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 ltn12 lua luatex lxml math mathematics
md5 metapost mime moduledata modules mp mplib
noads node nodes number objects os package
pagebuilders parametersets pdf pdfe pdfscanner
physics publications regimes resolvers sandbox
scripts set sha2 sio socket sorters statistics
status storage streams string structures table
tex texconditionals texconfig texconstants
texifs texio texisdefined texmodes
texsystemmodes thirddata token tokens tracers
trackers typesetters updaters url userdata
utf8 utilities vf visualizers xml zip zlib

ConTeXt MkIV

global (alias: _G)

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

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

utf8	table	**xml**	table
utilities	table	**xpcall**	function
v	string	**zip**	table
vf	table	**zlib**	table
visualizers	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 defineprocesscolordirect

    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

    T helpers

     F complement

     F inbetween

     F justone

    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		F forcesupport
define	function		F handler
effects	table		T names
N attribute			N color
D data			N colorburn
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 resolve_reset

F resolve_step

D scopes

F setfeatures

F start

F stop

B supported

D values

backends (context)

codeinjections table
- F boxresourcedimensions
- F registerboxresource
- F restoreboxresource

current string

defaults table
- T codeinjections
  - F getpagedimensions
  - F getpageorigin
  - F lmtxmode
  - F setpagedimensions
  - F setpageorigin
- T nodeinjections
- T registrations
- D tables

included table
- B context
- B date
- B id
- B metadata
- B pdf

install function

nodeinjections table

noflatelua function

nothing function

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

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

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

registrations	table
tables	table
timestamp	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 hyphenating
   F hyphenation
   F kerning
   F ligaturing
   F mlist_to_hlist
paragraphs   table
   T constructors
    N attribute
    F define
    F disable
    F enable
    F handler
    T methods
     F basic
     F default
     F hpack
     F oneline
    D names
    D numbers
    F set
    F start
    F stop
   T expansion
    F trace
   F keeptogether
   F registertogether
   T solutions
    T splitters
     F define
     F optimize
     T registered
     F reset
     F set
     F split

    F start
    F stop
   F tag
profiling   table
   F add
   F distance
   F fixedprofile
   F get
   F list
   F pagehandler
   F profilebox
   F set
vspacing   table
   F analyze
   D categories
   F collapsevbox
   T data
    D map
    D skip
    D snapmethods
   F definesnapmethod
   B fixed
   F forcepageflush
   F forcestrutdepth
   F getnofpreviouslines
   F pagehandler
   F pageoverflow
   F popatsame
   F pushatsame
   F setmap
   F setskip
   F snapbox
   F synchronizepage
   F tocategories
   F tocategory
   F vboxhandler

caches (context)

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

callback (basic tex)

find   function   **register** overloaded function

list   function

callbacks (context)

freeze	function	B	hpack_quality
functions	table	B	hyphenate
F process_rule		B	insert_local_par
F start_page_number		B	kerning
F stop_page_number		B	ligaturing
known	function	B	linebreak_filter
list	data table	B	make_extensible
pop	function	B	mlist_to_hlist
push	function	B	new_graf
register	function	B	open_read_file
report	function	B	page_objnum_provider
supported	table	B	post_linebreak_filter
B append_to_vlist_filter		B	pre_dump
B build_page_insert		B	pre_linebreak_filter
B buildpage_filter		B	pre_output_filter
B call_edit		B	process_input_buffer
B contribute_filter		B	process_jobname
B define_font		B	process_output_buffer
B find_cidmap_file		B	process_pdf_image_content
B find_data_file		B	process_rule
B find_enc_file		B	read_cidmap_file
B find_font_file		B	read_data_file
B find_format_file		B	read_enc_file
B find_image_file		B	read_font_file
B find_map_file		B	read_map_file
B find_opentype_file		B	read_opentype_file
B find_output_file		B	read_pk_file
B find_pk_file		B	read_truetype_file
B find_read_file		B	read_type1_file
B find_truetype_file		B	read_vf_file
B find_type1_file		B	show_error_hook
B find_vf_file		B	show_error_message
B find_write_file		B	show_lua_error_hook
B finish_pdffile		B	show_warning_message
B finish_pdfpage		B	start_file
B finish_synctex		B	start_page_number
B font_descriptor_objnum_provider		B	start_run
B glyph_info		B	stop_file
B glyph_not_found		B	stop_page_number
B glyph_stream_provider		B	stop_run
B hpack_filter		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	**i**	function
Alphabetic:ru	function	**isleapyear**	function
Alphabetic:sl	function	**lchexnumber**	function
Character	function	**lchexnumbers**	function
Characters	function	**leapyear**	function
I	function	**lower**	function
KA	function	**max**	function
KR	function	**maxchrs**	function
R	function	**nicenumber**	function
RK	function	**nofdays**	function
Romannumerals	function	**number**	function
Russiannumerals	function	**numbers**	function
Sloveniannumerals	function	**octnumber**	function
Spanishnumerals	function	**octstringtonumber**	function
Word	function	**ordinal**	function
Words	function	**r**	function
a	function	**rawcharacter**	function
a:es	function	**romannumerals**	function
a:ru	function	**russiannumerals**	function
a:sl	function	**sequences**	data table
abjadnodotnumerals	function	**settime**	function
abjadnumerals	function	**sloveniannumerals**	function
alphabetic	function	**spaceddigits**	function
alphabetic:es	function	**spanishnumerals**	function
alphabetic:ru	function	**textime**	function
alphabetic:sl	function	**toabjad**	function
character	function	**tochinese**	function
characters	function	**toroman**	function
chineseallnumerals	function	**totime**	function
chinesecapnumerals	function	**uchexnumber**	function
chinesenumerals	function	**uchexnumbers**	function
chr	function	**upper**	function
chrs	function	**verbose**	table
cn	function	D data	
cn-a	function	F translate	

| **weekday** | function | **words** | function |
| **word** | 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

  D environments

  D modes

  D modules

T ctxfile

  D environments

setfilename	function
setfilenames	function
setmodes	function
setmodules	function
variables	data table

documentdata (context)

variable function

drivers (context)

convert   function
converters   table
  F engine
enable   function
helpers   table
  F tomatrix
install   function
instances   table
  T default
   T actions
    F convert
    F outputfilename
   T flushers
   S name
  T empty
   T actions
    F convert

    F prepare
   T flushers
   S name
  T none
   T actions
   T flushers
   S name
  T pdf
   T actions
    F convert
    F outputfilename
    F prepare
   T flushers
   S name
lmtxversion   number
outputfilename   function
report   function

environment (context)

argument	function	**loadluafile**	function
arguments	data table	**luafile**	function
basicengines	data table	**luafilechunk**	function
currentrun	number	**luatexengine**	string
default_texmfcnf	string	**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

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

| **setpaths** | function | **used** | data table |
| **suffixes** | data table | | |

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)

checkpermission	function	**readfixed4**	function
getposition	function	**readinteger1**	function
read2dot14	function	**readinteger2**	function
readbytes	function	**readinteger3**	function
readbytetable	function	**readinteger4**	function
readcardinal1	function	**readintegertable**	function
readcardinal2	function	**readline**	function
readcardinal3	function	**recordfilename**	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		**id**	function
current	function		**max**	function
define	function		**nextid**	function
each	overloaded function		**originaleach**	function
fonts	table		**read_tfm**	function
frozen	function		**read_vf**	function
getfont	overloaded function		**setexpansion**	function
getparameters	function		**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 mpscache
 D pdfcache
 F plugininitializer
 F pluginprocessor
 T plugins
 T png
  F topdf

```
D pngcache                               F multiple
B pngenabled                             F reversechainedcontextsingle
T readers                                F single
  F addunicodetable                    F gvar
  F avar                               F head
  F cbdt                               T helpers
  F cblc                                 F axistofactors
  F cff                                  F cleanname
  F cff2                                 F 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 combine                                S width
  T combiner                               S units
    D commands                             S vfactor
  D helpers                                S width
  D math                                   S xheight
  D predefined                           T properties
  N version                                S autoitalicamount
  D whatever                               S cidinfo
F hashfeatures                             T effect
F hashinstance                               S ddelta
T hashmethods                                S effect
  F normal                                   S factor
  F virtual                                  S hdelta
F initializefeatures                         S hfactor
T keys                                       S vfactor
  T characters                               S wdelta
  T descriptions                             S width
  T parameters                             S embedding
    S ascender                             S encodingbytes
    S descender                            S filename
    S designsize                           S finalized
    T expansion                            S fontname
      S auto                               S format
      S shrink                             S fullname
      S step                               S hasitalics
      S stretch                            S hasmath
    S extendfactor                         S mathitalics
    S factor                               S mode
    S hfactor                              S name
    S mathsize                             S nostackmath
    S mode                                 S psname
    T protrusion                           S textitalics
      S auto                               S virtualized
    S quad                               D loadedfonts
    S scaledpoints                       S namemode
    S scriptpercentage                   N noffontsloaded
    S scriptscriptpercentage             N nofsharedfonts
    S size                               N nofsharedhashes
    S slantfactor                        N nofsharedvectors
    S slantperpoint                      N privateoffset
    T spacing                            D privateslots
      S extra                            F readanddefine
      S shrink                           F registerfeature
      S stretch                          F resetfeature
```

B resolvevirtualtoo			D synonyms	
F scale			D unicodes	
F scaled			D cache	
F setfactor			F is_known	
F setfeature			D known	
F setmathparameter			F load	
F setname			F make_unicode_vector	
B sharefonts			D math	
F trytosharefont			N version	
N version			**enhanceid**	function
current	function		**expansions**	data table
currentid	function		**formats**	data table
definers	table		**getalternate**	function
F addlookup			**getindices**	function
F analyze			**getkern**	function
F applypostprocessors			**getmultiple**	function
F checkedmode			**getsubstitution**	function
F checkedscript			**getters**	table
F current			T alternate	
S defaultlookup			F opentype	
F define			T kern	
F getspecification			F opentype	
F internal			F type1	
F loadfont			F type3	
F makespecification			T multiple	
T methods			F opentype	
F install			T substitution	
D variants			F opentype	
F read			**goodies**	table
F register			D colorschemes	
F registered			T data	
F registersplit			T dejavu-math	
F resetnullfont			S author	
F resolve			S comment	
T resolvers			S copyright	
F file			B initialized	
F name			T mathematics	
F spec			T alternates	
definetypeface	function		T dotless	
encodings	table		S comment	
T agl			S feature	
D ctxcodes			N value	
D extras			T kerns	
D names			S name	

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

D	quads	**iterators**	table
D	resources	F	characters
T	setdynamics	F	descriptions
T	shapes	F	glyphs

    D spaces   **loggers**   table

D	spacings	F	add_placeholders
T	streams	D	category_to_placeholder
D	unicodes	F	format
D	variants	F	onetimemessage
D	xheights	F	register

helpers   table
             F reportdefinedfonts

    F addextraprivate   F reportusedfeatures

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	
N textextrabase			F typescript	
protrusions	data table		F userdata	
readers	table		**specifiers**	table
F afm			D contextmerged	
F check_lua			F contextnumber	
F check_tfm			D contextnumbers	
F lua			D contextsetups	
F ofm			F contexttostring	
F opentype			F definecontext	
F otf			F mergecontext	
F pfb			F presetcontext	
D sequence			F registercontext	

F showcontext	F savefont
F splitcontext	F saveoriginal
D synonyms	**tracers** table
D variants	**treatments** table
symbols table	F applyfixes
T emoji	D data
F checked	S filename
F resolved	F ignoredfile
F uselibrary	F report
tables table	F trace
D data	**typefaces** table

functions (context)

dummy function

graphics (context)

backgrounds table
    F fetchmultipar
    F pair
    F path
    F point
identifiers table

    F bitmap
    F jp2
    F jpg
    F png
identify   function

gzip (extra lua)

close function   **open**   function

lines function   **save**   function

load   function   **suffix** function

images (context)

check	function		B none
checksize	function		B trim
copy	function	**totable**	function
create	function	**types**	table
embed	function		N jbig2
keys	table		N jp2
print	function		N jpg
scan	function		N memstream
serialize	function		N none
sizes	table		N pdf
	B art		N png
	B bleed		N stream
	B crop	**wrap**	function
	B media		

img (basic tex)

new overloaded function

interactions (context)

attachments data table
fields   table
    F clone
    F define
    F defineset
    F insert
general   table
    F getidentity
    F setupidentity
help   table
    F collect
    F reference
    F register
javascripts table
    F addtopreamble
    F code
    D codes
    F flushpreambles

    D functions
    D preambles
    F setpreamble
    F storecode
    F storepreamble
    F usepreamblenow
    F usescripts
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

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	**saved_lines**	function
input	overloaded function	**savedata**	function
lines	overloaded function	**size**	function
loadchunk	function	**stderr**	userdata
loaddata	function	**stdin**	userdata
loadlines	function	**stdout**	userdata
newreader	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 getrpos	
F extend			F gettobesaved	
F realpage			F getvpos	
F realpageorder			F hangafter	
F setstate			F hangindent	

F	height	S	used
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	D	collected
F	paragraph	T	components
F	parindent	T	tobesaved
F	position	T	branches
F	r	S	name
F	region	S	type
F	registerhandlers	**variables**	table
F	replace	D	checksums
F	rightskip	D	collected
F	set	F	getchecksum
F	setall	F	makechecksum
F	setregionbox	F	restore
F	setspec	F	save
F	settobesaved	F	setchecksum
D	tobesaved	D	tobesaved
F	upperleft	**version**	number
F	upperright		

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
hyphenate	function	**preexhyphenchar**	function
hyphenation	function	**prehyphenchar**	function
hyphenationmin	function	**sethjcode**	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 isleftpage

F leftorrightpageaction

lfs (extra lua)

attributes	overloaded function	**mkdir**	overloaded function
chdir	overloaded function	**mkdirs**	function
currentdir	function	**readlink**	overloaded function
dir	overloaded function	**rmdir**	overloaded function
isdir	overloaded function	**setmode**	overloaded function
isfile	overloaded function	**shortname**	overloaded function
isfound	function	**symlinkattributes**	overloaded function
link	overloaded function	**touch**	overloaded function
lock	function	**unlock**	function
lock_dir	overloaded 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

    F td

    F th

include	function		**stripcss**	function
inherited	table		**tv**	function

    S color-background-four

    S color-background-one

    S color-background-three

    S color-background-two

    S title

initialize	function
inject	function
lmxfile	function

type function
urlescape function
variable function
variables table

    S color-background-blue

    S color-background-body

    S color-background-green

    S color-background-main

    S color-background-purple

    S color-background-yellow

    S title-default

logs (context)

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	**destinationspecification**	function
adddocumentcolorspace	function	**dictionary**	function
adddocumentextgstate	function	**docstring**	function
adddocumentpattern	function	**epdf**	table
adddocumentshade	function	F analyzefonts	
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
copyarray	function	**finalizepage**	function
copyboolean	function	**finishtransparencycode**	function
copyconstant	function	**flags**	table
copydictionary	function	T annotations	
copyfloat	function	N AutoView	
copyinteger	function	N Hidden	
copynumber	function	N Invisible	
copystring	function	N Locked	
copyunicode	function	N LockedContents	
delayedobject	function	N NoRotate	

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

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

ltn12 (extra lua)

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

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

lua (basic tex)

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

luatex (context)

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

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**	overloaded function
decrypt	function		**sumhexa**	overloaded function
exor	function			

metapost (context)

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

runscript	function	**svgtomp**	function
scripterror	function	**svgtopdf**	function
scriptindex	function	**sxsy**	function
setextensions	function	**tex**	table
setoutercolor	function	F get	
settext	function	F reset	
setvariable	function	F set	
showlog	boolean	F setfrombuffer	
showsvgpage	function	**texerrors**	boolean
simple	function	**texexp**	function
splitprescript	function	**theclippath**	function
startgraphic	function	**tographic**	function
stopgraphic	function	**totable**	function
svformat	function	**unload**	function
svgglyphtomp	function	**untagvariable**	function
svgshapestomp	function	**variables**	table
svgshapestopdf	function		

mime (extra lua)

b64	function
decode	overloaded function
decodet	overloaded table
F base64	
F quoted-printable	
dot	function
encode	overloaded function
encodet	overloaded table
F base64	
F quoted-printable	
eol	function
normalize	overloaded function
qp	function

qpwrp	function
report	function
stuff	overloaded function
unb64	function
unqp	function
wrap	overloaded function
wrapt	overloaded table
F base64	
F default	
F quoted-printable	
F text	
wrp	function

mp (context)

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

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

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

transform	function	**utflen**	function
triplet	function	**utfsub**	function
tripletpoints	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_list
F flush_node
F flush_properties_table
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 getdir
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 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_zero_glue
F kerning
F last_node
F length
F ligaturing
F new
F prepend_prevdepth
F protect_glyph
F protect_glyphs
F protrusion_skippable
F rangedimensions

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

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

nodes (context)

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

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

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 getdir
F append			F getdirection
F apply			F getdisc
F applyvisuals			F getdiscretionary
F check_discretionaries			F getexpansion
F concat			F getfam
F copy			F getfield
F copy_list			F getfont
F copy_no_components			F getglue
F copy_node			F getglyphdata
F copy_only			F getheight
F copy_only_glyphs			F getid
F copy_properties			F getkern
F copyvisual			F getlang
F count			F getlanguage
F countall			F getleader
F current_attr			F getlist
F delete			F getnext
F dimensions			F getnucleus
F effective_glue			F getoffsets
F end_of_math			F getorientation
F find_attribute			F getpenalty
F first_glyph			F getpost
F firstcharacter			F getpre
F firstcharinbox			F getprev
F firstglyph			F getprop
F flatten_discretionaries			F getreplace
F flush			F getruledata

F getshift
F getsub
F getsubtype
F getsup
F getsurround
F getvalue
F getwhd
F getwidth
F has_attribute
F has_dimensions
F has_field
F has_glyph
F hpack
F hyphenating
F insert_after
F insert_before
F insert_list_after
F is_direct
F is_display_math
F is_node
F is_nut
F is_zero_glue
F ischar
F isdone
F isglyph
F kerning
F last_node
F leftmarginwidth
F length
F ligaturing
F link
F linked
F locate
F mlist_to_hlist
F nestedtracedslide
F new
T pool
  F accent
  F baselineskip
  F boundary
  F choice
  F cleanup
  F delim
  F delimiter

F direction
F directliteral
F disc
F emptyrule
F fence
F fontkern
F fraction
F glue
F glyph
F hlist
F italickern
F kern
F latelua
F leader
F leftmarginkern
F leftskip
F lineskip
F literal
F mathchar
F mathtextchar
F negatedglue
F noad
F originliteral
F outlinerule
F pageliteral
F penalty
F radical
F rawliteral
F register
F restore
F rightmarginkern
F rightskip
F rule
F save
F savepos
F setmatrix
F shrink
F stretch
F subbox
F submlist
F temp
F textdir
F usage
T userids

```
  N margins.inline                          F setdirection
  N splitters.one                           F setdisc
  N splitters.two                           F setdiscretionary
F usernode                                  F setexpansion
F userrule                                  F setfam
F vlist                                     F setfield
F wordboundary                              F setfont
F prepend                                   F setglue
F processranges                             F setglyphdata
F processwords                              F setheight
F protect_glyph                             F setkern
F protect_glyphs                            F setlang
F protrusion_skippable                      F setlanguage
F rangedimensions                           F setleader
F rawprop                                   F setlink
F reference                                 F setlist
F rehpack                                   F setnext
F remove                                    F setnucleus
F repackhlist                               F setoffsets
F replace                                   F setorientation
F rightmarginwidth                          F setparproperty
T rules                                     F setpenalty
  T ruleactions                             F setpost
    F box                                   F setpre
    F draw                                  F setprev
    F fill                                  F setprop
    F mp                                    F setreplace
    F stroke                                F setruledata
  F userrule                                F setshift
F set_attribute                             F setsplit
F set_synctex_fields                        F setsub
F setattr                                   F setsubtype
F setattribute                              F setsup
F setattributelist                          F setsurround
F setattributes                             F setunsetattributes
F setattrlist                               F setvalue
F setboth                                   F setvisual
F setbox                                    F setvisuals
F setboxglue                                F setwhd
F setchar                                   F setwidth
F setcomponents                             F slide
F setdata                                   F somepenalty
F setdepth                                  F somespace
F setdir                                    F splitbox
```

F striprange	F uses_font	
F tail	F vianodes	
F takeattr	F vianuts	
F takebox	F vpack	
F takelist	F write	
F theprop	**packlist**	function
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 save	
F tovbox	F savepos	
F tovpack	F setmatrix	
F unprotect_glyph	F special	
F unprotect_glyphs	F usage	
F unset_attribute	F vlist	
F unsetattribute	**prepend**	function
F unsetattributes	**print**	function
F untracedslide	**processors**	table
F use_components	F contribute_filter	
F usedlist	B enabled	

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

F freezegroup		T nodes	
F new		F rule	
F prependaction		T nuts	
F removeaction		F rule	
F replaceaction		F resetproperties	
F restart		F rule	
F setaction		F setlist	
F showactions		F setproperties	
F table		F start	
tobasepoints	function	T steppers	
tocentimeters	function	F check	
tociceros	function	F codes	
todidots	function	F features	
todimen	function	F font	
toinches	function	F glyphs	
tomillimeters	function	F message	
tonewciceros	function	F messages	
tonewdidots	function	F nofsteps	
tonode	function	F register	
tonodes	function	F reset	
tonut	function	F start	
topicas	function	F stop	
topoints	function	F stop	
toscaledpoints	function	T transparencies	
tosequence	function	F reset	
tostring	function	F set	
totable	function	F setlist	
totree	function	**traverse**	function
toutf	function	**traverse_char**	function
tracers	table	**traverse_glyph**	function
T characters		**traverse_id**	function
F collect		**traverse_list**	function
F equal		**traversers**	table
F start		F char	
F string		F glyph	
F unicodes		F list	
T colors		F node	
F reset		**typesetters**	table
F set		F hbox	
F setlist		F hpack	
F fontchar		F tohbox	
T frequencies		F tohpack	
F register		F tonodes	
T pool		F tovbox	

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

number (context)

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

objects (context)

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

os (basic lua)

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

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)

immediateobj function

pdfe (extra tex)

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

publications (context)

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

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

F save

lastofrange function

lists table

  F collectentries

  F combiinlist

  F fetchentries

  F filterall

  F flushcombi

  F flushentry

  F flushtag

  T methods

    F dataset

    F force

    F global

    F local

  F nofregistered

  F prepareentries

  F register

  F sameasprevious

  T sorters

    F cite

    F dataset

    F default

    F index

    F list

    F reference

    F short

    F used

  F uservariable

listvariants table

  F default

  F index

  F num

  F short

  F tag

load function

loadbibdata function

loaddefinitionfile function

loaders table

  F bbl

  F bib

  F buffer

  F endnote

  F json

F lua

F refman

F registercleaner

F xml

loadreplacementfile function

new function

okay function

oneorrange function

parenttag function

permitted function

prerollcmdstring function

refman_to_btx function

resolvedname function

save function

savers table

  F bib

  F lua

  F xml

search function

setcategory function

setspecification function

singularorplural function

sortedentries function

sortmethods table

  T authoryear

  T sequence

specifications table

  T default

    S author

    S comment

    S copyright

    S name

    S version

    D virtual

splitauthor function

splitoneauthor function

statistics table

  N nofbytes

  N nofdatasets

  N nofdefinitions

  N nofshortcuts

tables table

  D implicits

  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 processmklx		**setenv**	function
F processmkvi		**setmemstream**	function
F version		**showpath**	function
maxreadlevel	number	**simplescanfiles**	function
methodhandler	function	**splitconfigurationpath**	function
openbinfile	function	**splitexpansions**	function
openers	data table	**splitmethod**	function
openfile	function	**splitpath**	function
opentexfile	function	**stackpath**	function
ownpath	string	**starttiming**	function
popextrapath	function	**stoptiming**	function
poppath	function	**suffixes**	data table
prefixes	data table	**suffixmap**	data table
prependhash	function	**suffixofformat**	function
pushextrapath	function	**texdatablob**	function
pushpath	function	**toppath**	function
registerextrapath	function	**unexpandedpath**	function
registerfile	function	**unexpandedpathlist**	function
registerfilehash	function	**unresolve**	function
registerintrees	function	**updaterelations**	function
registermethod	function	**updatescript**	function
registerzipfile	function	**uselibrary**	function
relations	data table	**usertypes**	data table
renew	function	**usezipfile**	function
renewcache	function	**validatedpath**	function
repath	function	**variable**	function
reset	function	**variableofformat**	function
resetextrapaths	function	**variableofformatorsuffix**	function
resetmemstream	function	**wildcardpattern**	function
resetresolve	function		

sandbox (context)

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

scripts (context)

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

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

set (context)

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

sha2 (context)

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

sio (context)

read2dot14	function	**readfixed2**	function
readbytes	function	**readfixed4**	function
readbytetable	function	**readinteger1**	function
readcardinal1	function	**readinteger2**	function
readcardinal2	function	**readinteger3**	function
readcardinal3	function	**readinteger4**	function
readcardinal4	function	**readintegertable**	function
readcardinaltable	function		

socket (extra lua)

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

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

F parse_path

F unescape

sorters (context)

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)

benchmarktimer	function	**memused**	function
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

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		**packsize**	function
autosingle	function		**quote**	function
booleanstring	function		**quoted**	function
byte	function		**rep**	function
bytepairs	function		**replacenewlines**	function
bytes	function		**reverse**	function
bytetable	function		**split**	function
char	function		**splitlines**	function
characterpairs	function		**splitup**	function
characters	function		**strip**	function
checkedsplit	function		**sub**	function
collapsespaces	function		**tformat**	function
containsws	function		**toHEX**	function
count	function		**toboolean**	function
dump	function		**tobytes**	function
escapedpattern	function		**tocontext**	function
escapedquotes	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

structures (context)

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

F touserdata		F reordered	
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	listindex	T	files
T	numbers	T	data
F	ordered	F	define
F	postpone	F	found
F	resetpostponed	F	get
F	restore	F	filter
F	save	F	filterdefault
F	setstate	D	filters
D	states	D	flaginternals
F	store	F	from
pages	**table**	D	functions
F	allmarked	F	get
F	analyze	F	getcurrentmetadata
D	collected	F	getcurrentprefixspec
F	fraction	F	getinnermethod
F	in_body	F	getinternalcachedlistreference
F	is_odd	F	getinternallistreference
F	mark	F	getinternalreference
F	marked	F	getoutermethod
N	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
D	executers	F	referredpage
F	enhance	F	registerfinalizer
D	expandcurrent	F	registerinitializer
F	export	F	registerpage

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

sections   table

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

registers   table

F analyze	F pushblock
D collected	F register
F compare	D registered

F	reportstructure		F	registerused
F	save		F	resetshown
T	sectionblockdata		F	resetused
T	bodypart		F	sort
S	bookmark		F	synonym
F	set		D	tobesaved
F	setblock		**tags**	**table**
F	setchecker		F	current
F	setentry		F	elementtag
F	setinitialblock		F	finishexport
F	setlevel		F	getextradata
F	setnumber		F	getid
F	showstructure		F	getmetadata
F	structuredata		F	handler
F	title		F	initializeexport
D	tobesaved		D	labels
F	typesetnumber		F	last
F	userdata		F	lastinchain
B	verbose		F	locatedtag
sets	**table**		T	patterns
F	define		U	splitter
F	get		D	properties
F	getall		F	registerextradata
D	setlist		F	registermetadata
specials	**table**		F	restart
D	collected		F	setaspect
F	retrieve		F	setattributehash
F	store		F	setcombination
D	tobesaved		F	setconstruct
synonyms	**table**		F	setfigure
F	analyzed		F	setfloat
D	collected		F	setformulacontent
F	compare		F	sethighlight
F	define		F	setitem
F	filter		F	setitemgroup
F	finalize		F	setlist
F	flush		F	setnotation
F	isshown		F	setnotationsymbol
F	isused		F	setparagraph
F	meaning		F	setproperty
F	prepare		F	setpublication
F	process		F	setregister
F	register		F	setsorting
F	registershown		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	**getglyphdata**	function
boxresources	table	**getlccode**	function
F getbox		**getlist**	function
F getdimensions		**getlocallevel**	function
F save		**getmath**	function
F use		**getmathcode**	function
catcode	table	**getmathcodes**	function
conditionals	data table	**getmodevalues**	function
constants	data table	**getmuglue**	function
count	table	**getmuskip**	function
cprint	function	**getnest**	function
ctdcatcodes	number	**getpagestate**	function
ctxcatcodes	number	**getsfcode**	function
definefont	function	**getskip**	function
delcode	table	**gettoks**	function
dimen	table	**getuccode**	function
directives	data table	**glue**	table
enableprimitives	function	**hashtokens**	function
error	function	**ifs**	data table
extraprimitives	function	**inicatcodes**	number
finish	function	**init_rand**	function
fontidentifier	function	**isattribute**	function
fontname	function	**isbox**	function
force_synctex_line	function	**iscount**	overloaded function
force_synctex_tag	function	**isdefined**	function
forcehmode	function	**isdimen**	overloaded function
fprint	function	**isglue**	function
get	function	**ismuglue**	function
get_synctex_line	function	**ismuskip**	overloaded function
get_synctex_mode	function	**isskip**	overloaded function
get_synctex_tag	function	**istoken**	function
getattribute	function	**istoks**	function
getbox	function	**lccode**	table
getboxresourcebox	function	**linebreak**	function
getboxresourcedimensions	function	**lists**	table
getcatcode	function	**lua_math_random**	function
getcount	function	**lua_math_randomseed**	function
getdelcode	function	**luacatcodes**	number
getdelcodes	function	**magicconstants**	table

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

texconfig (basic tex)

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

texio (basic tex)

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

token (basic tex)

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

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		F	keyword
defined	function		F	keywordcs
egroup	userdata		F	list
getters	table		F	lxmlid
F	box		F	number
F	count		F	real
F	dimen		F	scanclose
F	glue		F	scanopen
F	macro		F	string
F	meaning		F	table
F	skip		F	token
F	token		F	tokens
hbox	userdata		F	toks
isdefined	function		F	vbox
istoken	function		F	verbatim
letter	function		F	vtop
letters	function		F	whd
new	function		F	word
other	function		**setters**	table
pickup	function		F	box
presets	table		F	char
T	1 string		F	count
T	2 strings		F	dimen
T	3 strings		F	glue
T	4 strings		F	lua
T	5 strings		F	macro
T	6 strings		F	skip
T	7 strings		**shortcuts**	table
T	8 strings		T	bits
printlist	function		N	active
scanners	table		N	alignment
F	argument		N	begingroup
F	boolean		N	character
F	box		N	close
F	code		N	comment
F	conditional		N	endgroup
F	count		N	endofline
F	csname		N	escape
F	dimen		N	ignore
F	dimension		N	invalid
F	float		N	letter
F	glue		N	mathshift
F	hbox		N	open
F	integer		N	other

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

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

F scanopen	F tonumber
F scanstring	F tostring
F scantable	U vbox
F scanvbox	U vtop
F scanverbatim	F tonumber
F scanvtop	F tostring
F scanword	**vbox** userdata
F toboolean	**vtop** userdata
F todimen	

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 writecardinal2le
- F writecardinal4
- F writecardinal4le
- F writestring

formatters   table
- F formatcolumns
- F list
- F stripzeros

garbagecollector   table
- F check
- N criterium
- B enabled

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

```
        S tuc                                    U settings_to_hash_d

packers              table                       U unittotex

    F hashed                                     F process_stripped_settings

    F new                                        F rfc4180splitter

    F pack                                       F runtime

    F simplehashed                               F settings_to_array

    F strip                                      F settings_to_array_obey_fences

    F unpack                                     F settings_to_array_with_repeat

    N version                                    F settings_to_hash

parsers              table                       F settings_to_hash_colon_too

    F add_settings_to_array                      F settings_to_hash_strict

    F arguments_to_table                         F settings_to_hash_tolerant

    F array_to_string                            F settings_to_numbers

    F csvsplitter                                F settings_to_set

    F getparameters                              F simple_hash_to_string

    F groupedsplitat                             F splitmethod

    F hash_to_string                             F splitthousands

    T hashes                                     F stepper

      T settings_to_set                          F stripped_settings_to_array

        T min,max,fit,broad,auto                 F totime

          B auto                                 F unittotex

          B broad                                F unittoxml

          B fit                         randomizer           table

          B max                                  F get

          B min                                  F getnumber

        T text,hidden,paper,page,leftpage,rightpage    F getseed

          B hidden                               F popseed

          B leftpage                             F pushseed

          B page                                 F reuseseed

          B paper                                F setseed

          B rightpage                            F setseedi

          B text                        report               function

    F iterator                          sequencers           table

    F keq_to_hash                                F appendaction

    F listitem                                   F appendgroup

    F make_settings_to_hash_pattern              F compile

    F mergehashes                                F disableaction

    F options_to_array                           F disablegroup

    F options_to_hash                            F enableaction

    T patterns                                   F enablegroup

      U settings_to_array                        D functions

      U settings_to_hash_a                       F localize

      U settings_to_hash_b                       F new

      U settings_to_hash_c                       F nodeprocessor
```

F	prependaction	F	readcardinal4
F	prependgroup	F	readcardinal4le
F	removeaction	F	readcardinaltable
F	replaceaction	F	readchar
F	setkind	F	readfixed2
F	tostring	F	readfixed4
setters	**table**	F	readinteger
F	disable	F	readinteger1
F	enable	F	readinteger2
F	initialize	F	readinteger2le
F	list	F	readinteger3
F	new	F	readinteger3le
F	register	F	readinteger4
F	report	F	readinteger4le
F	reset	F	readintegertable
F	show	F	readsignedbyte
stacker	**table**	F	readstring
F	new	F	setposition
storage	**table**	F	size
F	allocate	F	skip
F	checked	F	skipbytes
F	mark	F	skiplong
F	marked	F	skipshort
F	setinitializer	**strings**	**table**
F	sparse	F	collapse
streams	**table**	F	collapsecrlf
F	close	T	formatters
F	getposition	F	add
F	getsize	F	new
F	getstring	F	newcollector
F	look	F	newrepeater
F	open	F	nice
F	openstring	T	striplinepatterns
F	read2dot14	U	collapse
F	read2dot4	U	prune
F	readbyte	U	prune and collapse
F	readbytes	U	prune and no empty
F	readbytetable	U	prune and to space
F	readcardinal	U	retain
F	readcardinal1	U	retain and collapse
F	readcardinal2	U	retain and no empty
F	readcardinal2le	F	striplines
F	readcardinal3	F	striplong
F	readcardinal3le	F	tabtospace

T tracers

tables table

F accesstable

F definedtable

F definetable

F encapsulate

F insertaftervalue

F insertbeforevalue

F migratetable

F removevalue

F replacevalue

templates table

F load

F replace

F replacer

F resolve

vf (context)

char	function	**pdf**	function
down	function	**pop**	function
fontid	function	**push**	function
image	function	**right**	function
node	function	**rule**	function
nop	function	**special**	function

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 attribute	
collect_tags	function	F boolean	
collect_texts	~~function~~	F child	
collected	function	F contains	
collecttexts	function	F count	
content	function	F error	
convert	function	F find	
copy	function	F hasclass	
count	function	F idstring	
cprint	function	F lower	
css	table	F name	
F applyselector		F number	
F colorspecification		F oneof	
F dimension		F print	
F fontspecification		F quit	
F mappedstylevalue		F tag	

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

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

string	function	**totable**	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

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		