MP attributes backends 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 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 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 xml zip zlib

ConTeXt MkIV

global (alias: _G)

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

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
module	function	**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
poporientation	function	**thirddata**	table
print	function	**toboolean**	function

token	table	**userdata**	table
tokens	table	**utf**	table
tonumber	function	**utf8**	table
tostring	function	**utilities**	table
tracers	table	**v**	string
trackers	table	**visualizers**	table
type	function	**xml**	table
typesetters	table	**xpcall**	function
unpack	function	**zip**	table
updaters	table	**zlib**	table
url	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
  F negative              registrations    table
  F overprint             tables            table
  F positive              timestamp         function
                          writeout          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 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 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	**status**	function
isyieldable	function	**wrap**	function
resume	function	**yield**	function
running	function		

ctxrunner (context)

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

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
enable   function
gethpos   function
getpos   function
getvpos   function
helpers   table
  F tomatrix
install   function
instances   table
  T default
   T actions
    F convert
    F outputfilename
   T flushers
   S name
  T lua
   T actions
    F fetch
    F finalize
    F initialize
    F reset
   T flushers
    F character
    F rule
   S name
  T mps
   T actions
    F fetch
    F finalize

    F initialize
    F reset
   T flushers
    F character
    F rule
   S name
  T pdf
   T actions
    F convert
    F finalize
    F initialize
    F outputfilename
    F prepare
    F updatefontstate
    F wrapup
   T flushers
    F character
    F pdfimage
    F pdfliteral
    F pdfrestore
    F pdfsave
    F pdfsetmatrix
    F poporientation
    F pushorientation
    F rule
    F simplerule
   S name
lmtxversion   number
outputfilename function

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	T keys	
badname	function	F print	
bases	data table	F scan	
bitmapimage	function	F serialize	
boxnumber	number	T sizes	
cachepaths	data table	B art	
check	function	B bleed	
checkers	data table	B crop	
converters	data table	B media	
current	function	B none	
defaultdepth	number	B trim	
defaultheight	number	F totable	
defaultsearch	boolean	T types	
defaultwidth	number	N jbig2	
done	function	N jp2	
dummy	function	N jpg	
existers	data table	N memstream	
exists	function	N none	
formats	data table	N pdf	
found	data table	N png	
get	function	N stream	
getinfo	function	F wrap	
getpdfinfo	function	**include**	function
getrealpage	function	**includers**	data table
guess	function	**initialize**	function
guessfromstring	function	**loaded**	data table
hash	function	**localpaths**	data table
identifiers	data table	**magics**	data table
identify	function	**mergegoodies**	function
images	table	**nofmissing**	number
T __img__		**nofprocessed**	number
F copy		**order**	data table
F embed		**paths**	data table
F new		**patterns**	data table
F scan		**pop**	function
F wrap		**preferquality**	boolean
F check		**programs**	data table
F checksize		**push**	function
F copy		**registerpattern**	function
F create		**registerresource**	function
F embed		**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	**readfixed4**	function
read2dot14	function	**readinteger1**	function
readbytes	function	**readinteger2**	function
readbytetable	function	**readinteger3**	function
readcardinal1	function	**readinteger4**	function
readcardinal2	function	**readintegertable**	function
readcardinal3	function	**readline**	function
readcardinal4	function	**setposition**	function
readcardinaltable	function	**skipposition**	function
readfixed2	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	**getfont**	function
current	function	**id**	function
define	function	**max**	function
each	function	**nextid**	function
fonts	table	**setfont**	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                          F reversechainedcontextsingle
T readers                             F single
  F addunicodetable                   F gvar
  F avar                              F head
  F cbdt                            T helpers
  F cblc                              F axistofactors
  F cff                               F cleanname
  F cff2                              F getaxisscale
  F cffcheck                          F getfactors
  T cffencoder                        F getscales
  F checkhash                         F gotodatatable
  F cmap                              F normalizedaxis
  F colr                            T normalizedaxishash
  F compact                           F readvariationdata
  F cpal                              F reportskippedtable
  F ebdt                              F setvariabledata
  F eblc                            F hhea
  F ebsc                            F hmtx
  F expand                          F hvar
  F extend                          F kern
  F fvar                            F loadfont
  F gdef                            F loadshapes
  F getcomponents                   F loca
  F getinfo                         F math
  F glyf                            F maxp
  F gpos                            F mvar
  T gposhandlers                    F name
    F chainedcontext                F os/2
    F context                       F pack
    F cursive                       F parsecharstrings
    F extension                     F post
    F marktobase                    F registerextender
    F marktoligature                F rehash
    F marktomark                    F sbix
    F pair                          F stat
    F single                      T streamreader
  F gsub                              F close
  T gsubhandlers                      F getposition
    F alternate                      F getsize
    F chainedcontext                 F look
    F context                        F open
    F extension                      F read2dot14
    F ligature                       F readbyte
    F multiple                       F readbytes
```

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

```
    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 noglyphnames
      S mode                            S nostackmath
      T protrusion                      S psname
        S auto                          S textitalics
      S quad                            S virtualized
      S scaledpoints                  D loadedfonts
      S scriptpercentage              S namemode
      S scriptscriptpercentage        N noffontsloaded
      S size                          N nofsharedfonts
      S slantfactor                   N nofsharedhashes
      S slantperpoint                 N nofsharedvectors
      T spacing                       N privateoffset
        S extra                       D privateslots
        S shrink                      F readanddefine
        S stretch                     F registerfeature
        S width                       F resetfeature
      S units                         B resolvevirtualtoo
```

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	
F registered		T dejavu-math	
F registersplit		S author	
F resetnullfont		S comment	
F resolve		S copyright	
T resolvers		B initialized	
F file		T mathematics	
F name		T alternates	
F spec		T dotless	
definetypeface	function	S comment	
encodings	table	S feature	
T agl		N value	
D ctxcodes		T kerns	
D extras		S name	
D names		S version	
D synonyms		T schola-math	

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

	T kerns	**helpers**	table
S	name	F	addextraprivate
S	version	F	addprivate
D	designsizes	F	appendcommands
D	filenames	F	appendcommandtable
F	getcompositions	F	checkflags
T	list	F	checkmerge
F	load	F	checksteps
F	prepare_features	F	collectanchors
F	register	D	commands
F	registerpostprocessor	F	descriptiontoslot
F	report	F	dimenfactor
T	suffixes	F	expandglyph

handlers	table	T	extraprivates
hashes	table	F	fontpatternhassize
D	characters	F	getcoloredglyphs
D	classes	F	getdigitwidth
D	csnames	F	getinstancespec
D	descriptions	F	getparameters
D	dynamics	F	getprivatecharornode
D	emwidths	F	getprivatenode
D	exheights	F	getprivates
D	extensibles	F	getprivateslot
D	features	F	hasprivate
D	identifiers	F	indextoslot
D	italics	F	name
D	lastmathids	F	nametoslot
D	marks	F	prependcommands
D	mathparameters	F	prependcommandtable
D	modes	F	privateslot
D	originals	F	setdigitwidth
D	parameters	F	splitfontpattern
T	processes	F	tochar
D	properties	**infofont**	function

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	
F output			F features	
F paths			F filefallback	
F widthline			F fontdata	
F zeroline			F fontfallback	
mp	table		F fontsynonym	
D cache			F goodies	
B inline			F mathfallback	
N version			D methods	
names	data table		D presets	
nulldata	data table		F registerfallback	
privateoffsets	table		F registerfiles	
B keepnames			F registerfontalternative	
N mathbase			F registerfontfamily	
N mathextrabase			F textfallback	
N textbase			F typeface	

F typescript			T emoji	
F userdata			F checked	
specifiers	table		F resolved	
D contextmerged			F uselibrary	
F contextnumber			**tables**	table
D contextnumbers			D data	
D contextsetups			F savefont	
F contexttostring			F saveoriginal	
F definecontext			**tracers**	table
F mergecontext			**treatments**	table
F presetcontext			F applyfixes	
F registercontext			D data	
F showcontext			S filename	
F splitcontext			F ignoredfile	
D synonyms			F report	
D variants			F trace	
symbols	table		**typefaces**	table

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	F list	
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
F define			

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		F	whd
F	leftskip		F	width
F	lowerleft		F	x
F	lowerright		F	xy
F	markregionbox		F	y

F	n	**prepare**	function
F	onsamepage	**register**	function
F	overlapping	**save**	function
F	p	**structure**	table
T	page		
F	paragraph	D collected	
F	parindent	T components	
F	position	T tobesaved	
F	r	T branches	
F	region	S name	
F	registerhandlers	S type	
F	replace	**variables**	table
F	rightskip		
F	set	D checksums	
F	setall	D collected	
F	setregionbox	F getchecksum	
D	tobesaved	F makechecksum	
F	upperleft	F restore	
F	upperright	F save	
S	used	F setchecksum	
		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		F registerpattern
associated	data table		F setfeatures
association	function	**installed**	function
counters	data table	**labels**	table
current	function	F define	
data	data table	F split	
decimals	data table	**loadable**	function
define	function	**loadwords**	function
explicithyphen	function	**logger**	table
flatten	function	F report	
frequencies	table	**nofflattened**	function
F averagecharwidth		**numbers**	data table
F getdata		**postexhyphenchar**	function
getdata	function	**posthyphenchar**	function
getnumber	function	**preexhyphenchar**	function
hjcounts	table	**prehyphenchar**	function
hyphenate	function	**registered**	data table
hyphenators	table	**replacements**	table
T dictionaries		F add	
D featuresets		F addlist	
F handler		F handler	
T methods		F set	
F expanded		**serializediscretionary**	function
B none		**setexceptions**	function
F original		**setsynonym**	function
F tex		**showdiscretionaries**	function
F traditional		**unload**	function
F popmethod		**urls**	table
F pushmethod		D characters	
F setmethod		N lefthyphenmin	
F setup		D mapping	
F showhyphenationtrace		B packslashes	
T traditional		N righthyphenmin	
F definefeatures		F setcharacters	
F gettrace		**version**	number
F hyphenate		**visualizediscretionaries**	function
F injecthyphens		**words**	table
F installmethod		F check	
F lasttrace		T data	
F loadpatterns		F disable	
F registerexception		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	**lock_dir**	overloaded function
chdir	overloaded function	**mkdir**	overloaded function
currentdir	function	**mkdirs**	function
dir	overloaded function	**readlink**	function
isdir	function	**rmdir**	overloaded function
isfile	function	**setmode**	overloaded function
isfound	function	**symlinkattributes**	overloaded function
link	overloaded function	**touch**	overloaded function
lock	function	**unlock**	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
F a			**stripcss**	function
F td			**tv**	function
F th			**type**	function
include	function		**urlescape**	function
inherited	table		**variable**	function
S color-background-four			**variables**	table
S color-background-one			S color-background-blue	
S color-background-three			S color-background-body	
S color-background-two			S color-background-green	
S title			S color-background-main	
initialize	function		S color-background-purple	
inject	function		S color-background-yellow	
lmxfile	function		S title-default	

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

luatex (context)

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		**maxinteger**	number
acos	function		**min**	function
asin	function		**mininteger**	number
atan	function		**mod**	function
atan2	function		**modf**	function
ceil	function		**odd**	function
ceiling	function		**pi**	number
cos	function		**pow**	function
cosd	function		**rad**	function
cosh	function		**random**	overloaded function
deg	function		**randomseed**	function
div	function		**round**	function
even	function		**setrandomseedi**	function
exp	function		**sin**	function
floor	function		**sind**	function
fmod	function		**sinh**	function
frexp	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

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		**hex**	function
crypt	function		**sum**	function
dec	function		**sumHEXA**	function
decrypt	function		**sumhexa**	function
exor	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			

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

F setfam	**effective_glue** function
F setfield	**end_of_math** function
F setfont	**family_font** function
F setglue	**fields** function
F setheight	**find_attribute** function
F setkern	**first_glyph** function
F setlang	**fix_node_lists** function
F setleader	**flatten_discretionaries** function
F setlink	**flush_list** function
F setlist	**flush_node** function
F setnext	**free** function
F setnucleus	**get_attribute** function
F setoffsets	**get_properties_table** function
F setorientation	**getboth** function
F setpenalty	**getchar** function
F setprev	**getdisc** function
F setproperty	**getfield** function
F setshift	**getfont** function
F setsplit	**getglue** function
F setsub	**getid** function
F setsubtype	**getleader** function
F setsup	**getlist** function
F setwhd	**getnext** function
F setwidth	**getprev** function
F slide	**getproperty** function
F tail	**getsubtype** function
F todirect	**getwhd** function
F tonode	**has_attribute** function
	has_field function
	has_glyph function
	hpack function

hyphenating	function	**setfield**	function
id	function	**setglue**	function
insert_after	function	**setproperty**	function
insert_before	function	**setwhd**	function
is_char	function	**slide**	function
is_glyph	function	**subtypes**	function
is_node	function	**tail**	function
is_zero_glue	function	**tostring**	function
kerning	function	**traverse**	function
last_node	function	**traverse_char**	function
length	function	**traverse_glyph**	function
ligaturing	function	**traverse_id**	function
make_extensible	function	**traverse_list**	function
mlist_to_hlist	function	**type**	function
new	function	**types**	function
next	function	**unprotect_glyph**	function
prepend_prevdepth	function	**unprotect_glyphs**	function
prev	function	**unset_attribute**	function
protect_glyph	function	**usedlist**	function
protect_glyphs	function	**uses_font**	function
protrusion_skippable	function	**values**	function
rangedimensions	function	**vpack**	function
remove	function	**write**	function
set_attribute	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	**getbox**	function
concat	function	**getchar**	function
copy	function	**getdisc**	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		**getwhd**	function
T stack		**gluecodes**	data table
dimensionfields	data table	**gluevalues**	data table
dimensions	function	**glyphcodes**	data table
dircodes	data table	**handlers**	table
directioncodes	data table	F accessibility	
directionvalues	data table	F backgrounds	
dirvalues	data table	F backgroundspage	
disccodes	data table	F backgroundsvbox	
discretionarycodes	data table	F characters	

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

marginkerncodes	data table	F firstglyph	
markers	table	F flatten_discretionaries	
F get		F flush	
mathcodes	data table	F flush_components	
maxboxwidth	function	F flush_list	
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 getsubtype

F getsup

F getsurround

F getvalue

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 lateluafunction

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 wordboundary
F prepend
F processranges
F processwords
F protect_glyph
F protect_glyphs
F protrusion_skippable
F rangedimensions
F rawprop
F reference
F rehpack
F remove
F repackhlist
F replace
F rightmarginwidth
T rules
  T ruleactions
    F box
    F draw
    F fill
    F mp
    F stroke
  F userrule
F set_attribute
F set_synctex_fields
F setattr
F setattribute
F setattributelist
F setattributes
F setattrlist
F setboth
F setbox
F setboxglue
F setchar
F setcomponents
F setdata
F setdepth

F setdirection
F setdisc
F setdiscretionary
F setexpansion
F setfam
F setfield
F setfont
F setglue
F setheight
F setkern
F setlang
F setlanguage
F setleader
F setlink
F setlist
F setnext
F setnucleus
F setoffsets
F setorientation
F setpenalty
F setprev
F setprop
F setshift
F setsplit
F setsub
F setsubtype
F setsup
F setsurround
F setunsetattributes
F setvalue
F setvisual
F setvisuals
F setwhd
F setwidth
F slide
F somepenalty
F somespace
F splitbox
F striprange
F tail
F takeattr
F takebox
F takelist
F theprop

F tonode	**penaltycodes**	data table
F tonodes	**plugindata**	table
F tonut	F finalizer	
F tosequence	F initializer	
F tostring	S name	
F tracedslide	T namespace	
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

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

F showactions	
F table	
tobasepoints	function
tocentimeters	function
tociceros	function
todidots	function
todimen	function
toinches	function
tomillimeters	function
tonewciceros	function
tonewdidots	function
tonode	function
tonodes	function
tonut	function
topicas	function
topoints	function
toscaledpoints	function
tosequence	function
tostring	function
totable	function
totree	function
toutf	function
tracers	table
T characters	
F collect	
F equal	
F start	
F string	
F unicodes	
T colors	
F reset	
F set	
F setlist	
F fontchar	
T frequencies	
F register	
T pool	
T nodes	
F rule	
T nuts	
F rule	
F resetproperties	
F rule	
F setlist	

F setproperties	
F start	
T steppers	
F check	
F codes	
F features	
F font	
F glyphs	
F message	
F messages	
F nofsteps	
F register	
F reset	
F start	
F stop	
F stop	
T transparencies	
F reset	
F set	
F setlist	
traverse	function
traverse_char	function
traverse_glyph	function
traverse_id	function
traverse_list	function
traversers	table
F char	
F glyph	
F list	
F node	
typesetters	table
F hbox	
F hpack	
F tohbox	
F tohpack	
F tonodes	
F tovbox	
F tovpack	
F vpack	
unprotect_glyph	function
unprotect_glyphs	function
unset_attribute	function
unsetattribute	function
unsetattributes	function

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

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
exec	overloaded function	**selfpath**	string
execute	overloaded function	**setenv**	overloaded function
exit	overloaded function	**setexitcode**	function
fulltime	function	**setlocale**	overloaded function
getenv	overloaded function	**sleep**	function
gettimeofday	function	**spawn**	overloaded function
isleapyear	function	**time**	function
launch	function	**times**	function
libsuffix	string	**timezone**	function
localtime	function	**tmpdir**	function
name	string	**tmpname**	function
newline	string	**today**	function
nofdays	function	**type**	string
now	function	**uname**	function
pipeto	function	**uuid**	function
platform	string	**validdate**	function
remove	overloaded function	**weekday**	function
rename	overloaded function	**where**	function
resolvers	table	**which**	function

package (basic lua)

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

pdf (basic tex)

disablecommand	function	**obj**	function
flushnormalobj	function	**print**	function
flushpdfimage	function	**refobj**	function
flushstreamobj	function	**registerannot**	function
getcompresslevel	function	**reserveobj**	function
getfontname	function	**setcatalog**	function
getfontobjnum	function	**setcompresslevel**	function
getmajorversion	function	**setinfo**	function
getmatrix	function	**setmajorversion**	function
getminorversion	function	**setminorversion**	function
getobjcompresslevel	function	**setnames**	function
getpageref	function	**setobjcompresslevel**	function
getxformname	function	**setomitcharset**	function
getximagename	function	**setomitcidset**	function
hasmatrix	function	**setpageattributes**	function
immediateobj	function	**setpageresources**	function
includecharlist	function	**setpagesattributes**	function
includeimage	function	**settrailer**	function
mapfile	function	**settrailerid**	function
mapline	function	**vfimage**	function

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		
T author		
T editionset		
T virtual		
T demo-a		
S category		
T extra		
T fields		
S author		
S institution		
S organization		
S subtitle		
S title		
S year		
T optional		
T required		
T sets		
T author		
T virtual		
T demo-b		
S category		
T extra		
T fields		
S author		
S institution		
S organization		
S subtitle		
S title		
S year		
T optional		
T required		
T sets		
T authors		
T virtual		
S comment		
S copyright		
T fields		
S name		
T types		
S author		
S editor		
S keywords		
S number		
S page		

S pages		
S volume		
S version		
D virtual		
T virtualfields		
B authornum		
B authoryear		
B authoryears		
B num		
B suffix		
datasets	table	
detailed	table	
endnotes_to_btx	function	
enhancer	table	
S arguments		
T askip		
B dirty		
T gskip		
T kind		
T list		
T system		
T order		
N steps		
enhancers	table	
F details		
F order		
F suffixes		
finder	function	
firstofrange	function	
found	function	
get	function	
getcasted	function	
getdetail	function	
getdirect	function	
getfaster	function	
getfield	function	
getfuzzy	function	
getindex	function	
inspectors	data table	
journals	table	
F abbreviated		
F add		
F expanded		
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		
luacnfstate	string	T cleaners	
macros	table	F md5	
		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
create   function
tolist   function

tonumber function
totable   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	**readinteger2**	function
readcardinal2	function	**readinteger3**	function
readcardinal3	function	**readinteger4**	function
readcardinal4	function	**readintegertable**	function
readcardinaltable	function		

socket (extra lua)

BLOCKSIZE	number
_DATAGRAMSIZE	number
_DEBUG	boolean
_SETSIZE	number
_SOCKETINVALID	number
bind	function
choose	function
connect	function
connect4	function
connect6	function
dns	table

    F getaddrinfo
    F gethostname
    F getnameinfo
    F tohostname
    F toip

gettime	function
headers	table

    T canonic

      S accept
      S accept-charset
      S accept-encoding
      S accept-language
      S accept-ranges
      S action
      S age
      S allow
      S alternate-recipient
      S arrival-date
      S authorization
      S bcc
      S cache-control
      S cc
      S comments
      S connection
      S content-description
      S content-disposition
      S content-encoding
      S content-id
      S content-language
      S content-length

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

S reporting-mta	
S resent-bcc	
S resent-cc	
S resent-date	
S resent-from	
S resent-message-id	
S resent-reply-to	
S resent-sender	
S resent-to	
S retry-after	
S return-path	
S sender	
S server	
S smtp-remote-recipient	
S status	
S subject	
S te	
S to	
S trailer	
S transfer-encoding	
S upgrade	
S user-agent	
S vary	
S via	
S warning	
S will-retry-until	
S www-authenticate	
S x-mailer	
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   **setexitcode**   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	autodepth
F	cct
D	collected
F	current
F	currentblock
F	currentid
F	currentlevel
F	currentsectionindex
F	depthnumber
F	finddata
F	findnumber
F	fullnumber
F	getcurrentlevel
F	getlevel
F	getnumber
F	internalreference
D	levelmap
D	levels
F	matchingtilldepth
F	numberatdepth
F	numbers
F	popblock
F	prefixedconverted
F	pushblock
F	register
D	registered
F	reportstructure
F	save

Left column continued:

F	special
F	special operation
F	special operation with arguments
T	testspecials
F	deltapage
F	i
F	internal
F	page
F	realpage
F	section
F	userpage
D	tobereferred
D	tobesaved
D	tracedpages
T	urls
T	data
F	define
F	found
F	get
F	untex
D	usedinternals
D	usedviews
F	valid

registers   table

F	analyze
D	collected
F	compare
F	define
F	enhance

T	sectionblockdata		
T	bodypart		
S	bookmark		
F	set		
F	setblock		
F	setchecker		
F	setentry		
F	setinitialblock		
F	setlevel		
F	setnumber		
F	showstructure		
F	structuredata		
F	title		
D	tobesaved		
F	typesetnumber		
F	userdata		
B	verbose		
sets			**table**
F	define		
F	get		
F	getall		
D	setlist		
specials			**table**
D	collected		
F	retrieve		
F	store		
D	tobesaved		
synonyms			**table**
F	analyzed		
D	collected		
F	compare		
F	define		
F	filter		
F	finalize		
F	flush		
F	isshown		
F	isused		
F	meaning		
F	prepare		
F	process		
F	register		
F	registershown		
F	registerused		
F	resetshown		

F	resetused		
F	sort		
F	synonym		
D	tobesaved		
tags			**table**
F	current		
F	elementtag		
F	finishexport		
F	getextradata		
F	getid		
F	getmetadata		
F	handler		
F	initializeexport		
D	labels		
F	last		
F	lastinchain		
F	locatedtag		
T	patterns		
U	splitter		
D	properties		
F	registerextradata		
F	registermetadata		
F	restart		
F	setaspect		
F	setattributehash		
F	setcombination		
F	setconstruct		
F	setfigure		
F	setfloat		
F	setformulacontent		
F	sethighlight		
F	setitem		
F	setitemgroup		
F	setlist		
F	setnotation		
F	setnotationsymbol		
F	setproperty		
F	setpublication		
F	setregister		
F	setsorting		
F	setsynonym		
F	settablecell		
F	settabulatecell		
F	settagdelimitedsymbol		

F settagsubsentencesymbol

F setupexport

F setuserproperties

D specifications

F start

F stop

F strip

D taglist

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	**getdimen**	function
badness	function	**getglue**	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
finish	function	**iscount**	overloaded function
fontidentifier	function	**isdefined**	function
fontname	function	**isdimen**	overloaded function
force_synctex_line	function	**isglue**	function
force_synctex_tag	function	**ismuglue**	function
forcehmode	function	**ismuskip**	overloaded function
fprint	function	**isskip**	overloaded function
get	function	**istoken**	function
get_synctex_line	function	**istoks**	function
get_synctex_mode	function	**lccode**	table
get_synctex_tag	function	**linebreak**	function
getattribute	function	**lists**	table
getbox	function	**luacatcodes**	number
getboxresourcebox	function	**magicconstants**	table
getboxresourcedimensions	function	N maxdimen	
getcatcode	function	N running	
getcount	function	N trueinch	
getdelcode	function	**mathcode**	table
getdelcodes	function	**modes**	data table

muglue	table	**setmathcode**	function
muskip	table	**setmathdir**	function
nest	table	**setmuglue**	function
nilcatcodes	number	**setmuskip**	function
notcatcodes	number	**setnest**	function
number	function	**setpardir**	function
primitives	function	**setsfcode**	function
print	function	**setskip**	function
prtcatcodes	number	**settextdir**	function
resetparagraph	function	**settoks**	function
romannumeral	function	**setuccode**	function
round	function	**sfcode**	table
run	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

texconfig (basic tex)

error_line	number		**max_print_line**	number
expand_depth	number		**max_strings**	number
formatname	string		**nest_size**	number
half_error_line	number		**param_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
B real
F scanclose
F scanopen
F skip
F string
F table
F token
F tokens
F toks
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	
N close	

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

U	stopxtitle	T	setters
U	texsetup	F	box
T	collectors	F	char
F	defaultwords	F	count
F	dowithwords	F	dimen
F	flush	F	glue
F	install	F	lua
F	register	F	macro
F	show	F	skip
F	test	T	shortcuts
D	commands	N	close
F	compile	F	inspect
F	constant	N	open
T	converters	F	report
S	toboolean	F	scanboolean
S	todimen	F	scanclose
S	toglue	F	scancode
S	tonumber	F	scanconditional
S	tostring	F	scancsname
F	create	F	scandimen
F	defined	F	scandimension
U	egroup	F	scaninteger
T	getters	F	scankeyword
F	box	F	scankeywordcs
F	count	F	scanlist
F	dimen	F	scannumber
F	glue	F	scanopen
F	macro	F	scanstring
F	meaning	F	scantable
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	other	F	tostring
F	pickup	**vbox**	userdata
T	presets	**vtop**	userdata
F	printlist		

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 readcardinal2
     F readcardinal2le
     F readcardinal3
     F readcardinal3le
     F readcardinal4
     F readcardinal4le
     F readcardinaltable
     F readchar
     F readfixed2
     F readfixed4
     F readinteger
     F readinteger1
     F readinteger2
     F readinteger2le
     F readinteger3
     F readinteger3le
     F readinteger4
     F readinteger4le
     F readintegertable
     F readsignedbyte
     F readstring
     F readtag
     F setposition

     F size
     F skip
     F skiplong
     F skipposition
     F skipshort
     F writebyte
     F writecardinal2
     F writecardinal4
     F writestring

formatters   table
     F formatcolumns
     F list
     F stripzeros

garbagecollector table
     F check
     N criterium
     B enabled

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

packers   table

F replaceaction			F readinteger		
F setkind			F readinteger1		
F tostring			F readinteger2		
setters	table		F readinteger2le		
F disable			F readinteger3		
F enable			F readinteger3le		
F initialize			F readinteger4		
F list			F readinteger4le		
F new			F readintegertable		
F register			F readsignedbyte		
F report			F readstring		
F reset			F setposition		
F show			F size		
stacker	table		F skip		
F new			F skipbytes		
storage	table		F skiplong		
F allocate			F skipshort		
F checked			**strings**	table	
F mark			F collapse		
F marked			F collapsecrlf		
F setinitializer			T formatters		
F sparse			F add		
streams	table		F new		
F close			F newcollector		
F getposition			F newrepeater		
F look			F nice		
F open			T striplinepatterns		
F openstring			U collapse		
F read2dot14			U prune		
F read2dot4			U prune and collapse		
F readbyte			U prune and no empty		
F readbytes			U prune and to space		
F readbytetable			U retain		
F readcardinal			U retain and collapse		
F readcardinal1			U retain and no empty		
F readcardinal2			F striplines		
F readcardinal2LE			F striplong		
F readcardinal3			F tabtospace		
F readcardinal3le			T tracers		
F readcardinal4			**tables**	table	
F readcardinaltable			F accesstable		
F readchar			F definedtable		
F readfixed2			F definetable		
F readfixed4			F encapsulate		

F insertaftervalue

F insertbeforevalue

F migratetable

F removevalue

F replacevalue

templates table

F load

F replace

F replacer

F resolve

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		

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 upper		
fillin	function	
filter	function	
finalizers	table	
F paragraphs		
T tex		
F all		
F attribute		
F chainattribute		
F chainpath		
F command		
F concat		
F concatrange		
F context		
F count		
F ctxtext		
F default		
F first		
F function		
F index		
F last		
F lettered		
F lower		
F lowerall		
F match		
F name		
F param		
F parameter		
F position		
F reverse		
F stripped		
F tag		
F tags		
F text		
F upper		
F upperall		
F xml		
T xml		
F all		
F att		
F attribute		
F attributes		
F cdata		

F chainattribute		
F count		
F default		
F elements		
F empty		
F first		
F function		
F index		
F last		
F lowerall		
F match		
F name		
F position		
F reverse		
F table		
F tag		
F tags		
F text		
F texts		
F upperall		
first	function	
found	function	
functions	table	
F classes		
F hasclass		
getbuffer	function	
gethandlers	function	
gethandlersfunction	function	
helpers	table	
F recursetext		
include	function	
inclusion	function	
inclusions	function	
index	function	
inheritedconvert	function	
inject	function	
~~inject_element~~	~~function~~	
~~inject_element_after~~	~~function~~	
~~inject_element_before~~	~~function~~	
injectafter	function	
injectbefore	function	
insert	function	
insert_element	function	
~~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	**reparsedentitypeg**	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
parsedentitypeg	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
close	function	**openfile**	function
closearchive	function	**registeredfiles**	table
open	overloaded function	**type**	function

zlib (extra lua)

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