

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

ConT_EXt LMTX

global (alias: _G)

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LUAMAJORVERSION	number	dofile	function
LUAMINORVERSION	number	drivers	table
LUATEXENGINE	string	environment	table
LUATEXFORMATID	number	error	function
LUATEXFUNCTIONALITY	number	experiments	table
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MP	function	fio	table
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assert	function	flushfontchar	function
attributes	table	flushsimplerule	function
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basexx	table	font	table
bit32	table	fonts	table
blobs	table	functions	table
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boolean	table	getrpos	function
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callbacks	table	gzip	table
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converters	table	languages	table
coroutine	table	layouts	table
createmask	function	lfs	table
ctxrunner	table	libraries	table
data	table	lmx	table
debug	table	load	function
dimen	function	loadfile	function
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logs	table	require	function
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lpeg	table	resolvers	table
lua	table	ruledspace	function
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math	table	scanhash	function
mathematics	table	scripts	table
md5	table	select	function
metapost	table	set	table
mime	table	setinspector	function
moduledata	table	setmetatable	function
modules	table	sha2	table
mp	function	shipbox_ref_h	number
mplib	table	shipbox_ref_v	number
next	function	sio	table
noads	table	socket	table
node	table	sorters	table
nodes	table	statistics	table
number	table	status	table
objects	table	storage	table
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optionalrequire	function	string	table
os	table	structures	table
package	table	table	table
pagebuilders	table	tex	table
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parametersets	table	texconfig	table
pcall	function	texconstants	data table
pdf	table	texifs	data table
pdfdecode	table	texio	table
pdfe	table	texisdefined	data table
physics	table	texmodes	data table
pngdecode	table	texsystemmodes	data table
poporientation	function	thirddata	table
print	function	toboolean	function
publications	table	todecimal	function
pushorientation	function	token	table
rawequal	function	tokens	table
rawget	function	tonumber	function
rawlen	function	tostring	function
rawset	function	tracers	table
readarray	function	trackers	table
regimes	table	type	function

typesetters	table	warn	function
unpack	function	xcomplex	table
updaters	table	xdecimal	table
url	table	xmath	table
userdata	table	xml	table
utf	table	xpcall	function
utf8	table	xzip	table
utilities	table	zip	table
visualizers	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		F enable	
B weightgray		F forcesupport	
define	function	F handler	
effects	table	T names	
N attribute		N color	
D data		N colorburn	
F enable		N colordodge	
F handler		N darken	
F register		N difference	
D registered		N exclusion	
D values		N hardlight	
handlers	table	N hue	
list	data table	N lighten	
markasoverload	function	N luminosity	
names	data table	N multiply	
negatives	table	N none	
N attribute		N normal	
D data		N overlay	
F enable		N saturation	
F handler		N screen	
F register		N softlight	
D registered		N none	
F set		F register	
numbers	data table	D registered	
ofnode	function	B supported	
private	function	F toattribute	
public	function	B triggering	
restore	function	F value	
save	function	D values	
showcurrent	function	unsetvalue	number
states	table	viewerlayers	table
F disabletriggering		N attribute	
F enabletriggering		F cleanup	
F finalize		D data	
F initialize		F define	
F process		F definedlayoutcomponent	
F selective		F enable	
F stacked		F forcesupport	
F stacker		F handler	
system	function	B hasorder	
tooverloads	function	D listwise	
transparencies	table	F register	
N attribute		D registered	
D data		F resolve_begin	

F 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 getpageorigin

F lmtxmode

F setpagedimensions

F setpageorigin

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 maptag

F mergebookmarks

F mergecomments

F mergefields

F mergereferences

F mergeviewerlayers

F newimage

F prerollreference

F presetsymbol

F presetsymbollist

F processrendering

F registerdocumentcloseaction

F registerdocumentopenaction

F registeredsymbol

F registerpagecloseaction

F registerpageopenaction

F registersymbol

F scanningimage

F setattachmentsupport

F setfieldcalculationset

F setfigurealternative

F setfigurecolorspace

F setfiguremask

F setformat

F setformsmethod

F setpagetransition

F settaggingsupport

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

basexx (extra lua)

decode16 function

decode64 function

decode85 function

decodeLZW function

decodeRL function

encode16 function

encode64 function

encode85 function

encodeLZW function

encodeRL function

bit32 (basic lua)

arshift function

band function

bnot function

bor function

btest function

bxor function

extract function

lrotate function

lshift function

replace function

rrotate function

rshift function

blobs (context)

append	function
dimensions	function
dispose	function
new	function
pack	function
strdp	function
strhd	function

strht	function
strwd	function
tohpack	function
tonodes	function
tovpack	function
write	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 kepttogether
- F registertogether
- T solutions
 - T splitters
 - F define
 - F optimize
 - T registered
 - F reset
 - F set
 - F split
 - F start
 - F stop
- F tag

profiling table

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

vsparing table

- F analyze
- D categories
- F 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

cache (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 process_rule

F start_page_number

F stop_page_number

known function

list data table

pop function

push function

register function

report function

supported table

B append_to_vlist_filter

B 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)

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

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

chemistry (context)

component	function	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
content function
define function
is_usable function

is_valid function
read function
usecache boolean
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

upper

verbose

D data

function

function

table

F translate

weekday

word

words

function

function

function

coroutine (basic lua)

close function
create function
isyieldable function
resume function

running function
status function
wrap function
yield function

ctxrunner (context)

load	function	prepfiles	data table
preparedfile	function	resolve	function

data (context)

action	function	prerolled	string
depth	number	width	number
height	number		

debug (basic lua)

getinfo function

sethook function

traceback function

dir (context)

collectpattern	function
current	function
expandname	function
found	function
glob	function
globdirs	function
globfiles	function

globpattern	function
ls	function
makedirs	function
mkdirs	function
pop	function
push	function

directives (context)

data	data table
default	function
disable	function
done	table
enable	function
list	function

name	string
register	function
report	function
reset	function
show	function
value	function

document (context)

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

documentdata (context)

variable function

drivers (context)

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

- T flushers
 - F character
 - F rule
 - F simplerule
 - F specialrule
 - F updatefontstate
- S name
- T none
- 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	uselua module	function
lmtxmode	number	usemodules	function
loadexamodes	function	validengines	data table
loadluafile	function	version	string

experiments (context)

data	data table
default	function
disable	function
enable	function
list	function
name	string

register	function
report	function
reset	function
show	function
value	function

figures (context)

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

setorder
setpaths

function
function

suffixes
used

data table
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
current	function
define	function
each	function
getfont	function
getfontdimen	function

id	function
max	function
nextid	function
setfont	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
- B addtounicode
- F aftercopyingcharacters
- F applymanipulators
- F assignmathparameters
- B autocleanup
- F beforecopyingcharacters
- D cache
- B cacheintex
- F calculatescale
- F checkedfeatures
- F checkedfilename
- F cleanupable

- F collectprocessors
- F currentfonthasfeature
- D designsizes
- D dontembed
- F enhanceparameters
- T enhancers
 - T afm
 - F apply
 - F patch
 - T patches
 - F register
 - F report
 - F register
 - F report
- T otf
 - F addfeature
 - F apply
 - F enhance
 - F patch
 - T patches
 - F register
 - F report
 - F register
 - F report
- T tfm
 - F apply
 - F patch
- T patches
 - F register
 - F report
- F register
- F report

- N factor
- T features
 - D afm
 - D otf
 - D tfm
- F finalize
- B fixprotrusion
- F getfeatureaction
- F getmathparameter

F getprivate	F featuresinitializer
T handlers	F featuresprocessor
T afm	F getactualtext
B autoprefixed	F getalternate
D cache	F getgsub
D features	F getkern
F getkern	F getmultiple
T helpdata	F getstreamhash
D bothkerned	F getsubstitution
D leftkerned	T handlers
D ligatures	F devanagari_remove_joiners
D rightkerned	F devanagari_reorder_matras
D texligatures	F devanagari_reorder_pre_base_reordering_consonants
F load	F devanagari_reorder_reph
T readers	F gpos_context
F getinfo	F gpos_contextchain
F loadfont	F gpos_cursive
F loadshapes	F gpos_mark2base
F setfeatures	F gpos_mark2ligature
B syncspace	F gpos_mark2mark
N version	F gpos_pair
T otf	F gpos_single
F addfeature	F gsub_alternate
F basemodeinitializer	F gsub_context
D cache	F gsub_contextchain
F collectlookups	F gsub_ligature
T coverup	F gsub_multiple
T actions	F gsub_reversecontextchain
F alternate	F gsub_single
F chainposition	F trigger_space_kerns
F chainsubstitution	T helpers
F kern	F blockligatures
F ligature	F pardirstate
F multiple	F txtfirststate
F pair	F load
F single	F loadoutlinedata
F substitution	F loadstreamdata
F register	F modeinitializer
S stepkey	D mpscache
F dataset	D pdfcache
F datasetpositionprocessor	F plugininitializer
S defaultbasealternate	F pluginprocessor
S defaultnodealternate	T plugins
D features	D pngcache

B pngenabled	F reversechainedcontexts
T readers	F single
F addunicodetable	F gvar
F avar	F head
F cbdt	T helpers
F cblc	F axistofactors
F cff	F cleanname
F cff2	F getaxissscale
F cffcheck	F getfactors
T cffencoder	F getscales
F checkhash	F gotodatatable
F cmap	F normalizedaxis
F colr	T normalizedaxisishash
F compact	F readvariationdata
F cpal	F reportskippedtable
F ebdt	F setvariabledata
F eblc	F hhea
F ebsc	F hmtx
F expand	F hvar
F extend	F kern
F fvar	F loadfont
F gdef	F loadshapes
F getcomponents	F loca
F getinfo	F math
F glyf	F maxp
F gpos	F mvar
T gposhandlers	F name
F chainedcontext	F os/2
F context	F pack
F cursive	F parsecharstrings
F extension	F post
F marktobase	F registerextender
F marktoligature	F rehash
F marktomark	F sbix
F pair	F stat
F single	T streamreader
F gsub	F close
T gsubhandlers	F getposition
F alternate	F getsizes
F chainedcontext	F look
F context	F open
F extension	F read2dot14
F ligature	F readbyte
F multiple	F readbytes

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

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

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 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		B	keepnames	
F	splitfontpattern		N	mathbase	
F	tochar		N	mathextrabase	
infofont	function		N	textbase	
iterators	table		N	textextrabase	
F	characters		protrusions	data table	
F	descriptions		readers	table	
F	glyphs		F	afm	
loggers	table		F	check_lua	
F	add_placeholders		F	check_tfm	
D	category_to_placeholder		F	lua	
F	format		F	ofm	
F	onetimemessage		F	opentype	
F	register		F	otf	
F	reportdefinedfonts		F	pfb	
F	reportusedfeatures		D	sequence	
mappings	table		F	tfm	
F	addtounicode		F	ttc	
F	fromunicode16		F	ttf	
F	loadfile		F	woff	
F	loadline		reserveid	function	
F	makenameparser		select	table	
D	overloads		D	alternatives	
F	reset		F	bodyfont	
F	tounicode		D	data	
F	tounicode16		F	default	
F	tounicode16sequence		D	defaults	
metapost	table		F	definefallbackfamily	
F	boundingbox		F	definefontfamily	
F	boxtomp		F	definefontfamilypreset	
F	draw		D	extras	
F	fill		F	fallback	
F	maxbounds		D	fallbacks	
F	output		F	features	
F	paths		F	filefallback	
F	widthline		F	fontdata	
F	zeroline		F	fontfallback	
mp	table		F	fontsynonym	
D	cache		F	goodies	
B	inline		F	mathfallback	
N	version		D	methods	
names	data table		D	presets	
nulldata	data table		F	registerfallback	
privateoffsets	table		F	registerfiles	

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

D data
F savefont
F saveoriginal

tracers table

treatments table

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

typefaces table

functions (context)

dummy function

graphics (context)

backgrounds table

- F fetchmultipar
- F pair
- F path
- F point

bitmaps table

- F flush
- F new

F placeholder

F tocontext

identifiers table

- F bitmap
- F jp2
- F jpg
- F png

identify function

gzip (extra lua)

compress function
compressed function
decompress function

load function
save 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 memstream
 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 setcloseddocument
F setclosepage
F setopendocument
F setopenpage

renderings data table

soundclips data table

interfaces (context)

addvalidkeys	function	nameofscanner	function
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
getcheckedparameters	function	settranslation	function
getmessage	function	setupstrings	data table
getnamespace	function	setvalidkeys	function
getsetupstring	function	setvariable	function
hashedsetups	data table	showmessage	function
implement	function	storedscanners	data table
integers	table	syntax	data table
interfacedcommand	function	tolist	function
interfaces	table	translations	data table
invalidkey	function	usednamespaces	data table
knownscanner	function	variables	data table
message	function	writestatus	function

io (basic lua)

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

job (context)

comment	function	D tobesaved	
datasets	table	parwrappers	table
D collected		D collected	
F extend		D tobesaved	
F getdata		passes	table
F setdata		F check	
D tobesaved		D collected	
disablesave	function	F count	
embedded	table	F define	
D collected		F find	
D tobesaved		F first	
fileobjreferences	table	F get	
D collected		F getcollected	
D tobesaved		F getdata	
files	table	F getfield	
D collected		F gettobesaved	
F context		F inlist	
B forcerun		F last	
F run		F list	
D tobesaved		F save	
getrandomseed	function	F savetagged	
initialize	function	D tobesaved	
load	function	positions	table
loadother	function	F b_column	
objects	table	F b_region	
D collected		F c	
F get		D collected	
F number		F column	
F page		F columnofpos	
F save		F copy	
F set		F depth	
D tobesaved		F e_column	
pack	boolean	F e_region	
packversion	number	F enhance	
pagestates	table	F extra	
D collected		F get	
F countervalue		F getfree	
F extend		F gethpos	
F realpage		F getpos	
F realpageorder		F getreserved	
F setstate		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
clear_hyphenation	function
clear_patterns	function
current	function
gethjcode	function
has_language	function
hyphenate	function
hyphenation	function
hyphenationmin	function

id	function
new	function
patterns	function
postexhyphenchar	function
posthyphenchar	function
preexhyphenchar	function
prehyphenchar	function
sethjcode	function

languages (context)

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

F check

T data

F disable

F enable

T enablers

B enables

F found

F load

T methods

N threshold

layouts (context)

status table	F leftorrightpageaction
F isleftpage	

lfs (extra lua)

attributes	overloaded function
chdir	overloaded function
currentdir	function
dir	overloaded function
isdir	overloaded function
isfile	overloaded function
isfound	function
isreadabledir	function
isreadablefile	function
iswriteabledir	function

iswriteablefile	function
link	overloaded function
mkdir	overloaded function
mkdirs	function
modification	function
readlink	function
rmdir	overloaded function
setexecutable	function
symlink	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
showdebuginfo	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	destination specification	function
adddocumentcolorspace	function	dictionary	function
adddocumenttextgstate	function	docstring	function
adddocumentpattern	function	epdf	table
adddocumentshade	function	F analyzefonts	
addtocatalog	function	F contenttotext	
addtoinfo	function	F expanded	
addtonames	function	F getpagecontent	
addtopageattributes	function	F getstructure	
addtopageresources	function	T image	
addtopagesattributes	function	F close	
addxmpinfo	function	F copy	
annotation specification	function	F new	
array	function	F open	
attachmentsymbols	function	F query	
boolean	function	F load	
border	function	F parsecontent	
checkedkey	function	F plugin	
checkedvalue	function	T resolvers	
circularshade	function	F destinations	
cmykcode	function	F embeddedfiles	
collectedresources	function	F javascripts	
color	function	F layers	
colorspace	function	F pages	
colorspaceconstants	data table	F structure	
colorspec	function	F widgets	
colorvalue	function	F stripcontent	
colorvalues	function	F unload	
commentssymbols	function	escaped	function
compresslevel	function	finalizedocument	function
constant	function	finalizefonts	function
copyarray	function	finalizepage	function
copyboolean	function	finishtransparencycode	function
copyconstant	function	flags	table
copydictionary	function	T annotations	
copyfloat	function	N AutoView	
copyinteger	function	N Hidden	
copynumber	function	N Invisible	
copystring	function	N Locked	
copyunicode	function	N LockedContents	
delayedobject	function	N NoRotate	

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

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

lpeg (basic lua)

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

lua (basic tex)

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

lxml (context)

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

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

math (basic lua)

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

mathematics (context)

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

md5 (extra lua)

HEX function
dec function
hex function

sum function
sumHEX function
sumhex function

metapost (context)

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

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

<u>get_count</u>	function	color	function
<u>get_dimen</u>	function	dataset	function
<u>get_macro</u>	function	datasets	function
<u>get_toks</u>	function	F load	
<u>set_count</u>	function	dimension	function
<u>set_dimen</u>	function	direct	function
<u>set_macro</u>	function	direct1	function
<u>set_toks</u>	function	direct2	function
autoinject	function	direct3	function
aux	table	direct4	function
F boolean		disposehash	function
F color		draw	function
F direct		fill	function
F direct1		flatten	function
F direct2		flush	function
F direct3		format	function
F direct4		formatted	function
F draw		fprint	function
F fill		fromhash	function
F flush		get	table
F fprint		getcount	function
F integer		getdimen	function
F number		getmacro	function
F numeric		gettoks	function
F pair		graphformat	function
F pairpoints		inhash	function
F path		inject	function
F pathpoints		F boolean	
F points		F cmykcolor	
F print		F color	
F quadruple		F integer	
F quadruplepoints		F number	
F quoted		F numeric	
F size		F pair	
F string		F path	
F transform		F string	
F triplet		F transform	
F tripletpoints		F whatever	
F vprint		integer	function
boolean	function	isarray	function
cleaned	function	isobject	function

lmt_color_functions	table	mf_blob_raw_content	function
F shade		mf_blob_raw_dimensions	function
F step		mf_blob_raw_reset	function
lmt_contours_bitmap_get	function	mf_blob_raw_toutf	function
lmt_contours_bitmap_set	function	mf_blob_raw_wipe	function
lmt_contours_cleanup	function	mf_blob_size	function
lmt_contours_color	function	mf_blob_width	function
lmt_contours_edge_get_band	function	mf_external_figure	function
lmt_contours_edge_get_cell	function	mf_finish_saving_data	function
lmt_contours_edge_paths	function	mf_formatted_text	function
lmt_contours_edge_set	function	mf_get_outline_text	function
lmt_contours_edge_set_by_band	function	mf_graphic_text	function
lmt_contours_edge_set_by_cell	function	mf_inject_blob	function
lmt_contours_format	function	mf_made_text	function
lmt_contours_function	function	mf_map_move	function
lmt_contours_maxmean	function	mf_map_text	function
lmt_contours_maxz	function	mf_named_color	function
lmt_contours_minmean	function	mf_outline_text	function
lmt_contours_minz	function	mf_save_data	function
lmt_contours_nofvalues	function	mf_script_index	function
lmt_contours_nx	function	mf_some_text	function
lmt_contours_ny	function	mf_start_saving_data	function
lmt_contours_range	function	mf_stop_saving_data	function
lmt_contours_shade_paths	function	mf_tb_dimensions	function
lmt_contours_shade_set	function	mf_tt_dimensions	function
lmt_contours_shape_paths	function	mf_tt_initialize	function
lmt_contours_start	function	mode	function
lmt_contours_stop	function	n	function
lmt_contours_value	function	newhash	function
lmt_contours_xrange	function	number	function
lmt_contours_yrange	function	numeric	function
lmt_do_remaptext	function	pair	function
lmt_function_x	function	pairpoints	function
lmt_mesh_set	function	path	function
lmt_mesh_update	function	pathpoints	function
lmt_poisson_generate	function	points	function
lmt_register_glyph	function	positionanchor	function
lmt_register_glyphs	function	positionbox	function
lmt_surface_do	function	positioncurve	function
lmt_svg_include	function	positionpage	function
mf_blob_add	function	positionpath	function
mf_blob_dimensions	function	positionpxy	function
mf_blob_index	function	positionregion	function
mf_blob_new	function	positionwhd	function

positionxy	function	F token	
prefix	function	F transform	
print	function	set	table
processingmode	function	setcount	function
quadruple	function	setdimen	function
quadruplepoints	function	setmacro	function
quoted	function	settoks	function
report	function	size	function
scan	table	solve	function
F boolean		string	function
F cmykcolor		systemmode	function
F color		texstr	function
F expression		texttextanchor	function
F integer		texvar	function
F next		tohash	function
F number		transform	function
F numeric		triplet	function
F pair		tripletpoints	function
F path		utflen	function
F pen		utfsub	function
F string		vprint	function
F symbol			

mplib (extra tex)

execute	function	inject_transform	function
finder	function	inject_whatever	function
finders	table	new	overloaded function
F file		pen_info	function
F mpstemplate		realtime logging	boolean
finish	function	scan_boolean	function
getcallbackstate	function	scan_cmykcolor	function
getcodes	function	scan_color	function
getfields	function	scan_expression	function
getstates	function	scan_integer	function
getstatistics	function	scan_next	function
getstatus	function	scan_number	function
gettype	function	scan_numeric	function
gettypes	function	scan_pair	function
inject_boolean	function	scan_path	function
inject_cmykcolor	function	scan_pen	function
inject_color	function	scan_string	function
inject_integer	function	scan_symbol	function
inject_number	function	scan_token	function
inject_numeric	function	scan_transform	function
inject_pair	function	solve_path	function
inject_path	function	version	function
inject_string	function		

noads (context)

handlers	table		F resize
F align			F showtree
F alternates			F tags
F autofences			F unscript
F classes			F unstack
F collapse			F variants
F domains		process	function
F families		processnested	function
F fixscripts		processors	table
F italics		F mlist_to_hlist	
F kernpairs		T unscript	
F makeup		T unstack	
F relocate		processouter	function
F render			

node (basic tex)

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

F has_glyph_option
F hpack
F hyphenating
F ignore_math_skip
F insert_after
F insert_before
F is_char
F is_direct
F is_glyph
F is_node
F is_valid
F is_zero_glue
F kerning
F last_node
F length
F ligaturing
F 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 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 setscript
F setshift
F setsplit
F setstate
F setsub
F setsubpre
F setsubtype
F setsup
F setsuppre
F settotal
F setwhd
F setwidth
F slide
F start_of_par
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 unprotect_glyph		last_node	function
F unprotect_glyphs		length	function
F unset_attribute		ligaturing	function
F usedlist		make_extensible	function
F uses_font		mlist_to_hlist	function
F vertical_break		new	function
F vpack		optimize_unset_attribute	function
F write		protect_glyph	function
effective_glue	function	protect_glyphs	function
end_of_math	function	protrusion_skippable	function
family_font	function	rangedimensions	function
fields	function	remove	function
find_attribute	function	set_attribute	function
first_glyph	function	set_glue	function
flatten_discretionaries	function	setfield	function
flush_list	function	setproperty	function
flush_node	function	slide	function
free	function	subtypes	function
get_attribute	function	tail	function
get_glue	function	tostring	function
get_properties_table	function	traverse	function
getfield	function	traverse_char	function
getproperty	function	traverse_glyph	function
has_attribute	function	traverse_id	function
has_field	function	traverse_list	function
has_glyph	function	type	function
hpack	function	types	function
hyphenating	function	unprotect_glyph	function
id	function	unprotect_glyphs	function
insert_after	function	unset_attribute	function
insert_before	function	usedlist	function
instock	function	uses_font	function
inuse	function	values	function
is_node	function	vpack	function
is_zero_glue	function	write	function
kerning	function		

nodes (context)

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

F cleanupbox		is_zero_glue	function
F cleanuppape		kerncodes	data table
F export		kerning	function
F finalizebox		keys	table
F flatten		T Whatsit	
F flattenline		last_node	function
F migrate		leftmarginwidth	function
F protectglyphs		length	function
F stripping		ligaturing	function
F textbackgrounds		linefillers	table
F unprotectglyphs		D data	
has_attribute	function	F define	
has_field	function	F enable	
has_glyph	function	F filler	
hpack	function	F handler	
hyphenating	function	lines	table
idsandsubtypes	function	T boxed	
idstousing	function	F register	
injections	table	F setup	
F copy		F stage_one	
F getligaindex		F stage_two	
F getthreshold		D data	
F handler		F finalize	
F installgetspaceboth		F number	
F installnewkern		N scratchbox	
F isspace		link	function
F keepcounts		linked	function
F reset		list	function
F resetcounts		listcodes	data table
F setcursive		listtoutf	function
F setkern		literalvalues	data table
F setligaindex		load	function
F setmark		locate	function
F setmove		markers	table
F setposition		F get	
F setspacekerns		mathcodes	data table
insert_after	function	maxboxwidth	function
insert_before	function	migrations	table
insert_list_after	function	F setinserts	
installattributehandler	function	F setmarks	
is_direct	function	mlist_to_hlist	function
is_display_math	function	new	function
is_node	function	noadcodes	data table
is_nut	function	noadoptions	table

N axis		F free
N exact		F fullhpack
N left		F get_components
N middle		F getattr
N no_axis		F getattribute
N right		F getattributelist
N set		F getattrlist
N unused_1		F getattrs
N unused_2		F getboth
nodecodes	data table	F getbox
nopts	function	F getboxglue
nuts	table	F getchar
F append		F getcomponents
F apply		F getdata
F applyvisuals		F getdepth
F check_discretionaries		F getdirection
F concat		F getdisc
F copy		F getdiscretionary
F copy_list		F getexpansion
F copy_no_components		F getfam
F copy_node		F getfield
F copy_only		F getfont
F copy_only_glyphs		F getglue
F copy_properties		F getglyphdata
F copyvisual		F getglyphdimensions
F count		F getheight
F count_components		F getid
F countall		F getkern
F current_attributes		F getkerndimension
F delete		F getlang
F dimensions		F getlanguage
F dirdimensions		F getleader
F effective_glue		F getlist
F end_of_math		F getnext
F exchange		F getnormalizedline
F find_attribute		F getnucleus
F first_glyph		F getoffsets
F firstcharacter		F getoptions
F firstcharinbox		F getorientation
F firstglyph		F getpenalty
F flatten_discretionaries		F getpost
F flush		F getpre
F flush_list		F getprev
F flush_node		F getprop

F getreplace
F getruledata
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 has_attribute
F has_dimensions
F has_field
F has_glyph
F hpack
F hyphenating
F insert_after
F insert_before
F insert_list_after
F is_display_math
F is_node
F is_nut
F is_zero_glue
F ischar
F isdone
F isglyph
F kerning
F last_node
F leftmarginwidth
F length
F ligaturing
F link
F linked
F locate
F 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 setattr
F save	F setattribute
F savepos	F setattributelist
F setmatrix	F setattributes
F shrink	F setattrlist
F stock	F setattrrs
F stretch	F setboth
F subbox	F setbox
F submlist	F setboxglue
F temp	F setchar
F usage	F setcomponents
T userids	F setdata
N margins.inline	F setdepth
N splitters.one	F setdirection
N splitters.two	F setdisc
F usernode	F setdiscretionary
F userrule	F setexpansion
F vlist	F setfam
F wordboundary	F setfield
F prepend	F setfont
F processranges	F setglue
F processwords	F setglyphdata
F protect_glyph	F setheight
F protect_glyphs	F setkern
F protrusion_skipable	F setlang
F rangedimensions	F setlanguage
F rawprop	F setleader
F reference	F setlink
F rehpack	F setlist
F remove	F setnext
F repackhlist	F setnucleus
F replace	F setoffsets
F reverse	F setoptions
F rightmarginwidth	F setorientation
T rules	F setparproperty
T ruleactions	F setpenalty
F box	F setpost
F draw	F setpre
F fill	F setprev
F mp	F setprop
F stroke	F setreplace
F userrule	F setruledata
F set_attribute	F setscript
F set_components	F setshift

F setsplit	F glue	
F setstate	F glyph	
F setsub	F hlist	
F setsubpre	F list	
F setsubtype	F next	
F setup	F node	
F setsuppre	F vlist	
F setsurround	F whatsit	
F setsynctexfields	T typesetters	
F setunsetattributes	F tohbox	
F setvalue	F tohpack	
F setvisual	F tonodes	
F setvisuals	F toinbox	
F setwhd	F tovpack	
F setwidth	F unprotect_glyph	
F slide	F unprotect_glyphs	
F somepenalty	F unset_attribute	
F somespace	F unsetattribute	
F splitbox	F unsetattributes	
F start_of_par	F untracedslide	
F striprange	F usedlist	
F tail	F uses_font	
F takeattr	F vianodes	
F takebox	F vianuts	
F takelist	F vpack	
F theprop	F write	
F tonode	packlist	function
F tonodes	parcodes	data table
F tonut	penaltycodes	data table
F tosequence	plugindata	table
F toString	F finalizer	
F tracedslide	F initializer	
F traverse	S name	
F traverse_char	T namespace	
F traverse_content	N attribute	
F traverse_glyph	D data	
F traverse_id	F enable	
F traverse_list	F handler	
T traversers	F register	
F boundary	D registered	
F char	D values	
F content	F processor	
F dir	points	function
F disc	pool	table

F baselineskip		repackhlist	function
F cleanup		replace	function
F directliteral		report	function
F glyph		rightmarginwidth	function
F hlist		rulecodes	data table
F latelua		rules	table
F lineskip		D data	
F literal		F define	
F originliteral		F enable	
F register		F handler	
F restore		F userrule	
F rule		save	function
F save		serialize	function
F savepos		serializebox	function
F setmatrix		set_attribute	function
F special		setattr	function
F stock		setattribute	function
F usage		setattributes	function
F vlist		setboth	function
prepend	function	setbox	function
print	function	setboxtonaturalwd	function
processors	table	setchar	function
F contribute_filter		setfield	function
B enabled		setfont	function
F hpack_filter		setleader	function
F post_linebreak_filter		setlink	function
F pre_linebreak_filter		setlist	function
F tracer		setnext	function
properties	table	setprev	function
T data		setunsetAttributees	function
protect_glyph	function	shifts	table
protect_glyphs	function	D data	
protrusion_skippable	function	F define	
pts	function	F enable	
radicalcodes	data table	F handler	
rangedimensions	function	show	function
reference	function	showboxes	function
references	table	showlist	function
N attribute		showsimplelist	function
T done		skipcodes	data table
F handler		slide	function
T stack		snapshots	table
repack	function	F getsamples	
remove	function	F resetsamples	

<code>F takesample</code>		tostring	function
somepenalty	function	totable	function
somespace	function	totree	function
splitbox	function	toutf	function
start_of_par	function	tracers	table
stripdiscretionaries	function	<code>T characters</code>	
stripping	table	<code>F collect</code>	
<code>T glyphs</code>		<code>F equal</code>	
<code>F set</code>		<code>F start</code>	
subtypes	data table	<code>F string</code>	
tail	function	<code>F unicodes</code>	
takeattr	function	<code>T colors</code>	
takebox	function	<code>F reset</code>	
tasks	table	<code>F set</code>	
<code>F actions</code>		<code>F setlist</code>	
<code>F appendaction</code>		<code>F directions</code>	
<code>F disableaction</code>		<code>F fontchar</code>	
<code>F disablegroup</code>		<code>T frequencies</code>	
<code>F enableaction</code>		<code>F register</code>	
<code>F enablegroup</code>		<code>T pool</code>	
<code>F freeze</code>		<code>T nodes</code>	
<code>F freezegroup</code>		<code>F rule</code>	
<code>F new</code>		<code>T nuts</code>	
<code>F prependaction</code>		<code>F rule</code>	
<code>F removeaction</code>		<code>F resetproperties</code>	
<code>F replaceaction</code>		<code>F rule</code>	
<code>F restart</code>		<code>F setlist</code>	
<code>F setaction</code>		<code>F setproperties</code>	
<code>F showactions</code>		<code>F start</code>	
<code>F table</code>		<code>T steppers</code>	
tobasepoints	function	<code>F check</code>	
tocentimeters	function	<code>F codes</code>	
toxiceros	function	<code>F features</code>	
todidots	function	<code>F font</code>	
todimen	function	<code>F glyphs</code>	
toinches	function	<code>F message</code>	
tomillimeters	function	<code>F messages</code>	
tonode	function	<code>F nofsteps</code>	
tonodes	function	<code>F register</code>	
tonut	function	<code>F reset</code>	
topicsas	function	<code>F start</code>	
topoints	function	<code>F stop</code>	
toscaledpoints	function	<code>F stop</code>	
tosequence	function	<code>T transparencies</code>	

F reset		unset_attribute	function
F set		unsetattribute	function
F setlist		unsetattributes	function
traverse	function	usedlist	function
traverse_char	function	usercodes	data table
traverse_glyph	function	uses_font	function
traverse_id	function	vianodes	function
traverse_list	function	vianuts	function
traversers	table	visualizebox	function
F char		visualizers	table
F glyph		F attribute	
F list		T attributes	
F node		F box	
typesetters	table	F handler	
F hbox		F markfonts	
F hpack		F register	
F tohbox		F setfont	
F tohpack		F setlayer	
F tonodes		F setruledglyph	
F to vbox		F setvisual	
F to vpack		vpack	function
F vpack		whatcodes	data table
unprotect_glyph	function	whatsitcodes	data table
unprotect_glyphs	function	write	function

number (context)

	function		
basepoints	function	tobasepoints	function
bytetodecimal	function	tobitstring	function
compactfloat	function	tocentimeters	function
decimaltobyte	function	toxiceros	function
dimenfactors	data table	tocontext	function
formatted	function	todidots	function
formattedfloat	function	todimen	function
idiv	function	toevenhex	function
maxdimen	number	toinches	function
nopts	function	tomillimeters	function
percent	function	tonumberf	function
points	function	tonumberg	function
pts	function	topicsas	function
signed	function	topoints	function
sparseexponent	function	toscaled	function
splitdimen	function	toscaledpoints	function
tol6dot16	function	valid	function

objects (context)

data	table
dimensions	function
found	function
n	number

page	function
reference	function
register	function
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)

<code>__getenv__</code>	function
<code>__setenv__</code>	function
<code>binsuffix</code>	string
<code>binsuffixes</code>	table
<code>clock</code>	function
<code>converttime</code>	function
<code>date</code>	overloaded function
<code>difftime</code>	function
<code>enableansi</code>	function
<code>env</code>	data table
<code>execute</code>	overloaded function
<code>exit</code>	overloaded function
<code>fulltime</code>	function
<code>getcodepage</code>	function
<code>getenv</code>	overloaded function
<code>gettimeofday</code>	function
<code>isleapyear</code>	function
<code>launch</code>	function
<code>libsuffix</code>	string
<code>localtime</code>	function
<code>name</code>	string
<code>newline</code>	string
<code>nofdays</code>	function
<code>now</code>	function
<code>pipeto</code>	function
<code>platform</code>	string
<code>remove</code>	overloaded function

<code>rename</code>	overloaded function
<code>resolvers</code>	table
<code> F bits</code>	
<code>resultof</code>	function
<code>runtime</code>	function
<code>selfarg</code>	table
<code>selfbase</code>	string
<code>selfbin</code>	string
<code>selfcore</code>	string
<code>selfdir</code>	string
<code>selfname</code>	string
<code>selfpath</code>	string
<code>setenv</code>	overloaded function
<code>setexitcode</code>	function
<code>setlocale</code>	overloaded function
<code>sleep</code>	function
<code>time</code>	function
<code>timezone</code>	function
<code>tmpname</code>	function
<code>today</code>	function
<code>type</code>	string
<code>uname</code>	function
<code>uuid</code>	function
<code>validdatetime</code>	function
<code>weekday</code>	function
<code>where</code>	function
<code>which</code>	function

package (basic lua)

config	string	loadlib	function
cpath	string	luapaths	function
extralibpath	function	path	string
extralibpaths	function	poplibpath	function
extralupath	function	popluapath	function
extralupaths	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 sethspace
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

pdf (extra tex)

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

physics (context)

units table

F registerunit

D tables

pngdecode (extra tex)

applyfilter function

expand function

interlace function

splitmask function

tocmyk function

publications (context)

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

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

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

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

regimes (context)

backmapping	data table
cleanup	function
disable	function
enable	function
fromregime	function
list	function

mapping	data table
pop	function
process	function
push	function
toregime	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	loadlua lib	function
findpath	function	loadtexfile	function

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

variableofformatorsuffix	function
wildcardpattern	function

sandbox (context)

disablelibraries	function
disablerunners	function
enable	function
filehandlerone	function
filehandlertwo	function
finalizer	function
getrunner	function
initializer	function
iohandler	function
logcalls	function
logfiles	function
original	function
overload	function

possiblepath	function
redefine	function
register	function
registerbinary	function
registerlibrary	function
registerroot	function
registerrunner	function
report	function
setfilenamelogger	function
setlogger	function
setreporter	function
settrace	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
HASH384	function
HASH512	function
HEX256	function
HEX384	function
HEX512	function
digest256	function
digest384	function
digest512	function

hash256	function
hash384	function
hash512	function
hex256	function
hex384	function
hex512	function
sum256	function
sum384	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	S content-md5
_DATAGRAMSIZE	number	S content-range
_SETSIZE	number	S content-transfer-encoding
_SOCKETINVALID	number	S content-type
bind	function	S cookie
choose	function	S date
connect	function	S diagnostic-code
connect4	function	S dsn-gateway
connect6	function	S etag
dns	table	S expect
F getaddrinfo		S expires
F gethostname		S final-log-id
F getnameinfo		S final-recipient
F tohostname		S from
F toip		S host
gettime	function	S if-match
headers	table	S if-modified-since
T canonic		S if-none-match
S accept		S if-range
S accept-charset		S if-unmodified-since
S accept-encoding		S in-reply-to
S accept-language		S keywords
S accept-ranges		S last-attempt-date
S action		S last-modified
S age		S location
S allow		S max-forwards
S alternate-recipient		S message-id
S arrival-date		S mime-version
S authorization		S original-envelope-id
S bcc		S original-recipient
S cache-control		S pragma
S cc		S proxy-authenticate
S comments		S proxy-authorization
S connection		S range
S content-description		S received
S content-disposition		S received-from-mta
S content-encoding		S references
S content-id		S referer
S content-language		S remote-mta
S content-length		S reply-to
S content-location		S reporting-mta

S resent-bcc
 S resent-cc
 S resent-date
 S resent-from
 S resent-message-id
 S resent-reply-to
 S resent-sender
 S resent-to
 S retry-after
 S return-path
 S sender
 S server
 S smtp-remote-recipient
 S status
 S subject
 S te
 S to
 S trailer
 S transfer-encoding
 S upgrade
 S user-agent
 S vary
 S via
 S warning
 S will-retry-until
 S www-authenticate
 S x-mailer
 F lower
 F normalize
http table
 N TIMEOUT
 S USERAGENT
 F genericform
 F open
 F request
newtry function

protect function
report function
select function
sink function
sinkt table
 F close-when-done
 F default
 F http-chunked
 F keep-open
skip function
sleep function
source function
sourcet table
 F by-length
 F default
 F http-chunked
 F until-closed
tcp function
tcp4 function
tcp6 function
tp table
 N TIMEOUT
 F connect
try function
udp function
udp4 function
udp6 function
url table
 F absolute
 F build
 F build_path
 F escape
 F parse
 F parse_path
 F unescape

sorters (context)

basicsorter	function
comparers	table
F basic	
constants	table
S defaultdigits	
S defaultlanguage	
S defaultmethod	
N digitsmaximum	
N digitsoffset	
N ignoredoffset	
N replacementoffset	
T validmethods	
B ch	
B mc	
B mm	
B pc	

B pm	
B uc	
B zc	
B zm	
definitions	data table
firstofsplit	function
packch	function
packuc	function
replacementlist	function
setlanguage	function
sort	function
splitters	table
F utf	
strip	function
tracers	data table
update	function

statistics (context)

benchmarktimer	function
callbacks	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
getcallbackstate	function
getconstants	function
geterrorlinestate	function
geterrorstate	function
getexpandstate	function
getextrastate	function
getfilestate	function
getfontstate	function
gethalferrorlinestate	function
gethashstate	function
getinputstate	function
getlanguagestate	function
getlookupstate	function
getluastate	function

getmarksstate	function
getneststate	function
getnodestate	function
getparameterstate	function
getpoolstate	function
getreadstate	function
getsavestate	function
getsparsestate	function
getstringstate	function
gettexstate	function
gettokenstate	function
getwarningstate	function
iocodes	table
list	function
resetmessages	function

storage (context)

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

streams (context)

collect	function
disable	function
enable	function
flush	function
initialize	function

push	function
start	function
stop	function
synchronize	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	toboollean	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	utfcharacteratable	function
lower	function	utflength	function
match	function	utfpadd	function
nspaces	function	utfpadding	function

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

structures (context)

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

F touserdata		F reordered	
inserts	table	T result	
D data		F savedlistnumber	
F define		F savedlistprefixednumber	
F getdata		F savedlisttitle	
F getlocation		D sectionblocks	
F getname		F sectionnumber	
F getnumber		F size	
F setlocation		F title	
F setup		D tobesaved	
D stored		F userdata	
itemgroups	table	F uservalue	
lists	table	marks	table
F addto		D data	
F analyze		F define	
B autoreorder		F exists	
D cached		F fetch	
D collected		F fetchallmarks	
F discard		F fetched	
F enhance		F fetchonemark	
T enhancers		F fetchtwomarks	
F filter		F get	
F formulainumber		F number	
F getresult		F relate	
F groupindex		F reset	
F hasnumberdata		F set	
F haspagedata		F show	
F hastitledata		F synchronize	
F iscached		F title	
D kinds		T tracers	
F label		F showtable	
F location		notes	table
D names		F check_spacing	
F number		F checkpagechange	
D ordered		F define	
F page		F doifonsamepageasprevious	
F popnesting		F get	
F prefix		F getdeltapage	
F prefixednumber		F getinternal	
F prefixedpage		F getn	
F process		F getstate	
D pushed		F hascontent	
F pushnesting		F internal	
F realpage		F internalid	

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

- 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

- F analyze
- D collected
- F compare

table

- 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

- 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

table

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

F setsorting

F setsynonym

F settablecell

F settabulatecell

F settagdelimitedsymbol

F settagssentencesymbol

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

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

setsynctexline	function	toks	table
setsynctexmode	function	tonumber	function
setsynctextag	function	toscaled	function
settexmdir	function	tpacatcodes	number
settoks	function	tpbcacodes	number
setuccode	function	tprint	function
sfcode	table	trackers	data table
shipout	function	triggerbuildpage	function
showcontext	function	txtcatcodes	number
skip	table	type	function
sp	function	uccode	table
splitbox	function	uprint	function
sprint	function	useboxresource	function
systemmodes	data table	vrbcacodes	number
takebox	function	write	function
texcatcodes	number		

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

terminal function

write function

write_nl function

token (basic tex)

accessors

F active
F cmd
F cmdchrsc
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_cmdchrsc function
get_cmdname function
get_command function
get_csname function
get_cstoken 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

table

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_luanumber	function	scan_value	function
scan_next	function	scan_word	function
scan_next_char	function	serialize	function
scan_next_expanded	function	set_char	function
scan_real	function	set_integer	function
scan_skip	function	set_lua	function
scan_string	function	set_macro	function
scan_token	function	skip_next	function
scan_token_code	function	skip_next_expanded	function
scan_tokenlist	function	type	function
scan_toks	function	undefine_macro	function

tokens (context)

astable function

bits table

N active
N alignment
N begingroup
N character
N close
N comment
N endgroup
N endoffline
N escape
N ignore
N invalid
N letter
N mathshift
N open
N other
N parameter
N space
N subscript
N superscript
N whitespace

cache table

U NC
U NR
U bf
U color
U colordefalc
U colordefflc
U colordefflt
U colordefrlt
U dofinishreference
U dostarttext
U finishjob
U firstofoneargument
U firstoftwoarguments
U gobbleoneargument
U goto
U iftrue
U input
U loadfoundtypescriptfile

U resetctxscanner
U rlap
U 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	F integerargument
pickup	function	F ischar
popmacro	function	F key
presets	table	F keyword
	T 1 argument	F keywordcs
	T 1 string	F letters
	T 2 arguments	F list
	T 2 strings	F luacardinal
	T 3 arguments	F luainteger
	T 3 strings	F luanumber
	T 4 arguments	F lxmlid
	T 4 strings	F next
	T 5 strings	F nextexpanded
	T 6 strings	F number
	T 7 strings	F optional
	T 8 strings	F peek
pushmacro	function	F peekchar
scanners	table	F peekexpanded
	F argument	F real
	F argumentasis	F scanclose
	F array	F scanopen
	F boolean	F skip
	F box	F skipexpanded
	F bracketed	F string
	F bracketedasis	F table
	F cardinal	F token
	F char	F tokencode
	F cmdchr	F tokenlist
	F cmdchrexplained	F tokens
	F code	F toks
	F conditional	F value
	F count	F vbox
	F csname	F verbatim
	F delimited	F vtop
	F dimen	F whd
	F dimenargument	F word
	F dimension	setinteger function
	F float	setters table
	F glue	F box
	F gluespec	F char
	F gluevalues	F count
	F hash	F dimen
	F hbox	F glue
	F integer	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 scancname
 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 cmdchrexploded
 F code
 F conditional
 F count
 F cname
 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 astable
F luacardinal	T cache
F luainteger	U NC
F luanumber	U NR
F lxmlid	U bf
F next	U color
F nextexpanded	U colordefalc
F number	U colordefflc
F optional	U colordefflt
F peek	U colordefrlt
F peekchar	U dofinishreference
F peekexpanded	U dostarttext
F real	U finishjob
F scanclose	U firstofoneargument
F scanopen	U firstoftwoarguments
F skip	U gobbleoneargument
F skipexpanded	U goto
F string	U iftrue
F table	U input
F token	U loadfoundtypescriptfile
F tokencode	U resetctxscanner
F tokenlist	U rlap
F tokens	U secondoftwoarguments
F toks	U setfalsevalue
F value	U setsectionblock
F vbox	U setupsystem
F verbatim	U startcolumns
F vtop	U starttabulate
F whd	U starttitle
F word	U startxtitle
F scannumber	U stopcolumns
F scanopen	U stoptabulate
F scanoptional	U stoptitle
F scanstring	U stopxtitle
F scantable	U texsetup
F scantokenlist	U xmlw
F scantoks	D commands
F scanvbox	F compile
F scanverbatim	F constant
F scanvtop	T converters
F scanword	S toboolean
F toboolean	S todimen
F todimen	S toglue
T tokens	S tonumber

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

tracers (context)

count	function
cs	function
dimen	function
knownlist	function
lists	table
T context	
T internals	
T scratch	
name	function

primitive	function
printerror	function
printwarning	function
showlines	function
strings	table
S undefined	
toks	function
type	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 replacensp
F replacenspaces

checkers table

F handler
F reset
F set

cleaners table

F handler
F set

digits table

T actions
F handler
F set

directions table

F getfences
F getglobal
F getmethod
F handler

T handlers
F installhandler
F processmath
F set
F setcolor
F setmath
F tomode

firstlines table

T actions
F default
F line
F word
F handler
F set

fontkerns table

F handler

initials table

T actions
F default
F addanchortoline
F addtoline
F calculatedelta
F checkline
F handler
F moveinline
F normalize
F set

injectors table

F check
T list
F mark
F reset
F set
F show

italics table

F enablemath
F enabletext
F forcevariant
F handler
F reset
F set

kerns table

D factors
F handler
F keepligature
D mapping
F set

manipulators table

F apply
F applyspecification
T methods
F Word
F Words
F abbreviatedjournal
F expandedjournal
F lowercase
F stripperperiod
F uppercase
T patterns
U list
U pair
F splitspecification

margins table

F finalhandler
F globalhandler
F localhandler
F save

marksuspects function

paragraphs table

F addanchortoline
F addtoline
F calculatedelta
F checkline
F handler
F moveinline
F normalize
F set

periodkerns table

D factors
F handler
D mapping
F set

processors table

F apply
F register
F reset
F split
F startapply
F stopapply
F stripped
F toString

rubies table

F attach
F check

showsuspects function

spacings table

F define
F handler
D mapping
T numbers
T frenchpunctuation
T characters
S name
N number

F reset

F set

F setup

wrappers table

F handler

xtables table

F cleanup
F construct
F create
F finish_row
F flush
F initialize_construct
F initialize_reflow_height
F initialize_reflow_width
F next_row
F reflow_height
F reflow_width
F set_construct
F set_reflow_height
F set_reflow_width

updaters (context)

apply function

register function

url (context)

addscheme	function
barepath	function
construct	function
decode	function
encode	function
escape	function
filename	function

hashed	function
hasscheme	function
query	function
split	function
toquery	function
unescape	function
unescapeget	function

utf8 (basic lua)

char function
charpattern string
codepoint function

codes function
len 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

lua **table**

F statistics
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
registerescapepline	function	writespace	function
registerescapepattern	function		

xcomplex (extra lua)

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

__tostring function
__unm function
abs function
acos function
acosh function
arg function
asin function
asinh function
atan function
atanh function
conj function
cos function
cosh function
exp function

i function
imag function
log function
new function
pow function
proj function
real function
sin function
sinh function
sqrt function
tan function
tanh function
topair function
tostring function

xdecimal (extra lua)

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

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

xmath (extra lua)

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

xml (context)

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

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

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

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

xzip (extra lua)

adler32 function
compress function
crc32 function

decompress function
expandsize function

zip (extra lua)

archives table
closearchive function

openarchive function
registeredfiles table

zlib (extra lua)

adler32 function
compress function
crc32 function

decompress function
expandsize function