</b>	function	D hashed	
<b>expandpathfromvariable</b>	function	D hashes	
<b>expansion</b>	function	D lists	
<b>extendtexmfvariable</b>	function	B loaderror	
<b>filtered_from_content</b>	function	D order	
<b>find_file</b>	function	D pathlists	
<b>find_files</b>	function	T pathstack	
<b>findbinfile</b>	function	B remember	
<b>findctxfile</b>	function	B renewcache	
<b>finders</b>	data table	B renewtree	
<b>findfile</b>	function	B savelists	
<b>findfiles</b>	function	D setups	
<b>findgivenfile</b>	function	D specification	
<b>findgivenfiles</b>	function	D variables	
<b>findpath</b>	function	<b>jobpath</b>	function

<b>jobs</b>	table	<b>registerextrapath</b>	function
F currentcomponent		<b>registerfile</b>	function
F currentenvironment		<b>registerfilehash</b>	function
F currentproduct		<b>registerintrees</b>	function
F currentproject		<b>registermethod</b>	function
F justacomponent		<b>registerzipfile</b>	function
D processors		<b>relations</b>	data table
F productcomponent		<b>renew</b>	function
F usefile		<b>repath</b>	function
<b>joinpath</b>	function	<b>reset</b>	function
<b>load</b>	function	<b>resetextrapath</b>	function
<b>loadbinfile</b>	function	<b>resetresolve</b>	function
<b>loaders</b>	data table	<b>resolve</b>	function
<b>loadlualib</b>	function	<b>savers</b>	data table
<b>loadtexfile</b>	function	<b>scandata</b>	function
<b>loadtime</b>	function	<b>scanfiles</b>	function
<b>locateformat</b>	function	<b>schemes</b>	table
<b>locators</b>	data table	T cleaners	
<b>luacnfname</b>	string	F md5	
<b>luacnfspec</b>	string	F none	
<b>luacnfstate</b>	string	F strip	
<b>macros</b>	table	F cleanname	
F convertfile		F fetchstring	
F decodecomment		F fetchtable	
F enablecomment		F install	
F encodecomment		<b>setdynamic</b>	function
F preprocessed		<b>setenv</b>	function
F processmk		<b>setinstance</b>	function
F processmkvi		<b>showpath</b>	function
F version		<b>simplescanfiles</b>	function
<b>maxreadlevel</b>	number	<b>splitconfigurationpath</b>	function
<b>methodhandler</b>	function	<b>splitexpansions</b>	function
<b>newinstance</b>	function	<b>splitmethod</b>	function
<b>openbinfile</b>	function	<b>splitpath</b>	function
<b>openers</b>	data table	<b>stackpath</b>	function
<b>openfile</b>	function	<b>suffixes</b>	data table
<b>opentexfile</b>	function	<b>suffixmap</b>	data table
<b>ownpath</b>	string	<b>suffixofformat</b>	function
<b>popextrapath</b>	function	<b>texdatablob</b>	function
<b>poppath</b>	function	<b>toppath</b>	function
<b>prefixes</b>	data table	<b>unexpandedpath</b>	function
<b>prependhash</b>	function	<b>unexpandedpathlist</b>	function
<b>pushextrapath</b>	function	<b>unresolve</b>	function
<b>pushpath</b>	function	<b>updaterelations</b>	function

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

## sandbox (context)

<b>binaryhandler</b>	function
<b>disablerunners</b>	function
<b>enable</b>	function
<b>filehandlerone</b>	function
<b>filehandlertwo</b>	function
<b>finalizer</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>registerroot</b>	function
<b>registerrunner</b>	function
<b>report</b>	function
<b>run</b>	function
<b>runhandler</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

**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

# socket (extra lua)

**BLOCKSIZE** number  
**\_DEBUG** boolean  
**\_SETSIZE** number  
**bind** function  
**choose** function  
**connect** function  
**connect4** function  
**connect6** function  
**dns** table

F getaddrinfo  
F gethostname  
F getnameinfo  
F tohostname  
F toip

**ftp** table

S PASSWORD  
N PORT  
N TIMEOUT  
S USER  
F command  
F get  
F open  
F put

**gettime** function

**headers** table

T canonic  
S accept  
S accept-charset  
S accept-encoding  
S accept-language  
S accept-ranges  
S action  
S age  
S allow  
S alternate-recipient  
S arrival-date  
S authorization  
S bcc  
S cache-control  
S cc  
S comments

S connection  
S content-description  
S content-disposition  
S content-encoding  
S content-id  
S content-language  
S content-length  
S content-location  
S content-md5  
S content-range  
S content-transfer-encoding  
S content-type  
S date  
S diagnostic-code  
S dsn-gateway  
S etag  
S expect  
S expires  
S final-log-id  
S final-recipient  
S from  
S host  
S if-match  
S if-modified-since  
S if-none-match  
S if-range  
S if-unmodified-since  
S in-reply-to  
S keywords  
S last-attempt-date  
S last-modified  
S location  
S max-forwards  
S message-id  
S mime-version  
S original-envelope-id  
S original-recipient  
S pragma  
S proxy-authenticate  
S proxy-authorization  
S range

S received  
 S received-from-mta  
 S references  
 S referer  
 S remote-mta  
 S reply-to  
 S reporting-mta  
 S resent-bcc  
 S resent-cc  
 S resent-date  
 S resent-from  
 S resent-message-id  
 S resent-reply-to  
 S resent-sender  
 S resent-to  
 S retry-after  
 S return-path  
 S sender  
 S server  
 S smtp-remote-recipient  
 S status  
 S subject  
 S te  
 S to  
 S trailer  
 S transfer-encoding  
 S upgrade  
 S user-agent  
 S vary  
 S via  
 S warning  
 S will-retry-until  
 S www-authenticate  
 S x-mailer

## http table

N PORT  
 N TIMEOUT  
 S USERAGENT  
 F open  
 F request

**newtry** function  
**protect** function  
**select** function  
**sink** function

## sinkt table

F close-when-done  
 F default  
 F http-chunked  
 F keep-open

## skip function

## sleep function

## smtp table

S DOMAIN  
 N PORT  
 S SERVER  
 N TIMEOUT  
 S ZONE  
 F message  
 F open  
 F send

## source function

## sourcet table

F by-length  
 F default  
 F http-chunked  
 F until-closed

## tcp function

## tcp6 function

## tp table

N TIMEOUT  
 F connect

## try function

## udp function

## udp6 function

## url table

F absolute  
 F build  
 F build\_path  
 F escape  
 F parse  
 F parse\_path  
 F unescape



# sorters (context)

**basicsorter** function

**comparers** table

F basic

**constants** table

S defaultdigits

S defaultlanguage

S defaultmethod

N digitmaximum

N digitoffset

N ignoredoffset

N replacementoffset

T validmethods

B ch

B mc

B mm

B pc

B pm

B uc

B zc

B zm

**definitions** data table

**firstofsplit** function

**packch** function

**packuc** function

**setlanguage** function

**sort** function

**splitters** table

F utf

**strip** function

**tracers** data table

**update** function

## statistics (context)

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

## status (basic tex)

**list**                    function

**resetmessages**    function

## storage (context)

<b>allocate</b>	function
<b>data</b>	table
<b>mark</b>	function
<b>marked</b>	function
<b>max</b>	number
<b>min</b>	number
<b>nofmodules</b>	number
<b>noftables</b>	number
<b>register</b>	function
<b>shared</b>	data table
<b>storedfunctions</b>	data table
<b>strip</b>	boolean
<b>tofmodules</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>sub</b>	function
<b>autosingle</b>	function	<b>tformat</b>	function
<b>booleanstring</b>	function	<b>toHEX</b>	function
<b>byte</b>	function	<b>toboollean</b>	function
<b>bytepairs</b>	function	<b>tobytes</b>	function
<b>bytes</b>	function	<b>tocontext</b>	function
<b>char</b>	function	<b>todec</b>	function
<b>characterpairs</b>	function	<b>todimen</b>	function
<b>characters</b>	function	<b>tohex</b>	function
<b>checkedsplit</b>	function	<b>tonodes</b>	function
<b>collapsespaces</b>	function	<b>topattern</b>	function
<b>count</b>	function	<b>totable</b>	function
<b>dump</b>	function	<b>toutf</b>	function
<b>escapedpattern</b>	function	<b>tracedchar</b>	function
<b>explode</b>	function	<b>tracedchars</b>	table
<b>find</b>	function	<b>unquote</b>	function
<b>format</b>	function	<b>unquoted</b>	function
<b>formatter</b>	function	<b>upper</b>	function
<b>formatters</b>	function	<b>utfcharacters</b>	function
<b>fullstrip</b>	function	<b>utfvalues</b>	function
<b>gmatch</b>	function	<b>valid</b>	function
<b>gsub</b>	function		
<b>is_boolean</b>	function		
<b>is_empty</b>	function		
<b>itself</b>	function		
<b>len</b>	function		
<b>limit</b>	function		
<b>longtostring</b>	function		
<b>lower</b>	function		
<b>match</b>	function		
<b>nspaces</b>	table		
<b>optionalquoted</b>	function		
<b>quote</b>	function		
<b>quoted</b>	function		
<b>rep</b>	function		
<b>replacenewlines</b>	function		
<b>reverse</b>	function		
<b>split</b>	function		
<b>splitlines</b>	function		
<b>splitup</b>	function		
<b>strip</b>	function		

# structures (context)

<b>atlocation</b>	function	F previous
<b>blocks</b>	table	F raw
D collected		F record
F define		F reset
F print		F restart
F save		F restore
F select		F save
F setstate		F set
D states		F setlevel
D tobesaved		F setoffset
<b>bookmarks</b>	table	F setown
T extras		F setstate
F get		F setvalue
F mergesections		T specials
F register		F userpage
F reset		F subs
F tosections		D tobesaved
F finalize		F value
F flatten		F way
F installhandler		<b>currentsectionnumber</b> function
F merge		<b>descriptions</b> table
S method		<b>documents</b> table
F overload		D data
F place		F initialize
F register		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 prefix
D data		F prefixlastpage
F define		F prefixpage
F first		F simplify
F get		F title
F last		F touserdata
F next		<b>inserts</b> table
F prev		D data

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	
		F uservalue	
<b>itemgroups</b>	<b>table</b>	<b>marks</b>	<b>table</b>
<b>lists</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 checkpagechange	
F number		F define	
D ordered		F doifonsamepageasprevious	
F page		F get	
F popnesting		F getdeltapage	
F prefix		F getn	
F prefixednumber		F getnumberpage	
F prefixedpage		F getstate	
F process		F getsymbolpage	
D pushed		F hascontent	
F pushnesting		F internal	
F realpage		F internalid	
F reordered		F listindex	
T result		F ordered	
F savedlistnumber		F postpone	



F resetpostponed		D filters
F restore		D flaginternals
F save		F from
F setstate		D functions
F setsymbolpage		F get
D states		F getcurrentmetadata
F store		F getcurrentprefixspec
<b>pages</b>	<b>table</b>	F getinnermethod
F analyze		F getinternallistreference
D collected		F getinternalreference
F in_body		D handlers
F is_odd		F identify
N nopages		F import
F number		F inject
F on_right		F injectcurrentset
F save		S innermethod
D tobesaved		D internals
<b>references</b>	<b>table</b>	F load
F analyze		F loadpresets
F checkedfile		F mark
F checkedfileorurl		D pages
F checkedprogram		U prefixsplitter
F checkedrealpage		D productdata
F checkedurl		T programs
D collected		T data
U componentsplitter		F define
F currentmetadata		F get
F currentorder		F realpageofpage
D currentset		U referencesplitter
F define		D referred
D defined		F referredpage
D derived		F registerfinalizer
F enableinteraction		F registerinitializer
F enhance		F registerpage
D executers		F reportproblems
F expandcurrent		F reset
F export		D runners
T files		F set
T data		F setandgetattribute
F define		F setcomponent
F found		F setinnermethod
F get		F setinternalreference
F filter		F setnextinternal
F filterdefault		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
- D usedinternals
- D usedviews
- F valid

**registers**

- F analyze
- D collected
- F compare
- F define
- F enhance
- F extend
- F filter
- F filtercollected
- F finalize
- F flush
- F get
- F prepare
- F process

table

- 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 load
- F matchingtilldepth
- F numberatdepth
- F numbers
- F popblock
- F prefixedconverted
- F pushblock
- F register
- D registered
- F reportstructure
- F save
- T sectionblockdata
  - T bodypart
    - S bookmark
- F set
- F setblock
- F setchecker
- F setentry
- F setinitialblock

table

F setlevel		D labels
F setnumber		F last
F structuredata		F lastinchain
F title		F locatedtag
D tobesaved		T patterns
F typesetnumber		U splitter
F userdata		D properties
B verbose		F registermetadata
<b>sets</b>	<b>table</b>	F restart
F define		F setaspect
F get		F setattributefield
F getall		F setcombination
D setlist		F setfigure
<b>specials</b>	<b>table</b>	F sethighlight
D collected		F setitem
F retrieve		F setitemgroup
F store		F setlist
D tobesaved		F setnotation
<b>synonyms</b>	<b>table</b>	F setnotationsymbol
F analyzed		F setproperty
D collected		F setregister
F compare		F setsorting
F define		F setsynonym
F filter		F settablecell
F finalize		F settabletecell
F flush		F settagdelimitedsymbol
F isshown		F settagssubsentencesymbol
F isused		F setupexport
F meaning		F setuserproperties
F prepare		D specifications
F process		F start
F register		F stop
F registershown		F strip
F registerused		D taglist
F resetshown		T usewithcare
F resetused		T images
F sort		
F synonym		
D tobesaved		
<b>tags</b>	<b>table</b>	
F elementtag		
F finishexport		
F getid		
F handler		

## table (basic lua)

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

## tex (basic tex)

<b>attribute</b>	table	<b>ifs</b>	data table
<b>badness</b>	function	<b>inimatcodes</b>	number
<b>box</b>	table	<b>init_rand</b>	function
<b>catcode</b>	table	<b>isattribute</b>	function
<b>conditionals</b>	data table	<b>isbox</b>	function
<b>constants</b>	data table	<b>iscount</b>	overloaded function
<b>count</b>	table	<b>isdefined</b>	function
<b>ctdcatcodes</b>	number	<b>isdimen</b>	overloaded function
<b>ctxcatcodes</b>	number	<b>ismuskip</b>	overloaded function
<b>definefont</b>	function	<b>isskip</b>	overloaded function
<b>delcode</b>	table	<b>istoken</b>	function
<b>dimen</b>	table	<b>istoks</b>	function
<b>directives</b>	data table	<b>lccode</b>	table
<b>enableprimitives</b>	function	<b>linebreak</b>	function
<b>error</b>	function	<b>lists</b>	table
<b>extraprimitives</b>	function	<b>lua_math_random</b>	function
<b>finish</b>	function	<b>lua_math_randomseed</b>	function
<b>fontidentifier</b>	function	<b>luacatcodes</b>	number
<b>fontname</b>	function	<b>mathcode</b>	table
<b>fprint</b>	function	<b>modes</b>	data table
<b>get</b>	function	<b>muskip</b>	table
<b>getattribute</b>	function	<b>nest</b>	table
<b>getbox</b>	function	<b>nilcatcodes</b>	number
<b>getboxresourcedimensions</b>	function	<b>normal_rand</b>	function
<b>getcatcode</b>	function	<b>notcatcodes</b>	number
<b>getcount</b>	function	<b>number</b>	function
<b>getdelcode</b>	function	<b>primitives</b>	function
<b>getdelcodes</b>	function	<b>print</b>	function
<b>getdimen</b>	function	<b>prtcacodes</b>	number
<b>getlccode</b>	function	<b>romannumeral</b>	function
<b>getlist</b>	function	<b>round</b>	function
<b>getmath</b>	function	<b>run</b>	function
<b>getmathcode</b>	function	<b>saveboxresource</b>	function
<b>getmathcodes</b>	function	<b>scale</b>	function
<b>getmuskip</b>	function	<b>scantoks</b>	function
<b>getnest</b>	function	<b>set</b>	function
<b>getsfcode</b>	function	<b>setattribute</b>	function
<b>getskip</b>	function	<b>setbox</b>	function
<b>gettoks</b>	function	<b>setcatcode</b>	function
<b>getuccode</b>	function	<b>setcount</b>	function
<b>hashtokens</b>	function	<b>setdelcode</b>	function

<b>setdimen</b>	function
<b>setlccode</b>	function
<b>setlist</b>	function
<b>setmath</b>	function
<b>setmathcode</b>	function
<b>setmuskip</b>	function
<b>setnest</b>	function
<b>setsfcode</b>	function
<b>setskip</b>	function
<b>settoks</b>	function
<b>setuccode</b>	function
<b>sfcode</b>	table
<b>shipout</b>	function
<b>show_context</b>	function
<b>skip</b>	table
<b>sp</b>	function
<b>sprint</b>	function
<b>systemmodes</b>	data table
<b>takebox</b>	function
<b>texcatcodes</b>	number
<b>toks</b>	table
<b>tpacatcodes</b>	number
<b>tpbcatcodes</b>	number
<b>tprint</b>	function
<b>trackers</b>	data table
<b>triggerbuildpage</b>	function
<b>txtcatcodes</b>	number
<b>type</b>	function
<b>uccode</b>	table
<b>uniform_rand</b>	function
<b>uniformdeviate</b>	function
<b>uprint</b>	function
<b>useboxresource</b>	function
<b>vrbcacodes</b>	number
<b>write</b>	function

## texconfig (basic tex)

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

## texio (basic tex)

```
setescape  function
write      function
write_nl   function
```



# tokens (context)

**astable** function  
**bgroup** userdata  
**bits** table

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  
N space  
N subscript  
N superscript  
N whitespace

**collectors** table

T data  
F defaultwords  
F dowithwords  
F flush  
F install  
F register  
T registered  
F show  
F test

**compile** function  
**constant** function  
**converters** table

S toboolean  
S todimen  
S toglue  
S tonumber  
S tostring

**egroup** userdata  
**getters** table

F box  
F count  
F dimen  
F token

**hbox** userdata  
**istoken** function  
**letter** function  
**letters** function  
**other** function  
**pickup** function  
**printlist** function  
**scanners** table

F boolean  
F code  
F conditional  
F count  
F csname  
F dimen  
F dimension  
F glue  
F integer  
F keyword  
F list  
F lxmlid  
F number  
F scanclose  
F scanopen  
F skip  
F string  
F token  
F tokens  
F toks  
F word

**scantable** function  
**setters** table

F box  
F count  
F dimen  
F macro

## shortcuts table

T bits	F glue
N active	F integer
N alignment	F keyword
N begingroup	F list
N character	F lxmlid
N close	F number
N comment	F scanclose
N endgroup	F scanopen
N endofline	F skip
N escape	F string
N ignore	F token
N invalid	F tokens
N letter	F toks
N mathshift	F word
N open	F scannumber
N other	F scanopen
N parameter	F scanstring
N space	F scanword
N subscript	F toboolean
N superscript	F todimen
N whitespace	T tokens
N close	F astable
F inspect	U bgroup
N open	T collectors
F report	F defaultwords
F scanboolean	F dowithwords
F scanclose	F flush
F scancode	F install
F scanconditional	F register
F scanscname	F show
F scandimen	F test
F scandimension	F compile
F scaninteger	F constant
F scankeyword	T converters
F scanlist	S toboolean
T scanners	S todimen
F boolean	S toglue
F code	S tonumber
F conditional	S toString
F count	U egroup
F csname	T getters
F dimen	F box
F dimension	F count
	F dimen

- F token
- U hbox
- F istoken
- F letter
- F letters
- F other
- F pickup
- F printlist
- F scantable
- T setters
  - F box
  - F count
  - F dimen
  - F macro
- T shortcuts
  - N close
  - F inspect
  - N open
  - F report
  - F scanboolean
  - F scanclose
  - F scancode
  - F scanconditional
  - F scanscname
  - F scandimen
  - F scandimension
  - F scaninteger
  - F scankeyword
  - F scanlist
  - F scannumber
  - F scanopen
  - F scanstring
  - F scanword
  - F toboolean
  - F todimen
  - F tonumber
  - F tostring
- U vbox
- U vtop
- F tonumber
- F tostring
- vbox**            userdata
- vtop**            userdata

# tracers (context)

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

## trackers (context)

<b>data</b>	data table
<b>default</b>	function
<b>disable</b>	function
<b>dumphashtofile</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>savehash</b>	function
<b>show</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

## **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 forcevariant  
F handler  
F reset  
F set

## **kerns** table

D factors  
F handler  
F keepligature

- B keepetogether
- 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 ha
  - F localhandler
  - F save
- marksuspects**      function
- paragraphs**        table
  - F addanchortoline
  - F addtoline
  - F calculatedelta
  - F checkline
  - F handler
  - F moveinline
  - F normalize
  - F set
- processors**        table
  - F apply
  - F register
  - F reset
  - F split
  - F startapply
  - F stopapply
  - F stripped
  - F toString
- 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

# unicode (extra lua)

## ascii table

F byte  
F char  
F dump  
F find  
F format  
F gfind  
F gmatch  
F gsub  
F len  
F lower  
F match  
F rep  
F reverse  
F sub  
F upper

## grapheme table

F byte  
F char  
F dump  
F find  
F format  
F gfind  
F gmatch  
F gsub  
F len  
F lower  
F match  
F rep  
F reverse  
F sub  
F upper

## latin1 table

F byte  
F char  
F dump  
F find  
F format  
F gfind  
F gmatch  
F gsub

F len  
F lower  
F match  
F rep  
F reverse  
F sub  
F upper

## utf8 table

F byte  
F char  
F characters  
F chrln  
F count  
F dump  
F filetype  
F find  
F format  
F gfind  
F gmatch  
F gsub  
F is\_valid  
F len  
F length  
F lower  
F magic  
F match  
F remapper  
F rep  
F replacer  
F reverse  
F split  
F splitlines  
F sub  
F substituter  
F tocodes  
F toeight  
F toentities  
F tostring  
F totable  
F upper  
F ustring



F utf16\_to\_utf8\_be  
F utf16\_to\_utf8\_be\_t  
F utf16\_to\_utf8\_le  
F utf16\_to\_utf8\_le\_t  
F utf16\_to\_utf8\_t  
F utf32\_to\_utf8\_be  
F utf32\_to\_utf8\_be\_t  
F utf32\_to\_utf8\_le  
F utf32\_to\_utf8\_le\_t  
F utf32\_to\_utf8\_t  
F utf8\_to\_utf16  
F utf8\_to\_utf16\_be  
F utf8\_to\_utf16\_le  
F utf8\_to\_utf8\_t  
F values  
F xstring

## url (context)

<b>addscheme</b>	function
<b>barepath</b>	function
<b>construct</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>unescapeget</b>	function

# utilities (context)

<b>debugger</b>	table	
F disable		B alwaysstripcode
F enable		F compile
F savestats		F loadedluacode
F showstats		F loadstripped
F showtraceback		N nofstrippedbytes
		N nofstrippedchunks
<b>files</b>	table	B stripcode
F close		T strippedchunks
F getposition		F strippedloadstring
F look		T suffixes
F open		S lua
F read2dot14		S luc
F readbyte		S lui
F readbytes		S luj
F readcardinal		S luv
F readcardinal1		S tma
F readcardinal2		S tmc
F readcardinal3		S tua
F readcardinal4		S tuc
F readchar		
F readfixed4		<b>packers</b> table
F readinteger		F hashed
F readinteger1		F new
F readinteger2		F pack
F readinteger4		F simplehashed
F readstring		F strip
F readtag		F unpack
F setposition		N version
F size		<b>parsers</b> table
F skip		F add_settings_to_array
F skiplong		F arguments_to_table
F skipshort		F array_to_string
<b>formatters</b>	table	F csvsplitter
F formatcolumns		F getparameters
F list		F groupedsplitat
F stripzeros		F hash_to_string
<b>garbagecollector</b>	table	T hashes
F check		T settings_to_set
N criterium		T max,fit,broad,auto
B enabled		B auto
<b>lua</b>	table	B broad
		B fit

B max		F enableaction	
T text,hidden,paper,page,leftpage,rightpage		F enablegroup	
B hidden		D functions	
B leftpage		F localize	
B page		F new	
B paper		F nodeprocessor	
B rightpage		F prependaction	
B text		F prependgroup	
F iterator		F removeaction	
F keq_to_hash		F replaceaction	
F listitem		F setkind	
F make_settings_to_hash_pattern		F tostring	
F mergehashes		<b>setters</b>	table
F options_to_array		F disable	
F options_to_hash		F enable	
T patterns		F initialize	
U settings_to_array		F list	
U settings_to_hash_a		F new	
U settings_to_hash_b		F register	
U settings_to_hash_c		F report	
U unittotex		F reset	
F process_stripped_settings		F show	
F rfc4180splitter		<b>stacker</b>	table
F runtime		F new	
F settings_to_array		<b>storage</b>	table
F settings_to_array_with_repeat		F allocate	
F settings_to_hash		F checked	
F settings_to_hash_strict		F mark	
F settings_to_hash_tolerant		F marked	
F settings_to_set		F setinitializer	
F simple_hash_to_string		F sparse	
F splitmethod		<b>streams</b>	table
F splitthousands		F close	
F stepper		F getposition	
F stripped_settings_to_array		F look	
F unittotex		F open	
F unittoxml		F read2dot14	
<b>report</b>	function	F readbyte	
<b>sequencers</b>	table	F readbytes	
F appendaction		F readcardinal	
F appendgroup		F readcardinal1	
F compile		F readcardinal2	
F disableaction		F readcardinal3	
F disablegroup		F readcardinal4	

F readchar	F replace
F readfixed4	F replacer
F readinteger	F resolve
F readinteger1	
F readinteger2	
F readinteger4	
F readstring	
F setposition	
F size	
F skip	
F skipbytes	
F skiplong	
F skipshort	

## **strings** table

F collapsecrlf
T formatters
F add
F new
F newrepeater
F nice
T striplinepatterns
U collapse
U prune
U prune and collapse
U prune and no empty
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
--------

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

## xml (context)

<b>addentitiesdoctype</b>	function	D parsedxml	
<b>addspecialcode</b>	function	D string	
<b>after</b>	function	D tex	
<b>all</b>	function	D texline	
<b>applylpath</b>	function	D texspace	
<b>assign</b>	function	D verbose	
<b>attribute</b>	function	<b>defaultprotocol</b>	string
<b>badinclusions</b>	function	<b>delete</b>	function
<b>before</b>	function	<b>delete_element</b>	function
<b>body</b>	function	<b>each</b>	function
<b>builtinentities</b>	table	<b>each_element</b>	function
B amp		<b>elements</b>	function
B apos		<b>elementtocdata</b>	function
B gt		<b>empty</b>	function
B lt		<b>entities</b>	data table
B quot		<b>erase</b>	function
<b>cdata</b>	function	<b>errorhandler</b>	function
<b>cdatatotext</b>	function	<b>escaped</b>	function
<b>checkbom</b>	function	<b>expressions</b>	table
<b>checkerror</b>	function	F boolean	
<b>checknamespace</b>	function	F child	
<b>checkns</b>	function	F contains	
<b>cleansed</b>	function	F count	
<b>collect</b>	function	F error	
<del><b>collect_elements</b></del>	<del>function</del>	F find	
<b>collect_tags</b>	function	F idstring	
<del><b>collect_texts</b></del>	<del>function</del>	F lower	
<b>collected</b>	function	F name	
<b>collecttexts</b>	function	F number	
<b>content</b>	function	F oneof	
<b>convert</b>	function	F print	
<b>copy</b>	function	F quit	
<b>count</b>	function	F tag	
<b>cprint</b>	function	F text	
<b>css</b>	table	F undefined	
F colorspecification		F upper	
F dimension		<b>fillin</b>	function
F fontspecification		<b>filter</b>	function
F padding		<b>finalizers</b>	table
<b>defaulthandlers</b>	table	F paragraphs	
D file		T tex	



F all	F match	
F attribute	F name	
F chainattribute	F position	
F chainpath	F reverse	
F command	F table	
F concat	F tag	
F concatrange	F tags	
F context	F text	
F count	F texts	
F ctxtext	F upperall	
F default	<b>first</b>	function
F first	<b>found</b>	function
F function	<b>functions</b>	table
F index	<b>getbuffer</b>	function
F last	<b>gethandlers</b>	function
F lettered	<b>gethandlersfunction</b>	function
F lower	<b>helpers</b>	table
F lowerall	F recursetext	
F match	<b>include</b>	function
F name	<b>inclusion</b>	function
F position	<b>inclusions</b>	function
F reverse	<b>index</b>	function
F stripped	<b>inheritedconvert</b>	function
F tag	<b>inject</b>	function
F tags	<b>inject_element</b>	function
F text	<b>inject_element_after</b>	function
F upper	<b>inject_element_before</b>	function
F upperall	<b>injectafter</b>	function
T xml	<b>injectbefore</b>	function
F all	<b>insert</b>	function
F att	<b>insert_element</b>	function
F attribute	<b>insert_element_after</b>	function
F attributes	<b>insert_element_before</b>	function
F cdata	<b>insertafter</b>	function
F chainattribute	<b>insertbefore</b>	function
F count	<b>insertcdata</b>	function
F default	<b>insertcomment</b>	function
F elements	<b>inspect</b>	function
F empty	<b>is_valid</b>	function
F first	<b>kind</b>	function
F function	<b>last</b>	function
F index	<b>lastmatch</b>	function
F last	<b>load</b>	function
F lowerall	<b>lpath</b>	function

<b>lpathcached</b>	function	<b>selection</b>	function
<b>lpathcalls</b>	function	<b>separate</b>	function
<b>lshow</b>	function	<b>serialize</b>	function
<b>makestandalone</b>	function	<b>setcdata</b>	function
<b>match</b>	function	<b>setcomment</b>	function
<b>name</b>	function	<b>sethandlersfunction</b>	function
<b>newhandlers</b>	function	<b>setinjectors</b>	function
<b>nodesettostring</b>	function	<b>setproperty</b>	function
<b>originalload</b>	function	<b>settings</b>	function
<b>package</b>	function	<b>specialcodes</b>	table
<b>parent</b>	function	S "	
<b>parsedentitylpeg</b>	userdata	S #	
<b>pihandlers</b>	table	S \$	
F injector		S %	
<b>placeholders</b>	table	S &	
F unknown_any_entity		S '	
F unknown_dec_entity		S <	
F unknown_hex_entity		S >	
<b>position</b>	function	S \	
<b>privatecodes</b>	table	S {	
<b>privatetoken</b>	function	S	
<b>process</b>	function	S }	
<b>process_attributes</b>	function	S ~	
<b>process_elements</b>	function	<b>specialhandler</b>	table
<b>processattributes</b>	function	<b>sprint</b>	function
<b>profiled</b>	table	<b>string</b>	function
<b>raw</b>	function	<b>strip</b>	function
<b>registerentity</b>	function	<b>strip_whitespace</b>	function
<b>registers</b>	function	<b>stripelement</b>	function
<b>reindex</b>	function	<b>stripleadingspaces</b>	function
<b>remap_name</b>	function	<b>table</b>	function
<b>remap_namespace</b>	function	<b>text</b>	function
<b>remap_tag</b>	function	<b>textonly</b>	function
<b>remapname</b>	function	<b>texttocdata</b>	function
<b>remapnamespace</b>	function	<b>tocdata</b>	function
<b>remaptag</b>	function	<b>toelement</b>	function
<b>renamespace</b>	function	<b>tostring</b>	function
<b>reparsedentitylpeg</b>	userdata	<b>totable</b>	function
<b>replace</b>	function	<b>toxml</b>	function
<b>replace_element</b>	function	<b>tprint</b>	function
<b>resetinjectors</b>	function	<b>traverse</b>	function
<b>resolvens</b>	function	<b>unescaped</b>	function
<b>root</b>	function	<b>unprivatized</b>	function
<b>save</b>	function	<b>unspecialized</b>	function

<code>withElement</code>	function
<code>withElements</code>	function
<code>wrap</code>	function
<code>xmlns</code>	table

## zip (extra lua)

<b>archives</b>	table
<b>close</b>	function
<b>closearchive</b>	function
<b>open</b>	overloaded function
<b>openarchive</b>	function
<b>openfile</b>	function
<b>registeredfiles</b>	table
<b>type</b>	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