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

ConTEXt LMTX

global (alias: _G)

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

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

userdata	table	**xdecimal**	table
utf	table	**xmath**	table
utf8	table	**xml**	table
utilities	table	**xpcall**	function
visualizers	table	**xzip**	table
warn	function	**zip**	table
xcomplex	table	**zlib**	table

attributes (context)

applyoverloads function
colorintents table
N attribute
D data
F enable
F handler
F register
D registered
colors table
N attribute
F cmyk
F cmyktogray
F cmyktorgb
F colorcomponents
D counts
B couple
F currentmodel
F currentnamedmodel
D data
N default
F defineintermediatecolor
F definemultitonecolor
F defineprocesscolor
F 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 hwbtorgb
F iccprofile
F isblack
N main
S model
D models
F mpcolor
F mpnamedcolor
F mpoptions
F namedcolorattributes
N none
F popset
F processcolorcomponents
F pushset
F register
D registered
F registerspotcolor
F rgb
F rgbtocmyk
F rgbtogray
F rgbtohsv
N selector
F setlist
F setmodel
F setpagecolormodel
D sets
F spec
F spot
F spotcolorname
F spotcolorparent
F spotcolorvalue
B supported
F toattributes
F transparencycomponents
B triggering
F usecolors
D valid
F value

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

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

backends (context)

closeout function
codeinjections table
F boxresourcedimensions
F registerboxresource
F restoreboxresource
current string
defaults table
T codeinjections
F getpagedimensions
F setpagedimensions
T nodeinjections
T registrations
D tables
getcallbackstate function
included table
B context
B date
B id
B metadata
B pdf
install function
latelua function
nodeinjections table
nothing function
openout function
pdf table
T codeinjections
F addbookmarks
F analyzenormalsymbol
F analyzesymbol
F attachmentid
F bitmap
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 jp2
F jpg
F maptag
F mergebookmarks
F mergecomments
F mergefields
F mergereferences
F mergeviewerlayers
F newimage
F png
F prerollreference
F presetsymbol
F presetsymbollist
F processrendering
F registerdocumentcloseaction
F registerdocumentopenaction
F registeredsymbol
F registerpagecloseaction
F registerpageopenaction
F registerpattern
F registersymbol
F scanimgage
F setattachmentsupport
F setfieldcalculationset
F setfigurealternative
F setfigurecolorspace
F setfiguremask
F setformat
F setformsmethod
F setpagetransition

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

basexx (extra lua)

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

bit32 (basic lua)

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

blobs (context)

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

boolean (context)

tocontext function
tonumber function

buffers (context)

append function
assign function
collectcontent function
erase function
exists function
get function
getcontent function
getlines function
gettexbuffer function
loadcontent function
parallel table
F define
F hassomecontent
F next
F place
F reset
F save
prepend function
raw function
run function
samplefile function
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
- D categories
- F checkstrutdepth
- F collapsevbox
- T data
  - D map
  - D skip
  - D snapmethods
- F definesnapmethod
- B fixed
- F forcepageflush
- F forcestrutdepth
- F getnofpreviouslines
- F inject
- F injectdisable
- F injectpenalty
- F injectskip
- F pagehandler
- F pageoverflow
- F popatsame
- F pushatsame
- F setmap
- F setskip
- F snapbox
- F synchronizepage
- F tocategories
- F tocategory
- F vboxhandler

caches (context)

base	string	**loadcontent**	function
collapsecontent	function	**loaddata**	function
configfiles	function	**more**	string
contentstate	function	**savecontent**	function
defaults	table	**savedata**	function
getfirstreadablefile	function	**setfirstwritablefile**	function
getreadablepaths	function	**setluanames**	function
getwritablepath	function	**treehash**	function
hashed	function	**usedpaths**	function
is_writable	function		

callback (basic tex)

find function
known function
list function
register overloaded function
usage function

callbacks (context)

freeze function
functions table
F start_page_number
F stop_page_number
known function
list data table
pop function
push function
register function
report function
supported table
B append_to_vlist_filter
B begin_paragraph
B build_page_insert
B buildpage_filter
B contribute_filter
B define_font
B find_format_file
B find_log_file
B handle_overload
B hpack_filter
B hpack_quality
B hyphenate
B insert_par
B intercept_lua_error
B intercept_tex_error
B kerning
B ligaturing
B linebreak_filter
B make_extensible
B mlist_to_hlist
B open_data_file
B post_linebreak_filter
B pre_dump
B pre_linebreak_filter
B pre_output_filter
B process_jobname
B show_error_message
B show_lua_call
B show_warning_message
B show_whatsit
B start_file
B start_run
B stop_file
B stop_run
B trace_memory
B vpack_filter
B vpack_quality
B wrapup_run

catcodes (context)

names data table
numbers data table
register function

characters (context)

adobename function
bidi data table
blockrange function
blocks data table
casemap table
categories data table
category function
categorytags data table
classifiers table
collapsed data table
contextname function
csletters data table
data data table
decomposed data table
description function
descriptions data table
detailtags data table
directions table
emoji table
- F compact
- F known
- F resolve

emojized function
enccodes data table
entities data table
fallbacks data table
filters data table
fractions table
fromnumber function
fschars data table
fscodes data table
getrange function
graphemes data table
hangul data table
indicgroups table
- T above_mark
- T after_half
- T after_main
- T after_postscript
- T after_subscript
- T anudatta
- T before_half
- T before_main
- T before_postscript
- T before_subscript
- T below_mark
- T consonant
- T dependent_vowel
- T halant
- T independent_vowel
- T nukta
- T post_mark
- T pre_mark
- T ra
- T stress_tone_mark
- T twopart_mark
- T vowel_modifier

initialize function
is_character data table
is_command data table
is_letter data table
is_mark data table
is_punctuation data table
is_spacing data table
is_symbol data table
lcchars data table
lccode function
lccodes data table
lettered function
lhash data table
linebreaks data table
lower function
mathlists data table
mirrors table
otfscripts data table
private table
ranges data table
registerentities function
remap_hangul_syllabe function
setactivecatcodes function
setlettercatcodes function
setothercatcodes function

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

chemistry (context)

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

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

uchexnumbers function
upper function
verbose table
D data
F translate
weekday function
word function
words function

coroutine (basic lua)

close	function	**running**	function
create	function	**status**	function
isyieldable	function	**wrap**	function
resume	function	**yield**	function

ctxrunner (context)

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

data (context)

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

debug (basic lua)

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

documentdata (context)

variable function

drivers (context)

convert function
converters table
F engine
F lmtx
enable function
gethpos function
getpos function
getrpos function
getvpos function
helpers table
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 js
T actions
F cleanup
F convert
F finalize
F initialize
F outputfilename
F prepare
F wrapup
T flushers
F character
F rule
F simplerule
F specialrule
F updatefontstate
S name
T json
T actions
F cleanup
F convert
F finalize
F initialize
F outputfilename
F prepare
F wrapup
T flushers
F character
F rule
F simplerule
F specialrule
F updatefontstate
S name
T lua
T actions
F cleanup
F convert
F finalize
F initialize
F outputfilename
F prepare
F wrapup
T flushers
F character
F rule
F simplerule
F specialrule
F updatefontstate
S name
T mps
T actions
F cleanup
F convert
F finalize
F initialize
F outputfilename
F prepare
F wrapup
T flushers

```
    F character
    F rule
    F simplerule
    F specialrule
    F updatefontstate
  S name
T none
  T actions
  T flushers
  S name
T pdf
  T actions
    F cleanup
    F convert
    F finalize
    F initialize
    F outputfilename
    F prepare
    F wrapup
  T flushers
    F character
    F fontchar
    F group
    F image
    F literal
    F poporientation
    F pushorientation
    F restore
    F rule
    F save
    F setmatrix
    F simplerule
    F specialrule
    F updatefontstate
  S name
```

lmtxversion number
outputfilename function
report function

environment (context)

argument	function	**luafile**	function
arguments	data table	**luafilechunk**	function
basicengines	data table	**luatexengine**	string
currentrun	number	**luatexfunctionality**	number
definefilefallback	function	**luatexversion**	number
definefilesynonym	function	**maxnofruns**	number
engineflags	data table	**oldhome**	string
filename	string	**originalarguments**	data table
filenames	table	**outputfilename**	string
files	table	**ownbin**	string
filesynonyms	data table	**ownmain**	string
forcedruns	number	**ownname**	string
getargument	function	**ownpath**	string
homedir	string	**prerollrun**	boolean
initex	boolean	**rawarguments**	data table
initexmode	boolean	**reconstructcommandline**	function
initializearguments	function	**relativepath**	function
initializefilenames	function	**setargument**	function
inputfilebarename	string	**splitarguments**	function
inputfilename	string	**suffix**	string
inputfilesuffix	string	**texfile**	function
jobfilefullname	string	**texmfos**	string
jobfilename	string	**texos**	string
jobfilesuffix	string	**texroot**	string
jobname	string	**truefilename**	function
kindofrun	number	**useluamodule**	function
lmtxmode	number	**usemodules**	function
loadexamodes	function	**validengines**	data table
loadluafile	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
badname function
bases data table
bitmapimage function
boxnumber number
cachepaths data table
check function
checkers data table
converters data table
current function
defaultdepth number
defaultheight number
defaultsearch boolean
defaultwidth number
done function
dummy function
existers data table
exists function
formats data table
found data table
get function
getinfo function
getpdfinfo function
getrealpage function
guess function
guessfromstring function
hash function
identifiers data table
identify function
images table
- F check
- F checksize
- F copy
- F create
- F embed
- T keys
- F print
- F scan
- F serialize
- T sizes
  - B art
  - B bleed
  - B crop
  - B media
  - B none
  - B trim
- F totable
- T types
  - N jbig2
  - N jp2
  - N jpg
  - N none
  - N pdf
  - N png
  - N stream
- F wrap

include function
includers data table
initialize function
loaded data table
localpaths data table
magics data table
mergegoodies function
nofmissing number
nofprocessed number
order data table
paths data table
patterns data table
pop function
preferquality boolean
programs data table
push function
registerpattern function
registerresource function
registersuffix function
remappers data table
resources data table
scale function
set function
setlookups function
setorder function
setpaths function

suffixes	data table
used	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)

getposition	function
read2dot14	function
readbytes	function
readbytetable	function
readcardinal1	function
readcardinal1le	function
readcardinal2	function
readcardinal2le	function
readcardinal3	function
readcardinal3le	function
readcardinal4	function
readcardinal4le	function
readcardinaltable	function
readfixed2	function
readfixed4	function
readinteger1	function
readinteger1le	function
readinteger2	function
readinteger2le	function
readinteger3	function
readinteger3le	function
readinteger4	function
readinteger4le	function
readintegertable	function
readline	function
setposition	function
skipposition	function
writecardinal1	function
writecardinal1le	function
writecardinal2	function
writecardinal2le	function
writecardinal3	function
writecardinal3le	function
writecardinal4	function
writecardinal4le	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
getfont	function	**setfont**	function
getfontdimen	function	**setfontdimen**	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
- F aftercopyingcharacters
- F applymanipulators
- F assignmathparameters
- F beforecopyingcharacters
- D cache
- F calculatescale
- F checkedfeatures
- F checkedfilename
- F collectprocessors
- F currentfonthasfeature
- D designsizes
- 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
  D pngcache
  B pngenabled
  T readers
    F addunicodetable
    F avar
    F cbdt
    F cblc
```

F cff
F cff2
F cffcheck
T cffencoder
F checkhash
F cmap
F colr
F compact
F cpal
F ebdt
F eblc
F ebsc
F expand
F extend
F fvar
F gdef
F getcomponents
F getinfo
F glyf
F gpos
T gposhandlers
  F chainedcontext
  F context
  F cursive
  F extension
  F marktobase
  F marktoligature
  F marktomark
  F pair
  F single
F gsub
T gsubhandlers
  F alternate
  F chainedcontext
  F context
  F extension
  F ligature
  F multiple
  F reversechainedcontextsingle
  F single
F gvar
F head
T helpers
  F axistofactors
  F cleanname
  F getaxisscale
  F getfactors
  F getscales
  F gotodatatable
  F normalizedaxis
  T normalizedaxishash
  F readvariationdata
  F reportskippedtable
  F setvariabledata
F hhea
F hmtx
F hvar
F kern
F loadfont
F loadshapes
F loca
F math
F maxp
F mvar
F name
F os/2
F pack
F parsecharstrings
F post
F registerextender
F rehash
F sbix
F stat
T streamreader
  F close
  F getposition
  F getsize
  F look
  F open
  F read2dot14
  F readbyte
  F readbytes
  F readbytetable
  F readcardinal
  F readcardinal1
  F readcardinal1le
  F readcardinal2
  F readcardinal2le

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

N version
T vf
T combinations
F combine
T combiner
D commands
D helpers
D math
N version
D whatever
F hashfeatures
F hashinstance
T hashmethods
F normal
F virtual
F initializefeatures
D loadedfonts
N noffontsloaded
N nofsharedfonts
N nofsharedhashes
N nofsharedvectors
N privateoffset
D privateslots
F readanddefine
F registerfeature
F resetfeature
B resolvevirtualtoo
F scale
F scaled
F setfactor
F setfeature
F setmathparameter
F setname
B sharefonts
F trytosharefont
N version

current function

currentid function

definers table

F addlookup
F analyze
F applypostprocessors
F checkedmode
F checkedscript
S defaultlookup
F define
F getspecification
F internal
F loadfont
F makespecification
T methods
F install
D variants
F read
F register
F registered
F registersplit
F resetnullfont
F resolve
T resolvers
F file
F name
F spec

definetypeface function

dropins table

F clone
F nextid
F provide
F registerglyph
F registerglyphs
F swap

encodings table

T agl
D ctxcodes
D extras
D names
D synonyms
D unicodes
D cache
F is_known
D known
F load
F make_unicode_vector
D math
N version

enhanceid function

expansions data table

formats data table

getalternate function
getindices function
getkern function
getmultiple function
getsubstitution function
getters table
T alternate
F opentype
T kern
F opentype
F type1
F type3
T multiple
F opentype
T substitution
F opentype
goodies table
D colorschemes
T data
T dejavu-math
S author
S comment
S copyright
B initialized
T mathematics
T alternates
T dotless
S comment
S feature
N value
T kerns
S name
S version
D designsizes
D filenames
F getcompositions
T list
F load
F prepare_features
F register
F registerpostprocessor
F report
T suffixes
handlers table
hashes table
D characters
D classes
D csnames
D descriptions
D dynamics
D emwidths
D exheights
D extensibles
D features
D identifiers
D italics
D lastmathids
D marks
D mathparameters
D modes
D originals
D parameters
T processes
D properties
D quads
D resources
T setdynamics
T shapes
D spaces
D spacings
T streams
D unicodes
D variants
D xheights
helpers table
F addextraprivate
F addprivate
F appendcommands
F appendcommandtable
F checkflags
F checkmerge
F checksteps
F collectanchors
D commands
F composecharacters
F descriptiontoslot
F dimenfactor
F expandglyph

T extraprivates
F fontpatternhassize
F getcoloredglyphs
F getdigitwidth
F getinstancespec
F getparameters
F getprivatecharornode
F getprivatenode
F getprivates
F getprivateslot
F hasprivate
F indextoslot
F name
F nametoslot
F newprivateslot
F prependcommands
F prependcommandtable
F privateslot
F setdigitwidth
F splitfontpattern
F tochar

infofont function

iterators table

F characters
F descriptions
F glyphs

loggers table

F format
F onetimememessage
F register
F reportdefinedfonts
F reportusedfeatures

mappings table

F addtounicode
F fromunicode16
F getentry
F loadfile
F loadline
F makenameparser
D overloads
F reset
F tounicode
F tounicode16
F tounicode16sequence

metapost table

F boundingbox
F boxtomp
F draw
F fill
F maxbounds
F output
F paths
F widthline
F zeroline

names data table

nulldata data table

privateoffsets table

B keepnames
N mathbase
N mathextrabase
N textbase
N textextrabase

protrusions data table

readers table

F afm
F check_lua
F check_tfm
F lua
F ofm
F opentype
F otf
F pfb
D sequence
F tfm
F ttc
F ttf
F woff

reserveid function

select table

D alternatives
F bodyfont
D data
F default
D defaults
F definefallbackfamily
F definefontfamily
F definefontfamilypreset
D extras

F fallback
D fallbacks
F features
F filefallback
F fontdata
F fontfallback
F fontsynonym
F goodies
F mathfallback
D methods
D presets
F registerfallback
F registerfiles
F registerfontalternative
F registerfontfamily
F textfallback
F typeface
F typescript
F userdata

specifiers table

D contextmerged
F contextnumber
D contextnumbers
D contextsetups
F contexttostring
F definecontext
F mergecontext
F presetcontext
F registercontext
F showcontext
F splitcontext
D synonyms
D variants

symbols table

T emoji
F checked
F resolved
F uselibrary

tables table

tracers table

treatments table

F applyfixes
D data
S filename
F ignoredfile
F report
F trace

typefaces table

vfcommands table

F startcolor
F startslant
F stopcolor
F stopslant

functions (context)

dummy function

graphics (context)

backgrounds table
- F fetchmultipar
- F pair
- F path
- F point

bitmaps table
- F flush
- F new
- F placeholder
- F tocontext

identifiers table
- F bitmap
- F jp2
- F jpg
- F png

identify function

gzip (extra lua)

compress	function	**load**	function
compressed	function	**save**	function
decompress	function	**suffix**	function

images (context)

check function
checksize function
copy function
create function
embed function
keys table
print function
scan function
serialize function
sizes table
- B art
- B bleed
- B crop
- B media
- B none
- B trim

totable function
types table
- N jbig2
- N jp2
- N jpg
- N none
- N pdf
- N png
- N stream

wrap 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)

arrays	table	**namesofscanners**	table
cachedsetups	data table	**namespaces**	table
cachesetup	function	F define	
cardinals	table	F list	
checkedspecification	function	**numbers**	table
complete	data table	**registernamespace**	function
constants	data table	**registerscanner**	function
corenamespaces	data table	**scanners**	data table
currentinterface	string	**setconstant**	function
currentresponse	string	**setcount**	function
definecommand	function	**setdimen**	function
defined	function	**setelement**	function
doifelsemessage	function	**setformat**	function
elements	data table	**setmacro**	function
floats	table	**setmessage**	function
formats	data table	**setmessages**	function
getmessage	function	**settranslation**	function
getnamespace	function	**setupstrings**	data table
getsetupstring	function	**setvariable**	function
hashedsetups	data table	**showmessage**	function
implement	function	**storedscanners**	data table
integers	table	**tolist**	function
interfacedcommand	function	**translations**	data table
interfaces	table	**usednamespaces**	data table
knownscanner	function	**variables**	data table
message	function	**writestatus**	function
nameofscanner	function		

io (basic lua)

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

job (context)

comment function
datasets table
- D collected
- F extend
- F getdata
- F setdata
- D tobesaved

disablesave function
embedded table
- D collected
- D tobesaved

fileobjreferences table
- D collected
- D tobesaved

files table
- D collected
- F context
- B forcerun
- F run
- D tobesaved

getrandomseed function
initialize function
load function
loadother function
objects table
- D collected
- F get
- F number
- F page
- F save
- F set
- D tobesaved

pack boolean
packversion number
pagestates table
- D collected
- F countervalue
- F extend
- F realpage
- F realpageorder
- F setstate
- D tobesaved

parwrappers table
- D collected
- D tobesaved

passes table
- F check
- D collected
- F count
- F define
- F find
- F first
- F get
- F getcollected
- F getdata
- F getfield
- F gettobesaved
- F inlist
- F last
- F list
- F save
- F savetagged
- D tobesaved

positions table
- F b_column
- F b_region
- F c
- D collected
- F column
- F columnofpos
- F copy
- F depth
- F e_column
- F e_region
- F enhance
- F extra
- F get
- F getfree
- F gethpos
- F getpos
- F getreserved
- F getrpos

F gettobesaved
F getvpos
F hangafter
F hangindent
F height
F hsize
F leftskip
F lowerleft
F lowerright
F markregionbox
F n
F onsamepage
F overlapping
F p
F page
T pagedata
F paragraph
F parindent
F position
F r
F region
F registerhandlers
F replace
F rightskip
F set
F setall
F setregionbox
F setspec
F settobesaved
D tobesaved
F upperleft
F upperright
F used
F whd
F width
F x
F xy
F y

register function

save function

structure table

D collected
T components
T tobesaved
T branches
S name
S type

variables table

D checksums
D collected
F getchecksum
F makechecksum
F restore
F save
F setchecksum
D tobesaved

version number

language (basic tex)

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

languages (context)

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

F check

T data

F disable

F enable

T enablers

B enables

F found

F load

T methods

N threshold

layouts (context)

status table

F isleftpage

F leftorrightpageaction

lfs (extra lua)

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

libraries (context)

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

lmx (context)

color function
convert function
convertfile function
convertstring function
einject function
eprint function
escape function
finalized function
finject function
fprint function
get function
getvariables function
htmfile function
html table
- F a
- F td
- F th

include function
inherited table
- S color-background-four
- S color-background-one
- S color-background-three
- S color-background-two
- S title

initialize function
inject function
lmxfile function
loadedfile function
make function
new function
overloaderror function
popupfile function
print function
pv function
report function
reset function
result function
set function
show function
showerror function
stripcss function
tv 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	**setformatters**	function
categories	function	**setlogfile**	function
direct	function	**setmessenger**	function
disable	function	**setprocessor**	function
enable	function	**settarget**	function
finalactions	function	**settimedlog**	function
flush	function	**settranslations**	function
loggingerrors	function	**show**	function
messenger	function	**start_page_number**	function
new	function	**start_run**	function
newline	function	**starterrorlogging**	function
poptarget	function	**startfilelogging**	function
private	table	**status**	function
F enablepagetiming		**stop_page_number**	function
F getpagetiming		**stoperrorlogging**	function
pushtarget	function	**stopfilelogging**	function
registerfinalactions	function	**subdirect**	function
report	function	**subreport**	function
reporter	function	**texerrormessage**	function
setformats	function	**writer**	function

lpdf (context)

action function
adddocumentcolorspace function
adddocumentextgstate function
adddocumentpattern function
adddocumentshade function
addtocatalog function
addtoinfo function
addtonames function
addtopageattributes function
addtopageresources function
addtopagesattributes function
addxmpinfo function
annotationspecification function
array function
attachmentsymbols function
boolean function
border function
checkedkey function
checkedvalue function
circularshade function
cmykcode function
collectedresources function
color function
colorspace function
colorspaceconstants data table
colorspec function
colorvalue function
colorvalues function
commentsymbols function
compresslevel function
constant function
copyarray function
copyboolean function
copyconstant function
copydictionary function
copyfloat function
copyinteger function
copynumber function
copystring function
copyunicode function
deferredobject function
delayedobject function
destinationspecification function
dictionary function
docstring function
epdf table
- F analyzefonts
- F contenttotext
- F expanded
- F getpagecontent
- F getstructure
- T image
  - F close
  - F copy
  - F new
  - F open
  - F query
- F load
- F parsecontent
- F plugin
- T resolvers
  - F destinations
  - F embeddedfiles
  - F javascripts
  - F layers
  - F pages
  - F structure
  - F widgets
- F stripcontent
- F unload

escaped function
finalizedocument function
finalizefonts function
finalizepage function
finishtransparencycode function
flags table
- T annotations
  - N AutoView
  - N Hidden
  - N Invisible
  - N Locked
  - N LockedContents

N NoRotate
N NoView
N NoZoom
N Print
N Printable
N ReadOnly
N ToggleNoView
N auto
N hidden
N printable
T widgets
N Comb
N CommitOnSelChange
N DoNotScroll
N DoNotSpellCheck
N Edit
N FileSelect
N MultiLine
N NoExport
N NoToggleToOff
N Password
N PopUp
N PushButton
N Radio
N RadiosInUnison
N ReadOnly
N Required
N RichText
N Sort
N file
N fixed
N nocheck
N protected
N readonly
N required
N sorted
N unavailable

flushfonts function
flushgroup function
flushobject function
flushstreamfileobject function
flushstreamobject function
fonts table
F color_direct
F color_indirect

formats data table
frombytes function
fromeight function
frompdfdoc function
fromsixteen function
getcatalog function
getcompression function
getfontname function
getfontobjectnumber function
getinfo function
getmatrix function
getmetadata function
getnofpages function
getpageproperties function
getpagereference function
getpagetags function
getpos function
getversion function
getxformname function
graycode function
hasmatrix function
id function
immediateobject function
includeimage function
injectors table
F bitmap
F jp2
F jpg
F png

injectxmpinfo function
insertxmpinfo function
layerreference function
limited function
linearshade function
literal function
majorversion function
makenametree function
minorversion function
nofpages function
null function
number function
object function
objectcompresslevel function

pagereference	function	**setomitcidset**	function
patternstream	function	**setpageorder**	function
pdfcolor	function	**setpagetag**	function
pdftimestamp	function	**settime**	function
pdfvfimage	function	**setversion**	function
permitdetail	function	**shareobject**	function
print	function	**shareobjectreference**	function
procset	function	**spotcode**	function
protectresources	boolean	**stream**	function
rectangle	function	**string**	function
reference	function	**toeight**	function
registerannotation	function	**topdfdoc**	function
registerdestination	function	**tosixteen**	function
registerdocumentfinalizer	function	**transparency**	function
registerfont	function	**transparencycode**	function
registerpagefinalizer	function	**transparencygroups**	table
registerpattern	function	B none	
reserveobject	function	**transparencyvalue**	function
rgbcode	function	**unicode**	function
rotationcm	function	**usedcharacters**	table
setcompression	function	**verbose**	function
setomitcharset	function		

lpeg (basic lua)

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

lua (basic tex)

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

luatex (context)

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

lxml (context)

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

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

math (basic lua)

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

mathematics (context)

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

md5 (extra lua)

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

metapost (context)

checkformat function
cm function
codes table

- N addto
- N ampersand
- N and
- N assignment
- N atleast
- N begingroup
- N btex
- N capsule
- N colon
- N comma
- N controls
- N curl
- N cycle
- N declare
- N def
- N definedmacro
- N delimiters
- N endgroup
- N equals
- N etex
- N everyjob
- N exitif
- N expandafter
- N fi_or_else
- N if
- N input
- N interim
- N internal
- N iteration
- N join
- N leftbrace
- N leftbracket
- N leftdelimiter
- N let
- N macrospecial
- N maketext
- N message
- N mode
- N newinternal
- N nullary
- N numeric
- N of
- N ofbinary
- N outertag
- N parametertype
- N plus_or_minus
- N primarybinary
- N primarydef
- N protection
- N randomseed
- N relax
- N repeat_loop
- N rightbrace
- N rightbracket
- N rightdelimiter
- N runscript
- N save
- N scantokens
- N scope
- N secondarybinary
- N secondarydef
- N semicolon
- N setbounds
- N shipout
- N show
- N skip
- N slash
- N step
- N stop
- N str
- N string
- N tag
- N tension
- N tertiarybinary
- N tertiarydef
- N thingstoadd
- N to
- N unary
- N undefinedcs

N until
N void
N with
N within
N write
colorinitializer function
comment function
convert function
currentmpx function
currentmpxstatus function
defaultformat string
defaultinstance string
defaultmethod string
directrun function
escaped function
exectime table
extensiondata data table
filterclippath function
flush function
flushers table
T pdf
F comment
F flushfigure
F startfigure
F stopfigure
F textfigure
flushliteral function
flushnormalpath function
flushreset function
fonts table
F define
format_number function
format_string function
formatnumber function
getclippath function
getextensions function
getextradata function
gethashentries function
getinstancenames function
getjobdata function
getparameter function
getparameterset function
getstatistics function
gettext function
graphic function
graphic_base_pass function
includesvgbuffer function
includesvgfile function
installplugin function
isobject function
knownparameters table
lastlog string
load function
maketext function
metafun table
F interpolate
F topath
mptopdf table
F convertmpstopdf
N nofconverted
n number
nofruns number
nofscriptruns function
nvformat function
pdfliterals function
pluginactions function
popformat function
popscriptrunner function
popvariable function
popvariables function
preparetextextsdata function
process function
processing function
processplugins function
properties table
pushformat function
pushscriptrunner function
pushvariable function
pushvariables function
reducetogray boolean
registerscript function
remappedtext function
remaptext function
reporterror function
reportsvgfonts function
reset function
resetlastlog function
resetplugins function

run function
runscript function
scanparameters function
scripterror function
scriptindex function
setextensions function
setoutercolor function
setparameterset function
settext function
setvariable function
showlog boolean
showsvgpage function
simple function
splitprescript function
startgraphic function
startsvghashing function
stopgraphic function
stopsvghashing function
svformat function
svgcolorremapper function
svgfactors table
- N cm
- N em
- N ex
- N in
- N mm
- N pc
- N pt
- N px

svgglyphtomp function
svgshapestomp function
svgshapestopdf function
svgsplitcolor function
svgtomp function
svgtopdf function
sxsy function
tex table
- F get
- F reset
- F set
- F setfrombuffer

texerrors boolean
texexp function
theclippath function
tographic function
totable function
types table
- N boolean
- N cmykcolor
- N color
- N dependent
- N independent
- N known
- N numeric
- N pair
- N path
- N pen
- N picture
- N protodependent
- N string
- N structured
- N suffixedmacro
- N tokenlist
- N transform
- N unknownboolean
- N unknownpath
- N unknownpen
- N unknownpicture
- N unknownstring
- N unsuffixedmacro
- N vacuous

typesvgpage function
unload function
untagvariable function
variables table

mime (extra lua)

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

mp (context)

autoinject function
aux table
- F boolean
- F color
- F direct
- F direct1
- F direct2
- F direct3
- F direct4
- F draw
- F fill
- F flush
- F fprint
- F integer
- F number
- F numeric
- F pair
- F pairpoints
- F path
- F pathpoints
- F points
- F print
- F quadruple
- F quadruplepoints
- F quoted
- F size
- F string
- F transform
- F triplet
- F tripletpoints
- F vprint

boolean function
cleaned function
color function
dataset function
datasets function
- F load

dimension function
direct function
direct1 function
direct2 function
direct3 function
direct4 function
disposehash function
draw function
fill function
flatten function
flush function
format function
formatted function
fprint function
fromhash function
get table
- F hashentry

graphformat function
inhash function
inject function
- F boolean
- F cmykcolor
- F color
- F integer
- F number
- F numeric
- F pair
- F path
- F quadruplet
- F string
- F transform
- F triplet
- F whatever

integer function
isarray function
isobject function
lmt_color_functions table
- F shade
- F step

lmt_contours_bitmap_get function
lmt_contours_bitmap_set function
lmt_contours_cleanup function
lmt_contours_color function
lmt_contours_edge_get_band function
lmt_contours_edge_get_cell function

lmt_contours_edge_paths	function	**mf_inject_blob**	function
lmt_contours_edge_set	function	**mf_map_move**	function
lmt_contours_edge_set_by_band	function	**mf_map_text**	function
lmt_contours_edge_set_by_cell	function	**mf_named_color**	function
lmt_contours_format	function	**mf_outline_text**	function
lmt_contours_function	function	**mf_save_data**	function
lmt_contours_maxmean	function	**mf_script_index**	function
lmt_contours_maxz	function	**mf_start_saving_data**	function
lmt_contours_minmean	function	**mf_stop_saving_data**	function
lmt_contours_minz	function	**mf_tb_dimensions**	function
lmt_contours_nofvalues	function	**mf_tt_dimensions**	function
lmt_contours_nx	function	**mf_tt_initialize**	function
lmt_contours_ny	function	**mode**	function
lmt_contours_range	function	**n**	function
lmt_contours_shade_paths	function	**newhash**	function
lmt_contours_shade_set	function	**number**	function
lmt_contours_shape_paths	function	**numeric**	function
lmt_contours_start	function	**pair**	function
lmt_contours_stop	function	**pairpoints**	function
lmt_contours_value	function	**path**	function
lmt_contours_xrange	function	**pathpoints**	function
lmt_contours_yrange	function	**points**	function
lmt_function_x	function	**positionanchor**	function
lmt_mesh_set	function	**positionbox**	function
lmt_mesh_update	function	**positioncurve**	function
lmt_poisson_generate	function	**positionpage**	function
lmt_surface_do	function	**positionpath**	function
lmt_svg_include	function	**positionpxy**	function
mf_blob_add	function	**positionregion**	function
mf_blob_dimensions	function	**positionwhd**	function
mf_blob_index	function	**positionxy**	function
mf_blob_new	function	**prefix**	function
mf_blob_raw_content	function	**print**	function
mf_blob_raw_dimensions	function	**processingmode**	function
mf_blob_raw_reset	function	**quadruple**	function
mf_blob_raw_toutf	function	**quadruplepoints**	function
mf_blob_raw_wipe	function	**quoted**	function
mf_blob_size	function	**report**	function
mf_blob_width	function	**scan**	table
mf_external_figure	function	F boolean	
mf_finish_saving_data	function	F cmykcolor	
mf_formatted_text	function	F color	
mf_get_outline_text	function	F expression	
mf_graphic_text	function	F integer	

F next
F number
F numeric
F pair
F path
F pen
F property
F string
F symbol
F token
F transform

set table

size function

skip table

F token

solve function

string function

systemmode function

texstr function

textextanchor function

texvar function

tohash function

transform function

triplet function

tripletpoints function

vprint function

mplib (extra tex)

execute	function
finder	function
finders	table
F file	
F mpstemplate	
finish	function
getcallbackstate	function
getcodes	function
getfields	function
gethashentries	function
gethashentry	function
getstates	function
getstatistics	function
getstatus	function
gettype	function
gettypes	function
inject_boolean	function
inject_cmykcolor	function
inject_color	function
inject_integer	function
inject_number	function
inject_numeric	function
inject_pair	function
inject_path	function
inject_string	function
inject_transform	function
inject_whatever	function
new	overloaded function
pen_info	function
propertycodes	table
realtimelogging	boolean
scan_boolean	function
scan_cmykcolor	function
scan_color	function
scan_expression	function
scan_integer	function
scan_next	function
scan_number	function
scan_numeric	function
scan_pair	function
scan_path	function
scan_pen	function
scan_property	function
scan_string	function
scan_symbol	function
scan_token	function
scan_transform	function
showcontext	function
skip_token	function
solve_path	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_attributes function
dimensions function
direct table

- F check_discretionaries
- F check_discretionary
- F copy
- F copy_list
- F copy_only
- F count
- F current_attributes
- F dimensions
- F effective_glue
- F end_of_math
- F exchange
- F fields
- F find_attribute
- F find_attribute_range
- F find_node
- F first_glyph
- F flatten_discretionaries
- F flush_list
- F flush_node
- F free
- F get_attribute
- F get_attributes
- F get_properties_table
- F get_synctex_fields
- F getattributelist
- F getboth
- F getbox
- F getchar
- F getdata
- F getdepth
- F getdirection
- F getdisc
- F getexpansion
- F getfam
- F getfield
- F getfont
- F getglue
- F getglyphdata
- F getglyphdimensions
- F getheight
- F getid
- F getindex
- F getkern
- F getkerndimension
- F getlanguage
- F getleader
- F getlist
- F getnext
- F getnormalizedline
- F getnucleus
- F getoffsets
- F getoptions
- F getorientation
- F getparstate
- F getpenalty
- F getpost
- F getpre
- F getprev
- F getproperty
- F getreplace
- F getscales
- F getscript
- F getshift
- F getstate
- F getsub
- F getsubpre
- F getsubtype
- F getsup
- F getsuppre
- F gettotal
- F getwhd
- F getwidth
- F getxscale
- F getxyscales

F getyscale
F has_attribute
F has_dimensions
F has_field
F has_glyph
F has_glyph_option
F hpack
F hyphenating
F id
F ignore_math_skip
F insert_after
F insert_before
F is_char
F is_direct
F is_glyph
F is_next_char
F is_next_glyph
F is_node
F is_prev_char
F is_prev_glyph
F is_valid
F is_zero_glue
F kerning
F last_node
F length
F ligaturing
F make_extensible
F migrate
F mlist_to_hlist
F naturalwidth
F new
F protect_glyph
F protect_glyphs
F protrusion_skippable
F rangedimensions
F remove
F reverse
F set_attribute
F set_attributes
F set_synctex_fields
F setadvance
F setattributelist
F setboth
F setbox
F setchar
F setdata
F setdepth
F setdirection
F setdisc
F setexpansion
F setfam
F setfield
F setfont
F setglue
F setglyphdata
F setheight
F setindex
F setkern
F setlanguage
F setleader
F setlink
F setlist
F setnext
F setnucleus
F setoffsets
F setoptions
F setorientation
F setpenalty
F setpost
F setpre
F setprev
F setproperty
F setreplace
F setscales
F setscript
F setshift
F setsplit
F setstate
F setsub
F setsubpre
F setsubtype
F setsup
F setsuppre
F settotal
F setwhd
F setwidth
F show
F slide

F start_of_par
F subtypes
F tail
F todirect
F tonode
F tostring
F tovaliddirect
F traverse
F traverse_char
F traverse_content
F traverse_glyph
F traverse_id
F traverse_list
F type
F types
F unprotect_glyph
F unprotect_glyphs
F unset_attribute
F unset_attributes
F usedlist
F uses_font
F values
F vertical_break
F vpack
F write

effective_glue function
end_of_math function
family_font function
fields function
find_attribute function
first_glyph function
flatten_discretionaries function
flush_list function
flush_node function
free function
get_attribute function
get_glue function
get_properties_table function
getfield function
getproperty function
has_attribute function
has_field function
has_glyph function
hpack function
hyphenating function
id function
insert_after function
insert_before function
instock function
inuse function
is_node function
is_zero_glue function
kerning function
last_node function
length function
ligaturing function
make_extensible function
mlist_to_hlist function
new function
protect_glyph function
protect_glyphs function
protrusion_skippable function
rangedimensions function
remove function
set_attribute function
set_glue function
setfield function
setproperty function
show function
slide function
subtypes function
tail function
tostring function
traverse function
traverse_id function
type function
types function
unprotect_glyph function
unprotect_glyphs function
unset_attribute function
usedlist function
uses_font function
values function
vpack function
write function

nodes (context)

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

F cleanuppage
F export
F finalizebox
F flatten
F flattenline
F migrate
F protectglyphs
F show
F stripping
F textbackgrounds
F unprotectglyphs

has_attribute function
has_field function
has_glyph function
hpack function
hyphenating function
idsandsubtypes function
idstostring function
injections table
F copy
F getligaindex
F getthreshold
F handler
F installgetspaceboth
F installnewkern
F isspace
F keepcounts
F reset
F resetcounts
F setcursive
F setkern
F setligaindex
F setmark
F setmove
F setposition
F setspacekerns
insert_after function
insert_before function
insert_list_after function
installattributehandler function
is_direct function
is_display_math function
is_node function
is_nut function
is_zero_glue function
kerncodes data table
kerning function
keys table
T whatsit
last_node function
leftmarginwidth function
length function
ligaturing function
linefillers table
D data
F define
F enable
F filler
F handler
lines table
T boxed
F addlinenumbers
F register
F setup
D data
F finalize
F number
link function
linked function
list function
listcodes data table
listtoutf function
literalvalues data table
locate function
markers table
F get
mathcodes data table
maxboxwidth function
migrations table
F setinserts
F setmarks
mlist_to_hlist function
new function
noadcodes data table
noadoptions table
N axis
N exact
N left

N middle
N no_axis
N right
N set
N unused_1
N unused_2

nodecodes data table
nopts function
nuts table

F append
F apply
F applyvisuals
F check_discretionaries
T colors
F set
F concat
F copy
F copy_list
F copy_no_components
F copy_node
F copy_only
F copy_only_glyphs
F copy_properties
F copyvisual
F count
F count_components
F countall
F current_attributes
F delete
F dimensions
F dirdimensions
F effective_glue
F end_of_math
F exchange
F find_attribute
F first_glyph
F firstcharacter
F firstcharinbox
F firstglyph
F flatten_discretionaries
F flush
F flush_components
F flush_list
F flush_node
F free
F fullhpack
F get_components
F getattr
F getattribute
F getattributelist
F getattrlist
F getattrs
F getboth
F getbox
F getboxglue
F getchar
F getcomponents
F getdata
F getdepth
F getdirection
F getdisc
F getdiscretionary
F getexpansion
F getfam
F getfield
F getfont
F getglue
F getglyphdata
F getglyphdimensions
F getheight
F getid
F getkern
F getkerndimension
F getlang
F getlanguage
F getleader
F getlist
F getnext
F getnormalizedline
F getnucleus
F getoffsets
F getoptions
F getorientation
F getpenalty
F getpost
F getpre
F getprev
F getprop

F getreplace
F getruledata
F getscales
F getscript
F getshift
F getstate
F getsub
F getsubpre
F getsubtype
F getsup
F getsuppre
F getsurround
F getsynctexfields
F gettotal
F getvalue
F getwhd
F getwidth
F getxscale
F getxyscales
F getyscale
F has_attribute
F has_dimensions
F has_field
F has_glyph
F has_glyph_option
F hpack
F hyphenating
F insert_after
F insert_before
F insert_list_after
F is_display_math
F is_node
F is_nut
F is_zero_glue
F ischar
F isdone
F isglyph
F isnextchar
F isnextglyph
F isprevchar
F isprevglyph
F kerning
F last_node
F leftmarginwidth
F length
F ligaturing
F link
F linked
F locate
F migrate
F mlist_to_hlist
F nestedtracedslide
F new
T pool
  F accent
  F baselineskip
  F boundary
  F choice
  F cleanup
  F delim
  F delimiter
  F direction
  F directliteral
  F disc
  F emptyrule
  F fence
  F fontkern
  F fraction
  F glue
  F gluespec
  F glyph
  F hlist
  F indentskip
  F italickern
  F kern
  F latelua
  F leader
  F lefthangskip
  F leftmarginkern
  F leftskip
  F lineskip
  F literal
  F mathchar
  F mathtextchar
  F negatedglue
  F noad
  F originliteral
  F outlinerule

F pageliteral
F penalty
F radical
F rawliteral
F register
F restore
F righthangskip
F rightmarginkern
F rightskip
F rule
F save
F savepos
F setmatrix
F shrink
F stock
F stretch
F subbox
F submlist
F temp
F usage
T userids
N margins.inline
N splitters.one
N splitters.two
F usernode
F userrule
F vlist
F wordboundary
F prepend
F processranges
F processwords
F protect_glyph
F protect_glyphs
F protrusion_skippable
F rangedimensions
F rawprop
F reference
F rehpack
F remove
F repackhlist
F replace
F reverse
F rightmarginwidth
T rules
T ruleactions
F box
F draw
F fill
F mp
F stroke
F userrule
F set_attribute
F set_components
F setadvance
F setattr
F setattribute
F setattributelist
F setattributes
F setattrlist
F setattrs
F setboth
F setbox
F setboxglue
F setchar
F setcomponents
F setdata
F setdepth
F setdirection
F setdisc
F setdiscretionary
F setexpansion
F setfam
F setfield
F setfont
F setglue
F setglyphdata
F setheight
F setkern
F setlang
F setlanguage
F setleader
F setlink
F setlist
F setnext
F setnucleus
F setoffsets
F setoptions
F setorientation

F setparproperty
F setpenalty
F setpost
F setpre
F setprev
F setprop
F setreplace
F setruledata
F setscales
F setscript
F setshift
F setsplit
F setstate
F setsub
F setsubpre
F setsubtype
F setsup
F setsuppre
F setsurround
F setsynctexfields
F setunsetattributes
F setvalue
F setvisual
F setvisuals
F setwhd
F setwidth
F show
F slide
F somepenalty
F somespace
F splitbox
F start_of_par
F striprange
F tail
F takeattr
F takebox
F takelist
F theprop
F tonode
F tonodes
F tonut
F tosequence
F tostring
F tracedslide
F traverse
F traverse_char
F traverse_content
F traverse_glyph
F traverse_id
F traverse_list
T traversers
  F boundary
  F char
  F content
  F dir
  F disc
  F glue
  F glyph
  F hlist
  F list
  F next
  F node
  F vlist
  F whatsit
T typesetters
  F tohbox
  F tohpack
  F tonodes
  F tovbox
  F tovpack
F unprotect_glyph
F unprotect_glyphs
F unset_attribute
F unset_attributes
F unsetattribute
F unsetattributes
F untracedslide
F usedlist
F uses_font
F vianodes
F vianuts
F vpack
F write

packlist function
parcodes data table
penaltycodes data table
plugindata table
  F finalizer

F initializer
S name
T namespace
N attribute
D data
F enable
F handler
F register
D registered
D values
F processor
points function
pool table
F baselineskip
F cleanup
F directliteral
F glyph
F hlist
F latelua
F lineskip
F literal
F originliteral
F register
F restore
F rule
F save
F savepos
F setmatrix
F special
F stock
F usage
F vlist
prepend function
print function
processors table
F contribute_filter
B enabled
F hpack_filter
F post_linebreak_filter
F pre_linebreak_filter
F tracer
properties table
T data
protect_glyph function
protect_glyphs function
protrusion_skippable function
pts function
radicalcodes data table
rangedimensions function
reference function
references table
N attribute
T done
F handler
T stack
rehpack function
remove function
repackhlist function
replace function
report function
rightmarginwidth function
rulecodes data table
rules table
D data
F define
F enable
F handler
F process
F userrule
serialize function
serializebox function
set_attribute function
setattr function
setattribute function
setattributes function
setboth function
setbox function
setboxtonaturalwd function
setchar function
setfield function
setfont function
setleader function
setlink function
setlist function
setnext function
setprev function
setunsetattributes function
shifts table

D data
F define
F enable
F handler
showboxes function
showlist function
showsimplelist function
skipcodes data table
slide function
snapshots table
F getsamples
F resetsamples
F takesample
somepenalty function
somespace function
splitbox function
start_of_par function
stripdiscretionaries function
stripping table
T glyphs
F set
subtypes data table
tail function
takeattr function
takebox function
tasks table
F actions
F appendaction
F disableaction
F disablegroup
F enableaction
F enablegroup
F freeze
F freezegroup
F new
F prependaction
F removeaction
F replaceaction
F restart
F setaction
F showactions
F table
tobasepoints function
tocentimeters function
tociceros function
todidots function
todimen function
toinches function
tomillimeters function
tonode function
tonodes function
tonut function
topicas function
topoints function
toscaledpoints function
tosequence function
tostring function
totable function
totree function
toutf function
tracers table
T colors
F reset
F set
F setlist
F directions
F fontchar
T frequencies
F register
T pool
T nodes
F rule
T nuts
F rule
F resetproperties
F rule
F setlist
F setproperties
F start
T steppers
F check
F codes
F features
F font
F glyphs
F message
F messages
F nofsteps

F register
F reset
F start
F stop
F stop
T transparencies
F reset
F set
F setlist
traverse function
traverse_id function
typesetters table
F hbox
F hpack
F tohbox
F tohpack
F tonodes
F tovbox
F tovpack
F vpack
unprotect_glyph function
unprotect_glyphs function
unset_attribute function
unsetattribute function
unsetattributes function
usedlist function
usercodes data table
uses_font function
vianodes function
vianuts function
visualizebox function
visualizers table
F attribute
T attributes
F box
F handler
F markfonts
F register
F setfont
F setlayer
F setruledglyph
F setvisual
vpack function
whatcodes data table
whatsitcodes data table
write function

number (context)

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

objects (context)

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

optional (context)

curl table
- F escape
- F fetch
- F getversion
- F initialize
- F unescape

ghostscript table
- F execute
- F initialize

graphicsmagick table
- F execute
- F initialize

kpse table
- F expand_braces
- F expand_path
- F expand_var
- F find_file
- F find_files
- F get_file_types
- F initialize
- F readable_file
- F set_program_name
- F var_value

loaded table

mujs table
- F dofile
- F execute
- F initialize
- F reset
- F setclosefile
- F setconsole
- F setfindfile
- F setopenfile
- F setreadfile
- F setseekfile

mysql table
- F close
- F execute
- F getmessage
- F initialize
- F open

postgress table
- F close
- F execute
- F getmessage
- F initialize
- F open

sqlite table
- F close
- F execute
- F getmessage
- F initialize
- F open

zint table
- F execute
- F initialize

os (basic lua)

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

package (basic lua)

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

pagebuilders (context)

columnsets table
- F add
- F block
- F check
- F currentcolumn
- F define
- F finishflush
- F flushareas
- F flushcolumn
- F flushrest
- F goto
- F noto
- F prepareflush
- F put
- F registerarea
- F reset
- F setarea
- F sethsize
- F sethspan
- F setlines
- F setproperties
- F setstart
- F setvsize

injections table
- F flushafter
- F flushbefore
- F save

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

pdf (basic tex)

immediateobj function

pdfe (extra tex)

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

physics (context)

units table

D tables

F registerunit

pngdecode (extra tex)

applyfilter	function
expand	function
interlace	function
splitmask	function
tocmyk	function

publications (context)

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

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

F save
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
D sets
D specials
D types
D virtuals

tags function

tracers table

F showdatasetauthors
F showdatasetcompleteness
F showdatasetfields
F showentry
F showfields
F showhashedauthors
F showtables
F showvariants

typesetters table

F author
F string

usedataset function

usedentries function

writers table

F author
F keyword
F pagenumber
F range

regimes (context)

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

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

sandbox (context)

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

scripts (context)

autofontfeature table
- F disable
- F enable
- F handler

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

getdata function
getinjector function
getsplitter function
getstatus function
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
numbertodataset data table
numbertohandler data table
reset function
set function
setstatus function
splitters data table

set (context)

contains function
create function
tolist function
tonumber function
totable function

sha2 (extra lua)

HASH256	function	**hash256**	function
HASH384	function	**hash384**	function
HASH512	function	**hash512**	function
HEX256	function	**hex256**	function
HEX384	function	**hex384**	function
HEX512	function	**hex512**	function
digest256	function	**sum256**	function
digest384	function	**sum384**	function
digest512	function	**sum512**	function

sio (extra lua)

read2dot14	function
readbytes	function
readbytetable	function
readcardinal1	function
readcardinal1le	function
readcardinal2	function
readcardinal2le	function
readcardinal3	function
readcardinal3le	function
readcardinal4	function
readcardinal4le	function
readcardinaltable	function
readfixed2	function
readfixed4	function
readinteger1	function
readinteger1le	function
readinteger2	function
readinteger2le	function
readinteger3	function
readinteger3le	function
readinteger4	function
readinteger4le	function
readintegertable	function

socket (extra lua)

BLOCKSIZE number
_DATAGRAMSIZE number
_SETSIZE number
_SOCKETINVALID number
bind function
choose function
connect function
connect4 function
connect6 function
dns table
- F getaddrinfo
- F gethostname
- F getnameinfo
- F tohostname
- F toip

gettime function
headers table
- T canonic
  - S accept
  - S accept-charset
  - S accept-encoding
  - S accept-language
  - S accept-ranges
  - S action
  - S age
  - S allow
  - S alternate-recipient
  - S arrival-date
  - S authorization
  - S bcc
  - S cache-control
  - S cc
  - S comments
  - S connection
  - S content-description
  - S content-disposition
  - S content-encoding
  - S content-id
  - S content-language
  - S content-length
  - S content-location
  - S content-md5
  - S content-range
  - S content-transfer-encoding
  - S content-type
  - S cookie
  - S date
  - S diagnostic-code
  - S dsn-gateway
  - S etag
  - S expect
  - S expires
  - S final-log-id
  - S final-recipient
  - S from
  - S host
  - S if-match
  - S if-modified-since
  - S if-none-match
  - S if-range
  - S if-unmodified-since
  - S in-reply-to
  - S keywords
  - S last-attempt-date
  - S last-modified
  - S location
  - S max-forwards
  - S message-id
  - S mime-version
  - S original-envelope-id
  - S original-recipient
  - S pragma
  - S proxy-authenticate
  - S proxy-authorization
  - S range
  - S received
  - S received-from-mta
  - S references
  - S referer
  - S remote-mta
  - S reply-to
  - S reporting-mta

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

sorters (context)

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

statistics (context)

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

status (basic tex)

getbufferstate	function	**getmarksstate**	function
getcallbackstate	function	**getneststate**	function
getconstants	function	**getnodestate**	function
geterrorlinestate	function	**getparameterstate**	function
geterrorstate	function	**getpoolstate**	function
getexpandstate	function	**getreadstate**	function
getextrastate	function	**getsavestate**	function
getfilestate	function	**getsparsestate**	function
getfontstate	function	**getstringstate**	function
gethalferrorlinestate	function	**gettexstate**	function
gethashstate	function	**gettokenstate**	function
getinputstate	function	**getwarningstate**	function
getlanguagestate	function	**iocodes**	table
getlookupstate	function	**list**	function
getluastate	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	nspaces	table
autosingle	function	optionalquoted	function
booleanstring	function	pack	function
byte	function	packsize	function
bytepairs	function	quote	function
bytes	function	quoted	function
bytetable	function	rep	function
char	function	replacenewlines	function
characterpairs	function	reverse	function
characters	function	split	function
checkedsplit	function	splitlines	function
collapsespaces	function	splitup	function
containsws	function	strip	function
count	function	sub	function
dawson	function	tformat	function
dump	function	toHEX	function
erf	function	toboolean	function
erfc	function	tobytes	function
erfcx	function	tocontext	function
erfi	function	todec	function
escapedpattern	function	todimen	function
escapedquotes	function	tohex	function
explode	function	tonodes	function
f6	function	topattern	function
find	function	totable	function
format	function	tounicode16	function
formatter	function	toutf	function
formatters	function	toutf32	function
fullstrip	function	toutf8	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
linetable	function	utfcharacters	function
longtostring	function	utfcharactertable	function
lower	function	utflength	function
match	function	utfpadd	function
nospaces	function	utfpadding	function

utfvalue	function	**valid**	function
utfvalues	function	**voigt**	function
utfvaluetable	function	**voigt_hwhm**	function

structures (context)

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

F touserdata

inserts table

D data
F define
F getdata
F getlocation
F getname
F getnumber
F setlocation
F setup
D stored

itemgroups table

lists table

F addto
F analyze
B autoreorder
D cached
D collected
F discard
F enhance
T enhancers
F filter
F formulanumber
F getresult
F groupindex
F hasnumberdata
F haspagedata
F hastitledata
F iscached
D kinds
F label
F location
D names
F number
D ordered
F page
F popnesting
F prefix
F prefixednumber
F prefixedpage
F process
D pushed
F pushnesting
F realpage
F reordered
T result
F savedlistnumber
F savedlistprefixednumber
F savedlisttitle
D sectionblocks
F sectionnumber
F size
F title
D tobesaved
F userdata
F uservalue

marks table

D data
F define
F exists
F fetch
F fetchallmarks
F fetched
F fetchonemark
F fetchtwomarks
F get
F number
F relate
F reset
F set
F show
F synchronize
F title
T tracers
F showtable

notes table

F check_spacing
F checkpagechange
F define
F doifonsamepageasprevious
F get
F getdeltapage
F getinternal
F getn
F getstate
F hascontent
F internal
F internalid

F listindex
D numbers
F ordered
F postpone
F resetpostponed
F restore
F save
F setstate
D states
F store

pages table

F allmarked
F analyze
D collected
F fraction
F has_changed
F in_body
F is_odd
F mark
F marked
N nofpages
F number
F on_right
F save
D tobesaved
F toranges

references table

F analyze
F checkedfile
F checkedfileorurl
F checkedprogram
F checkedrealpage
F checkedurl
D collected
U componentsplitter
F currentmetadata
F currentorder
D currentset
F define
D defined
D derived
F enhance
D executers
F expandcurrent
F export
T files
  T data
  F define
  F found
  F get
F filter
F filterdefault
D filters
D flaginternals
F from
D functions
F get
F getcurrentmetadata
F getcurrentprefixspec
F getinnermethod
F getinternalcachedlistreference
F getinternallistreference
F getinternalreference
F getoutermethod
D handlers
F identify
F import
F inject
F injectcurrentset
S innermethod
D internals
F load
F loadpresets
F mark
S outermethod
D pages
U prefixsplitter
D productdata
T programs
  T data
  F define
  F get
F realpageofpage
U referencesplitter
D referred
F referredpage
F registerfinalizer
F registerinitializer

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

registers table

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

sections table

F autodepth
F cct
D collected
F current
F currentblock
F currentid
F currentlevel
F currentsectionindex
F depthnumber
F finddata
F findnumber
F fullnumber
F getcurrentlevel
F getlevel
F getnumber
F internalreference
D levelmap
D levels
F matchingtilldepth
F numberatdepth
F numbers
F popblock
F prefixedconverted
F pushblock
F register

D registered
F reportstructure
F save
T sectionblockdata
T bodypart
S bookmark
F set
F setblock
F setchecker
F setentry
F setinitialblock
F setlevel
F setnumber
F showstructure
F structuredata
F title
D tobesaved
F typesetnumber
F userdata
B verbose

sets table
F define
F get
F getall
D setlist

specials table
D collected
F retrieve
F store
D tobesaved

synonyms table
F analyzed
D collected
F compare
F define
F filter
F finalize
F flush
F isshown
F isused
F meaning
F prepare
F process
F register
F registershown
F registerused
F resetshown
F resetused
F sort
F synonym
D tobesaved

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

F setregister
F setsorting
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
badness	function
box	table
boxresources	table
F getbox	
F getdimensions	
F save	
F use	
catcode	table
chardef	function
conditionals	data table
constants	data table
count	table
cprint	function
ctdcatcodes	number
ctxcatcodes	number
definefont	function
delcode	table
dimen	table
dimensiondef	function
directives	data table
enableprimitives	function
error	function
experiments	data table
extraprimitives	function
fatalerror	function
flagcodes	data table
fontidentifier	function
fontname	function
forcehmode	function
forcesynctexline	function
forcesynctextag	function
fprint	function
frozenparcodes	data table
get	function
getattribute	function
getbox	function
getboxdir	function
getboxresourcebox	function
getboxresourcedimensions	function
getcatcode	function
getcount	function
getdelcode	function
getdelcodes	function
getdimen	function
getdimensionvalue	function
geterrorvalues	function
getflagvalues	function
getfontoffamily	function
getfrozenparvalues	function
getglue	function
getglyphdata	function
getglyphoptionvalues	function
getglyphscript	function
getglyphstate	function
getgroupvalues	function
gethelptext	function
gethyphenationvalues	function
getintegervalue	function
getinteraction	function
getiovalues	function
getlargestusedmark	function
getlccode	function
getlinedir	function
getlist	function
getlocallevel	function
getmark	function
getmath	function
getmathcode	function
getmathcodes	function
getmathdir	function
getmodevalues	function
getmuglue	function
getmuskip	function
getnest	function
getnormalizevalues	function
getoutputactive	function
getpagestate	function
getpardir	function
getprimitiveorigins	function
getsfcode	function
getskip	function

getsynctexline function
getsynctexmode function
getsynctextag function
gettextdir function
gettoks function
getuccode function
glue table
glyphoptioncodes data table
groupcodes data table
hashtokens function
hyphenationcodes data table
ifs data table
inicatcodes number
integerdef function
isattribute function
isbox function
iscount overloaded function
isdefined function
isdimen overloaded function
isglue function
ismuglue function
ismuskip overloaded function
isprintable function
isskip overloaded function
istoken function
istoks function
lastnodetype function
lccode table
linebreak function
lists table
luacatcodes number
magicconstants table
N maxdimen
N running
N trueinch
mathchardef function
mathcode table
modelevels table
N horizontal
N math
N unset
N vertical
modes data table
mprint function
muglue table
muskip table
nest table
nilcatcodes number
normalizecodes data table
notcatcodes number
number function
poplocal function
primitives function
print function
prtcatcodes number
pushlocal function
quitlocal function
quittoks function
resetparagraph function
rlncatcodes number
romannumeral function
round function
runlocal function
runtoks function
saveboxresource function
scale function
scantoks function
set function
setattribute function
setbox function
setboxdir function
setcatcode function
setcount function
setdelcode function
setdimen function
setdimensionvalue function
setglue function
setglyphdata function
setglyphscript function
setglyphstate function
setintegervalue function
setinteraction function
setlccode function
setlinedir function
setlist function
setmath function
setmathcode function
setmathdir function

setmuglue	function	**systemmodes**	data table
setmuskip	function	**takebox**	function
setnest	function	**texcatcodes**	number
setpardir	function	**toks**	table
setsfcode	function	**tonumber**	function
setskip	function	**toscaled**	function
setsynctexline	function	**tpacatcodes**	number
setsynctexmode	function	**tpbcatcodes**	number
setsynctextag	function	**tprint**	function
settextdir	function	**trackers**	data table
settoks	function	**triggerbuildpage**	function
setuccode	function	**txtcatcodes**	number
sfcode	table	**type**	function
shipout	function	**uccode**	table
showcontext	function	**uprint**	function
skip	table	**useboxresource**	function
sp	function	**vrbcatcodes**	number
splitbox	function	**write**	function
sprint	function		

texconfig (basic tex)

buffer_size	number	**max_pool**	number
error_line	number	**max_print_line**	number
expand_depth	number	**max_strings**	number
firstline	string	**nest_size**	number
formatname	string	**node_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**	number
max_in_open	number	**token_size**	number

texio (basic tex)

closeinput	function	**write**	function
terminal	function	**write_nl**	function

token (basic tex)

accessors	table
F active	
F cmd	
F cmdchrcs	
F cmdname	
F command	
F csname	
F expandable	
F frozen	
F index	
F name	
F protected	
F range	
create	function
expand	function
expand_macro	function
future_expand	function
get_active	function
get_cmdchrcs	function
get_cmdname	function
get_command	function
get_csname	function
get_cstoken	function
get_dimension	function
get_expandable	function
get_fields	function
get_flags	function
get_frozen	function
get_id	function
get_immutable	function
get_index	function
get_instance	function
get_integer	function
get_macro	function
get_meaning	function
get_noaligned	function
get_parameters	function
get_permanent	function
get_primitive	function
get_protected	function
get_range	function
get_tok	function
get_tolerant	function
getcommandid	function
getcommandvalues	function
getfunctionvalues	function
getprimitives	function
gobble	function
gobble_dimen	function
gobble_integer	function
is_defined	function
is_next_char	function
is_token	function
new	function
peek_next	function
peek_next_char	function
peek_next_expanded	function
pop_macro	function
push_macro	function
put_back	function
put_next	function
save_lua	function
scan_argument	function
scan_box	function
scan_cardinal	function
scan_char	function
scan_cmdchr	function
scan_cmdchr_expanded	function
scan_code	function
scan_csname	function
scan_delimited	function
scan_dimen	function
scan_dimen_argument	function
scan_float	function
scan_glue	function
scan_integer	function
scan_integer_argument	function
scan_key	function
scan_keyword	function
scan_keyword_cs	function
scan_letters	function
scan_luacardinal	function

scan_luainteger	function	**scan_value**	function
scan_luanumber	function	**scan_word**	function
scan_next	function	**serialize**	function
scan_next_char	function	**set_char**	function
scan_next_expanded	function	**set_dimension**	function
scan_real	function	**set_integer**	function
scan_scale	function	**set_lua**	function
scan_skip	function	**set_macro**	function
scan_string	function	**skip_next**	function
scan_token	function	**skip_next_expanded**	function
scan_token_code	function	**type**	function
scan_tokenlist	function	**undefine_macro**	function
scan_toks	function		

tokens (context)

astable function
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 c_font_compact
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 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
commands data table
compile function
constant function
converters table
S toboolean
S todimen
S toglue
S tonumber
S tostring
create function
defined function
flags function
getinteger function
getters table
F box
F count
F cstoken
F dimen
F glue
F macro
F meaning
F skip
F token
isdefined function

istoken function
new function
pickup function
popmacro function
presets table
T 1 argument
T 1 string
T 2 arguments
T 2 strings
T 3 arguments
T 3 strings
T 4 arguments
T 4 strings
T 5 strings
T 6 strings
T 7 strings
T 8 strings
pushmacro function
scanners table
F argument
F argumentasis
F array
F boolean
F box
F bracketed
F bracketedasis
F cardinal
F char
F cmdchr
F cmdchrexpanded
F code
F conditional
F count
F csname
F delimited
F dimen
F dimenargument
F dimension
F float
F glue
F gluespec
F gluevalues
F hash
F hbox
F integer
F integerargument
F ischar
F key
F keyword
F keywordcs
F letters
F list
F luacardinal
F luainteger
F luanumber
F lxmlid
F next
F nextexpanded
F number
F optional
F peek
F peekchar
F peekexpanded
F real
F scanclose
F scanopen
F skip
F skipexpanded
F string
F table
F token
F tokencode
F tokenlist
F tokens
F toks
F value
F vbox
F verbatim
F vtop
F whd
F word
setinteger function
setters table
F box
F char
F count
F dimen
F glue

F lua
F macro
F skip

shortcuts table

T bits
N active
N alignment
N begingroup
N character
N close
N comment
N endgroup
N endofline
N escape
N ignore
N invalid
N letter
N mathshift
N open
N other
N parameter
N space
N subscript
N superscript
N whitespace
N close
F inspect
N open
F report
F scanargument
F scanargumentasis
F scanarray
F scanboolean
F scanbox
F scanbracketed
F scanbracketedasis
F scancardinal
F scanclose
F scancode
F scanconditional
F scancsname
F scandelimited
F scandimen
F scandimenargument
F scandimension
F scanglue
F scangluespec
F scangluevalues
F scanhash
F scanhbox
F scaninteger
F scanintegerargument
F scankeyword
F scankeywordcs
F scanletters
F scanlist
T scanners
F argument
F argumentasis
F array
F boolean
F box
F bracketed
F bracketedasis
F cardinal
F char
F cmdchr
F cmdchrexpanded
F code
F conditional
F count
F csname
F delimited
F dimen
F dimenargument
F dimension
F float
F glue
F gluespec
F gluevalues
F hash
F hbox
F integer
F integerargument
F ischar
F key
F keyword
F keywordcs

```
  F letters
  F list
  F luacardinal
  F luainteger
  F luanumber
  F lxmlid
  F next
  F nextexpanded
  F number
  F optional
  F peek
  F peekchar
  F peekexpanded
  F real
  F scanclose
  F scanopen
  F skip
  F skipexpanded
  F string
  F table
  F token
  F tokencode
  F tokenlist
  F tokens
  F toks
  F value
  F vbox
  F verbatim
  F vtop
  F whd
  F word
F scannumber
F scanopen
F scanoptional
F scanstring
F scantable
F scantokenlist
F scantoks
F scanvbox
F scanverbatim
F scanvtop
F scanword
F toboolean
F todimen
T tokens
  F astable
  T cache
    U NC
    U NR
    U bf
    U c_font_compact
    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 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
  D commands
  F compile
  F constant
  T converters
    S toboolean
    S todimen
```

```
  S toglue
  S tonumber
  S tostring
F create
F defined
F flags
F getinteger
T getters
  F box
  F count
  F cstoken
  F dimen
  F glue
  F macro
  F meaning
  F skip
  F token
F isdefined
F istoken
F new
F pickup
F popmacro
T presets
F pushmacro
F setinteger
T setters
  F box
  F char
  F count
  F dimen
  F glue
  F lua
  F macro
  F skip
T shortcuts
  N close
  F inspect
  N open
  F report
  F scanargument
  F scanargumentasis
  F scanarray
  F scanboolean
  F scanbox
  F scanbracketed
  F scanbracketedasis
  F scancardinal
  F scanclose
  F scancode
  F scanconditional
  F scancsname
  F scandelimited
  F scandimen
  F scandimenargument
  F scandimension
  F scanglue
  F scangluespec
  F scangluevalues
  F scanhash
  F scanhbox
  F scaninteger
  F scanintegerargument
  F scankeyword
  F scankeywordcs
  F scanletters
  F scanlist
  F scannumber
  F scanopen
  F scanoptional
  F scanstring
  F scantable
  F scantokenlist
  F scantoks
  F scanvbox
  F scanverbatim
  F scanvtop
  F scanword
  F toboolean
  F todimen
  F tonumber
  F tostring
D values
F tonumber
F tostring
```

values data table

tracers (context)

printerror function
printwarning function
showlines 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 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 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 (basic lua)

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

utilities (context)

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

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

formatters table
- F formatcolumns
- F list
- F stripzeros

garbagecollector table
- F check
- N criterium
- B enabled

ghostscript table
- F convert
- F statistics

graphicmagick table
- F convert
- F statistics

graphicsmagick table
- F convert

F statistics

lua table

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

packers table

F hashed
F new
F pack
F simplehashed
F strip
F unpack
N version

parsers table

F add_settings_to_array
F arguments_to_table
F array_to_string
F csvsplitter
F getparameters
F groupedsplitat
F hash_to_string
T hashes
T settings_to_set
T text,hidden,paper,page,leftpage,rightpage
B hidden
B leftpage
B page
B paper
B rightpage
B text
F iterator
F keq_to_hash
F listitem
F make_settings_to_hash_pattern
F mergehashes
F options_to_array
F options_to_hash
T patterns
U settings_to_array
U settings_to_hash_a
U settings_to_hash_b
U settings_to_hash_c
U settings_to_hash_d
U unittotex
F process_stripped_settings
F rfc4180splitter
F runtime
F settings_to_array
F settings_to_array_obey_fences
F settings_to_array_with_repeat
F settings_to_hash
F settings_to_hash_colon_too
F settings_to_hash_strict
F settings_to_hash_tolerant
F settings_to_numbers
F settings_to_set
F simple_hash_to_string
F splitmethod
F splitthousands
F stepper
F stripped_settings_to_array
F totime
F unittotex
F unittoxml

randomizer table

F get
F getnumber
F getseed
F popseed

F pushseed
F reuseseed
F setseed
F setseedi

randomizers table
F poisson

sequencers table
F appendaction
F appendgroup
F compile
F disableaction
F disablegroup
F enableaction
F enablegroup
D functions
F localize
F new
F nodeprocessor
F prependaction
F prependgroup
F removeaction
F replaceaction
F setkind
F tostring

setters table
F disable
F enable
F initialize
F list
F new
F register
F report
F reset
F show

stacker table
F new

storage table
F allocate
F checked
F mark
F marked
F setinitializer
F sparse

streams table
F close
F getposition
F getsize
F getstring
F look
F open
F openstring
F read2dot14
F read2dot4
F readbyte
F readbytes
F readbytetable
F readcardinal
F readcardinal1
F readcardinal2
F readcardinal2le
F readcardinal3
F readcardinal3le
F readcardinal4
F readcardinal4le
F readcardinaltable
F readchar
F readfixed2
F readfixed4
F readinteger
F readinteger1
F readinteger2
F readinteger2le
F readinteger3
F readinteger3le
F readinteger4
F readinteger4le
F readintegertable
F readsignedbyte
F readstring
F setposition
F size
F skip
F skipbytes
F skiplong
F skipshort

strings table
F collapse
F collapsecrlf

T formatters
F add
F new
F newcollector
F newrepeater
F nice
T striplinepatterns
U collapse
U prune
U prune and collapse
U prune and no empty
U prune and to space
U retain
U retain and collapse
U retain and no empty
F striplines
F striplong
F tabtospace
T tracers

tables table

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

templates table

F load
F replace
F replacer
F resolve

zipfiles table

F close
F found
F gunzipfile
F hash
F list
F open
F unzip
F unzipdir
F zipdir

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		

xcomplex (extra lua)

I function
__add function
__div function
__eq function
__index table
F I
F __add
F __div
F __eq
T __index
F I
F __add
F __div
F __eq
F __mul
S __name
F __pow
F __sub
F __tostring
F __unm
F abs
F acos
F acosh
F arg
F asin
F asinh
F atan
F atanh
F conj
F cos
F cosh
F exp
F i
F imag
F log
F new
F pow
F proj
F real
F sin
F sinh
F sqrt
F tan
F tanh
F topair
F tostring
F __mul
S __name
F __pow
F __sub
F __tostring
F __unm
F abs
F acos
F acosh
F arg
F asin
F asinh
F atan
F atanh
F conj
F cos
F cosh
F exp
F i
F imag
F log
F new
F pow
F proj
F real
F sin
F sinh
F sqrt
F tan
F tanh
F topair
F tostring
__mul function
__name string
__pow function
__sub function

__tostring	function	**i**	function
__unm	function	**imag**	function
abs	function	**log**	function
acos	function	**new**	function
acosh	function	**pow**	function
arg	function	**proj**	function
asin	function	**real**	function
asinh	function	**sin**	function
atan	function	**sinh**	function
atanh	function	**sqrt**	function
conj	function	**tan**	function
cos	function	**tanh**	function
cosh	function	**topair**	function
exp	function	**tostring**	function

xdecimal (extra lua)

__add function
__band function
__bor function
__bxor function
__div function
__eq function
__idiv function
__index table
- F __add
- F __band
- F __bor
- F __bxor
- F __div
- F __eq
- F __idiv
- T __index
  - F __add
  - F __band
  - F __bor
  - F __bxor
  - F __div
  - F __eq
  - F __idiv
  - F __le
  - F __lt
  - F __mod
  - F __mul
  - S __name
  - F __pow
  - F __shl
  - F __shr
  - F __sub
  - F __tostring
  - F __unm
  - F abs
  - F band
  - F bor
  - F bxor
  - F conj
  - F copy
  - F exp
  - F getprecision
  - F ln
  - F log
  - F max
  - F min
  - F minus
  - F new
  - F plus
  - F pow
  - F rotate
  - F setprecision
  - F shift
  - F sqrt
  - F tonumber
  - F tostring
  - F trim
- F __le
- F __lt
- F __mod
- F __mul
- S __name
- F __pow
- F __shl
- F __shr
- F __sub
- F __tostring
- F __unm
- F abs
- F band
- F bor
- F bxor
- F conj
- F copy
- F exp
- F getprecision
- F ln
- F log
- F max
- F min
- F minus
- F new

F plus
F pow
F rotate
F setprecision
F shift
F sqrt
F tonumber
F tostring
F trim

__le	function
__lt	function
__mod	function
__mul	function
__name	string
__pow	function
__shl	function
__shr	function
__sub	function
__tostring	function
__unm	function
abs	function
band	function
bor	function
bxor	function
conj	function
copy	function
exp	function
getprecision	function
ln	function
log	function
max	function
min	function
minus	function
new	function
plus	function
pow	function
rotate	function
setprecision	function
shift	function
sqrt	function
tonumber	function
tostring	function
trim	function

xmath (extra lua)

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

xml (context)

addentitiesdoctype function
addspecialcode function
after function
all function
applylpath function
applyselector function
assign function
attribute function
badinclusions function
before function
body function
builtinentities table
- B amp
- B apos
- B gt
- B lt
- B quot

cdata function
cdatatotext function
checkbom function
checkerror function
checknamespace function
checkns function
cleansed function
collect function
~~**collect_elements**~~ ~~function~~
collect_tags function
~~**collect_texts**~~ ~~function~~
collected function
collecttexts function
compactelement function
content function
convert function
copy function
count function
cprint function
css table
- F applyselector
- F colorspecification
- F dimension
- F family
- F fontspecification
- F mappedstylevalue
- F padding
- F size
- F style
- F stylevalue
- F todimension
- F variant
- F weight

defaulthandlers table
- D file
- D parsedxml
- D string
- D tex
- D texline
- D texspace
- D verbose

defaultprotocol string
delete function
~~**delete_element**~~ ~~function~~
despecialized function
each function
~~**each_element**~~ ~~function~~
elements function
elementtocdata function
empty function
entities data table
erase function
errorhandler function
escaped function
expressions table
- F attribute
- F boolean
- F child
- F contains
- F count
- F error
- F find
- F hasclass
- F idstring
- F lower

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

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

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

xzip (extra lua)

adler32 function
compress function
crc32 function
decompress function
expandsize function

zip (extra lua)

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

zlib (extra lua)

adler32 function
compress function
crc32 function
decompress function
expandsize function