

MP attributes backends **bit32** blobs boolean
buffers builders caches **callback** callbacks
catcodes characters chemistry commands
containers context converters **coroutine**
ctxrunner **debug** dir directives document
documentdata environment **epdf** experiments ffi
figures **file** **fio** floats **font** fonts functions
global graphics **gzip** **img** interactions
interfaces **io** job **lang** languages layouts **lfs**
libraries lmx logs lpdf **lpeg** **ltn12** lua luatex
lxml **math** mathematics **md5** metapost **mime**
moduledata modules mp **mplib** noads **node** nodes
number objects **os** **package** pagebuilders
parametersets **pdf** pdfscanner physics
publications regimes resolvers sandbox scripts
set sio **socket** sorters statistics **status**
storage streams **string** structures **table** **tex**
texconditionals **texconfig** texconstants texifs
texio texitdefined texmodes texsystemmodes
thirddata **token** tokens tracers trackers
typesetters **unicode** url userdata utf8
utilities vf visualizers xml **zip** **zlib**

ConT_EXt MkIV

global (alias: _G)

FFISUPPORTED	function	dofile	function
INITEXMODE	boolean	done	boolean
LUAMAJORVERSION	number	environment	table
LUAMINORVERSION	number	epdf	table
LUAEXCOREVERSION	number	error	function
LUAEXENGINE	string	experiments	table
LUAEXFUNCTIONALITY	number	ffi	table
LUAEXVERSION	number	ffilib	function
LUAVERSION	number	figures	table
MP	table	file	table
_LUAVERSION	number	fio	table
arg	table	floats	table
assert	function	font	table
attributes	table	fonts	table
backends	table	frozen	boolean
bit32	table	functions	table
blobs	table	getmetatable	function
blockrequire	function	getpos	function
boolean	table	getvpos	function
buffers	table	global	table
builders	table	grammar_parsed_text_one_nop	userdata
caches	table	grammar_parsed_text_one_yes	userdata
callback	table	grammar_parsed_text_two_nop	userdata
callbacks	table	grammar_parsed_text_two_yes	userdata
catcodes	table	grammar_unparsed_text_nop	userdata
characters	table	grammar_unparsed_text_yes	userdata
checkimage	function	graphics	table
chemistry	table	gregorian_to_jalali	function
collectgarbage	function	gzip	table
commands	table	img	table
containers	table	inspect	function
context	function	interactions	table
converters	table	interfaces	table
coroutine	table	io	table
ctxrunner	table	ipairs	function
debug	table	jalali_to_gregorian	function
dimen	function	job	table
dir	table	lang	table
directives	table	languages	table
document	table	last	number
documentdata	table	layouts	table

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

userdata
utf
utf8
utilities
v
vf

table
table
table
table
number
table

visualizers
xml
xpcall
zip
zlib

table
table
function
table
table

attributes (context)

applyoverloads function

colorintents table

 N attribute

 D data

 F enable

 F handler

 F register

 D registered

colors table

 N attribute

 F cmyk

 F cmyktogray

 F cmyktorgb

 F colorcomponents

 D counts

 B couple

 F currentmodel

 F currentnamedmodel

 D data

 N default

 F defineintermediatecolor

 F definemultitonecolor

 F defineprocesscolor

 F definesimplegray

 F definespotcolor

 F definetransparency

 F enable

 F filter

 F forcedmodel

 F forcesupport

 F formatcolor

 F formatgray

 F getpagecolormodel

 F gray

 F graytohsv

 F handler

 F hsvtorgb

 F iccprofile

 F isblack

 N main

 S model

 D models

 F mpcolor

 F mpnamedcolor

 F mpoptions

 F namedcolorattributes

 N none

 F popset

 F processcolorcomponents

 F pushset

 F register

 D registered

 F registerspotcolor

 F rgb

 F rgbtocmyk

 F rgbtorgb

 F rgbtohsv

 N selector

 F setlist

 F setmodel

 F setpagecolormodel

 D sets

 F spec

 F spot

 F spotcolorname

 F spotcolorparent

 F spotcolorvalue

 B supported

 F toattributes

 F transparencycomponents

 B triggering

 F usecolors

 D valid

 F value

 D values

 B weightgray

define function

effects table

 N attribute

 D data

 F enable

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

B supported

D values

backends (context)

codeinjections table

F boxresourcedimensions
F registerboxresource
F restoreboxresource

current string

defaults table

T codeinjections
F gethpos
F getmatrix
F getpos
F getvpos
F hasmatrix
T nodeinjections
T registrations
D tables

included table

B context
B date
B id
B metadata
B pdf

install function

nodeinjections table

F restore
F save
F transform

nothing function

pdf table

T codeinjections
F addbookmarks
F attachmentid
F clonefield
F definefield
F definefieldset
F defineviewerlayer
F embedfile
F enabletags
F exportformdata
F getbookmarks
F getdefaultfieldvalue
F getfieldcategory

F getfieldset
F getformatoption
F gethpos
F getmatrix
F getoutputfilename
F getpos
F getpreviewfigure
F getvpos
F hasmatrix
F insertrenderingwindow
F mergebookmarks
F mergereferences
F mergeviewerlayers
F prerollreference
F presetsymbol
F presetsymbollist
F processrendering
F registerdocumentcloseaction
F registerdocumentopenaction
F registeredsymbol
F registerpagecloseaction
F registerpageopenaction
F registersymbol
F setfieldcalculationset
F setfigurealternative
F setfigurecolorspace
F setfiguremask
F setformat
F setformsmethod
F setpagetransition
F setupcanvas
F setupidentity
F setxmpfile
F startlayer
F startunicodetoactualtext
F startunicodetoactualtextdirect
F stoplayer
F stopunicodetoactualtext
F stopunicodetoactualtextdirect
F supportedformats
F unicodetoactualtext

- F useviewerlayer
- F validfield
- F validfieldcategory
- F validfieldset
- S comment
- T nodeinjections
 - F addtags
 - F annotation
 - F attachfile
 - F changestackedlayer
 - F cmykcolor
 - F comment
 - F destination
 - F effect
 - F graycolor
 - F injectbitmap
 - F insertmovie
 - F insertsound
 - F insertswf
 - F insertu3d
 - F knockout
 - F negative
 - F overprint
 - F positive

- F reference
- F rgbcolor
- F spotcolor
- F startlayer
- F startstackedlayer
- F stoplayer
- F stopstackedlayer
- F transparency
- F typesetfield
- T registrations
 - F cmykindexcolor
 - F cmykspotcolor
 - F getspotcolorreference
 - F grayindexcolor
 - F grayspotcolor
 - F rgbindexcolor
 - F rgbspotcolor
 - F spotcolorname
 - F transparency

- T tables

- D vfpspecials

registrations	table
tables	table
timestamp	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	F hassomecontent	
assign	function	F next	
collectcontent	function	F place	
erase	function	F reset	
exists	function	F save	
getcontent	function	prepend	function
getlines	function	raw	function
loadcontent	function	run	function
parallel	table	undent	function
F define			

builders (context)

kernel table

- F hyphenation
- F kerning
- F ligaturing
- F mlist_to_hlist
- T originals
 - F hyphenate
 - F kerning
 - F ligaturing

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

vspacing table

- F analyze
- D categories
- F collapsevbox
- T data
 - D map
 - D skip
 - D snapmethods
- F definesnapmethod
- B fixed
- F pagehandler
- F resetprevdepth
- F setmap
- F setskip
- F snapbox
- F tocategories
- F tocategory
- F vboxhandler

cache (context)

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

callback (basic tex)

find function
list function

register overloaded function

callbacks (context)

freeze	function	B insert_local_par
known	function	B kerning
list	data table	B ligaturing
pop	function	B linebreak_filter
push	function	B mlist_to_hlist
register	function	B open_read_file
report	function	B post_linebreak_filter
supported	table	B pre_dump
B append_to_vlist_filter		B pre_linebreak_filter
B build_page_insert		B pre_output_filter
B buildpage_filter		B process_input_buffer
B call_edit		B process_jobname
B contribute_filter		B process_output_buffer
B define_font		B process_rule
B find_cidmap_file		B read_cidmap_file
B find_data_file		B read_data_file
B find_enc_file		B read_enc_file
B find_font_file		B read_font_file
B find_format_file		B read_map_file
B find_image_file		B read_opentype_file
B find_map_file		B read_pk_file
B find_opentype_file		B read_truetype_file
B find_output_file		B read_type1_file
B find_pk_file		B read_vf_file
B find_read_file		B show_error_hook
B find_truetype_file		B show_error_message
B find_type1_file		B show_lua_error_hook
B find_vf_file		B show_warning_message
B find_write_file		B start_file
B finish_pdffile		B start_page_number
B finish_pdfpage		B start_run
B finish_synctex_callback		B stop_file
B glyph_not_found		B stop_page_number
B glyph_stream_provider		B stop_run
B hpack_filter		B vpack_filter
B hpack_quality		B vpack_quality
B hyphenate		

catcodes (context)

names data table

numbers data table

register function

characters (context)

activeoffset	number	is_spacing	data table
adobename	function	lcchars	data table
bidirectional	data table	lccode	function
blockrange	function	lccodes	data table
blocks	data table	lettered	function
casemap	table	lhash	data table
categories	data table	linebreaks	data table
category	function	lower	function
categorytags	data table	mathlists	data table
classifiers	table	mirrors	table
collapsed	data table	otfscripts	data table
contextname	function	private	table
csletters	data table	ranges	data table
data	data table	registerentities	function
decomposed	data table	remap_hangul_syllable	function
description	function	setactivecatcodes	function
descriptions	data table	setlettercatcodes	function
detailtags	data table	shape	function
directions	table	shaped	function
emoji	table	shash	data table
F compact		shchars	data table
F known		shcodes	data table
F resolve		showstring	function
emojized	function	specialchars	data table
encodes	data table	specials	data table
entities	data table	splits	table
fallbacks	data table	T char	
filters	data table	T compat	
fractions	table	subscripts	table
fromnumber	function	superscripts	table
fschars	data table	synonyms	data table
fscodes	data table	tex	table
getrange	function	D accentmapping	
graphemes	data table	D commandmapping	
hangul	data table	F defineaccents	
initialize	function	F safechar	
is_character	data table	F toutf	
is_command	data table	F toutfpattern	
is_letter	data table	textclasses	table
is_mark	data table	tonumber	function
is_punctuation	data table	ucchars	data table

uccode
uccodes
uhash

function
data table
data table

unicodechar
upper

function
function

chemistry (context)

component	function
define	function
definitions	data table
format	string
inlinechemical	function
instance	string
method	string

molecule	function
moleculeparser	userdata
start	function
stop	function
structures	number
undefine	function

containers (context)

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

verbose

D data

F translate

weekday

table

function

word

words

year

function

function

function

coroutine (basic lua)

create function
isyieldable function
resume function
running function

status function
wrap function
yield function

ctxrunner (context)

load	function	prepfiles	data table
preparedfile	function	resolve	function

debug (basic lua)

debug	function
gethook	function
getinfo	function
getlocal	function
getmetatable	function
getregistry	function
getupvalue	function
getuservalue	function

sethook	function
setlocal	function
setmetatable	function
setupvalue	function
setuservalue	function
traceback	function
upvalueid	function
upvaluejoin	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				

environment (context)

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

epdf (extra tex)

Array	function	Object_Type	function
Attribute	function	PDFRectangle	function
AttributeOwner_Type	function	StructElement_Type	function
Attribute_Type	function	open	overloaded function
Dict	function	openMemStream	function
Object	function	type	function

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	F ofindex	
badname	function	F package	
bases	data table	F print	
bitmapimage	function	F scan	
boxnumber	number	F serialize	
cachepaths	data table	F tonode	
check	function	F totable	
checkers	data table	F types	
converters	data table	F write	
current	function	include	function
defaultdepth	number	includes	data table
defaultheight	number	initialize	function
defaultsearch	boolean	loaded	data table
defaultwidth	number	localpaths	data table
done	function	magics	data table
dummy	function	mergegoodies	function
exists	data table	nofmissing	number
exists	function	nofprocessed	number
formats	data table	order	data table
found	data table	paths	data table
get	function	patterns	data table
getinfo	function	pop	function
getrealpage	function	preferquality	boolean
guess	function	programs	data table
hash	function	push	function
identifiers	data table	registerpattern	function
identify	function	registerresource	function
images	table	registersuffix	function
F boxes		resources	data table
F check		scale	function
F checksize		set	function
F clone		setlookups	function
F copy		setmemstream	function
F immediatewrite		setorder	function
F keys		setpaths	function
F new		suffixes	data table
F node		used	data table

file (basic lua)

addsuffix	function
basename	function
checksum	function
collapsepath	function
copy	function
dirname	function
expandname	function
extname	function
is_qualified_path	function
is_readable	function
is_rootbased_path	function
is_writable	function
isreadable	function
iswritable	function
join	function
joinpath	function
loadchecksum	function
nameonly	function
nametotable	function
needs Updating	function

needsupdating	function
pathpart	function
readdata	function
removesuffix	function
replacesuffix	function
reslash	function
robustname	function
savechecksum	function
savedata	function
size	function
splitbase	function
splitname	function
splitpath	function
strip	function
suffix	function
suffixes	function
suffixesonly	function
suffixonly	function
syncmtimes	function

fio (extra lua)

checkpermission	function	readfixed4	function
getposition	function	readinteger1	function
read2dot14	function	readinteger2	function
readbytes	function	readinteger3	function
readbytetable	function	readinteger4	function
readcardinal1	function	readline	function
readcardinal2	function	recordfilename	function
readcardinal3	function	setposition	function
readcardinal4	function	skipposition	function
readfixed2	function		

floats (context)

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

font (basic tex)

addcharacters	function	id	function
current	function	max	function
define	function	nextid	function
each	function	read_tfm	function
fonts	table	read_vf	function
frozen	function	setexpansion	function
getfont	overloaded function	setfont	function

fonts (context)

analyzers	table	
D features		F currentfonthasfeature
D initializers		D designsizes
D methods		D dontembed
F setstate		F enhanceparameters
D states		T enhancers
B useunicodemarks		T afm
		F apply
checkers	table	F patch
F getmissing		T patches
F missing		F register
F placeholder		F report
cid	table	F register
F getmap		F report
F loadfile		T otf
collections	table	F addfeature
F checkenabled		F apply
F clonevector		F enhance
F define		F patch
T definitions		T patches
F found		F register
F prepare		F report
F process		F register
F registermain		F report
F report		T tfm
F reset		F apply
T vectors		F patch
constructors	table	T patches
F addcharacters		F register
F addcoreunicodes		F report
F aftercopyingcharacters		F register
F applymanipulators		F report
F assignmathparameters		N factor
B autocleanup		T features
F beforecopyingcharacters		D afm
D cache		D otf
B cacheintex		D tfm
F calculatescale		F finalize
F checkedfeatures		F getfeatureaction
F checkedfilename		F getprivate
F cleanupable		T handlers
F collectprocessors		T afm

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

F cff2	F getfactors
F cffcheck	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 getsize
F chainedcontext	F look
F context	F open
F extension	F read2dot14
F ligature	F readbyte
F multiple	F readbytes
F reversechainedcontextsingle	F readbytetable
F single	F readcardinal
F gvar	F readcardinal1
F head	F readcardinal2
T helpers	F readcardinal2le
F axistofactors	F readcardinal3
F cleanname	F readcardinal3le
F getaxisscale	F readcardinal4

F readcardinal4le	T statistics
F readchar	D usedfeatures
F readfixed2	F storepdfdata
F readfixed4	T svg
F readinteger	F filterglyph
F readinteger1	F topdf
F readinteger2	D svgcache
F readinteger2le	B svgenabled
F readinteger3	T tables
F readinteger3le	D baselines
F readinteger4	D features
F readinteger4le	D featuretypes
F readsignedbyte	D languages
F readstring	D scripts
F readtag	N version
F setposition	T pfb
F size	F loadvector
F skip	T tfm
F skiplong	F addtounicode
F skipposition	D features
F skipshort	N maxnestingdepth
F writebyte	N maxnestingsize
F writecardinal2	F reencode
F writecardinal4	F setfeatures
F writestring	N version
F svg	T vf
N tableversion	T combinations
F unifymissing	F combine
F unpack	T combiner
F vhea	D commands
F vmtx	D helpers
F vorg	D math
F vvar	D predefined
F woff2otf	N version
F registerpalette	D whatever
F registerplugin	F hashfeatures
F reorderlookups	F hashinstance
T sbix	T hashmethods
F topdf	F normal
D sbixcache	F virtual
B sbixenabled	F initializefeatures
F scriptandlanguage	T keys
F setdynamics	T characters
F setfeatures	T descriptions

T parameters	S name	
S ascender	S noglyphnames	
S descender	S nostackmath	
S designsize	S psname	
T expansion	S textitalics	
S auto	S virtualized	
S shrink	D loadedfonts	
S step	S namemode	
S stretch	N noffontsloaded	
S extendfactor	N nofsharedfonts	
S factor	N nofsharedhashes	
S hfactor	N nofsharedvectors	
S mathsize	N privateoffset	
T protrusion	D privateslots	
S auto	F readanddefine	
S quad	F registerfeature	
S scaledpoints	F resetfeature	
S scriptpercentage	B resolvevirtualtoo	
S scriptscriptpercentage	F scale	
S size	F scaled	
S slantfactor	F setfactor	
S slantperpoint	F setfeature	
T spacing	F setname	
S extra	B sharefonts	
S shrink	F trytosharefont	
S stretch	N version	
S width	current	function
S units	currentid	function
S vfactor	definers	table
S xheight	F addlookup	
T properties	F analyze	
S autoitalicamount	F applypostprocessors	
S cidinfo	F checkedmode	
S embedding	F checkedscript	
S encodingbytes	F current	
S filename	S defaultlookup	
S finalized	F define	
S fontname	F getspecification	
S format	F internal	
S fullname	F loadfont	
S hasitalics	F makespecification	
S hasmath	T methods	
S mathitalics	F install	
S mode	D variants	

F read		D colorschemes	
F register		T data	
F registered		T dejavu-math	
F registersplit		S author	
F resetnullfont		S comment	
F resolve		S copyright	
T resolvers		B initialized	
F file		T mathematics	
F name		T alternates	
F spec		T dotless	
definetypface	function	S comment	
encodings	table	S feature	
T agl		N value	
D ctxcodes		T kerns	
D extras		S name	
D names		S version	
D synonyms		D designsizes	
D unicodes		D filenames	
D cache		F getcompositions	
F is_known		T list	
D known		F load	
F load		F prepare_features	
F make_unicode_vector		F register	
D math		F registerpostprocessor	
N version		F report	
enhanceid	function	T suffixes	
expansions	data table	handlers	table
formats	data table	hashes	table
getalternate	function	D characters	
getdiscexpansion	function	D classes	
getkern	function	D csnames	
getmultiple	function	D descriptions	
getsubstitution	function	D dynamics	
getters	table	D emwidths	
T alternate		D exheights	
F opentype		D extensibles	
T kern		D features	
F opentype		D identifiers	
F type1		D italics	
T multiple		D lastmathids	
F opentype		D marks	
T substitution		D modes	
F opentype		D originals	
goodies	table	D parameters	

T processes		D category_to_placeholder	
D properties		F format	
D quads		F onetimemessage	
D resources		F register	
T setdynamics		F reportdefinedfonts	
T shapes		F reportusedfeatures	
D spaces			
D spacings		mappings	table
T streams		F addtounicode	
D unicones		F fromunicode16	
D variants		F loadfile	
D xheights		F loadline	
helpers	table	F makenameparser	
F addextraprivate		D overloads	
F addprivate		F reset	
F checkflags		F tounicode	
F checkmerge		F tounicode16	
F checksteps		F tounicode16sequence	
F descriptiontoslot		metapost	table
F dimenfactor		F boundingbox	
F expandglyph		F boxtomp	
F fontpatternhassize		F draw	
F getcoloredglyphs		F fill	
F getdigitwidth		F maxbounds	
F getinstancespec		F output	
F getparameters		F paths	
F getprivatecharornode		F widthline	
F getprivatenode		F zeroline	
F getprivates		mp	table
F getprivateslot		D cache	
F hasprivate		B inline	
F indextoslot		N version	
F name		names	data table
F nametoslot		nulldata	data table
F setdigitwidth		protrusions	data table
F splitfontpattern		readers	table
F tochar		F afm	
infofont	function	F check_lua	
iterators	table	F check_tfm	
F characters		F lua	
F descriptions		F ofm	
F glyphs		F opentype	
loggers	table	F otf	
F add_placeholders		F pfb	
		D sequence	

F tfm		setdisexpansion	function
F ttc		specifiers	table
F ttf		D contextmerged	
F woff		F contextnumber	
reserveid	function	D contextnumbers	
select	table	D contextsetups	
D alternatives		F contexttostring	
F bodyfont		F definecontext	
D data		F mergecontext	
F default		F presetcontext	
D defaults		F registercontext	
F definefallbackfamily		F showcontext	
F definefontfamily		F splitcontext	
F definefontfamilypreset		D synonyms	
D extras		D variants	
F fallback		symbols	table
D fallbacks		T emoji	
F features		F checked	
F filefallback		F resolved	
F fontdata		F uselibrary	
F fontfallback		tables	table
F fontsynonym		D data	
F goodies		F savefont	
F mathfallback		F saveoriginal	
D methods		tracers	table
D presets		treatments	table
F registerfallback		F applyfixes	
F registerfiles		D data	
F registerfontalternative		S filename	
F registerfontfamily		F ignoredfile	
F textfallback		F report	
F typeface		F trace	
F typescript		typefaces	table
F userdata			

functions (context)

dummy function

graphics (context)

backgrounds table

F fetchmultipar

F pair

F path

F point

gzip (extra lua)

close function
lines function
load function

open function
save function
suffix function

img (basic tex)

boxes	function	ofindex	function
check	function	package	function
checksize	function	print	function
clone	function	scan	function
copy	function	serialize	function
immediatewrite	function	tonode	function
keys	function	totable	function
new	function	types	function
node	function	write	function

interactions (context)

attachments data table

fields table

- F clone
- F define
- F defineset
- F insert

general table

- F getidentity
- F setupidentity

help table

- F collect
- F reference
- F register

javascripts table

- F addtopreamble
- F code
- D codes
- F flushpreambles

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

linkedLists data table

pages table

- F setpagetransition
- F setupcanvas

references table

- F setcloseddocument
- F setclosepage
- F setopendocument
- F setopenpage

renderings data table

soundclips data table

interfaces (context)

addvalidkeys	function
cachedsetups	data table
cachesetup	function
checkedspecification	function
complete	data table
constants	data table
corenamespaces	data table
currentinterface	string
currentresponse	string
definecommand	function
defined	function
doifelsemessage	function
elements	data table
formats	data table
getcheckedparameters	function
getmessage	function
getnamespace	function
getsetupstring	function
hashedsetups	data table
implement	function
interfacedcommand	function
interfaces	table
invalidkey	function
message	function
namespaces	table

F define

F list	
registernamespace	function
scanners	data table
setconstant	function
setcount	function
setdimen	function
setelement	function
setformat	function
setmacro	function
setmessage	function
setmessages	function
settranslation	function
setupstrings	data table
setuserinterface	function
setvalidkeys	function
setvariable	function
showmessage	function
storedscanners	data table
strings	table
syntax	data table
tolist	function
translations	data table
usednamespaces	data table
variables	data table
writestatus	function

io (basic lua)

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

job (context)

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

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

lang (basic tex)

clean	function
clear_hyphenation	function
clear_patterns	function
exceptions	function
gethjcode	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
expand	function	logger	table
flatten	function	F report	
frequencies	table	nofflatten	function
F averagecharwidth		numbers	data table
F getdata		postexhyphenchar	function
getdata	function	posthyphenchar	function
getnumber	function	preexhyphenchar	function
hjcounts	table	prehyphenchar	function
hyphenate	function	registered	data table
hyphenators	table	replacements	table
T dictionaries		F add	
D featuresets		F addlist	
F handler		F handler	
T methods		F set	
F expanded		serializediscretionary	function
B none		setexceptions	function
F original		setsynonym	function
F tex		showdiscretionaries	function
F traditional		unload	function
F popmethod		urls	table
F pushmethod		D characters	
F setmethod		N lefthyphenmin	
F setup		D mapping	
F showhyphenationtrace		B packslashes	
T traditional		N righthyphenmin	
F definefeatures		F setcharacters	
F gettrace		version	number
F hyphenate		visualizediscretionaries	function
F injecthyphens		words	table
F installmethod		F check	
F lasttrace		T data	
F loadpatterns		F disable	
F registerexception		F enable	

T enablers

F load

B enables

T methods

F found

N threshold

layouts (context)

status	table	F leftorrightpageaction
	F isleftpage	

lfs (extra lua)

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

libraries (context)

basiclua data table

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

lpdf (context)

action	function	escaped	function
adddocumentcolorspace	function	finalizeddocument	function
adddocumenttextgstate	function	finalizepage	function
adddocumentpattern	function	finishtransparencycode	function
adddocumentshade	function	flushobject	function
addtocatalog	function	flushstreamfileobject	function
addtoinfo	function	flushstreamobject	function
addtonames	function	formats	data table
addtopageattributes	function	frompdfdoc	function
addtopageresources	function	fromsixteen	function
addtopagesattributes	function	getcompression	function
addxmpinfo	function	gethpos	function
annotationspecification	function	getmatrix	function
array	function	getpos	function
boolean	function	getversion	function
border	function	getvpos	function
checkedkey	function	graycode	function
checkedvalue	function	hasmatrix	function
circularshade	function	id	function
cmykcode	function	injectxmpinfo	function
collectedresources	function	insertxmpinfo	function
color	function	layerreference	function
colorspace	function	limited	function
colorspaceconstants	data table	linearshade	function
colorspec	function	majorversion	function
colorvalue	function	minorversion	function
colorvalues	function	nametree	function
compresslevel	function	null	function
constant	function	number	function
delayedobject	function	objectcompresslevel	function
destinationspecification	function	pagereference	function
dictionary	function	patternstream	function
docstring	function	pdfcolor	function
epdf	table	pdftimestamp	function
F contenttotext		permitdetail	function
F expand		protectresources	boolean
F expanded		rectangle	function
F getpagecontent		reference	function
F getstructure		registerannotation	function
F load		registerdestination	function
F unload		registerdocumentfinalizer	function

registerpagefinalizer	function	string	function
registerpattern	function	timestamp	function
reserveobject	function	toeight	function
rgbcode	function	topdfdoc	function
rotationcm	function	tosixteen	function
setcompression	function	transform	function
setdates	function	transparency	function
settime	function	transparencycode	function
settrailerid	function	transparencygroups	table
setversion	function	B none	
shareobject	function	transparencyvalue	function
shareobjectreference	function	unicode	function
spotcode	function	verbose	function
stream	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
counter	function	utfchartabletopattern	function
endstripper	function	version	function
finder	function		

ltn12 (extra lua)

BLOCKSIZE number

filter table

 F chain

 F cycle

pump table

 F all

 F step

sink table

 F chain

 F error

 F file

 F null

 F simplify

 F table

source table

 F cat

 F chain

 F empty

 F error

 F file

 F rewind

 F simplify

 F string

lua (basic tex)

bytecode	table	F reset	
bytedata	data table	F resolvestring	
bytedone	table	F resolving	
B page-cst		mask	string
collectgarbage	function	messages	data table
delay	function	name	table
finalize	function	newtable	function
firstbytecode	number	numbers	data table
flush	function	registercode	function
flushdelayed	function	registeredcodes	function
get_functions_table	function	registerfinalizer	function
getbytecode	function	registername	function
getluaname	function	setbytecode	function
lastbytecode	number	setluaname	function
macros	table	startupfile	string
B enabled		version	string

luatex (context)

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

lxml (context)

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

resetsetup	function
resolvedentity	function
root	function
save	function
serialize	function
setaction	function
setcdata	function
setcommandtonone	function
setcommandtotext	function
setsetup	function
snippet	function
sorters	table
F add	
F compare	
F flush	
F reset	
F show	
F sort	

splitid	function
startraw	function
startunesaped	function
stopraw	function
stopunesaped	function
store	function
strip	function
stripped	function
tag	function
text	function
tobuffer	function
tofile	function
toparameters	function
toverbatim	function
verbatim	function
withindex	function
xmltexhandler	data table

math (basic lua)

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

mathematics (context)

addfallbacks	function	mapremap	data table
alphabets	data table	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
crypt	function
dec	function
decrypt	function
exor	function

hex	function
sum	function
sumHEXA	overloaded function
sumhexa	overloaded function

metapost (context)

analyzeplugins	function	getstatistics	function
checkformat	function	gettext	function
checktexts	function	graphic	function
collapse	boolean	graphic_base_pass	function
colorinitializer	function	initializescriptrunner	function
comment	function	instance	function
convert	function	intermediate	table
defaultformat	string	T actions	
defaultinstance	string	F makempy	
defaultmethod	string	lastlog	string
directrun	function	load	function
escaped	function	makempy	table
exectime	table	N nofconverted	
extensiondata	data table	F processgraphics	
filterclippath	function	F registerfile	
flush	function	maketext	function
flushers	table	metafun	table
T pdf		F interpolate	
F comment		F topath	
F flushfigure		method	number
F startfigure		mptopdf	table
F stopfigure		F convertmpstopdf	
F textfigure		N nofconverted	
flushliteral	function	n	number
flushnormalpath	function	nvformat	function
flushreset	function	optimize	boolean
fonts	table	parse	function
F define		pdfliterals	function
T flusher		pluginactions	function
F flushfigure		popvariable	function
F startfigure		popvariables	function
F stopfigure		process	function
N instances		processplugins	function
F process		processspecial	function
format	function	properties	table
format_number	function	pushvariable	function
format_string	function	pushvariables	function
formatnumber	function	quickanddirty	function
getclippath	function	reducetogray	boolean
getextensions	function	reporterror	function
getjobdata	function	reset	function

resetlastlog	function	F get	
resetplugins	function	F reset	
runscript	function	F set	
scripterror	function	F setfrombuffer	
setextensions	function	texerrors	boolean
setoutercolor	function	texexp	function
settext	function	texttextsdata	function
setvariable	function	theclippath	function
showlog	boolean	tographic	function
simple	function	totable	function
startgraphic	function	unload	function
stopgraphic	function	untagvariable	function
svformat	function	variables	table
tex	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

stuff function

unb64 function

unqp function

wrap function

wrapt table

F base64

F default

F quoted-printable

F text

wrp function

mp (context)

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

F load

defaultcolormodel	function	positionbox	function
dimension	function	positioncurve	function
disposehash	function	positionpage	function
disposestore	function	positionpath	function
finish_saving_data	function	positionpxy	function
format	function	positionregion	function
formatted	function	positionwhd	function
fprint	function	positionxy	function
fromstore	function	prefix	function
get	table	print	function
F boolean		quadruple	function
F number		quoted	function
F numeric		report	function
F string		save_data	function
get_outline_text	function	setcount	function
getcount	function	setdimen	function
getdimen	function	settoks	function
gettoks	function	size	function
graphformat	function	start_saving_data	function
inhash	function	stop_saving_data	function
integer	function	systemmode	function
isarray	function	tb_dimensions	function
mode	function	texstr	function
n	function	texvar	function
newhash	function	tohash	function
newstore	function	tostore	function
numeric	function	triplet	function
pair	function	tt_dimensions	function
path	function	tt_initialize	function
positionanchor	function	vprint	function

mplib (extra tex)

fields	function	get_numeric	function
finder	function	get_string	function
finders	table	new	overloaded function
F file		pen_info	function
F mpstemplate		preprocessed	function
get_boolean	function	version	function
get_number	function		

noads (context)

handlers	table		F render
F align			F resize
F alternates			F showtree
F autofences			F tags
F classes			F unscript
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		processouter	function
F relocate			

node (basic tex)

check_discretionaries	function	F getkern
check_discretionary	function	F getlang
copy	function	F getleader
copy_list	function	F getlist
count	function	F getnext
current_attr	function	F getnucleus
dimensions	function	F getoffsets
direct	table	F getpenalty
F check_discretionaries		F getprev
F check_discretionary		F getproperty
F copy		F getshift
F copy_list		F getsub
F count		F getsubtype
F current_attr		F getsup
F dimensions		F getwhd
F effective_glue		F getwidth
F end_of_math		F has_attribute
F find_attribute		F has_field
F first_glyph		F has_glyph
F flatten_discretionaries		F hpack
F flush_list		F insert_after
F flush_node		F insert_before
F flush_properties_table		F is_char
F free		F is_direct
F get_attribute		F is_glyph
F get_properties_table		F is_node
F get_synctex_fields		F is_zero_glue
F getattributelist		F kerning
F getboth		F last_node
F getbox		F length
F getchar		F ligaturing
F getcomponents		F new
F getdepth		F protect_glyph
F getdir		F protect_glyphs
F getdisc		F protrusion_skippable
F getfam		F rangedimensions
F getfield		F remove
F getfont		F set_attribute
F getglue		F set_properties_mode
F getheight		F set_synctex_fields
F getid		F setattributelist

F setboth	F write	
F setbox	effective_glue	function
F setchar	end_of_math	function
F setcomponents	family_font	function
F setdepth	fields	function
F setdir	find_attribute	function
F setdisc	first_glyph	function
F setfam	fix_node_lists	function
F setfield	flatten_discretionaries	function
F setfont	flush_list	function
F setglue	flush_node	function
F setheight	flush_properties_table	function
F setkern	free	function
F setlang	get_attribute	function
F setleader	get_properties_table	function
F setlink	getboth	function
F setlist	getchar	function
F setnext	getdisc	function
F setnucleus	getfield	function
F setoffsets	getfont	function
F setpenalty	getglue	function
F setprev	getid	function
F setproperty	getleader	function
F setshift	getlist	function
F setsplit	getnext	function
F setsub	getprev	function
F setsubtype	getproperty	function
F setup	getsubtype	function
F setwhd	getwhd	function
F setwidth	has_attribute	function
F slide	has_field	function
F tail	has_glyph	function
F todirect	hpack	function
F tonode	id	function
F tostring	insert_after	function
F traverse	insert_before	function
F traverse_char	is_char	function
F traverse_id	is_glyph	function
F unprotect_glyph	is_node	function
F unprotect_glyphs	is_zero_glue	function
F unset_attribute	kerning	function
F usedlist	last_node	function
F uses_font	length	function
F vpack	ligaturing	function

mlist_to_hlist	function	subtypes	function
new	function	tail	function
next	function	tostring	function
prev	function	traverse	function
protect_glyph	function	traverse_char	function
protect_glyphs	function	traverse_id	function
protrusion_skippable	function	type	function
rangedimensions	function	types	function
remove	function	unprotect_glyph	function
set_attribute	function	unprotect_glyphs	function
set_properties_mode	function	unset_attribute	function
setfield	function	usedlist	function
setglue	function	uses_font	function
setproperty	function	vpack	function
setwhd	function	whatsits	function
slide	function	write	function
subtype	function		

nodes (context)

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

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

mlist_to_hlist

new

noadcodes

noadoptoptions

N axis

N exact

N left

N middle

N no_axis

N right

N set

N unused_1

N unused_2

nodecodes

nopts

nuts

F append

F apply

F applyvisuals

F check_discretionaries

F concat

F copy

F copy_list

F copy_no_components

F copy_node

F copy_only_glyphs

F copy_properties

F copyvisual

F count

F count_components

F countall

F current_attr

F delete

F dimensions

F effective_glue

F end_of_math

F find_attribute

F first_glyph

F firstcharacter

F firstcharinbox

F firststglyph

F flush

F flush_list

F flush_node

function

function

data table

table

data table

function

table

F free

F fullhpack

F get_components

F get_synctex_fields

F getattr

F getattribute

F getattributelist

F getattrlist

F getboth

F getbox

F getboxglue

F getchar

F getcomponents

F getdepth

F getdir

F getdisc

F getdiscretionary

F getfam

F getfield

F getfont

F getglue

F getheight

F getid

F getkern

F getlang

F getlanguage

F getleader

F getlist

F getnext

F getnucleus

F getoffsets

F getpenalty

F getprev

F getprop

F getshift

F getsub

F getsubtype

F getsup

F getsurround

F getwhd

F getwidth

F has_attribute

F has_field

F has_glyph

F hpack	F lateluafunction
F insert_after	F leader
F insert_before	F leftmarginkern
F insert_list_after	F leftskip
F is_char	F lineskip
F is_direct	F mathchar
F is_display_math	F mathtextchar
F is_glyph	F negatedglue
F is_node	F noad
F is_nut	F pdfannotation
F is_zero_glue	F pdfdestination
F ischar	F pdfdirectliteral
F isglyph	F pdfliteral
F kerning	F pdforiginliteral
F last_node	F pdfpageliteral
F leftmarginwidth	F pdfrawliteral
F length	F pdfrestore
F ligaturing	F pdfsave
F link	F pdfsetmatrix
F linked	F penalty
F locate	F radical
F mlist_to_hlist	F register
F nestedtracedslide	F rightmarginkern
F new	F rightskip
T pool	F rule
F accent	F shrink
F baselineskip	F special
F boundary	F stretch
F choice	F subbox
F cleanup	F submlist
F delim	F temp
F delimiter	F textdir
F disc	F usage
F emptyrule	F userattributes
F fence	T usersids
F fontkern	N margins.inline
F fraction	N property
F glue	N splitters.one
F gluespec	N splitters.two
F glyph	F userlist
F hlist	F userlua
F italicckern	F usernumber
F kern	F userrule
F latelua	F userstring

F usertokens	F setlist
F vlist	F setnext
F wordboundary	F setnucleus
F prepend	F setoffsets
F protect_glyph	F setpenalty
F protect_glyphs	F setprev
F protrusion_skipable	F setprop
F rangedimensions	F setshift
F rawprop	F setsplit
F reference	F setsub
F rehpick	F setsubtype
F remove	F setsup
F repackhlist	F setsurround
F replace	F setunsetattributes
F rightmarginwidth	F setvisual
T rules	F setvisuals
F userrule	F setwhd
F set_attribute	F setwidth
F set_components	F slide
F set_synctex_fields	F somepenalty
F setattr	F somespace
F setattribute	F splitbox
F setattributelist	F tail
F setattributes	F take_components
F setattrlist	F takeattr
F setboth	F takebox
F setbox	F takelist
F setboxglue	F theprop
F setchar	F tonode
F setcomponents	F tonodes
F setdepth	F tonut
F setdir	F tosequence
F setdisc	F toString
F setdiscretionary	F tracedslide
F setfam	F traverse
F setfield	F traverse_char
F setfont	F traverse_id
F setglue	T typesetters
F setheight	F tohbox
F setkern	F tohpack
F setlang	F tonodes
F setlanguage	F to vbox
F setleader	F to vpack
F setlink	F unprotect_glyph

F unprotect_glyphs		F pdfsetmatrix	
F unset_attribute		F register	
F unsetattribute		F rule	
F unsetattributes		F special	
F untracedslide		F usage	
F use_components		F usernumber	
F usedlist		F vlist	
F uses_font		prepend	function
F vianodes		print	function
F vianuts		processors	table
F vpack		F contribute_filter	
F write		B enabled	
packlist	function	F hpack_filter	
pardir_is_equal	data table	F post_linebreak_filter	
pardir_is_opposite	data table	F pre_linebreak_filter	
pardir_is_parallel	data table	F tracer	
partextdir_is_equal	data table	processranges	function
penaltycodes	data table	processwords	function
plugindata	table	properties	table
F finalizer		T actions	
F initializer		F delayed	
S name		F fdelayed	
T namespace		F immediate	
N attribute		F attach	
D data		T data	
F enable		F delayed	
F handler		protect_glyph	function
F register		protect_glyphs	function
D registered		protrusion_skippable	function
D values		pts	function
F processor		radicalcodes	data table
points	function	rangedimensions	function
pool	table	reference	function
F baselineskip		references	table
F cleanup		N attribute	
F glyph		T done	
F hlist		F handler	
F kern		T stack	
F latelua		reheapack	function
F lineskip		remove	function
F pdfdirectliteral		repackhlist	function
F pdforiginliteral		replace	function
F pdfrestore		report	function
F pdfsave		rightmarginwidth	function

rulecodes	data table	F getparameters	
rules	table	F getsamples	
D data		F resetsamples	
F define		F takesample	
F enable		somepenalty	function
F handler		somespace	function
T ruleactions		splitbox	function
F box		stripdiscretionaries	function
F draw		stripping	table
F fill		T glyphs	
F mp		F set	
F stroke		striprange	function
F userrule		tail	function
save	function	takeattr	function
serialize	function	takebox	function
serializebox	function	tasks	table
set_attribute	function	F actions	
setattr	function	F appendaction	
setattribute	function	F disableaction	
setattributes	function	F disablegroup	
setboth	function	F enableaction	
setbox	function	F enablegroup	
setboxtonaturalwd	function	F freeze	
setfield	function	F freezegroup	
setglue	function	F new	
setlink	function	F prependaction	
setlist	function	F removeaction	
setnext	function	F replaceaction	
setprev	function	F restart	
setunsetattributes	function	F setaction	
setwhd	function	F showactions	
shifts	table	F table	
D data		texmdir_is_equal	data table
F define		texmdir_is_is	data table
F enable		texmdir_is_opposite	data table
F handler		texmdir_is_parallel	data table
show	function	tobasepoints	function
showboxes	function	tocentimeters	function
showcodes	function	tociceros	function
showlist	function	todidots	function
showsimplelist	function	todimen	function
skipcodes	data table	toinches	function
slide	function	tomillimeters	function
snapshots	table	tonewciceros	function

tonewdidots	function	F nofsteps	
tonode	function	F register	
tonodes	function	F reset	
tonut	function	F start	
topicas	function	F stop	
topoints	function	F stop	
toscaledpoints	function	T transparencies	
tosequence	function	F reset	
tostring	function	F set	
totable	function	F setlist	
totree	function	traverse	function
toutf	function	traverse_char	function
tracers	table	traverse_id	function
		typesetters	table
T characters		F hbox	
F collect		F hpack	
F equal		F tohbox	
F start		F tohpack	
F string		F tonodes	
F unicodes		F tovbox	
T colors		F tovpack	
F reset		F vpack	
F set		unprotect_glyph	function
F setlist		unprotect_glyphs	function
F fontchar		unset_attribute	function
T frequencies		unsetattribute	function
F register		unsetattributes	function
T pool		usedlist	function
T nodes		usercodes	data table
F rule		vianodes	function
T nuts		vianuts	function
F rule		visualizebox	function
F resetproperties		visualizers	table
F rule		F attribute	
F setlist		T attributes	
F setproperties		F box	
F start		F handler	
T steppers		F markfonts	
F check		F setfont	
F codes		F setlayer	
F features		F setruledglyph	
F font		F setvisual	
F glyphs		vpack	function
F message		whatcodes	data table
F messages			

whatsitcodes
write

data table
function

number (context)

	function
basepoints	function
bytetodecimal	function
compactfloat	function
decimaltobyte	function
dimenfactors	data table
formatted	function
formattedfloat	function
maxdimen	number
nopts	function
percent	function
points	function
pts	function
signed	function
sparseexponent	function
splitdimen	function
tobasepoints	function
tobitstring	function

tocentimeters	function
tociceros	function
tocontext	function
todidots	function
todimen	function
toevenhex	function
toinches	function
tomillimeters	function
tonewciceros	function
tonewdidots	function
tonumberf	function
tonumberg	function
topicas	function
topoints	function
toscaled	function
toscaledpoints	function
valid	function

objects (context)

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

os (basic lua)

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

package (basic lua)

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

pagebuilders (context)

columnsets table

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

- F sethsize
- F 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)

disablecommand	function	hasmatrix	function
fontname	function	immediateobj	function
fontobjnum	function	mapfile	function
fontsize	function	mapline	function
getcatalog	function	maxobjnum	function
getcompresslevel	function	newcolorstack	function
getcreationdate	function	obj	function
getdecimaldigits	function	objtype	function
getdestmargin	function	pageref	function
getgentounicode	function	print	function
gethpos	function	refobj	function
getignoreunknownimages	function	registerannot	overloaded function
getimageresolution	function	reserveobj	function
getinclusionerrorlevel	function	setcatalog	overloaded function
getinfo	function	setcompresslevel	function
getlastannot	function	setdecimaldigits	function
getlastlink	function	setdestmargin	function
getlastobj	function	setfontattributes	function
getlinkmargin	function	setgentounicode	function
getmajorversion	function	setignoreunknownimages	function
getmatrix	function	setimageresolution	function
getminorversion	function	setinclusionerrorlevel	function
getnames	function	setinfo	overloaded function
getobjcompresslevel	function	setlinkmargin	function
getomitcidset	function	setmajorversion	function
getorigin	function	setminorversion	function
getpageattributes	function	setnames	overloaded function
getpageresources	function	setobjcompresslevel	function
getpagesattributes	function	setomitcidset	function
getpkresolution	function	setorigin	function
getpos	function	setpageattributes	overloaded function
getretval	function	setpageresources	overloaded function
getsuppressoptionalinfo	function	setpagesattributes	overloaded function
getthreadmargin	function	setpkresolution	function
gettrailer	function	setsuppressoptionalinfo	function
gettrailerid	function	setthreadmargin	function
getversion	function	settrailer	overloaded function
getvpos	function	settrailerid	overloaded function
getxformattributes	function	setxformattributes	function
getxformmargin	function	setxformmargin	function
getxformresources	function		

setxformresources

function

xformname

function

pdfscanner (context)

scan function

physics (context)

units table

F registerunit

D tables

publications (context)

addtexentry	function	S author
analyze	function	T categories
anywhere	function	T article
authorcache	data table	S category
authorcollapsers	data table	T extra
authorhashers	table	T fields
F invertedshort		S author
F normal		S editor
F normalinverted		S journal
F normalshort		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
converttoxml	function	T sets
currentspecification	table	T author

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	enhancers	table
S author	F details	
S institution	F order	
S organization	F suffixes	
S subtitle	finder	function
S title	firstofrange	function
S year	found	function
T optional	get	function
T required	getcasted	function
T sets	getdetail	function
T authors	getdirect	function
T virtual	getfaster	function
S comment	getfield	function
S copyright	getfuzzy	function
T fields	getindex	function
S name	inspectors	data table
T types	journals	table
S author	F abbreviated	
S editor	F add	
S keywords	F expanded	
S number	F load	
S page	F save	
S pages	lastofrange	function
S volume	lists	table

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		refman_to_btx	function
F dataset		resolvedname	function
F force		save	function
F global		search	function
F local		setcategory	function
F nofregeistered		setspecification	function
F prepareentries		singularorplural	function
F register		sortedentries	function
F sameasprevious		sortmethods	table
T sorters		T authoryear	
F cite		T sequence	
F dataset		specifications	table
F default		T default	
F index		S author	
F list		S comment	
F reference		S copyright	
F short		S name	
F used		S version	
F uservariable		D virtual	
listvariants	table	splitauthor	function
F default		splitoneauthor	function
F index		statistics	table
F num		N nofbytes	
F short		N nofdatasets	
F tag		N nofdefinitions	
load	function	N nofshortcuts	
loadbibdata	function	tables	table
loaddefinitionfile	function	D implicits	
loaders	table	D origins	
F bbl		D privates	
F bib		D sets	
F buffer		D specials	
F endnote		D types	
F json		D virtuals	
F lua		tags	function
F refman		tracers	table
F registercleaner		F showdatasetauthors	

F showdatasetcompleteness		F string	
F showdatasetfields		usedataset	function
F showentry		usedentries	function
F showfields		writers	table
F showhashedauthors		F author	
F showtables		F keyword	
F showvariants		F pagenumber	
typesetters	table	F range	
F author			

regimes (context)

cleanup	function
disable	function
enable	function
fromregime	function
pop	function

process	function
push	function
toregime	function
translate	function

resolvers (context)

allprefixes	function	findpath	function
appendhash	function	findtexfile	function
automount	function	findwildcardfile	function
automounted	table	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
criticalvars	data table	getfilehashes	function
dangerous	data table	gethashes	function
datastate	function	getownpath	function
defaultsuffixes	table	getreadfilename	function
dowithfilesandreport	function	hashers	data table
dowithfilesintree	function	homedir	string
dowithpath	function	initialized	function
dowithvariable	function	inputstack	table
env	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	load	function
finders	data table	loadbinfile	function
findfile	function	loaders	data table
findfiles	function	loadlua lib	function
findgivenfile	function	loadtexfile	function
findgivenfiles	function	loadtime	function

locateformat	function	savers	data table
locators	data table	scandata	function
luacnffallback	string	scanfiles	function
luacnfname	string	schemes	table
luacnfspec	string	T cleaners	
luacnfstate	string	F md5	
macros	table	F none	
F convertfile		F strip	
F decodecomment		F cleanname	
F enablecomment		F fetchstring	
F encodecomment		F fetchtable	
F preprocessed		F install	
F processmk		setdynamic	function
F processmkvi		setenv	function
F version		setmemstream	function
maxreadlevel	number	showpath	function
methodhandler	function	simplescanfiles	function
openbinfile	function	splitconfigurationpath	function
openers	data table	splitexpansions	function
openfile	function	splitmethod	function
opentexfile	function	splitpath	function
ownpath	string	stackpath	function
popextrapath	function	starttiming	function
poppath	function	stoptiming	function
prefixes	data table	suffixes	data table
prependhash	function	suffixmap	data table
pushextrapath	function	suffixofformat	function
pushpath	function	texdatablob	function
registerextrapath	function	toppath	function
registerfile	function	unexpandedpath	function
registerfilehash	function	unexpandedpathlist	function
registerintrees	function	unresolve	function
registermethod	function	updaterelations	function
registerzipfile	function	updatescript	function
relations	data table	uselibrary	function
renew	function	usertypes	data table
renewcache	function	usezipfile	function
repath	function	validatedpath	function
reset	function	variable	function
resetextrapaths	function	variableofformat	function
resetmemstream	function	variableofformatorsuffix	function
resetresolve	function	wildcardpattern	function
resolve	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	N inter_char_stretch_factor
F disable		N inter_word_stretch_factor
F enable		handlers
F handler		data table
categorytonumber	data table	hash
colors	data table	table
decomposehangul	function	injectors
defaults	table	data table
N inter_char_half_shrink_factor		installdataset
N inter_char_half_stretch_factor		function
N inter_char_hangul_penalty		installmethod
N inter_char_quarter_shrink_factor		function
N inter_char_quarter_stretch_factor		numbertocategory
N inter_char_shrink_factor		data table
		numbertodataset
		data table
		numbertohandler
		data table
		reset
		function
		set
		function
		splitters
		data table

set (context)

contains function

create function

tolist function

tonumber function

totable function

sio (context)

read2dot14	function
readbytes	function
readbytetable	function
readcardinal1	function
readcardinal2	function
readcardinal3	function
readcardinal4	function

readfixed2	function
readfixed4	function
readinteger1	function
readinteger2	function
readinteger3	function
readinteger4	function

socket (extra lua)

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

S proxy-authenticate
 S proxy-authorization
 S range
 S received
 S received-from-mta
 S references
 S referer
 S remote-mta
 S reply-to
 S reporting-mta
 S resent-bcc
 S resent-cc
 S resent-date
 S resent-from
 S resent-message-id
 S resent-reply-to
 S resent-sender
 S resent-to
 S retry-after
 S return-path
 S sender
 S server
 S smtp-remote-recipient
 S status
 S subject
 S te
 S to
 S trailer
 S transfer-encoding
 S upgrade
 S user-agent
 S vary
 S via
 S warning
 S will-retry-until
 S www-authenticate
 S x-mailer

http table

N TIMEOUT
 S USERAGENT
 F genericform
 F open
 F request

newtry function

protect function
select function
sink function
sinkt table

F close-when-done
 F default
 F http-chunked
 F keep-open

skip function
sleep function
smtp table

S DOMAIN
 N PORT
 S SERVER
 N TIMEOUT
 S ZONE
 F message
 F open
 F send

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 digitmaximum

 N digitoffset

 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

setlanguage function

sort function

splitters table

 F utf

strip function

tracers data table

update function

statistics (context)

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

status (basic tex)

list function

resetmessages function

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

structures (context)

allocation	function	F previous
blocks	table	F raw
D collected		F record
F define		F reset
F print		F restart
F save		F restore
F select		F save
F setstate		F set
D states		F setlevel
D tobesaved		F setoffset
bookmarks	table	F setown
T extras		F setstate
F get		F setvalue
F mergesections		T specials
F register		F userpage
F reset		F subs
F tosections		D tobesaved
F finalize		F value
F flatten		F way
F installhandler		currentsectionnumber function
F merge		descriptions table
S method		documents table
F overload		D data
F place		F initialize
F register		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 next		F touserdata
F prev		inserts table

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 tobесaved	
D stored		F userdata	
		F uservalue	
itemgroups	table	marks	table
lists	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 reordered		F listindex	
T result		T numbers	

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

pages

F analyze
D collected
F in_body
F is_odd
N nopages
F number
F on_right
F save
D tobesaved

table

references

F analyze
F checkedfile
F checkedfileorurl
F checkedprogram
F checkedrealpage
F checkedurl
D collected
U componentsplitter
F currentmetadata
F currentorder
D currentset
F define
D defined
D derived
F enableinteraction
F enhance
D executers
F expandcurrent
F export
T files
T data
F define
F found
F get
F filter

F filterdefault
D filters
D flaginternals
F from
D functions
F get
F getcurrentmetadata
F getcurrentprefixspec
F getinnermethod
F getinternalcachedlistreference
F getinternallistreference
F getinternalreference
F getoutermethod
D handlers
F identify
F import
F inject
F injectcurrentset
S innermethod
D internals
F load
F loadpresets
F mark
S outermethod
D pages
U prefixsplitter
D productdata
T programs
T data
F define
F get
F realpageofpage
U referencesplitter
D referred
F referredpage
F registerfinalizer
F registerinitializer
F registerpage
F reset
D runners
F set
F setandgetattribute
F setcomponent
F setinternalreference

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

registers

- F analyze
- D collected
- F compare
- F define
- F enhance
- F extend
- F filter
- F filtercollected
- F finalize

table

- 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 load
- F matchingtilldepth
- F numberatdepth
- F numbers
- F popblock
- F prefixedconverted
- F pushblock
- F register
- D registered
- F reportstructure
- F save
- T sectionblockdata
 - T bodypart
 - S bookmark

table

F set		tags		table
F setblock		F elementtag		
F setchecker		F finishexport		
F setentry		F getid		
F setinitialblock		F getmetadata		
F setlevel		F handler		
F setnumber		F initializeexport		
F structuredata		D labels		
F title		F last		
D tobesaved		F lastinchain		
F typesetnumber		F locatedtag		
F userdata		T patterns		
B verbose		U splitter		
sets	table	D properties		
F define		F registermetadata		
F get		F restart		
F getall		F setaspect		
D setlist		F setattributefield		
specials	table	F setcombination		
D collected		F setconstruct		
F retrieve		F setfigure		
F store		F sethighlight		
D tobesaved		F setitem		
synonyms	table	F setitemgroup		
F analyzed		F setlist		
D collected		F setnotation		
F compare		F setnotationsymbol		
F define		F setproperty		
F filter		F setregister		
F finalize		F setsorting		
F flush		F setsynonym		
F isshown		F settablecell		
F isused		F settabulatecell		
F meaning		F settagdelimitedsymbol		
F prepare		F settagsubsentencesymbol		
F process		F setuexport		
F register		F setuserproperties		
F registershown		D specifications		
F registerused		F start		
F resetshown		F stop		
F resetused		F strip		
F sort		D taglist		
F synonym		T usewithcare		
D tobesaved		T images		

table (basic lua)

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

tex (basic tex)

attribute	table	getmuglue	function
badness	function	getmuskip	function
box	table	getnest	function
catcode	table	getsfcode	function
conditionals	data table	getskip	function
constants	data table	gettoks	function
count	table	getuccode	function
cprint	function	glue	table
ctdcatcodes	number	hashtokens	function
ctxcatcodes	number	ifs	data table
definefont	function	inimatcodes	number
delcode	table	init_rand	function
dimen	table	isattribute	function
directives	data table	isbox	function
enableprimitives	function	iscount	overloaded function
error	function	isdefined	function
extraprimitives	function	isdimen	overloaded function
finish	function	ismuskip	overloaded function
fontidentifier	function	isskip	overloaded function
fontname	function	istoken	function
force_synctex_line	function	istoks	function
force_synctex_tag	function	lccode	table
fprint	function	linebreak	function
get	function	lists	table
get_synctex_line	function	lua_math_random	function
get_synctex_mode	function	lua_math_randomseed	function
get_synctex_tag	function	luacatcodes	number
getattribute	function	mathcode	table
getbox	function	modes	data table
getboxresourcedimensions	function	muglue	table
getcatcode	function	muskip	table
getcount	function	nest	table
getdelcode	function	nilcatcodes	number
getdelcodes	function	normal_rand	function
getdimen	function	notcatcodes	number
getglue	function	number	function
getlccode	function	primitives	function
getlist	function	print	function
getmath	function	prtcacodes	number
getmathcode	function	resetparagraph	function
getmathcodes	function	romannumeral	function

round	function	setuccode	function
run	function	sfcode	table
saveboxresource	function	shipout	function
scale	function	show_context	function
scantoks	function	skip	table
set	function	sp	function
set_synctex_line	function	splitbox	function
set_synctex_mode	function	sprint	function
set_synctex_no_files	function	systemmodes	data table
set_synctex_tag	function	takebox	function
setattribute	function	texcatcodes	number
setbox	function	toks	table
setcatcode	function	tpacatcodes	number
setcount	function	tpbcacodes	number
setdelcode	function	tprint	function
setdimen	function	trackers	data table
setglue	function	triggerbuildpage	function
setlccode	function	txtcatcodes	number
setlist	function	type	function
setmath	function	uccode	table
setmathcode	function	uniform_rand	function
setmuglue	function	uniformdeviate	function
setmuskip	function	uprint	function
setnest	function	useboxresource	function
setsfcode	function	vrbcacodes	number
setskip	function	write	function
settoks	function		

texconfig (basic tex)

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

texio (basic tex)

setescape function

write function

write_nl function

token (basic tex)

create	function
get_active	function
get_cmdname	function
get_command	function
get_csname	function
get_expandable	function
get_id	function
get_index	function
get_macro	function
get_meaning	function
get_mode	function
get_next	function
get_protected	function
get_tok	function

is_token	function
put_next	function
scan_code	function
scan_csname	function
scan_dimen	function
scan_glue	function
scan_int	function
scan_keyword	function
scan_string	function
scan_token	function
scan_toks	function
scan_word	function
set_macro	function
type	function

tokens (context)

astable function
bgroup userdata
bits table

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

collectors table

T data
F defaultwords
F dowithwords
F flush
F install
F register
T registered
F show
F test

compile function

constant function

converters table

S toboolean
S todimen
S toglue
S tonumber
S tostring

defined function
egroup userdata
getters table

F box
F count
F dimen
F glue
F macro
F meaning
F skip
F token

hbox userdata

istoken function

letter function

letters function

other function

pickup function

printlist function

scanners table

F boolean
F code
F conditional
F count
F csname
F dimen
F dimension
F glue
F integer
F keyword
F list
F lxmlid
F number
F scanclose
F scanopen
F skip
F string
F token
F tokens
F toks
F word

scantable function

setters table

F box
F count
F dimen
F glue
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 scanboolean
F scanclose
F scancode
F scanconditional
F scanscname
F scandimen
F scandimension
F scaninteger
F scankeyword
F scanlist
T scanners

F boolean
F code
F conditional
F count
F csname
F dimen
F dimension
F glue
F integer
F keyword
F list
F lxmlid
F number
F scanclose
F scanopen
F skip
F string
F token
F tokens
F toks
F word
F scannumber
F scanopen
F scanstring
F scanword
F toboolean
F todimen
T tokens
F astable
U bgroup
T collectors
F defaultwords
F dowithwords
F flush
F install
F register
F show
F test
F compile
F constant
T converters
S toboolean
S todimen
S toglue

S tonumber	N close	
S tostring	F inspect	
F defined	N open	
U egroup	F report	
T getters	F scanboolean	
F box	F scanclose	
F count	F scancode	
F dimen	F scanconditional	
F glue	F scanscname	
F macro	F scandimen	
F meaning	F scandimension	
F skip	F scaninteger	
F token	F scankeyword	
U hbox	F scanlist	
F istoken	F scannumber	
F letter	F scanopen	
F letters	F scanstring	
F other	F scanword	
F pickup	F toboolean	
F printlist	F todimen	
F scantable	F tonumber	
T setters	F tostring	
F box	U vbox	
F count	U vtop	
F dimen	F tonumber	
F glue	F tostring	
F macro	vbox	userdata
F skip	vtop	userdata
T shortcuts		

tracers (context)

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

trackers (context)

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

typesetters (context)

alignments	table				T handlers
F handler					F installhandler
F set					F processmath
breakpoints	table				F set
F define					F setcolor
F handler					F setmath
D mapping					F tomode
T methods				firstlines	table
T numbers				T actions	
F set				F default	
F setreplacement				F line	
cases	table			F word	
T actions				F handler	
F handler				F set	
F register				fontkerns	table
F set				F handler	
characteralign	table			initials	table
F handler				T actions	
F resetcharacteralign				F default	
F setcharacteralign				F addanchortoline	
characters	table			F addtoline	
F handler				F calculatedelta	
T methods				F checkline	
F replacenbsp				F handler	
F replacenspaces				F moveinline	
checkers	table			F normalize	
F handler				F set	
F reset				injectors	table
F set				F check	
cleaners	table			T list	
F handler				F mark	
F set				F reset	
digits	table			F set	
T actions				F show	
F handler				italics	table
F set				F enablemath	
directions	table			F enabletext	
F getfences				F forcevariant	
F getglobal				F handler	
F getmethod				F reset	
F handler				F set	

kerns	table		
D factors			F reset
F handler			F split
F keepligature			F startapply
B keptogether			F stopapply
D mapping			F stripped
F set			F toString
manipulators	table	rubies	table
F apply		F attach	
F applyspecification		F check	
T methods		showsuspects	function
F Word		spacings	table
F Words		F define	
F abbreviatedjournal		F handler	
F expandedjournal		D mapping	
F lowercase		T numbers	
F stripperperiod		T frenchpunctuation	
F uppercase		T characters	
T patterns		S name	
U list		N number	
U pair		F reset	
F splitspecification		F set	
margins	table	F setup	
F finalhandler		wrappers	table
F globalhandler		F handler	
F localhandler		xtables	table
F save		F cleanup	
marksuspects	function	F construct	
paragraphs	table	F create	
F addanchortoline		F finish_row	
F addtoline		F flush	
F calculatedelta		F initialize_construct	
F checkline		F initialize_reflow_height	
F handler		F initialize_reflow_width	
F moveinline		F next_row	
F normalize		F reflow_height	
F set		F reflow_width	
processors	table	F set_construct	
F apply		F set_reflow_height	
F register		F set_reflow_width	

unicode (extra lua)

ascii table

F byte
F char
F dump
F find
F format
F gfind
F gmatch
F gsub
F len
F lower
F match
F rep
F reverse
F sub
F upper

grapheme table

F byte
F char
F dump
F find
F format
F gfind
F gmatch
F gsub
F len
F lower
F match
F rep
F reverse
F sub
F upper

latin1 table

F byte
F char
F dump
F find
F format
F gfind
F gmatch
F gsub

F len
F lower
F match
F rep
F reverse
F sub
F upper

toutf32string function

utf8 table

F byte
F char
F characters
F chrln
F count
F dump
F filetype
F find
F format
F gfind
F gmatch
F gsub
F is_valid
F len
F length
F lower
F magic
F match
F remapper
F rep
F replacer
F reverse
F split
F splitlines
F sub
F substituter
F tocodes
F toeight
F toentities
F tostring
F totable
F upper

F ustring	F utf32_to_utf8_le_t
F utf16_to_utf8_be	F utf32_to_utf8_t
F utf16_to_utf8_be_t	F utf8_to_utf16
F utf16_to_utf8_le	F utf8_to_utf16_be
F utf16_to_utf8_le_t	F utf8_to_utf16_le
F utf16_to_utf8_t	F utf8_to_utf8_t
F utf32_to_utf8_be	F values
F utf32_to_utf8_be_t	F xstring
F utf32_to_utf8_le	

url (context)

addscheme	function
barepath	function
construct	function
escape	function
filename	function
hashed	function

hascheme	function
query	function
split	function
toquery	function
unescapeget	function

utf8 (context)

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

- F skiplong
- F skipposition
- F skipshort
- F writebyte
- F writecardinal2
- F writecardinal4
- F writestring

formatters table

- F formatcolumns
- F list
- F stripzeros

garbagecollector table

- F check
- N criterium
- B enabled

lua table

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

packers table

- F hashed
- F new

F pack	B latin-modern-light
F simplehashed	B latin-modern-light-designsize
F strip	B modern-light
F unpack	T modern-mono,modern-base-mono
N version	B modern-base-mono
parsers	B modern-mono
table	T modern-variable,latin-modern-variable-designsize,latin-modern-variable
F add_settings_to_array	B latin-modern-variable
F arguments_to_table	B latin-modern-variable-designsize
F array_to_string	B modern-variable
F csvsplitter	T modernvariable,modern-variable
F getparameters	B modern-variable
F groupedsplitat	B modernvariable
F hash_to_string	T modernvariablelight,modern-variable-light
T hashes	B modern-variable-light
T settings_to_set	B modernvariablelight
T max,fit,broad,auto	T serif,sans,mono
B auto	B mono
B broad	B sans
B fit	B serif
B max	T text,hidden,paper,page,leftpage,rightpage
T modern,latin-modern	B hidden
B latin-modern	B leftpage
B modern	B papercondensed,latin-modern-condensed
T modern,latin-modern,modern-variable,latin-modern-variable,modern-variable-condensed,latin-modern-condensed	B paper
B latin-modern	B rightpage
B latin-modern-condensed	B text
B latin-modern-variable	F iterator
B modern	F keq_to_hash
B modern-condensed	F listitem
B modern-variable	F make_settings_to_hash_pattern
T modern,latin-modern-designsize,latin-modern	F mergehashes
B latin-modern	F options_to_array
B latin-modern-designsize	F options_to_hash
B modern	T patterns
T modern,modern-base	U settings_to_array
B modern	U settings_to_hash_a
B modern-base	U settings_to_hash_b
T modern-condensed,latin-modern-condensed-designsize,latin-modern-condensed,latin-modern-light-condensed,latin-modern-light-condensed-designsize	U settings_to_hash_c
B latin-modern-condensed	U unittotex
B latin-modern-condensed-designsize	F process_stripped_settings
B latin-modern-light-condensed	F rfc4180splitter
B modern-condensed	F runtime
B modern-light-condensed	F settings_to_array
T modern-light,latin-modern-light-designsize,latin-modern-light	

- F settings_to_array_obey_fences
- F settings_to_array_with_repeat
- F settings_to_hash
- 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 unittotex
- F unittoxml

randomizer table

- F get
- F getnumber
- F getseed
- F popseed
- F pushseed
- F reuseseed
- F setseed
- F setseedi

report function

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 look
- F open
- 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 readchar
- F readfixed2
- F readfixed4
- F readinteger
- F readinteger1
- F readinteger2
- F readinteger2le
- F readinteger3
- F readinteger3le
- F readinteger4

F readinteger4le	U retain
F readsignedbyte	U retain and collapse
F readstring	U retain and no empty
F setposition	F striplines
F size	F striplong
F skip	F tabtospace
F skipbytes	T tracers
F skiplong	tables table
F skipshort	F accesstable
strings table	F definedtable
F collapsecrlf	F definetable
T formatters	F encapsulate
F add	F insertaftervalue
F new	F insertbeforevalue
F newcollector	F migratetable
F newrepeater	F removevalue
F nice	F replacevalue
T striplinepatterns	templates table
U collapse	F load
U prune	F replace
U prune and collapse	F replacer
U prune and no empty	F resolve

vf (context)

char	function
down	function
fontid	function
image	function
node	function
nop	function

pop	function
push	function
right	function
rule	function
special	function

visualizers (context)

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

xml (context)

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

finalizers

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

table

F index
F last
F lowerall
F match
F name
F position
F reverse
F table
F tag
F tags
F text
F texts
F upperall

first	function
found	function
functions	table
getbuffer	function
gethandlers	function
gethandlersfunction	function
helpers	table
F recursetext	
include	function
inclusion	function
inclusions	function
index	function
inheritedconvert	function
inject	function
inject_element	function
inject_element_after	function
inject_element_before	function
injectafter	function
injectbefore	function
insert	function
insert_element	function
insert_element_after	function
insert_element_before	function
insertafter	function
insertbefore	function
insertcdata	function
insertcomment	function
inspect	function
is_valid	function
kind	function
last	function

lastmatch	function	replace	function
load	function	replace_element	function
lpath	function	resetinjectors	function
lpathcached	function	resolvens	function
lpathcalls	function	root	function
lshow	function	save	function
makestandalone	function	selection	function
match	function	separate	function
name	function	serialize	function
newhandlers	function	serializetotext	function
nodesettostring	function	setcdata	function
originalload	function	setcomment	function
package	function	sethandlersfunction	function
parent	function	setinjectors	function
parsedentitylpeg	userdata	setproperty	function
pihandlers	table	settings	function
F injector		specialcodes	table
F tex		S "	
placeholders	table	S #	
F unknown_any_entity		S \$	
F unknown_dec_entity		S %	
F unknown_hex_entity		S &	
popmatch	function	S '	
position	function	S <	
privatecodes	table	S >	
privatetoken	function	S \	
process	function	S {	
process_attributes	function	S	
process_elements	function	S }	
processattributes	function	S ~	
profiled	table	specialhandler	table
pushmatch	function	sprint	function
raw	function	string	function
registerentity	function	strip	function
registers	function	strip_whitespace	function
reindex	function	stripelement	function
remap_name	function	stripleadingspaces	function
remap_namespace	function	table	function
remap_tag	function	text	function
remapname	function	textonly	function
remapnamespace	function	texttocdata	function
remaptag	function	tocdata	function
renamespace	function	toelement	function
reparsedentitylpeg	userdata	tostring	function

totable	function	unprivatized	function
toxml	function	unspecialized	function
tprint	function	withelement	function
traverse	function	withelements	function
unescaped	function	wrap	function
unescapedentitylpeg	userdata	xmlns	table

zip (extra lua)

archives	table	openarchive	function
close	function	openfile	function
closearchive	function	registeredfiles	table
open	overloaded function	type	function

zlib (extra lua)

adler32	function
compress	function
compressobj	function
crc32	function

decompress	function
decompressobj	function
version	function