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

ConTEXt MkIV

global (alias: _G)

CONTEXTLMTXMODE	number	**dircodes**	data table
FFISUPPORTED	function	**directives**	table
INITEXMODE	boolean	**document**	table
LUAMAJORVERSION	number	**documentdata**	table
LUAMINORVERSION	number	**dofile**	function
LUATEXENGINE	string	**drivers**	table
LUATEXFUNCTIONALITY	number	**environment**	table
LUATEXVERSION	number	**error**	function
LUAVERSION	number	**experiments**	table
MP	function	**ffi**	table
anywhere	function	**ffilib**	function
arg	table	**figures**	table
assert	function	**file**	table
attributes	table	**fio**	table
backends	table	**flate**	table
basexx	table	**floats**	table
bit32	table	**flushpdfimage**	function
blobs	table	**flushsimplerule**	function
blockrequire	function	**font**	table
boolean	table	**fonts**	table
buffers	table	**frozen**	boolean
builders	table	**functions**	table
caches	table	**getmetatable**	function
callback	table	**global**	table
callbacks	table	**grammar_parsed_text_one_nop**	userdata
catcodes	table	**grammar_parsed_text_one_yes**	userdata
characters	table	**grammar_parsed_text_two_nop**	userdata
checkimage	function	**grammar_parsed_text_two_yes**	userdata
chemistry	table	**grammar_unparsed_text_nop**	userdata
collectgarbage	function	**grammar_unparsed_text_yes**	userdata
commands	table	**graphics**	table
containers	table	**gregorian_to_jalali**	function
context	function	**gzip**	table
converters	table	**images**	table
coroutine	table	**img**	table
createmask	function	**inspect**	function
ctxrunner	table	**interactions**	table
data	table	**interfaces**	table
debug	table	**io**	table
dimen	function	**ipairs**	function
dir	table	**jalali_to_gregorian**	function

job	table	**poporientation**	function
lang	table	**print**	function
languages	table	**publications**	table
layouts	table	**pushorientation**	function
lfs	table	**rawequal**	function
libraries	table	**rawget**	function
lmx	table	**rawlen**	function
load	function	**rawset**	function
loadfile	function	**readarray**	function
loadstring	function	**regimes**	table
logs	table	**require**	function
lpdf	table	**required**	function
lpeg	table	**requireswiglib**	function
lua	table	**resolvers**	table
luatex	table	**ruledspace**	function
lxml	table	**sandbox**	table
math	table	**scripts**	table
mathematics	table	**select**	function
md5	table	**set**	table
metapost	table	**setinspector**	function
mime	table	**setmetatable**	function
moduledata	table	**sha2**	table
modules	table	**shipbox_ref_h**	number
mp	function	**shipbox_ref_v**	number
mplib	table	**sio**	table
next	function	**socket**	table
noads	table	**sorters**	table
node	table	**statistics**	table
nodes	table	**status**	table
number	table	**storage**	table
objects	table	**streams**	table
optionalrequire	function	**string**	table
os	table	**structures**	table
package	table	**swiglib**	function
pagebuilders	table	**table**	table
pairs	function	**tex**	table
parametersets	table	**texconditionals**	data table
pcall	function	**texconfig**	table
pdf	table	**texconstants**	data table
pdfdecode	table	**texifs**	data table
pdfe	table	**texio**	table
pdfscanner	table	**texisdefined**	data table
physics	table	**texmodes**	data table
pngdecode	table	**texsystemmodes**	data table

thirddata	table	**url**	table
toboolean	function	**userdata**	table
token	table	**utf**	table
tokens	table	**utf8**	table
tonumber	function	**utilities**	table
tostring	function	**v**	string
tracers	table	**visualizers**	table
trackers	table	**xmath**	table
type	function	**xml**	table
typesetters	table	**xpcall**	function
unpack	function	**zip**	table
updaters	table	**zlib**	table

attributes (context)

applyoverloads function
colorintents   table

    N attribute

    D data

    F enable

    F handler

    F register

    D registered

colors   table

    N attribute

    F cmyk

    F cmyktogray

    F cmyktorgb

    F colorcomponents

    D counts

    B couple

    F currentmodel

    F currentnamedmodel

    D data

    N default

    F defineintermediatecolor

    F definemultitonecolor

    F defineprocesscolor

    F definesimplegray

    F definespotcolor

    F definetransparency

    F enable

    F filter

    N forced

    F forcedmodel

    F forcesupport

    F formatcolor

    F formatgray

    F getpagecolormodel

    F gray

    F graytohsv

    F handler

    F hsvtogray

    F hsvtorgb

    F iccprofile

    F isblack

    N main

    S model

    D models

    F mpcolor

    F mpnamedcolor

    F mpoptions

    F namedcolorattributes

    N none

    F popset

    F processcolorcomponents

    F pushset

    F register

    D registered

    F registerspotcolor

    F rgb

    F rgbtocmyk

    F rgbtogray

    F rgbtohsv

    N selector

    F setlist

    F setmodel

    F setpagecolormodel

    D sets

    F spec

    F spot

    F spotcolorname

    F spotcolorparent

    F spotcolorvalue

    B supported

    F toattributes

    F transparencycomponents

    B triggering

    F usecolors

    D valid

    F value

    D values

    B weightgray

define   function
effects   table

    N attribute

    D data

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

F stop   D values

B supported

backends (context)

closeout	function	F	getbookmarks
codeinjections	table	F	getdefaultfieldvalue
F	boxresourcedimensions	F	getfieldcategory
F	registerboxresource	F	getfieldset
F	restoreboxresource	F	getformatoption
current	string	F	getinfo
defaults	table	F	getpreviewfigure
T	codeinjections	F	insertrenderingwindow
F	getpagedimensions	F	mergebookmarks
F	lmtxmode	F	mergecomments
F	setpagedimensions	F	mergefields
T	nodeinjections	F	mergereferences
T	registrations	F	mergeviewerlayers
D	tables	F	prerollreference
included	table	F	presetsymbol
B	context	F	presetsymbollist
B	date	F	print
B	id	F	processrendering
B	metadata	F	registerdocumentcloseaction
B	pdf	F	registerdocumentopenaction
install	function	F	registeredsymbol
latelua	function	F	registerpagecloseaction
nodeinjections	table	F	registerpageopenaction
noflatelua	function	F	registersymbol
nothing	function	F	setfieldcalculationset
openout	function	F	setfigurealternative
pdf	table	F	setfigurecolorspace
T	codeinjections	F	setfiguremask
F	addbookmarks	F	setformat
F	analyzenormalsymbol	F	setformsmethod
F	analyzesymbol	F	setpagetransition
F	attachmentid	F	setupcanvas
F	clonefield	F	setupidentity
F	definefield	F	setxmpfile
F	definefieldset	F	startlayer
F	defineviewerlayer	F	startunicodetoactualtext
F	embedfile	F	startunicodetoactualtextdirect
F	enabletags	F	stoplayer
F	exportformdata	F	stopunicodetoactualtext
F	fieldsurrounding	F	stopunicodetoactualtextdirect
F	flushmergelayer	F	supportedformats

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

basexx (context)

decode16	function		**encode16**	function
decode64	function		**encode64**	function
decode85	function		**encode85**	function
decodeLZW	function		**encodeLZW**	function
decodeRL	function		**encodeRL**	function

bit32 (basic lua)

arshift	function	**extract**	function
band	function	**lrotate**	function
bnot	function	**lshift**	function
bor	function	**replace**	function
btest	function	**rrotate**	function
bxor	function	**rshift**	function

blobs (context)

append	function	**strht**	function
dimensions	function	**strwd**	function
dispose	function	**tohpack**	function
new	function	**tonodes**	function
pack	function	**tovpack**	function
strdp	function	**write**	function
strhd	function		

boolean (context)

tocontext function
tonumber function

buffers (context)

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

builders (context)

checksidefloat   function
kernel   table
   F cleanup
   F hyphenating
   F hyphenation
   F kerning
   F ligaturing
   F mlist_to_hlist
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 keeptogether
   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
vspacing   table
   F analyze
   D categories
   F collapsevbox
   T data
    D map
    D skip
    D snapmethods
   F definesnapmethod
   B fixed
   F forcepageflush
   F forcestrutdepth
   F getnofpreviouslines
   F pagehandler
   F pageoverflow
   F popatsame
   F pushatsame
   F setmap
   F setskip
   F snapbox
   F synchronizepage
   F tocategories
   F tocategory
   F vboxhandler

caches (context)

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

callback (basic tex)

find   function   **register** overloaded function
list   function

callbacks (context)

freeze   function

functions   table

    F process_rule

    F start_page_number

    F stop_page_number

known   function

list   data table

pop   function

push   function

register   function

report   function

supported   table

    B append_to_vlist_filter

    B build_page_insert

    B buildpage_filter

    B contribute_filter

    B define_font

    B find_data_file

    B find_format_file

    B find_write_file

    B hpack_filter

    B hpack_quality

    B hyphenate

    B insert_local_par

    B kerning

    B ligaturing

    B linebreak_filter

    B make_extensible

    B mlist_to_hlist

    B new_graf

    B open_data_file

    B post_linebreak_filter

    B pre_dump

    B pre_linebreak_filter

    B pre_output_filter

    B process_jobname

    B read_data_file

    B show_error_hook

    B show_error_message

    B show_lua_error_hook

    B show_warning_message

    B show_whatsit

    B start_file

    B start_run

    B stop_file

    B stop_run

    B vpack_filter

    B vpack_quality

    B wrapup_run

catcodes (context)

names   data table   **register**   function
numbers   data table

characters (context)

activeoffset	number	T anudatta	
adobename	function	T before_half	
bidi	data table	T before_main	
blockrange	function	T before_postscript	
blocks	data table	T before_subscript	
casemap	table	T below_mark	
categories	data table	T consonant	
category	function	T dependent_vowel	
categorytags	data table	T halant	
classifiers	table	T independent_vowel	
collapsed	data table	T nukta	
contextname	function	T post_mark	
csletters	data table	T pre_mark	
data	data table	T ra	
decomposed	data table	T stress_tone_mark	
description	function	T twopart_mark	
descriptions	data table	T vowel_modifier	
detailtags	data table	**initialize**	function
directions	table	**is_character**	data table
emoji	table	**is_command**	data table
F compact		**is_letter**	data table
F known		**is_mark**	data table
F resolve		**is_punctuation**	data table
emojized	function	**is_spacing**	data table
enccodes	data table	**is_symbol**	data table
entities	data table	**lcchars**	data table
fallbacks	data table	**lccode**	function
filters	data table	**lccodes**	data table
fractions	table	**lettered**	function
fromnumber	function	**lhash**	data table
fschars	data table	**linebreaks**	data table
fscodes	data table	**lower**	function
getrange	function	**mathlists**	data table
graphemes	data table	**mirrors**	table
hangul	data table	**otfscripts**	data table
indicgroups	table	**private**	table
T above_mark		**ranges**	data table
T after_half		**registerentities**	function
T after_main		**remap_hangul_syllabe**	function
T after_postscript		**setactivecatcodes**	function
T after_subscript		**setlettercatcodes**	function

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

chemistry (context)

component	function	**molecule**	function
define	function	**moleculeparser**	userdata
definitions	data table	**start**	function
format	string	**stop**	function
inlinechemical	function	**structures**	number
instance	string	**undefine**	function
method	string		

containers (context)

cleanname	function	**is_valid**	function
content	function	**read**	function
define	function	**usecache**	boolean
is_usable	function	**write**	function

converters (context)

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

upper	function	**weekday**	function
verbose	table	**word**	function
D data		**words**	function
F translate		**year**	function

coroutine (basic lua)

create   function
isyieldable function
resume   function
running   function

status   function
wrap   function
yield   function

ctxrunner (context)

load   function   **prepfiles**   data table
preparedfile function   **resolve**   function

data (context)

action	function	**prerolled**	string
depth	number	**width**	number
height	number		

dir (context)

collectpattern	function	**globpattern**	function
current	function	**ls**	function
expandname	function	**makedirs**	function
found	function	**mkdirs**	function
glob	function	**pop**	function
globdirs	function	**push**	function
globfiles	function		

directives (context)

data	data table	**name**	string
default	function	**register**	function
disable	function	**report**	function
done	table	**reset**	function
enable	function	**show**	function
list	function	**value**	function

document (context)

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

documentdata (context)

variable function

drivers (context)

convert	function		F reset
enable	function	T	flushers
gethpos	function		F character
getpos	function		F rule
getvpos	function		S name
helpers	table	T	pdf
F tomatrix			T actions
install	function		F cleanup
instances	table		F convert
T default			F finalize
T actions			F initialize
F convert			F outputfilename
F outputfilename			F prepare
T flushers			F updatefontstate
S name			F wrapup
T lua			T flushers
T actions			F character
F fetch			F pdfimage
F finalize			F pdfliteral
F initialize			F pdfrestore
F reset			F pdfsave
T flushers			F pdfsetmatrix
F character			F poporientation
F rule			F pushorientation
S name			F rule
T mps			F simplerule
T actions			S name
F fetch		**lmtxversion**	number
F finalize		**outputfilename**	function
F initialize			

environment (context)

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

experiments (context)

data	data table		**register**	function
default	function		**report**	function
disable	function		**reset**	function
enable	function		**show**	function
list	function		**value**	function
name	string			

figures (context)

applyratio	function
badname	function
bases	data table
bitmapimage	function
boxnumber	number
cachepaths	data table
check	function
checkers	data table
converters	data table
current	function
defaultdepth	number
defaultheight	number
defaultsearch	boolean
defaultwidth	number
done	function
dummy	function
existers	data table
exists	function
formats	data table
found	data table
get	function
getinfo	function
getpdfinfo	function
getrealpage	function
guess	function
guessfromstring	function
hash	function
identifiers	data table
identify	function
images	table

 T __img__
  F copy
  F embed
  F new
  F scan
  F wrap
 F check
 F checksize
 F copy
 F create
 F embed

 T keys
 F print
 F scan
 F serialize
 T sizes
  B art
  B bleed
  B crop
  B media
  B none
  B trim
 F totable
 T types
  N jbig2
  N jp2
  N jpg
  N memstream
  N none
  N pdf
  N png
  N stream
 F wrap

include	function
includers	data table
initialize	function
loaded	data table
localpaths	data table
magics	data table
mergegoodies	function
nofmissing	number
nofprocessed	number
order	data table
paths	data table
patterns	data table
pop	function
preferquality	boolean
programs	data table
push	function
registerpattern	function
registerresource	function
registersuffix	function

resources	data table	**setorder**	function
scale	function	**setpaths**	function
set	function	**suffixes**	data table
setlookups	function	**used**	data table
setmemstream	function		

file (basic lua)

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

fio (extra lua)

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

flate (context)

flate_compress	function	**update_adler32**	function
flate_decompress	function	**update_crc32**	function
gz_compress	function	**zip_compress**	function
gz_decompress	function	**zip_decompress**	function

floats (context)

analysemethod	function	**nofstacked**	function
checkedpagefloat	function	**pop**	function
collect	function	**push**	function
consult	function	**resave**	function
flush	function	**save**	function
getvariable	function	**stacked**	function
hasstacked	function		

font (basic tex)

addcharacters	function	**id**	function
current	function	**max**	function
define	function	**nextid**	function
each	function	**setfont**	function
getfont	function		

fonts (context)

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

checkers   table
- F getmissing
- F missing
- F placeholder

cid   table
- F getmap
- F loadfile

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

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

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

T handlers
  T afm
    B autoprefixed
    D cache
    D features
    F getkern
    T helpdata
      D bothkerned
      D leftkerned
      D ligatures
      D rightkerned
      D texligatures
    F load
    T readers
      F getinfo
      F loadfont
      F loadshapes
    F setfeatures
    B syncspace
    N version
  T otf
    F addfeature
    F basemodeinitializer
    D cache
    F collectlookups
    T coverup
      T actions
        F alternate
        F chainposition
        F chainsubstitution
        F kern
        F ligature
        F multiple
        F pair
        F single
        F substitution
      F register
      S stepkey
    F dataset
    F datasetpositionprocessor
    S defaultbasealternate
    S defaultnodealternate
    D features
    F featuresinitializer

    F featuresprocessor
    F getactualtext
    F getalternate
    F getgsub
    F getkern
    F getmultiple
    F getstreamhash
    F getsubstitution
    T handlers
      F devanagari_remove_joiners
      F devanagari_reorder_matras
      F devanagari_reorder_pre_base_reordering_consonants
      F devanagari_reorder_reph
      F gpos_context
      F gpos_contextchain
      F gpos_cursive
      F gpos_mark2base
      F gpos_mark2ligature
      F gpos_mark2mark
      F gpos_pair
      F gpos_single
      F gsub_alternate
      F gsub_context
      F gsub_contextchain
      F gsub_ligature
      F gsub_multiple
      F gsub_reversecontextchain
      F gsub_single
      F trigger_space_kerns
    T helpers
      F blockligatures
      F pardirstate
      F txtdirstate
    F load
    F loadoutlinedata
    F loadstreamdata
    F modeinitializer
    D pdfcache
    F plugininitializer
    F pluginprocessor
    T plugins
    T png
      F topdf
    D pngcache

B pngenabled
T readers
  F addunicodetable
  F avar
  F cbdt
  F cblc
  F cff
  F cff2
  F cffcheck
  T cffencoder
  F checkhash
  F cmap
  F colr
  F compact
  F cpal
  F ebdt
  F eblc
  F ebsc
  F expand
  F extend
  F fvar
  F gdef
  F getcomponents
  F getinfo
  F glyf
  F gpos
  T gposhandlers
    F chainedcontext
    F context
    F cursive
    F extension
    F marktobase
    F marktoligature
    F marktomark
    F pair
    F single
  F gsub
  T gsubhandlers
    F alternate
    F chainedcontext
    F context
    F extension
    F ligature
    F multiple

    F reversechainedcontextsingle
    F single
  F gvar
  F head
  T helpers
    F axistofactors
    F cleanname
    F getaxisscale
    F getfactors
    F getscales
    F gotodatatable
    F normalizedaxis
    T normalizedaxishash
    F readvariationdata
    F reportskippedtable
    F setvariabledata
  F hhea
  F hmtx
  F hvar
  F kern
  F loadfont
  F loadshapes
  F loca
  F math
  F maxp
  F mvar
  F name
  F os/2
  F pack
  F parsecharstrings
  F post
  F registerextender
  F rehash
  F sbix
  F stat
  T streamreader
    F close
    F getposition
    F getsize
    F look
    F open
    F read2dot14
    F readbyte
    F readbytes

```
F readbytetable              F writeinteger2
F readcardinal               F writeinteger2le
F readcardinal1              F writeinteger3
F readcardinal1le            F writeinteger3le
F readcardinal2              F writeinteger4
F readcardinal2le            F writeinteger4le
F readcardinal3              F writestring
F readcardinal3le          F stripredundant
F readcardinal4            F svg
F readcardinal4le          N tableversion
F readcardinaltable        F unifymissing
F readchar                 F unpack
F readfixed2               F vhea
F readfixed4               F vmtx
F readinteger              F vorg
F readinteger1             F vvar
F readinteger1le           F woff2otf
F readinteger2           F registerpalette
F readinteger2le         F registerplugin
F readinteger3           F reorderlookups
F readinteger3le         F scriptandlanguage
F readinteger4           F setdynamics
F readinteger4le         F setfeatures
F readintegertable       T statistics
F readsignedbyte           D usedfeatures
F readstring             F storepdfdata
F readtag                T svg
F setposition              F filterglyph
F size                     F topdf
F skip                   D svgcache
F skiplong               B svgenabled
F skipposition           T tables
F skipshort                D baselines
F writebyte                D features
F writecardinal1           D featuretypes
F writecardinal1le         D languages
F writecardinal2           D scripts
F writecardinal2le       N version
F writecardinal3         T pfb
F writecardinal3le         F loadvector
F writecardinal4         T tfm
F writecardinal4le         F addtounicode
F writeinteger1            D cache
F writeinteger1le          D features
```

```
  N maxnestingdepth                        S mode
  N maxnestingsize                         T protrusion
  T readers                                  S auto
    F loadpk                               S quad
    F loadtfm                              S scaledpoints
    F loadtfmvf                            S scriptpercentage
    F loadvf                               S scriptscriptpercentage
    F pktopdf                              S size
    F showpk                               S slantfactor
  F reencode                               S slantperpoint
  F setfeatures                            T spacing
  N version                                  S extra
T vf                                         S shrink
  T combinations                             S stretch
  F combine                                  S width
  T combiner                               S units
    D commands                             S vfactor
  D helpers                                S width
  D math                                   S xheight
  D predefined                           T properties
  N version                                S autoitalicamount
  D whatever                               S cidinfo
F hashfeatures                             T effect
F hashinstance                               S ddelta
T hashmethods                                S effect
  F normal                                   S factor
  F virtual                                  S hdelta
F initializefeatures                         S hfactor
T keys                                       S vfactor
  T characters                               S wdelta
  T descriptions                             S width
  T parameters                             S embedding
    S ascender                             S encodingbytes
    S descender                            S filename
    S designsize                           S finalized
    T expansion                             S fontname
      S auto                                S format
      S shrink                              S fullname
      S step                                S hasitalics
      S stretch                             S hasmath
    S extendfactor                         S mathitalics
    S factor                                S mode
    S hfactor                               S name
    S mathsize                              S nostackmath
```

	S psname		F registered	
	S textitalics		F registersplit	
	S virtualized		F resetnullfont	
D	loadedfonts		F resolve	
S	namemode		T resolvers	
N	noffontsloaded		F file	
N	nofsharedfonts		F name	
N	nofsharedhashes		F spec	
N	nofsharedvectors	**definetypeface**		function
N	privateoffset	**encodings**		table
D	privateslots		T agl	
F	readanddefine		D ctxcodes	
F	registerfeature		D extras	
F	resetfeature		D names	
B	resolvevirtualtoo		D synonyms	
F	scale		D unicodes	
F	scaled		D cache	
F	setfactor		F is_known	
F	setfeature		D known	
F	setmathparameter		F load	
F	setname		F make_unicode_vector	
B	sharefonts		D math	
F	trytosharefont		N version	
N	version	**enhanceid**		function
current		function	**expansions**	data table
currentid		function	**formats**	data table
definers		table	**getalternate**	function
F	addlookup	**getkern**		function
F	analyze	**getmultiple**		function
F	applypostprocessors	**getsubstitution**		function
F	checkedmode	**getters**		table
F	checkedscript		T alternate	
F	current		F opentype	
S	defaultlookup		T kern	
F	define		F opentype	
F	getspecification		F type1	
F	internal		F type3	
F	loadfont		T multiple	
F	makespecification		F opentype	
T	methods		T substitution	
F	install		F opentype	
D	variants	**goodies**		table
F	read		D colorschemes	
F	register		T data	

T dejavu-math		D dynamics		
S author		D emwidths		
S comment		D exheights		
S copyright		D extensibles		
B initialized		D features		
T mathematics		D identifiers		
T alternates		D italics		
T dotless		D lastmathids		
S comment		D marks		
S feature		D mathparameters		
N value		D modes		
T kerns		D originals		
S name		D parameters		
S version		T processes		
T schola-math		D properties		
S author		D quads		
S comment		D resources		
S copyright		T setdynamics		
B initialized		T shapes		
T mathematics		D spaces		
T alternates		D spacings		
T dotless		T streams		
S comment		D unicodes		
S feature		D variants		
N value		D xheights		

helpers	**table**
F addextraprivate	
F addprivate	

T kerns	
S name	
S version	
D designsizes	
D filenames	
F getcompositions	
T list	
F load	
F prepare_features	
F register	
F registerpostprocessor	
F report	
T suffixes	

handlers	**table**
hashes	**table**
D characters	
D classes	
D csnames	
D descriptions	

F appendcommands
F appendcommandtable
F checkflags
F checkmerge
F checksteps
F collectanchors
D commands
F descriptiontoslot
F dimenfactor
F expandglyph
T extraprivates
F fontpatternhassize
F getcoloredglyphs
F getdigitwidth
F getinstancespec
F getparameters

F	getprivatecharornode	F	output
F	getprivatenode	F	paths
F	getprivates	F	widthline
F	getprivateslot	F	zeroline
F	hasprivate	**mp**	**table**
F	indextoslot	D	cache
F	name	B	inline
F	nametoslot	N	version
F	prependcommands	**names**	**data table**
F	prependcommandtable	**nulldata**	**data table**
F	privateslot	**privateoffsets**	**table**
F	setdigitwidth	B	keepnames
F	splitfontpattern	N	mathbase
F	tochar	N	mathextrabase
infofont	**function**	N	textbase
iterators	**table**	N	textextrabase
F	characters	**protrusions**	**data table**
F	descriptions	**readers**	**table**
F	glyphs	F	afm
loggers	**table**	F	check_lua
F	add_placeholders	F	check_tfm
D	category_to_placeholder	F	lua
F	format	F	ofm
F	onetimemessage	F	opentype
F	register	F	otf
F	reportdefinedfonts	F	pfb
F	reportusedfeatures	D	sequence
mappings	**table**	F	tfm
F	addtounicode	F	ttc
F	fromunicode16	F	ttf
F	loadfile	F	woff
F	loadline	**reserveid**	**function**
F	makenameparser	**select**	**table**
D	overloads	D	alternatives
F	reset	F	bodyfont
F	tounicode	D	data
F	tounicode16	F	default
F	tounicode16sequence	D	defaults
metapost	**table**	F	definefallbackfamily
F	boundingbox	F	definefontfamily
F	boxtomp	F	definefontfamilypreset
F	draw	D	extras
F	fill	F	fallback
F	maxbounds	D	fallbacks

functions (context)

dummy function

graphics (context)

backgrounds table
    F fetchmultipar
    F pair
    F path
    F point
bitmaps   table
    F flush
    F new

    F placeholder
    F tocontext
identifiers table
    F bitmap
    F jp2
    F jpg
    F png
identify   function

gzip (extra lua)

close function   **open** function
lines function   **save** function
load function   **suffix** function

images (context)

__img__ table
   F copy
   F embed
   F new
   F scan
   F wrap
check function
checksize function
copy function
create function
embed function
keys table
print function
scan function
serialize function
sizes table
   B art

   B bleed
   B crop
   B media
   B none
   B trim
totable function
types table
   N jbig2
   N jp2
   N jpg
   N memstream
   N none
   N pdf
   N png
   N stream
wrap function

img (basic tex)

boxes	function	**new**	function
copy	function	**node**	function
fields	function	**scan**	function
immediatewrite	function	**types**	function
immediatewriteobject	function	**write**	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 setclosedocument
    F setclosepage
    F setopendocument
    F setopenpage
renderings data table
soundclips data table

interfaces (context)

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

io (basic lua)

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

job (context)

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

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

lang (basic tex)

clean	function	**id**	function
clear_hyphenation	function	**new**	function
clear_patterns	function	**patterns**	function
exceptions	function	**postexhyphenchar**	function
gethjcode	function	**posthyphenchar**	function
has_language	function	**preexhyphenchar**	function
hyphenate	function	**prehyphenchar**	function
hyphenation	function	**sethjcode**	function
hyphenationmin	function		

languages (context)

associate   function
associated   data table
association   function
counters   data table
current   function
data   data table
decimals   data table
define   function
explicithyphen   function
flatten   function
frequencies   table

    F averagecharwidth
    F getdata

getdata   function
getnumber   function
hjcounts   table
hyphenate   function
hyphenators   table

    T dictionaries
    D featuresets
    F handler
    T methods
      F expanded
      B none
      F original
      F tex
      F traditional
    F popmethod
    F pushmethod
    F setmethod
    F setup
    F showhyphenationtrace
    T traditional
      F definefeatures
      F gettrace
      F hyphenate
      F injecthyphens
      F installmethod
      F lasttrace
      F loadpatterns
      F registerexception

      F registerpattern
      F setfeatures
installed   function
labels   table

    F define
    F split

loadable   function
loadwords   function
logger   table

    F report

nofflattened   function
numbers   data table
postexhyphenchar   function
posthyphenchar   function
preexhyphenchar   function
prehyphenchar   function
registered   data table
replacements   table

    F add
    F addlist
    F handler
    F set

serializeddiscretionary function
setexceptions   function
setsynonym   function
showdiscretionaries   function
unload   function
urls   table

    D characters
    N lefthyphenmin
    D mapping
    B packslashes
    N righthyphenmin
    F setcharacters

version   number
visualizediscretionaries function
words   table

    F check
    T data
    F disable
    F enable

T enablers

B enables

F found

F load

T methods

N threshold

layouts (context)

status table   F leftorrightpageaction

     F isleftpage

lfs (extra lua)

attributes	overloaded function	**iswriteablefile**	function
chdir	overloaded function	**link**	overloaded function
currentdir	function	**mkdir**	overloaded function
dir	overloaded function	**mkdirs**	function
isdir	overloaded function	**readlink**	function
isfile	overloaded function	**rmdir**	overloaded function
isfound	function	**setexecutable**	function
isreadabledir	function	**symlink**	function
isreadablefile	function	**touch**	overloaded function
iswriteabledir	function		

libraries (context)

basiclua	data table		**extratex**	data table
basictex	data table		**functions**	data table
builtin	data table		**globals**	data table
extralua	data table			

lmx (context)

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

logs (context)

application	function	**setformats**	function
categories	function	**setformatters**	function
direct	function	**setlogfile**	function
disable	function	**setmessenger**	function
enable	function	**setprocessor**	function
exporters	table	**setprogram**	function
extendbanner	function	**settarget**	function
finalactions	function	**settimedlog**	function
flush	function	**settranslations**	function
help	function	**show**	function
loggingerrors	function	**show_close**	function
messenger	function	**show_load**	function
new	function	**show_open**	function
newline	function	**simple**	function
poptarget	function	**simpleline**	function
pushtarget	function	**simplelines**	function
registerfinalactions	function	**start_page_number**	function
report	function	**starterrorlogging**	function
reportbanner	function	**startfilelogging**	function
reporter	function	**status**	function
reporters	table	**stop_page_number**	function
F banner		**stoperrorlogging**	function
F export		**stopfilelogging**	function
F help		**subdirect**	function
F info		**subreport**	function
F lines		**system**	function
F version		**texerrormessage**	function
reportline	function	**writer**	function
reportlines	function		

lpdf (context)

action	function	**delayedobject**	function
adddocumentcolorspace	function	**destinationspecification**	function
adddocumentextgstate	function	**dictionary**	function
adddocumentpattern	function	**docstring**	function
adddocumentshade	function	**epdf**	table
addtocatalog	function	F contenttotext	
addtoinfo	function	F expanded	
addtonames	function	F getpagecontent	
addtopageattributes	function	F getstructure	
addtopageresources	function	T image	
addtopagesattributes	function	F close	
addxmpinfo	function	F copy	
annotationspecification	function	F new	
array	function	F open	
attachmentsymbols	function	F query	
boolean	function	F load	
border	function	F parsecontent	
checkedkey	function	F plugin	
checkedvalue	function	T resolvers	
circularshade	function	F destinations	
cmykcode	function	F embeddedfiles	
collectedresources	function	F javascripts	
color	function	F layers	
colorspace	function	F pages	
colorspaceconstants	data table	F structure	
colorspec	function	F widgets	
colorvalue	function	F stripcontent	
colorvalues	function	F unload	
commentsymbols	function	**escaped**	function
compresslevel	function	**finalizedocument**	function
constant	function	**finalizefonts**	function
convert	function	**finalizepage**	function
copyarray	function	**finishtransparencycode**	function
copyboolean	function	**flags**	table
copyconstant	function	T annotations	
copydictionary	function	N AutoView	
copyfloat	function	N Hidden	
copyinteger	function	N Invisible	
copynumber	function	N Locked	
copystring	function	N LockedContents	
copyunicode	function	N NoRotate	

N NoView		**fromsixteen**	function
N NoZoom		**getcatalog**	function
N Print		**getcompression**	function
N Printable		**getfontname**	function
N ReadOnly		**getfontobjnumber**	function
N ToggleNoView		**getinfo**	function
N auto		**getmetadata**	function
N hidden		**getpageproperties**	function
N printable		**getversion**	function
T widgets		**getxformname**	function
N Comb		**graycode**	function
N CommitOnSelChange		**id**	function
N DoNotScroll		**immediateobj**	function
N DoNotSpellCheck		**includechar**	function
N Edit		**includecharlist**	function
N FileSelect		**includefont**	function
N MultiLine		**includeimage**	function
N NoExport		**injectors**	table
N NoToggleToOff		F bitmap	
N Password		F jp2	
N PopUp		F jpg	
N PushButton		F png	
N Radio		**injectxmpinfo**	function
N RadiosInUnison		**insertxmpinfo**	function
N ReadOnly		**layerreference**	function
N Required		**limited**	function
N RichText		**linearshade**	function
N Sort		**literal**	function
N file		**majorversion**	function
N fixed		**minorversion**	function
N nocheck		**nametree**	function
N protected		**nofpages**	function
N readonly		**null**	function
N required		**number**	function
N sorted		**obj**	function
N unavailable		**objectcompresslevel**	function
flushfonts	function	**pagereference**	function
flushobject	function	**patternstream**	function
flushstreamfileobject	function	**pdfcolor**	function
flushstreamobject	function	**pdftimestamp**	function
formats	data table	**permitdetail**	function
frombytes	function	**print**	function
fromeight	function	**procset**	function
frompdfdoc	function	**protectresources**	boolean

rectangle	function	**settrailerid**	function
reference	function	**setversion**	function
registerannotation	function	**shareobject**	function
registerdestination	function	**shareobjectreference**	function
registerdocumentfinalizer	function	**spotcode**	function
registerfont	function	**stream**	function
registerpagefinalizer	function	**string**	function
registerpattern	function	**toeight**	function
reserveobject	function	**topdfdoc**	function
rgbcode	function	**tosixteen**	function
rotationcm	function	**transparency**	function
setcompression	function	**transparencycode**	function
setdates	function	**transparencygroups**	table
setmapfile	function	B none	
setmapline	function	**transparencyvalue**	function
setomitcharset	function	**unicode**	function
setomitcidset	function	**usedcharacters**	table
setsuppressoptionalinfo	function	**verbose**	function
settime	function	**vfimage**	function

lpeg (basic lua)

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

lua (basic tex)

bytecode	table	B	enabled
bytedata	data table	F	loaded
bytedone	table	F	required
collectgarbage	function	F	reset
delay	function	F	resolvestring
finalize	function	F	resolving
firstbytecode	number	F	showdefinitions
flush	function	**mask**	string
flushdelayed	function	**messages**	data table
get_functions_table	function	**newindex**	function
getbytecode	function	**newtable**	function
getcurrenttime	function	**numbers**	data table
getfunctionstable	function	**registercode**	function
getpreciseseconds	function	**registeredcodes**	function
getpreciseticks	function	**registerfinalizer**	function
getruntime	function	**registername**	function
getstacktop	function	**setbytecode**	function
getstartupfile	function	**setexitcode**	function
getversion	function	**startupfile**	string
lastbytecode	number	**version**	string
macros	table		

luatex (context)

abort	function
cleanup	function
cleanuptempfiles	function
currentfile	function
registerdumpactions	function
registerpageactions	function
registerstartactions	function
registerstopactions	function
registertempfile	function
starttime	number
synctex	table

F blockfilename
F collect
F disable
F enable

F finish
F pause
F popline
F pushline
F registerdisabler
F registerenabler
F resetfilename
F resume
F setfilename
F setup
F start
F stop
F wrapup

wrapup	function

lxml (context)

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

register	function		F compare
registerentity	function		F flush
removesetup	function		F reset
replace	function		F show
resetcdata	function		F sort
resetsetups	function	**splitid**	function
resolvedentity	function	**startraw**	function
root	function	**startunescaped**	function
save	function	**stopraw**	function
serialize	function	**stopunescaped**	function
setaction	function	**store**	function
setatt	function	**strip**	function
setattribute	function	**stripped**	function
setcdata	function	**tag**	function
setcommandtonone	function	**text**	function
setcommandtotext	function	**tobuffer**	function
setpar	function	**tofile**	function
setparam	function	**toparameters**	function
setparameter	function	**toverbatim**	function
setsetup	function	**verbatim**	function
snippet	function	**withindex**	function
sorters	table	**xmltexhandler**	data table

    F add

math (basic lua)

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

mathematics (context)

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

md5 (extra lua)

HEX	function	**sum**	function
dec	function	**sumHEXA**	function
hex	function	**sumhexa**	function

metapost (context)

checkformat	function	**graphic**	function
cm	function	**graphic_base_pass**	function
collapse	boolean	**installplugin**	function
colorinitializer	function	**isobject**	function
comment	function	**lastlog**	string
convert	function	**load**	function
defaultformat	string	**maketext**	function
defaultinstance	string	**metafun**	table
defaultmethod	string	F interpolate	
directrun	function	F topath	
escaped	function	**mptopdf**	table
exectime	table	F convertmpstopdf	
extensiondata	data table	N nofconverted	
filterclippath	function	**n**	number
flush	function	**nofscriptruns**	function
flushers	table	**nvformat**	function
T pdf		**pdfliterals**	function
F comment		**pluginactions**	function
F flushfigure		**popformat**	function
F startfigure		**popscriptrunner**	function
F stopfigure		**popvariable**	function
F textfigure		**popvariables**	function
flushliteral	function	**preparetextextsdata**	function
flushnormalpath	function	**process**	function
flushreset	function	**processplugins**	function
fonts	table	**processspecial**	function
F define		**properties**	table
T flusher		**pushformat**	function
F flushfigure		**pushscriptrunner**	function
F startfigure		**pushvariable**	function
F stopfigure		**pushvariables**	function
N instances		**quickanddirty**	function
F process		**reducetogray**	boolean
format_number	function	**reporterror**	function
format_string	function	**reset**	function
formatnumber	function	**resetlastlog**	function
getclippath	function	**resetplugins**	function
getextensions	function	**run**	function
getjobdata	function	**runscript**	function
getstatistics	function	**scripterror**	function
gettext	function	**setextensions**	function

setoutercolor	function	F reset	
settext	function	F set	
setvariable	function	F setfrombuffer	
showlog	boolean	**texerrors**	boolean
simple	function	**texexp**	function
splitprescript	function	**theclippath**	function
startgraphic	function	**tographic**	function
stopgraphic	function	**totable**	function
svformat	function	**unload**	function
sxsy	function	**untagvariable**	function
tex	table	**variables**	table
F get			

mime (extra lua)

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

mp (context)

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

aux	table	**inhash**	function
F boolean		**integer**	function
F flush		**isarray**	function
F fprint		**isobject**	function
F integer		**mf_blob_add**	function
F number		**mf_blob_dimensions**	function
F numeric		**mf_blob_index**	function
F pair		**mf_blob_new**	function
F pairpoints		**mf_blob_raw_content**	function
F path		**mf_blob_raw_dimensions**	function
F pathpoints		**mf_blob_raw_reset**	function
F points		**mf_blob_raw_toutf**	function
F print		**mf_blob_raw_wipe**	function
F quadruple		**mf_blob_size**	function
F quadruplepoints		**mf_blob_width**	function
F quoted		**mf_default_color_model**	function
F size		**mf_external_figure**	function
F string		**mf_finish_saving_data**	function
F triplet		**mf_formatted_text**	function
F tripletpoints		**mf_get_outline_text**	function
F vprint		**mf_graphic_text**	function
boolean	function	**mf_inject_blob**	function
cleaned	function	**mf_made_text**	function
dataset	function	**mf_named_color**	function
datasets	function	**mf_outline_text**	function
F load		**mf_path_left**	function
dimension	function	**mf_path_length**	function
disposehash	function	**mf_path_point**	function
flush	function	**mf_path_reset**	function
format	function	**mf_path_right**	function
formatted	function	**mf_save_data**	function
fprint	function	**mf_some_text**	function
fromhash	function	**mf_start_saving_data**	function
get	table	**mf_stop_saving_data**	function
F boolean		**mf_tb_dimensions**	function
F number		**mf_tt_dimensions**	function
F numeric		**mf_tt_initialize**	function
F path		**mode**	function
F string		**n**	function
getcount	function	**newhash**	function
getdimen	function	**number**	function
getmacro	function	**numeric**	function
gettoks	function	**pair**	function
graphformat	function	**pairpoints**	function

path	function		**processingmode**	function
pathleft	function		**quadruple**	function
pathlength	function		**quadruplepoints**	function
pathpoint	function		**quoted**	function
pathpoints	function		**report**	function
pathreset	function		**set**	table
pathright	function		F path	
place_buffermake	function		**setcount**	function
place_buffersize	function		**setdimen**	function
place_bufferslot	function		**setmacro**	function
place_bufferwipe	function		**settoks**	function
points	function		**size**	function
positionanchor	function		**string**	function
positionbox	function		**systemmode**	function
positioncurve	function		**texstr**	function
positionpage	function		**textextanchor**	function
positionpath	function		**texvar**	function
positionpxy	function		**tohash**	function
positionregion	function		**triplet**	function
positionwhd	function		**tripletpoints**	function
positionxy	function		**utflen**	function
prefix	function		**utfsub**	function
print	function		**vprint**	function

mplib (extra tex)

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

noads (context)

handlers   table

    F align
    F alternates
    F autofences
    F classes
    F collapse
    F domains
    F families
    F fixscripts
    F italics
    F kernpairs
    F makeup
    F relocate
    F render

    F resize
    F showtree
    F tags
    F unscript
    F unstack
    F variants

process   function
processnested   function
processors   table

    F mlist_to_hlist
    T unscript
    T unstack

processouter   function

node (basic tex)

check_discretionaries	function
check_discretionary	function
copy	function
copy_list	function
count	function
current_attr	function
dimensions	function
direct	table

F check_discretionaries
F check_discretionary
F copy
F copy_list
F count
F current_attr
F dimensions
F effective_glue
F end_of_math
F find_attribute
F first_glyph
F flatten_discretionaries
F flush_components
F flush_list
F flush_node
F free
F get_attribute
F get_properties_table
F get_synctex_fields
F getattributelist
F getboth
F getbox
F getchar
F getcomponents
F getdata
F getdepth
F getdirection
F getdisc
F getexpansion
F getfam
F getfield
F getfont
F getglue

F getheight
F getid
F getkern
F getlang
F getleader
F getlist
F getnext
F getnucleus
F getoffsets
F getorientation
F getpenalty
F getprev
F getproperty
F getshift
F getsub
F getsubtype
F getsup
F getwhd
F getwidth
F has_attribute
F has_field
F has_glyph
F hpack
F hyphenating
F insert_after
F insert_before
F is_char
F is_direct
F is_glyph
F is_node
F is_valid
F is_zero_glue
F kerning
F last_node
F length
F ligaturing
F mlist_to_hlist
F naturalwidth
F new
F prepend_prevdepth
F protect_glyph

F protect_glyphs		F tostring	
F protrusion_skippable		F traverse	
F rangedimensions		F traverse_char	
F remove		F traverse_glyph	
F set_attribute		F traverse_id	
F set_synctex_fields		F traverse_list	
F setattributelist		F unprotect_glyph	
F setboth		F unprotect_glyphs	
F setbox		F unset_attribute	
F setchar		F usedlist	
F setcomponents		F uses_font	
F setdata		F vpack	
F setdepth		F write	
F setdirection		**effective_glue**	function
F setdisc		**end_of_math**	function
F setexpansion		**family_font**	function
F setfam		**fields**	function
F setfield		**find_attribute**	function
F setfont		**first_glyph**	function
F setglue		**fix_node_lists**	function
F setheight		**flatten_discretionaries**	function
F setkern		**flush_list**	function
F setlang		**flush_node**	function
F setleader		**free**	function
F setlink		**get_attribute**	function
F setlist		**get_properties_table**	function
F setnext		**getfield**	function
F setnucleus		**getglue**	function
F setoffsets		**getproperty**	function
F setorientation		**has_attribute**	function
F setpenalty		**has_field**	function
F setprev		**has_glyph**	function
F setproperty		**hpack**	function
F setshift		**hyphenating**	function
F setsplit		**id**	function
F setsub		**insert_after**	function
F setsubtype		**insert_before**	function
F setsup		**is_node**	function
F setwhd		**is_zero_glue**	function
F setwidth		**kerning**	function
F slide		**last_node**	function
F tail		**length**	function
F todirect		**ligaturing**	function
F tonode		**make_extensible**	function

mlist_to_hlist	function	**traverse**	function
new	function	**traverse_char**	function
prepend_prevdepth	function	**traverse_glyph**	function
protect_glyph	function	**traverse_id**	function
protect_glyphs	function	**traverse_list**	function
protrusion_skippable	function	**type**	function
rangedimensions	function	**types**	function
remove	function	**unprotect_glyph**	function
set_attribute	function	**unprotect_glyphs**	function
setfield	function	**unset_attribute**	function
setglue	function	**usedlist**	function
setproperty	function	**uses_font**	function
slide	function	**values**	function
subtypes	function	**vpack**	function
tail	function	**write**	function
tostring	function		

nodes (context)

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

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

mlist_to_hlist	function		F flush_node
new	function		F free
noadcodes	data table		F fullhpack
noadoptions	table		F get_synctex_fields
N axis			F getattr
N exact			F getattribute
N left			F getattributelist
N middle			F getattrlist
N no_axis			F getboth
N right			F getbox
N set			F getboxglue
N unused_1			F getchar
N unused_2			F getcomponents
nodecodes	data table		F getdata
nopts	function		F getdepth
nuts	table		F getdirection
F append			F getdisc
F apply			F getdiscretionary
F applyvisuals			F getexpansion
F check_discretionaries			F getfam
F concat			F getfield
F copy			F getfont
F copy_list			F getglue
F copy_no_components			F getheight
F copy_node			F getid
F copy_only_glyphs			F getkern
F copy_properties			F getlang
F copyvisual			F getlanguage
F count			F getleader
F countall			F getlist
F current_attr			F getnext
F delete			F getnucleus
F dimensions			F getoffsets
F effective_glue			F getorientation
F end_of_math			F getpenalty
F find_attribute			F getprev
F first_glyph			F getprop
F firstcharacter			F getshift
F firstcharinbox			F getsub
F firstglyph			F getsubtype
F flatten_discretionaries			F getsup
F flush			F getsurround
F flush_components			F getvalue
F flush_list			F getwhd

F getwidth

F has_attribute

F has_field

F has_glyph

F hpack

F hyphenating

F insert_after

F insert_before

F insert_list_after

F is_char

F is_direct

F is_display_math

F is_glyph

F is_node

F is_nut

F is_zero_glue

F ischar

F isdone

F isglyph

F kerning

F last_node

F leftmarginwidth

F length

F ligaturing

F link

F linked

F locate

F mlist_to_hlist

F nestedtracedslide

F new

T pool

  F accent

  F baselineskip

  F boundary

  F choice

  F cleanup

  F delim

  F delimiter

  F direction

  F directliteral

  F disc

  F emptyrule

  F fence

  F fontkern

F fraction

F glue

F gluespec

F glyph

F hlist

F italickern

F kern

F latelua

F leader

F leftmarginkern

F leftskip

F lineskip

F literal

F mathchar

F mathtextchar

F negatedglue

F noad

F originliteral

F outlinerule

F pageliteral

F penalty

F radical

F rawliteral

F register

F restore

F rightmarginkern

F rightskip

F rule

F save

F savepos

F setmatrix

F shrink

F stretch

F subbox

F submlist

F temp

F textdir

F usage

T userids

  N margins.inline

  N splitters.one

  N splitters.two

F usernode

F userrule

F vlist	F setfont
F wordboundary	F setglue
F prepend	F setheight
F processranges	F setkern
F processwords	F setlang
F protect_glyph	F setlanguage
F protect_glyphs	F setleader
F protrusion_skippable	F setlink
F rangedimensions	F setlist
F rawprop	F setnext
F reference	F setnucleus
F rehpack	F setoffsets
F remove	F setorientation
F repackhlist	F setpenalty
F replace	F setprev
F rightmarginwidth	F setprop
T rules	F setshift
T ruleactions	F setsplit
F box	F setsub
F draw	F setsubtype
F fill	F setsup
F mp	F setsurround
F stroke	F setunsetattributes
F userrule	F setvalue
F set_attribute	F setvisual
F set_synctex_fields	F setvisuals
F setattr	F setwhd
F setattribute	F setwidth
F setattributelist	F slide
F setattributes	F somepenalty
F setattrlist	F somespace
F setboth	F splitbox
F setbox	F striprange
F setboxglue	F tail
F setchar	F takeattr
F setcomponents	F takebox
F setdata	F takelist
F setdepth	F theprop
F setdirection	F tonode
F setdisc	F tonodes
F setdiscretionary	F tonut
F setexpansion	F tosequence
F setfam	F tostring
F setfield	F tracedslide

F traverse		N attribute	
F traverse_char		D data	
F traverse_glyph		F enable	
F traverse_id		F handler	
F traverse_list		F register	
T traversers		D registered	
F boundary		D values	
F char		F processor	
F dir		**points**	function
F disc		**pool**	table
F glue		F baselineskip	
F glyph		F cleanup	
F hlist		F directliteral	
F list		F glyph	
F next		F hlist	
F node		F latelua	
F vlist		F lineskip	
F whatsit		F literal	
T typesetters		F originliteral	
F tohbox		F register	
F tohpack		F restore	
F tonodes		F rule	
F tovbox		F save	
F tovpack		F savepos	
F unprotect_glyph		F setmatrix	
F unprotect_glyphs		F special	
F unset_attribute		F usage	
F unsetattribute		F vlist	
F unsetattributes		**prepend**	function
F untracedslide		**print**	function
F use_components		**processors**	table
F usedlist		F contribute_filter	
F uses_font		B enabled	
F vianodes		F hpack_filter	
F vianuts		F post_linebreak_filter	
F vpack		F pre_linebreak_filter	
F write		F tracer	
packlist	function	**properties**	table
penaltycodes	data table	T data	
plugindata	table	**protect_glyph**	function
F finalizer		**protect_glyphs**	function
F initializer		**protrusion_skippable**	function
S name		**pts**	function
T namespace		**radicalcodes**	data table

rangedimensions	function		F handler	
reference	function		**show**	function
references	table		**showboxes**	function
N attribute			**showcodes**	function
T done			**showlist**	function
F handler			**showsimplelist**	function
T stack			**skipcodes**	data table
rehpack	function		**skipvalues**	data table
remove	function		**slide**	function
repackhlist	function		**snapshots**	table
replace	function		F getparameters	
report	function		F getsamples	
rightmarginwidth	function		F resetsamples	
rulecodes	data table		F takesample	
rules	table		**somepenalty**	function
D data			**somespace**	function
F define			**splitbox**	function
F enable			**stripdiscretionaries**	function
F handler			**stripping**	table
F userrule			T glyphs	
save	function		F set	
serialize	function		**subtypes**	data table
serializebox	function		**tail**	function
set_attribute	function		**takeattr**	function
setattr	function		**takebox**	function
setattribute	function		**tasks**	table
setattributes	function		F actions	
setboth	function		F appendaction	
setbox	function		F disableaction	
setboxtonaturalwd	function		F disablegroup	
setchar	function		F enableaction	
setfield	function		F enablegroup	
setfont	function		F freeze	
setglue	function		F freezegroup	
setleader	function		F new	
setlink	function		F prependaction	
setlist	function		F removeaction	
setnext	function		F replaceaction	
setprev	function		F restart	
setunsetattributes	function		F setaction	
shifts	table		F showactions	
D data			F table	
F define			**tobasepoints**	function
F enable			**tocentimeters**	function

tociceros	function		F codes
todidots	function		F features
todimen	function		F font
toinches	function		F glyphs
tomillimeters	function		F message
tonewciceros	function		F messages
tonewdidots	function		F nofsteps
tonode	function		F register
tonodes	function		F reset
tonut	function		F start
topicas	function		F stop
topoints	function		F stop
toscaledpoints	function		T transparencies
tosequence	function		F reset
tostring	function		F set
totable	function		F setlist
totree	function	**traverse**	function
toutf	function	**traverse_char**	function
tracers	table	**traverse_glyph**	function
T characters		**traverse_id**	function
F collect		**traverse_list**	function
F equal		**traversers**	table
F start		F char	
F string		F glyph	
F unicodes		F list	
T colors		F node	
F reset		**typesetters**	table
F set		F hbox	
F setlist		F hpack	
F fontchar		F tohbox	
T frequencies		F tohpack	
F register		F tonodes	
T pool		F tovbox	
T nodes		F tovpack	
F rule		F vpack	
T nuts		**unprotect_glyph**	function
F rule		**unprotect_glyphs**	function
F resetproperties		**unset_attribute**	function
F rule		**unsetattribute**	function
F setlist		**unsetattributes**	function
F setproperties		**usedlist**	function
F start		**usercodes**	data table
T steppers		**uses_font**	function
F check		**vianodes**	function

vianuts	function		F setfont	
visualizebox	function		F setlayer	
visualizers	table		F setruledglyph	
F attribute			F setvisual	
T attributes				
F box		**vpack**		function
F handler		**whatcodes**		data table
F markfonts		**whatsitcodes**		data table
F register		**write**		function

number (context)

	function			**tobitstring**	function
basepoints	function			**tocentimeters**	function
bytetodecimal	function			**tociceros**	function
compactfloat	function			**tocontext**	function
decimaltobyte	function			**todidots**	function
dimenfactors	data table			**todimen**	function
formatted	function			**toevenhex**	function
formattedfloat	function			**toinches**	function
idiv	function			**tomillimeters**	function
maxdimen	number			**tonewciceros**	function
nopts	function			**tonewdidots**	function
percent	function			**tonumberf**	function
points	function			**tonumberg**	function
pts	function			**topicas**	function
signed	function			**topoints**	function
sparseexponent	function			**toscaled**	function
splitdimen	function			**toscaledpoints**	function
to16dot16	function			**valid**	function
tobasepoints	function				

objects (context)

data	table		**page**	function
dimensions	function		**reference**	function
found	function		**register**	function
n	number		**restore**	function

os (basic lua)

__getenv__	function	F bits	
__setenv__	function	**resultof**	function
binsuffix	string	**runtime**	function
binsuffixes	table	**selfarg**	table
clock	function	**selfbase**	string
converttime	function	**selfbin**	string
date	function	**selfcore**	string
difftime	function	**selfdir**	string
env	data table	**selfname**	string
execute	overloaded function	**selfpath**	string
exit	overloaded function	**setenv**	overloaded function
fulltime	function	**setexitcode**	function
getenv	overloaded function	**setlocale**	overloaded function
gettimeofday	function	**sleep**	function
isleapyear	function	**time**	function
launch	function	**timezone**	function
libsuffix	string	**tmpdir**	function
localtime	function	**tmpname**	function
name	string	**today**	function
newline	string	**type**	string
nofdays	function	**uname**	function
now	function	**uuid**	function
pipeto	function	**validdate**	function
platform	string	**weekday**	function
remove	overloaded function	**where**	function
rename	overloaded function	**which**	function
resolvers	table		

package (basic lua)

config	string	**loadlib**	function
cpath	string	**luapaths**	function
extralibpath	function	**path**	string
extralibpaths	function	**poplibpath**	function
extraluapath	function	**popluapath**	function
extraluapaths	function	**preload**	table
helpers	table	**pushlibpath**	function
libpaths	function	**pushluapath**	function
loaded	table	**searchers**	table
loaders	table	**searchpath**	function

pagebuilders (context)

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

- F sethsize
- F sethspan
- F setlines
- F setproperties
- F setstart
- F setvsize

injections   table
- F flushafter
- F flushbefore
- F save

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

pdfe (context)

arraytotable	function	**getnofpages**	function
close	function	**getnumber**	function
closestream	function	**getpage**	function
dictionarytotable	function	**getpages**	function
encryptioncodes	data table	**getsize**	function
getarray	function	**getstatus**	function
getboolean	function	**getstream**	function
getbox	function	**getstring**	function
getcatalog	function	**gettrailer**	function
getdictionary	function	**getversion**	function
getfromarray	function	**new**	function
getfromdictionary	function	**objectcodes**	data table
getfromreference	function	**open**	function
getfromstream	function	**openstream**	function
getinfo	function	**pagestotable**	function
getinteger	function	**readfromstream**	function
getmemoryusage	function	**readwholestream**	function
getname	function	**type**	function
getnofobjects	function	**unencrypt**	function

pdfscanner (context)

scan function

physics (context)

units table   D tables

    F registerunit

pngdecode (context)

applyfilter function   **interlace** function
expand   function   **splitmask** function

publications (context)

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

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

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

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

regimes (context)

backmapping	data table	**mapping**	data table
cleanup	function	**pop**	function
disable	function	**process**	function
enable	function	**push**	function
fromregime	function	**toregime**	function
list	function	**translate**	function

resolvers (context)

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

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

sandbox (context)

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

scripts (context)

autofontfeature   table
    F disable
    F enable
    F handler
categorytonumber data table
colors   data table
decomposehangul function
defaults   table
    N inter_char_half_shrink_factor
    N inter_char_half_stretch_factor
    N inter_char_hangul_penalty
    N inter_char_quarter_shrink_factor
    N inter_char_quarter_stretch_factor
    N inter_char_shrink_factor
    N inter_char_stretch_factor
    N inter_word_stretch_factor
handlers   data table

hash   table
injectors   data table
inserters   table
    F nobreakspace_after
    F nobreakspace_before
    F space_after
    F space_before
    F zerowidthspace_after
    F zerowidthspace_before
installdataset   function
installmethod   function
numbertocategory data table
numbertodataset data table
numbertohandler data table
reset   function
set   function
splitters   data table

set (context)

contains	function	**tonumber**	function
create	function	**totable**	function
tolist	function		

sha2 (context)

HASH256	function	**digest512**	function
HASH384	function	**hash256**	function
HASH512	function	**hash384**	function
digest256	function	**hash512**	function
digest384	function		

sio (context)

read2dot14	function	**readfixed2**	function
readbytes	function	**readfixed4**	function
readbytetable	function	**readinteger1**	function
readcardinal1	function	**readinteger1_le**	function
readcardinal1le	function	**readinteger2**	function
readcardinal2	function	**readinteger2_le**	function
readcardinal2le	function	**readinteger3**	function
readcardinal3	function	**readinteger3_le**	function
readcardinal3le	function	**readinteger4**	function
readcardinal4	function	**readinteger4_le**	function
readcardinal4le	function	**readintegertable**	function
readcardinaltable	function		

socket (extra lua)

BLOCKSIZE	number		S content-md5
_DATAGRAMSIZE	number		S content-range
_SETSIZE	number		S content-transfer-encoding
_SOCKETINVALID	number		S content-type
bind	function		S cookie
choose	function		S date
connect	function		S diagnostic-code
connect4	function		S dsn-gateway
connect6	function		S etag
dns	table		S expect
F getaddrinfo			S expires
F gethostname			S final-log-id
F getnameinfo			S final-recipient
F tohostname			S from
F toip			S host
gettime	function		S if-match
headers	table		S if-modified-since
T canonic			S if-none-match
S accept			S if-range
S accept-charset			S if-unmodified-since
S accept-encoding			S in-reply-to
S accept-language			S keywords
S accept-ranges			S last-attempt-date
S action			S last-modified
S age			S location
S allow			S max-forwards
S alternate-recipient			S message-id
S arrival-date			S mime-version
S authorization			S original-envelope-id
S bcc			S original-recipient
S cache-control			S pragma
S cc			S proxy-authenticate
S comments			S proxy-authorization
S connection			S range
S content-description			S received
S content-disposition			S received-from-mta
S content-encoding			S references
S content-id			S referer
S content-language			S remote-mta
S content-length			S reply-to
S content-location			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	
F lower	
F normalize	

http   table

N TIMEOUT	
S USERAGENT	
F genericform	
F open	
F request	

newtry   function

protect	function
report	function
select	function
sink	function
sinkt	table
F close-when-done	
F default	
F http-chunked	
F keep-open	
skip	function
sleep	function
source	function
sourcet	table
F by-length	
F default	
F http-chunked	
F until-closed	
tcp	function
tcp4	function
tcp6	function
tp	table
N TIMEOUT	
F connect	
try	function
udp	function
udp4	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 digitsmaximum
  N digitsoffset
  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
replacementlist   function
setlanguage   function
sort   function
splitters   table
  F utf
strip   function
tracers   data table
update   function

statistics (context)

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

status (basic tex)

list   function
resetmessages function

storage (context)

allocate	function	**noftables**	number
data	table	**register**	function
mark	function	**shared**	data table
marked	function	**storedfunctions**	data table
max	number	**strip**	boolean
min	number	**tofmodules**	number
nofmodules	number	**toftables**	number

streams (context)

collect	function	**push**	function
disable	function	**start**	function
enable	function	**stop**	function
flush	function	**synchronize**	function
initialize	function		

string (basic lua)

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

structures (context)

atlocation   function
blocks   table
  D collected
  F define
  F print
  F save
  F select
  F setstate
  D states
  D tobesaved
  F uservariable
bookmarks   table
  T extras
   F get
   F mergesections
   F register
   F reset
   F tosections
  F finalize
  F flatten
  F installhandler
  F merge
  S method
  F overload
  F place
  F register
  F setup
counters   table
  F add
  F analyze
  F check
  D collected
  F compact
  F converted
  F currentvalue
  D data
  F define
  F first
  F get
  F last
  F next

  F prev
  F previous
  F raw
  F record
  F reset
  F restart
  F restore
  F save
  F set
  F setlevel
  F setoffset
  F setown
  F setstate
  F setvalue
  T specials
   F userpage
  F subs
  D tobesaved
  F value
  F way
currentsectionnumber function
descriptions   table
documents   table
  D data
  F initialize
  F preset
  F reset
floats   table
formulas   table
helpers   table
  F analyze
  F formulanumber
  F merged
  F page
  F pageofinternal
  F prefix
  F prefixlastpage
  F prefixpage
  F simplify
  F title
  F touserdata

inserts	table		T result
D data			F savedlistnumber
F define			F savedlistprefixednumber
F getdata			F savedlisttitle
F getlocation			D sectionblocks
F getname			F sectionnumber
F getnumber			F size
F setlocation			F title
F setup			D tobesaved
D stored			F userdata
itemgroups	table		F uservalue
lists	table	**marks**	table
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 formulanumber		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		**notes**	table
D names		F check_spacing	
F number		F checkpagechange	
D ordered		F define	
F page		F doifonsamepageasprevious	
F popnesting		F get	
F prefix		F getdeltapage	
F prefixednumber		F getinternal	
F prefixedpage		F getn	
F process		F getstate	
D pushed		F hascontent	
F pushnesting		F internal	
F realpage		F internalid	
F reordered		F listindex	

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

F set		F extend
F setandgetattribute		F filter
F setcomponent		F filtercollected
F setinternalreference		F finalize
F setlinkmethod		F findinternal
F setnextinternal		F flush
F setnextorder		F get
F setreferencerealpage		F prepare
D specials		F process
F splitcomponent		F setmethod
F splitprefix		F sort
F splitreference		F store
F synchronizepage		D tobesaved
T testrunners		F unique
F inner		F userdata

sections   table

F special		F autodepth
F special operation		F cct
F special operation with arguments		D collected
T testspecials		F current
F deltapage		F currentblock
F i		F currentid
F internal		F currentlevel
F page		F currentsectionindex
F realpage		F depthnumber
F section		F finddata
F userpage		F findnumber
D tobereferred		F fullnumber
D tobesaved		F getcurrentlevel
D tracedpages		F getlevel
T urls		F getnumber
T data		F internalreference
F define		D levelmap
F found		D levels
F get		F matchingtilldepth
F untex		F numberatdepth
D usedinternals		F numbers
D usedviews		F popblock
F valid		F prefixedconverted

registers   table

F analyze		F pushblock
D collected		F register
F compare		D registered
F define		F reportstructure
F enhance		F save

T	sectionblockdata	F	resetused
T	bodypart	F	sort
S	bookmark	F	synonym
F	set	D	tobesaved
F	setblock	**tags**	**table**
F	setchecker	F	current
F	setentry	F	elementtag
F	setinitialblock	F	finishexport
F	setlevel	F	getextradata
F	setnumber	F	getid
F	showstructure	F	getmetadata
F	structuredata	F	handler
F	title	F	initializeexport
D	tobesaved	D	labels
F	typesetnumber	F	last
F	userdata	F	lastinchain
B	verbose	F	locatedtag
sets	**table**	T	patterns
F	define	U	splitter
F	get	D	properties
F	getall	F	registerextradata
D	setlist	F	registermetadata
specials	**table**	F	restart
D	collected	F	setaspect
F	retrieve	F	setattributehash
F	store	F	setcombination
D	tobesaved	F	setconstruct
synonyms	**table**	F	setfigure
F	analyzed	F	setfloat
D	collected	F	setformulacontent
F	compare	F	sethighlight
F	define	F	setitem
F	filter	F	setitemgroup
F	finalize	F	setlist
F	flush	F	setnotation
F	isshown	F	setnotationsymbol
F	isused	F	setproperty
F	meaning	F	setpublication
F	prepare	F	setregister
F	process	F	setsorting
F	register	F	setsynonym
F	registershown	F	settablecell
F	registerused	F	settabulatecell
F	resetshown	F	settagdelimitedsymbol

F settagsubsentencesymbol

F setupexport

F setuserproperties

D specifications

F start

F stop

F strip

D taglist

T usewithcare

  T images

table (basic lua)

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

tex (basic tex)

attribute	table	**getglue**	function
badness	function	**gethelptext**	function
box	table	**getlccode**	function
boxresources	table	**getlist**	function
F getbox		**getlocallevel**	function
F getdimensions		**getmath**	function
F save		**getmathcode**	function
F use		**getmathcodes**	function
catcode	table	**getmuglue**	function
conditionals	data table	**getmuskip**	function
constants	data table	**getnest**	function
count	table	**getpagestate**	function
cprint	function	**getsfcode**	function
ctdcatcodes	number	**getskip**	function
ctxcatcodes	number	**gettoks**	function
definefont	function	**getuccode**	function
delcode	table	**glue**	table
dimen	table	**hashtokens**	function
directives	data table	**ifs**	data table
enableprimitives	function	**inicatcodes**	number
error	function	**isattribute**	function
extraprimitives	function	**isbox**	function
fontidentifier	function	**iscount**	overloaded function
fontname	function	**isdefined**	function
force_synctex_line	function	**isdimen**	overloaded function
force_synctex_tag	function	**isglue**	function
forcehmode	function	**ismuglue**	function
fprint	function	**ismuskip**	overloaded function
get	function	**isskip**	overloaded function
get_synctex_line	function	**istoken**	function
get_synctex_mode	function	**istoks**	function
get_synctex_tag	function	**lccode**	table
getattribute	function	**linebreak**	function
getbox	function	**lists**	table
getboxresourcebox	function	**luacatcodes**	number
getboxresourcedimensions	function	**magicconstants**	table
getcatcode	function	N maxdimen	
getcount	function	N running	
getdelcode	function	N trueinch	
getdelcodes	function	**mathcode**	table
getdimen	function	**modes**	data table

muglue	table	**setmathdir**	function
muskip	table	**setmuglue**	function
nest	table	**setmuskip**	function
nilcatcodes	number	**setnest**	function
notcatcodes	number	**setpardir**	function
number	function	**setsfcode**	function
primitives	function	**setskip**	function
print	function	**settextdir**	function
prtcatcodes	number	**settoks**	function
resetparagraph	function	**setuccode**	function
romannumeral	function	**sfcode**	table
round	function	**shipout**	function
runtoks	function	**show_context**	function
saveboxresource	function	**skip**	table
scale	function	**sp**	function
scantoks	function	**splitbox**	function
set	function	**sprint**	function
set_synctex_line	function	**systemmodes**	data table
set_synctex_mode	function	**takebox**	function
set_synctex_no_files	function	**texcatcodes**	number
set_synctex_tag	function	**toks**	table
setattribute	function	**tpacatcodes**	number
setbox	function	**tpbcatcodes**	number
setboxdir	function	**tprint**	function
setcatcode	function	**trackers**	data table
setcount	function	**triggerbuildpage**	function
setdelcode	function	**txtcatcodes**	number
setdimen	function	**type**	function
setglue	function	**uccode**	table
setlccode	function	**uprint**	function
setlinedir	function	**useboxresource**	function
setlist	function	**vrbcatcodes**	number
setmath	function	**write**	function
setmathcode	function		

texconfig (basic tex)

error_line	number	**max_print_line**	number
expand_depth	number	**max_strings**	number
formatname	string	**nest_size**	number
function_size	number	**param_size**	number
half_error_line	number	**properties_size**	number
hash_extra	number	**save_size**	number
init	overloaded function	**shell_escape**	string
kpse_init	boolean	**stack_size**	overloaded number
max_in_open	number		

texio (basic tex)

closeinput   function   **write**   function
setescape   function   **write_nl**   function

token (basic tex)

biggest_char	function	**scan_argument**	function
command_id	function	**scan_code**	function
commands	function	**scan_csname**	function
create	function	**scan_dimen**	function
expand	function	**scan_float**	function
get_active	function	**scan_glue**	function
get_cmdname	function	**scan_int**	function
get_command	function	**scan_keyword**	function
get_csname	function	**scan_keyword_cs**	function
get_expandable	function	**scan_list**	function
get_id	function	**scan_real**	function
get_index	function	**scan_string**	function
get_macro	function	**scan_token**	function
get_meaning	function	**scan_tokenlist**	function
get_mode	function	**scan_toks**	function
get_next	function	**scan_word**	function
get_protected	function	**set_char**	function
get_tok	function	**set_lua**	function
is_defined	function	**set_macro**	function
is_token	function	**to_string**	function
new	function	**type**	function
put_next	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
cache   table
   U NC
   U NR
   U bf
   U color
   U colordefalc
   U colordefflc
   U colordefflt
   U colordefrlt
   U dofinishreference
   U dostarttext
   U finishjob
   U firstofoneargument
   U firstoftwoarguments
   U gobbleoneargument
   U goto
   U iftrue
   U input

   U loadfoundtypescriptfile
   U resetctxscanner
   U rlap
   U scratchcounter
   U scratchdimen
   U scratchmuskip
   U scratchskip
   U scratchtoken
   U secondoftwoarguments
   U setfalsevalue
   U setsectionblock
   U setupsystem
   U startcolumns
   U starttabulate
   U starttitle
   U startxtitle
   U stopcolumns
   U stoptabulate
   U stoptitle
   U stopxtitle
   U texsetup
collectors table
   T data
   F defaultwords
   F dowithwords
   F flush
   F install
   F register
   T registered
   F show
   F test
commands   data table
compile   function
constant   function
converters table
   S toboolean
   S todimen
   S toglue
   S tonumber
   S tostring
create   function

defined	function
egroup	userdata
getters	table
F box	
F count	
F dimen	
F glue	
F macro	
F meaning	
F skip	
F token	
hbox	userdata
isdefined	function
istoken	function
letter	function
letters	function
new	function
other	function
pickup	function
presets	table
T 1 string	
T 2 strings	
T 3 strings	
T 4 strings	
T 5 strings	
T 6 strings	
T 7 strings	
T 8 strings	
printlist	function
scanners	table
F argument	
F boolean	
F code	
F conditional	
F count	
F csname	
F dimen	
F dimension	
F float	
F glue	
F integer	
F keyword	
F keywordcs	
F list	

F lxmlid	
F number	
F real	
F scanclose	
F scanopen	
F skip	
F string	
F table	
F token	
F tokenlist	
F tokens	
F toks	
F verbatim	
F word	
setters	table
F box	
F char	
F count	
F dimen	
F glue	
F lua	
F macro	
F skip	
shortcuts	table
T bits	
N active	
N alignment	
N begingroup	
N character	
N close	
N comment	
N endgroup	
N endofline	
N escape	
N ignore	
N invalid	
N letter	
N mathshift	
N open	
N other	
N parameter	
N space	
N subscript	
N superscript	

N whitespace	F verbatim
N close	F word
F inspect	F scannumber
N open	F scanopen
F report	F scanstring
F scanargument	F scantable
F scanboolean	F scantokenlist
F scanclose	F scanverbatim
F scancode	F scanword
F scanconditional	F toboolean
F scancsname	F todimen
F scandimen	T tokens
F scandimension	F astable
F scaninteger	U bgroup
F scankeyword	T cache
F scankeywordcs	U NC
F scanlist	U NR
T scanners	U bf
F argument	U color
F boolean	U colordefalc
F code	U colordefflc
F conditional	U colordefflt
F count	U colordefrlt
F csname	U dofinishreference
F dimen	U dostarttext
F dimension	U finishjob
F float	U firstofoneargument
F glue	U firstoftwoarguments
F integer	U gobbleoneargument
F keyword	U goto
F keywordcs	U iftrue
F list	U input
F lxmlid	U loadfoundtypescriptfile
F number	U resetctxscanner
F real	U rlap
F scanclose	U scratchcounter
F scanopen	U scratchdimen
F skip	U scratchmuskip
F string	U scratchskip
F table	U scratchtoken
F token	U secondoftwoarguments
F tokenlist	U setfalsevalue
F tokens	U setsectionblock
F toks	U setupsystem

U startcolumns	F other
U starttabulate	F pickup
U starttitle	T presets
U startxtitle	F printlist
U stopcolumns	T setters
U stoptabulate	F box
U stoptitle	F char
U stopxtitle	F count
U texsetup	F dimen
T collectors	F glue
F defaultwords	F lua
F dowithwords	F macro
F flush	F skip
F install	T shortcuts
F register	N close
F show	F inspect
F test	N open
D commands	F report
F compile	F scanargument
F constant	F scanboolean
T converters	F scanclose
S toboolean	F scancode
S todimen	F scanconditional
S toglue	F scancsname
S tonumber	F scandimen
S tostring	F scandimension
F create	F scaninteger
F defined	F scankeyword
U egroup	F scankeywordcs
T getters	F scanlist
F box	F scannumber
F count	F scanopen
F dimen	F scanstring
F glue	F scantable
F macro	F scantokenlist
F meaning	F scanverbatim
F skip	F scanword
F token	F toboolean
U hbox	F todimen
F isdefined	F tonumber
F istoken	F tostring
F letter	U vbox
F letters	U vtop
F new	F tonumber

F tostring **vtop** userdata

vbox userdata

tracers (context)

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

trackers (context)

data	data table	**name**	string
default	function	**register**	function
disable	function	**report**	function
done	table	**reset**	function
dumphashtofile	function	**savehash**	function
enable	function	**show**	function
list	function	**value**	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 replacenbsp
   F replacenbspaces
checkers   table
   F handler
   F reset
   F set
cleaners   table
   F handler
   F set
digits   table
   T actions
   F handler
   F set
directions   table
   F getfences
   F getglobal
   F getmethod
   F handler

   T handlers
   F installhandler
   F processmath
   F set
   F setcolor
   F setmath
   F tomode
firstlines   table
   T actions
    F default
    F line
    F word
   F handler
   F set
fontkerns   table
   F handler
initials   table
   T actions
    F default
   F addanchortoline
   F addtoline
   F calculatedelta
   F checkline
   F handler
   F moveinline
   F normalize
   F set
injectors   table
   F check
   T list
   F mark
   F reset
   F set
   F show
italics   table
   F enablemath
   F enabletext
   F forcevariant
   F handler
   F reset
   F set

kerns table

D factors

F handler

F keepligature

D mapping

F set

manipulators table

F apply

F applyspecification

T methods

  F Word

  F Words

  F abbreviatedjournal

  F expandedjournal

  F lowercase

  F stripperiod

  F uppercase

T patterns

  U list

  U pair

F splitspecification

margins table

F finalhandler

F globalhandler

F localhandler

F save

marksuspects function

paragraphs table

F addanchortoline

F addtoline

F calculatedelta

F checkline

F handler

F moveinline

F normalize

F set

periodkerns table

D factors

F handler

D mapping

F set

processors table

F apply

F register

F reset

F split

F startapply

F stopapply

F stripped

F tostring

rubies table

F attach

F check

showsuspects function

spacings table

F define

F handler

D mapping

T numbers

  T frenchpunctuation

    T characters

    S name

    N number

F reset

F set

F setup

wrappers table

F handler

xtables table

F cleanup

F construct

F create

F finish_row

F flush

F initialize_construct

F initialize_reflow_height

F initialize_reflow_width

F next_row

F reflow_height

F reflow_width

F set_construct

F set_reflow_height

F set_reflow_width

updaters (context)

apply   function
register function

url (context)

addscheme	function	**hashed**	function
barepath	function	**hasscheme**	function
construct	function	**query**	function
decode	function	**split**	function
encode	function	**toquery**	function
escape	function	**unescape**	function
filename	function	**unescapeget**	function

utf8 (context)

char	function		**codes**	function
charpattern	string		**len**	function
codepoint	function		**offset**	function

utilities (context)

debugger   table
- F disable
- F enable
- F savestats
- F showstats
- F showtraceback

files   table
- F close
- F getposition
- F getsize
- F look
- F open
- F read2dot14
- F readbyte
- F readbytes
- F readbytetable
- F readcardinal
- F readcardinal1
- F readcardinal1le
- F readcardinal2
- F readcardinal2le
- F readcardinal3
- F readcardinal3le
- F readcardinal4
- F readcardinal4le
- F readcardinaltable
- F readchar
- F readfixed2
- F readfixed4
- F readinteger
- F readinteger1
- F readinteger1le
- F readinteger2
- F readinteger2le
- F readinteger3
- F readinteger3le
- F readinteger4
- F readinteger4le
- F readintegertable
- F readsignedbyte
- F readstring
- F readtag
- F setposition
- F size
- F skip
- F skiplong
- F skipposition
- F skipshort
- F writebyte
- F writecardinal1
- F writecardinal1le
- F writecardinal2
- F writecardinal2le
- F writecardinal3
- F writecardinal3le
- F writecardinal4
- F writecardinal4le
- F writeinteger1
- F writeinteger1le
- F writeinteger2
- F writeinteger2le
- F writeinteger3
- F writeinteger3le
- F writeinteger4
- F writeinteger4le
- F writestring

formatters   table
- F formatcolumns
- F list
- F stripzeros

garbagecollector table
- F check
- N criterium
- B enabled

lua   table
- B alwaysstripcode
- F checkmemory
- F compile
- F loadedluacode
- F loadstring
- F loadstripped
- N nofstrippedbytes

F setseedi			F open	
report	function		F openstring	
sequencers	table		F read2dot14	
F appendaction			F read2dot4	
F appendgroup			F readbyte	
F compile			F readbytes	
F disableaction			F readbytetable	
F disablegroup			F readcardinal	
F enableaction			F readcardinal1	
F enablegroup			F readcardinal2	
D functions			F readcardinal2le	
F localize			F readcardinal3	
F new			F readcardinal3le	
F nodeprocessor			F readcardinal4	
F prependaction			F readcardinal4le	
F prependgroup			F readcardinaltable	
F removeaction			F readchar	
F replaceaction			F readfixed2	
F setkind			F readfixed4	
F tostring			F readinteger	
setters	table		F readinteger1	
F disable			F readinteger2	
F enable			F readinteger2le	
F initialize			F readinteger3	
F list			F readinteger3le	
F new			F readinteger4	
F register			F readinteger4le	
F report			F readintegertable	
F reset			F readsignedbyte	
F show			F readstring	
stacker	table		F setposition	
F new			F size	
storage	table		F skip	
F allocate			F skipbytes	
F checked			F skiplong	
F mark			F skipshort	
F marked			**strings**	table
F setinitializer			F collapse	
F sparse			F collapsecrlf	
streams	table		T formatters	
F close			F add	
F getposition			F new	
F getstring			F newcollector	
F look			F newrepeater	

F nice		F insertbeforevalue	
T striplinepatterns		F migratetable	
U collapse		F removevalue	
U prune		F replacevalue	
U prune and collapse		**templates**	table
U prune and no empty		F load	
U prune and to space		F replace	
U retain		F replacer	
U retain and collapse		F resolve	
U retain and no empty		**zipfiles**	table
F striplines		F close	
F striplong		F found	
F tabtospace		F gunzipfile	
T tracers		F hash	
tables	table	F list	
F accesstable		F open	
F definedtable		F unzip	
F definetable		F unzipdir	
F encapsulate		F zipdir	
F insertaftervalue			

visualizers (context)

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

xmath (context)

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

xml (context)

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

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

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

strip	function	**toxml**	function
~~strip_whitespace~~	~~function~~	**tprint**	function
stripelement	function	**traverse**	function
stripleadingspaces	function	**unescaped**	function
table	function	**unescapedentitylpeg**	userdata
text	function	**unprivatized**	function
textonly	function	**unspecialized**	function
texttocdata	function	**withelement**	function
tocdata	function	**withelements**	function
toelement	function	**wrap**	function
tostring	function	**xmlns**	table
totable	function		

zip (extra lua)

archives	table	**openarchive**	function
closearchive	function	**registeredfiles**	table

zlib (extra lua)

adler32	function	**decompress**	function
compress	function	**decompressobj**	function
compressobj	function	**version**	function
crc32	function		