

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

ConT_EXt LMTX

global (alias: _G)

CONTEXTLMTXMODE	number
FFISUPPORTED	boolean
INITEXMODE	boolean
LUAMAJORVERSION	number
LUAMINORVERSION	number
LUATEXENGINE	string
LUATEXFORMATID	number
LUATEXFUNCTIONALITY	number
LUATEXVERSION	number
LUAVERSION	number
MP	function
arg	table
assert	function
attributes	table
backends	table
basexx	table
bit32	table
blobs	table
blockrequire	function
boolean	table
buffers	table
builders	table
caches	table
callback	table
callbacks	table
catcodes	table
characters	table
checkimage	function
chemistry	table
collectgarbage	function
commands	table
containers	table
context	function
converters	table
coroutine	table
createmask	function
ctxrunner	table
data	table
debug	table
dimen	function
dir	table
directives	table
document	table
documentdata	table
dofile	function
drivers	table
environment	table
error	function
experiments	table
figures	table
file	table
fio	table
floats	table
flushfontchar	function
flushsimplerule	function
flushspecialrule	function
font	table
fonts	table
functions	table
getmetatable	function
getrpos	function

getscriptstatus	function
global	table
graphics	table
grid_to_mp	function
gzip	table
images	table
inspect	function
interactions	table
interfaces	table
io	table
ipairs	function
job	table
language	table
languages	table
layouts	table
lfs	table
libraries	table
lmx	table
load	function
loadfile	function
loadstring	function
logs	table
lpdf	table
lpeg	table
lua	table
luatex	table
lxml	table
math	table
mathematics	table
md5	table
metapost	table
mime	table
moduledata	table
modules	table
mp	function
mplib	table
next	function
noads	table
node	table
nodes	table
number	table
objects	table
optional	table
optionalrequire	function
os	table
package	table
pagebuilders	table
pairs	function
parametersets	table
pcall	function
pdf	table
pdfdecode	table
pdfe	table
physics	table
pngdecode	table
poporientation	function
print	function
publications	table
pushorientation	function
rawequal	function
rawget	function

rawlen	function	texifs	data table
rawset	function	texio	table
readarray	function	texisdefined	data table
regimes	table	texmodes	data table
require	function	texsystemmodes	data table
required	function	thirddata	table
resolvers	table	toboollean	function
ruledspace	function	todecimal	function
sandbox	table	token	table
scanarray	function	tokens	table
scanhash	function	tonumber	function
scripts	table	tostring	function
select	function	tracers	table
set	table	trackers	table
setinspector	function	type	function
setmetatable	function	typesetters	table
sha2	table	unpack	function
shipbox_ref_h	number	updaters	table
shipbox_ref_v	number	url	table
sio	table	userdata	table
socket	table	utf	table
sorters	table	utf8	table
statistics	table	utilities	table
status	table	visualizers	table
storage	table	warn	function
streams	table	xcomplex	table
string	table	xdecimal	table
structures	table	xmath	table
table	table	xml	table
tex	table	xpcall	function
texconditionals	data table	xzip	table
texconfig	table	zip	table
texconstants	data table	zlib	table

attributes (context)

applyoverloads function

colorintents table

- N attribute
- D data
- F enable
- F handler
- F register
- D registered

colors table

- N attribute
- F cmyk
- F cmyktogray
- F cmyktorgb
- F colorcomponents
- D counts
- B couple
- F currentmodel
- F currentnamedmodel
- D data
- N default
- F defineintermediatecolor
- F definemultitonecolor
- F defineprocesscolor
- F defineprocesscolordirect
- F definesimplegray
- F definespotcolor
- F definetransparency
- F enable
- F filter
- N forced
- F forcedmodel
- F forcesupport
- F formatcolor
- F formatgray
- F getpagecolormodel
- F gray
- F graytohsb
- F handler
- T helpers
 - F complement
 - F inbetween
 - F justone
- F hsvtorgb
- F hsvtorgb
- F hwbtorgb
- F iccprofile
- F isblack
- N main
- S model
- D models
- F mpcolor
- F mpnamedcolor
- F mpoptions
- F namedcolorattributes
- N none
- F popset
- F processcolorcomponents
- F pushset
- F register
- D registered
- F registerspotcolor

- F rgb
- F rgbtocmyk
- F rgbtorgb
- F rgbtohsb
- N selector
- F setlist
- F setmodel
- F setpagecolormodel
- D sets
- F spec
- F spot
- F spotcolorname
- F spotcolorparent
- F spotcolorvalue
- B supported
- F toattributes
- F transparencycomponents
- B triggering
- F usecolors
- D valid
- F value
- D values
- B weightgray

define function

effects table

- N attribute
- D data
- F enable
- F handler
- F register
- D registered
- D values

handlers table

list data table

markasoverload function

names data table

negatives table

- N attribute
- D data
- F enable
- F handler
- F register
- D registered
- F set

numbers data table

ofnode function

private function

public function

restore function

save function

showcurrent function

states table

- F disabletriggering
- F enabletriggering
- F finalize
- F initialize
- F process
- F selective
- F stacked
- F stacker

system function

tooverloads function

transparencies table

 N attribute

 D data

 F enable

 F forcesupport

 F handler

 T names

 N color

 N colorburn

 N colordodge

 N darken

 N difference

 N exclusion

 N hardlight

 N hue

 N lighten

 N luminosity

 N multiply

 N none

 N normal

 N overlay

 N saturation

 N screen

 N softlight

 N none

 F register

 D registered

 B supported

 F toattribute

 B triggering

 F value

 D values

unsetvalue number

viewerlayers table

 N attribute

 F cleanup

 D data

 F define

 F definedlayoutcomponent

 F enable

 F forcesupport

 F handler

 B hasorder

 D listwise

 F register

 D registered

 F resolve_begin

 F resolve_end

 F resolve_reset

 F resolve_step

 D scopes

 F setfeatures

 F start

 F stop

 B supported

 D values

backends (context)

closeout	function
codeinjections	table
F boxresourcedimensions	
F registerboxresource	
F restoreboxresource	
current	string
defaults	table
T codeinjections	
F getpagedimensions	
F getpageorigin	
F lmtxmode	
F setpagedimensions	
F setpageorigin	
T nodeinjections	
T registrations	
D tables	
getcallbackstate	function
included	table
B context	
B date	
B id	
B metadata	
B pdf	
install	function
latelua	function
nodeinjections	table
nothing	function
openout	function
pdf	table
T codeinjections	
F addbookmarks	
F analyzenormalsymbol	
F analyzesymbol	
F attachmentid	
F bitmap	
F clonefield	
F copyimage	
F definefield	
F definefieldset	
F defineviewerlayer	
F embedfile	
F embedimage	
F enabletags	
F exportformdata	
F fieldsurrounding	
F flushmergelayer	
F getbookmarks	
F getdefaultfieldvalue	
F getfieldcategory	
F getfieldset	
F getformatoption	
F getidentityvariable	
F getinfo	
F getpreviewfigure	
F insertrenderingwindow	
F maptag	
F mergebookmarks	
F mergecomments	
F mergefields	
F mergereferences	
F mergeviewerlayers	

F newimage
F prerollreference
F presetsymbol
F presetsymbollist
F processrendering
F registerdocumentcloseaction
F registerdocumentopenaction
F registeredsymbol
F registerpagecloseaction
F registerpageopenaction
F registersymbol
F scanimage
F setattachmentsupport
F setfieldcalculationset
F setfigurealternative
F setfigurecolorspace
F setfiguremask
F setformat
F setformsmethod
F setpagetransition
F settaggingsupport
F setupcanvas
F setupidentity
F setxmpfile
F startlayer
F startunicodetoactualtext
F startunicodetoactualtextdirect
F stoplayer
F stopunicodetoactualtext
F stopunicodetoactualtextdirect
F supportedformats
F unicodetoactualtext
F useviewerlayer
F validfield
F validfieldcategory
F validfieldset
F wrapimage
S comment
T nodeinjections
F addtags
F annotation
F attachfile
F changestackedlayer
F cmykcolor
F comment
F destination
F effect
F graycolor
F injectbitmap
F insertmovie
F insertsound
F insertswf
F insertu3d
F knockout
F negative
F overprint
F positive
F reference
F rgbcolor
F spotcolor
F startlayer

F startstackedlayer	F rgbindexcolor	
F stoplayer	F rgbspotcolor	
F stopstackedlayer	F spotcolorname	
F transparency	F transparency	
F typesetfield	T tables	
T registrations	D vfspecials	
F cmykindexcolor	registrations	table
F cmykspotcolor	tables	table
F getspotcolorreference	timestamp	function
F grayindexcolor	writeout	function
F grayspotcolor		

basexx (extra lua)

decode16 function
decode64 function
decode85 function
decodeLZW function
decodeRL function

encode16 function
encode64 function
encode85 function
encodeLZW function
encodeRL function

bit32 (basic lua)

arshift function
band function
bnot function
bor function
btest function
bxor function

extract function
lrotate function
lshift function
replace function
rrotate function
rshift function

blobs (context)

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

strht function
strwd function
tohpack function
tonodes function
tovpack function
write function

boolean (context)

tocontext function
tonumber function

buffers (context)

append	function
assign	function
collectcontent	function
erase	function
exists	function
get	function
getcontent	function
getlines	function
gettexbuffer	function
loadcontent	function
parallel	table

	F define
	F hassomecontent
	F next
	F place
	F reset
	F save
prepend	function
raw	function
run	function
samplefile	function
undent	function

builders (context)

checksidefloat function
kernel table
 F hyphenating
 F hyphenation
 F kerning
 F ligaturing
 F mlist_to_hlist

paragraphs table
 T constructors
 N attribute
 F define
 F disable
 F enable
 F handler
 T methods
 F basic
 F default
 F hpack
 F oneline
 D names
 D numbers
 F set
 F start
 F stop
 T expansion
 F trace
 F kepttogether
 F registertogether
 T solutions
 T splitters
 F define
 F optimize
 T registered
 F reset
 F set
 F split
 F start
 F stop
 F tag

profiling table
 F add
 F distance
 F fixedprofile
 F get
 F list
 F pagehandler
 F profilebox
 F set

vspacing table
 F analyze
 D categories
 F checkstrutdepth
 F collapsevbox
 T data
 D map
 D skip
 D snapmethods
 F definesnapmethod
 B fixed
 F forcepageflush
 F forcestrutdepth
 F getnofpreviouslines
 F inject
 F injectdisable
 F injectpenalty
 F injectskip
 F pagehandler
 F pageoverflow
 F popatsame
 F pushatsame
 F setmap
 F setskip
 F snapbox
 F synchronizepage
 F tocategories
 F tocategory
 F vboxhandler

caches (context)

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

callback (basic tex)

find	function	register	overloaded function
known	function	usage	function
list	function		

callbacks (context)

freeze function
functions table
 F process_rule
 F start_page_number
 F stop_page_number

known function
list data table
pop function
push function
register function
report function
supported table

- B append_to_vlist_filter
- B begin_paragraph
- B build_page_insert
- B buildpage_filter
- B contribute_filter
- B define_font
- B find_format_file
- B find_log_file
- B handle_overload
- B hpack_filter
- B hpack_quality
- B hyphenate
- B insert_par

- B intercept_lua_error
- B intercept_tex_error
- B kerning
- B ligaturing
- B linebreak_filter
- B make_extensible
- B mlist_to_hlist
- B open_data_file
- B post_linebreak_filter
- B pre_dump
- B pre_linebreak_filter
- B pre_output_filter
- B process_jobname
- B show_error_message
- B show_lua_call
- B show_warning_message
- B show_whatsit
- B start_file
- B start_run
- B stop_file
- B stop_run
- B trace_memory
- B vpack_filter
- B vpack_quality
- B wrapup_run

catcodes (context)

names data table
numbers data table

register function

characters (context)

activeoffset	number	T twopart_mark	
adobename	function	T vowel_modifier	
bidirectional	data table	initialize	function
blockrange	function	is_character	data table
blocks	data table	is_command	data table
casemap	table	is_letter	data table
categories	data table	is_mark	data table
category	function	is_punctuation	data table
categorytags	data table	is_spacing	data table
classifiers	table	is_symbol	data table
collapsed	data table	lcchars	data table
contextname	function	lccode	function
csletters	data table	lccodes	data table
data	data table	lettered	function
decomposed	data table	lhash	data table
description	function	linebreaks	data table
descriptions	data table	lower	function
detailtags	data table	mathlists	data table
directions	table	mirrors	table
emoji	table	otfscripts	data table
F compact		private	table
F known		ranges	data table
F resolve		registerentities	function
emojized	function	remap_hangul_syllable	function
encodes	data table	setactivecatcodes	function
entities	data table	setlettercatcodes	function
fallbacks	data table	shape	function
filters	data table	shaped	function
fractions	table	shash	data table
fromnumber	function	shchars	data table
fschars	data table	shcodes	data table
fscodes	data table	showstring	function
getrange	function	specialchars	data table
graphemes	data table	specials	data table
hangul	data table	splits	table
indicgroups	table	T char	
T above_mark		T compat	
T after_half		subscripts	table
T after_main		superscripts	table
T after_postscript		synonyms	data table
T after_subscript		tex	table
T anudatta		D accentmapping	
T before_half		D commandmapping	
T before_main		F defineaccents	
T before_postscript		F safechar	
T before_subscript		F toutf	
T below_mark		F toutfpattern	
T consonant		textclasses	table
T dependent_vowel		tonumber	function
T halant		ucchars	data table
T independent_vowel		uccode	function
T nukta		uccodes	data table
T post_mark		uhash	data table
T pre_mark		unicodechar	function
T ra		upper	function
T stress_tone_mark			

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
undefine	function

containers (context)

cleannname	function	is_valid	function
content	function	read	function
define	function	usecache	boolean
is_usable	function	write	function

converters (context)

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

coroutine (basic lua)

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

ctxrunner (context)

load	function	prepfiles	data table
preparedfile	function	resolve	function

data (context)

action	function	prerolled	string
depth	number	width	number
height	number		

debug (basic lua)

getinfo function
sethook function

traceback function

dir (context)

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

documentdata (context)

variable function

drivers (context)

convert	function	F finalize
converters	table	F initialize
F engine		F outputfilename
F lmtx		F prepare
enable	function	F wrapup
gethpos	function	T flushers
getpos	function	F character
getrpos	function	F rule
getvpos	function	F simplerule
helpers	table	F specialrule
F tomatrix		F updatefontstate
install	function	S name
instances	table	T mps
T default		T actions
T actions		F cleanup
F convert		F convert
F outputfilename		F finalize
T flushers		F initialize
S name		F outputfilename
T empty		F prepare
T actions		F wrapup
F convert		T flushers
F prepare		F character
T flushers		F rule
S name		F simplerule
T js		F specialrule
T actions		F updatefontstate
F cleanup		S name
F convert		T none
F finalize		T actions
F initialize		T flushers
F outputfilename		S name
F prepare		T pdf
F wrapup		T actions
T flushers		F cleanup
F character		F convert
F rule		F finalize
F simplerule		F initialize
F specialrule		F outputfilename
F updatefontstate		F prepare
S name		F wrapup
T json		T flushers
T actions		F character
F cleanup		F fontchar
F convert		F group
F finalize		F image
F initialize		F literal
F outputfilename		F poporientation
F prepare		F pushorientation
F wrapup		F restore
T flushers		F rule
F character		F save
F rule		F setmatrix
F simplerule		F simplerule
F specialrule		F specialrule
F updatefontstate		F updatefontstate
S name		S name
T lua		lmtxversion number
T actions		outputfilename function
F cleanup		report function
F convert		

environment (context)

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

experiments (context)

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

figures (context)

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

fio (extra lua)

getposition	function	readinteger2le	function
read2dot14	function	readinteger3	function
readbytes	function	readinteger3le	function
readbytetable	function	readinteger4	function
readcardinal1	function	readinteger4le	function
readcardinal1le	function	readintegertable	function
readcardinal2	function	readline	function
readcardinal2le	function	setposition	function
readcardinal3	function	skipposition	function
readcardinal3le	function	writecardinal1	function
readcardinal4	function	writecardinal1le	function
readcardinal4le	function	writecardinal2	function
readcardinaltable	function	writecardinal2le	function
readfixed2	function	writecardinal3	function
readfixed4	function	writecardinal3le	function
readinteger1	function	writecardinal4	function
readinteger1le	function	writecardinal4le	function
readinteger2	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	setfont	function
getfont	function	setfontdimen	function
getfontdimen	function		

fonts (context)

analyzers table

- D features
- D initializers
- D methods
- F setstate
- D states
- B useunicodemarks

checkers table

- F getmissing
- F missing
- F placeholder

cid table

- F getmap
- F loadfile

collections table

- F checkenabled
- F clonevector
- F define
- T definitions
- F found
- F prepare
- F process
- F registermain
- F report
- F reset
- T vectors

constructors table

- F addcharacters
- F addcoreunicodes
- B addtounicode
- F aftercopyingcharacters
- F applymanipulators
- F assignmathparameters
- B autocleanup
- F beforecopyingcharacters
- D cache
- B cacheintex
- F calculatescale
- F checkedfeatures
- F checkedfilename
- F cleanuptable
- F collectprocessors
- F currentfonthasfeature
- D designsizes
- D dontembed
- F enhanceparameters
- T enhancers
 - T afm
 - F apply
 - F patch
 - T patches
 - F register
 - F report
 - F register
 - F report
- T otf
 - F addfeature
 - F apply
 - F enhance
 - F patch
 - T patches

- F register
- F report
- F register
- F report

T tfm

- F apply
- F patch
- T patches
 - F register
 - F report
- F register
- F report

N factor

T features

- D afm
- D otf
- D tfm

F finalize

B fixprotrusion

F getfeatureaction

F getmathparameter

F getprivate

T handlers

T afm

- B autoprefixed
- D cache
- D features
- F getkern
- T helpdata
 - D bothkerned
 - D leftkerned
 - D ligatures
 - D rightkerned
 - D texligatures

F load

T readers

- F getinfo
- F loadfont
- F loadshapes

F setfeatures

B syncspace

N version

T otf

- F addfeature
- F basemodeinitializer
- D cache
- F collectlookups

T coverup

- T actions
 - F alternate
 - F chainposition
 - F chainsubstitution
 - F kern
 - F ligature
 - F multiple
 - F pair
 - F single
 - F substitution
- F register
- S stepkey
- F dataset

- F datasetpositionprocessor
- S defaultbasealternate
- S defaultnodealternate
- D features
- F featuresinitializer
- F featuresprocessor
- F getactualtext
- F getalternate
- F getgsub
- F getkern
- F getmultiple
- F getstreamhash
- F getsubstitution
- T handlers
 - F devanagari_remove_joiners
 - F devanagari_reorder_matras
 - F devanagari_reorder_pre_base_reordering_consonants
 - F devanagari_reorder_reph
 - F gpos_context
 - F gpos_contextchain
 - F gpos_cursive
 - F gpos_mark2base
 - F gpos_mark2ligature
 - F gpos_mark2mark
 - F gpos_pair
 - F gpos_single
 - F gsub_alternate
 - F gsub_context
 - F gsub_contextchain
 - F gsub_ligature
 - F gsub_multiple
 - F gsub_reversecontextchain
 - F gsub_single
 - F trigger_space_kerns
- T helpers
 - F blockligatures
 - F pardirstate
 - F txtldirstate
- F load
- F loadoutlinedata
- F loadstreamdata
- F modeinitializer
- D mpscache
- D pdfcache
- F plugininitializer
- F pluginprocessor
- T plugins
- D pngcache
- B pngenabled
- T readers
 - F addunicodetable
 - F avar
 - F cbdt
 - F cblc
 - F cff
 - F cff2
 - F cffcheck
 - T cffencoder
 - F checkhash
 - F cmap
 - F colr
 - F compact
 - F cpal
 - F ebdt

- F eblc
- F ebsc
- F expand
- F extend
- F fvar
- F gdef
- F getcomponents
- F getinfo
- F glyf
- F gpos
- T gposhandlers
 - F chainedcontext
 - F context
 - F cursive
 - F extension
 - F marktobase
 - F marktoligature
 - F marktomark
 - F pair
 - F single
- F gsub
- T gsubhandlers
 - F alternate
 - F chainedcontext
 - F context
 - F extension
 - F ligature
 - F multiple
 - F reversechainedcontextsingle
 - F single
- F gvar
- F head
- T helpers
 - F axistofactors
 - F cleanname
 - F getaxisscale
 - F getfactors
 - F getscales
 - F gotodatatable
 - F normalizedaxis
 - T normalizedaxishash
 - F readvariationdata
 - F reportskippedtable
 - F setvariablename
- F hhea
- F hmtx
- F hvar
- F kern
- F loadfont
- F loadshapes
- F loca
- F math
- F maxp
- F mvar
- F name
- F os/2
- F pack
- F parsecharstrings
- F post
- F registerextender
- F rehash
- F sbix
- F stat
- T streamreader

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

F vhea
 F vmtx
 F vorg
 F vvar
 F woff2otf
 F registerpalette
 F registerplugin
 F reorderlookups
 F scriptandlanguage
 F setdynamics
 F setfeatures
 T statistics
 D usedfeatures
 D svgcache
 B svgenabled
 T tables
 D baselines
 D features
 D featuretypes
 D languages
 D scripts
 N version
 T pfb
 F loadvector
 T tfm
 D cache
 D features
 N maxnestingdepth
 N maxnestingsize
 T readers
 F loadpk
 F loadtfm
 F loadtfmvf
 F loadvf
 F pktopdf
 F showpk
 F reencode
 F setfeatures
 N version
 T vf
 T combinations
 F combine
 T combiner
 D commands
 D helpers
 D math
 D predefined
 N version
 D whatever
 F hashfeatures
 F hashinstance
 T hashmethods
 F normal
 F virtual
 F initializefeatures
 T keys
 T characters
 T descriptions
 T parameters
 S ascender
 S descender
 S designsize
 T expansion
 S auto

S shrink
 S step
 S stretch
 S extendfactor
 S factor
 S hfactor
 S mathsize
 S mode
 T protrusion
 S auto
 S quad
 S scaledpoints
 S scriptpercentage
 S scriptscriptpercentage
 S size
 S slantfactor
 S slantperpoint
 T spacing
 S extra
 S shrink
 S stretch
 S width
 S units
 S vfactor
 S width
 S xheight
 T properties
 S autoitalicamount
 S cidinfo
 T effect
 S ddelta
 S effect
 S factor
 S hdelta
 S hfactor
 S vfactor
 S wdelta
 S width
 S embedding
 S encodingbytes
 S filename
 S finalized
 S fontname
 S format
 S fullname
 S hasitalics
 S hasmath
 S mathitalics
 S mode
 S name
 S nostackmath
 S psname
 S textitalics
 S virtualized
 D loadedfonts
 S namemode
 N noffontsloaded
 N nofsharedfonts
 N nofsharedhashes
 N nofsharedvectors
 N privateoffset
 D privateslots
 F readanddefine
 F registerfeature

F resetfeature
 B resolvevirtualtoo
 F scale
 F scaled
 F setfactor
 F setfeature
 F setmathparameter
 F setname
 B sharefonts
 F trytosharefont
 N version
current function
currentid function
definers table
 F addlookup
 F analyze
 F applypostprocessors
 F checkedmode
 F checkedscript
 S defaultlookup
 F define
 F getspecification
 F internal
 F loadfont
 F makespecification
 T methods
 F install
 D variants
 F read
 F register
 F registered
 F registersplit
 F resetnullfont
 F resolve
 T resolvers
 F file
 F name
 F spec
definetypeface function
dropins table
 F clone
 F nextid
 F provide
 F registerglyph
 F registerglyphs
 F swap
encodings table
 T agl
 D ctxcodes
 D extras
 D names
 D synonyms
 D unicodes
 D cache
 F is_known
 D known
 F load
 F make_unicode_vector
 D math
 N version
enhanceid function
expansions data table
formats data table
getalternate function

getindices	function
getkern	function
getmultiple	function
getsubstitution	function
getters	table
T alternate	
F opentype	
T kern	
F opentype	
F type1	
F type3	
T multiple	
F opentype	
T substitution	
F opentype	
goodies	table
D colorschemes	
T data	
T dejavu-math	
S author	
S comment	
S copyright	
B initialized	
T mathematics	
T alternates	
T dotless	
S comment	
S feature	
N value	
T kerns	
S name	
S version	
D designsizes	
D filenames	
F getcompositions	
T list	
F load	
F prepare_features	
F register	
F registerpostprocessor	
F report	
T suffixes	
handlers	table
hashes	table
D characters	
D classes	
D csnames	
D descriptions	
D dynamics	
D emwidths	
D exheights	
D extensibles	
D features	
D identifiers	
D italics	
D lastmathids	
D marks	
D mathparameters	
D modes	
D originals	
D parameters	
T processes	
D properties	
D quads	

D resources	
T setdynamics	
T shapes	
D spaces	
D spacings	
T streams	
D unicodes	
D variants	
D xheights	
helpers	table
F addextraprivate	
F addprivate	
F appendcommands	
F appendcommandtable	
F checkflags	
F checkmerge	
F checksteps	
F collectanchors	
D commands	
F descriptiontoslot	
F dimenfactor	
F expandglyph	
T extraprivates	
F fontpatternhassize	
F getcoloredglyphs	
F getdigitwidth	
F getinstancespec	
F getparameters	
F getprivatecharornode	
F getprivatenode	
F getprivates	
F getprivateslot	
F hasprivate	
F indextoslot	
F name	
F nametoslot	
F newprivateslot	
F prependcommands	
F prependcommandtable	
F privateslot	
F setdigitwidth	
F splitfontpattern	
F tochar	
infofont	function
iterators	table
F characters	
F descriptions	
F glyphs	
loggers	table
F add_placeholders	
D category_to_placeholder	
F format	
F onetimemessage	
F register	
F reportdefinedfonts	
F reportusedfeatures	
mappings	table
F addtounicode	
F fromunicode16	
F loadfile	
F loadline	
F makenameparser	
D overloads	
F reset	

F tounicode
F tounicode16
F tounicode16sequence

metapost table

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

mp table

D cache
B inline
N version

names data table

nulldata data table

privateoffsets table

B keepnames
N mathbase
N mathextrabase
N textbase
N textextrabase

protrusions data table

readers table

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

reserveid function

select table

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

F fallback
D fallbacks
F features
F filefallback
F fontdata
F fontfallback
F fontsynonym
F goodies
F mathfallback

D methods
D presets
F registerfallback
F registerfiles
F registerfontalternative
F registerfontfamily
F textfallback
F typeface
F typescript
F userdata

specifiers table

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

symbols table

T emoji
F checked
F resolved
F uselibrary

tables table

D data
F savefont
F saveoriginal

tracers table

treatments table

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

typefaces table

functions (context)

dummy function

graphics (context)

backgrounds table

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

bitmaps table

- F flush
- F new

- F placeholder
- F tocontext

identifiers table

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

identify function

gzip (extra lua)

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

images (context)

check function
checksize function
copy function
create function
embed function
keys table
print function
scan function
serialize function
sizes table

 B art
 B bleed
 B crop
 B media

 B none
 B trim
totable function
types table

 N jbig2
 N jp2
 N jpg
 N memstream
 N none
 N pdf
 N png
 N stream
wrap function

interactions (context)

attachments data table

fields table

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

general table

- F getidentity
- F setupidentity

help table

- F collect
- F reference
- F register

javascripts table

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

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

linkedLists data table

pages table

F setpagetransition

F setupcanvas

references table

F setclosedocument

F setclosepage

F setopendocument

F setopenpage

renderings data table

soundclips data table

interfaces (context)

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

nameofscanner	function
namesofscanners	table
namespaces	table
F define	
F list	
numbers	table
registernamespace	function
registerscanner	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
setvalidkeys	function
setvariable	function
showmessage	function
storedscanners	data table
syntax	data table
tolist	function
translations	data table
usednamespaces	data table
variables	data table
writestatus	function

io (basic lua)

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

job (context)

comment	function
datasets	table
D collected	
F extend	
F getdata	
F setdata	
D tobesaved	
disablesave	function
embedded	table
D collected	
D tobesaved	
fileobjreferences	table
D collected	
D tobesaved	
files	table
D collected	
F context	
B forcerun	
F run	
D tobesaved	
getrandomseed	function
initialize	function
load	function
loadother	function
objects	table
D collected	
F get	
F number	
F page	
F save	
F set	
D tobesaved	
pack	boolean
packversion	number
pagestates	table
D collected	
F countervalue	
F extend	
F realpage	
F realpageorder	
F setstate	
D tobesaved	
parwrappers	table
D collected	
D tobesaved	
passes	table
F check	
D collected	
F count	
F define	
F find	
F first	
F get	
F getcollected	
F getdata	
F getfield	
F gettobesaved	
F inlist	
F last	
F list	
F save	

F savetagged	
D tobesaved	
positions	table
F b_column	
F b_region	
F c	
D collected	
F column	
F columnofpos	
F copy	
F depth	
F e_column	
F e_region	
F enhance	
F extra	
F get	
F getfree	
F gethpos	
F getpos	
F getreserved	
F getrpos	
F gettobesaved	
F getvpos	
F hangafter	
F hangindent	
F height	
F hsize	
F leftskip	
F lowerleft	
F lowerright	
F markregionbox	
F n	
F onsamepage	
F overlapping	
F p	
F page	
T pagedata	
F paragraph	
F parindent	
F position	
F r	
F region	
F registerhandlers	
F replace	
F rightskip	
F set	
F setall	
F setregionbox	
F setspec	
F settobesaved	
D tobesaved	
F upperleft	
F upperright	
F used	
F whd	
F width	
F x	
F xy	
F y	
register	function
save	function

structure	table		D collected	
D collected			F getchecksum	
T components			F makechecksum	
T tobesaved			F restore	
T branches			F save	
S name			F setchecksum	
S type			D tobesaved	
variables	table	version		number
D checksums				

language (basic tex)

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

languages (context)

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

layouts (context)

status table
F isleftpage

F leftorrightpageaction

lfs (extra lua)

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

libraries (context)

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

lmx (context)

color	function
convert	function
convertfile	function
convertstring	function
einject	function
eprint	function
escape	function
finalized	function
finject	function
fprint	function
get	function
getvariables	function
htmfile	function
html	table
F a	
F td	
F th	
include	function
inherited	table
S color-background-four	
S color-background-one	
S color-background-three	
S color-background-two	
S title	
initialize	function
inject	function
lmxfile	function

loadedfile	function
make	function
new	function
overloaderror	function
popupfile	function
print	function
pv	function
report	function
reset	function
result	function
set	function
show	function
showdebuginfo	function
showerror	function
stripcss	function
tv	function
type	function
urlescape	function
variable	function
variables	table
S color-background-blue	
S color-background-body	
S color-background-green	
S color-background-main	
S color-background-purple	
S color-background-yellow	
S title-default	

logs (context)

application	function	setformatters	function
categories	function	setlogfile	function
direct	function	setmessenger	function
disable	function	setprocessor	function
enable	function	settarget	function
finalactions	function	settimedlog	function
flush	function	settranslations	function
loggingerrors	function	show	function
messenger	function	start_page_number	function
new	function	start_run	function
newline	function	startererrorlogging	function
poptarget	function	startfilelogging	function
private	table	status	function
F enablepagetiming		stop_page_number	function
F getpagetiming		stoperrorlogging	function
pushtarget	function	stopfilelogging	function
registerfinalactions	function	subdirect	function
report	function	subreport	function
reporter	function	texerrormessage	function
setformats	function	writer	function

lpdf (context)

action	function	F embeddedfiles	
adddocumentcolorspace	function	F javascripts	
adddocumenttextgstate	function	F layers	
adddocumentpattern	function	F pages	
adddocumentshade	function	F structure	
addtocatalog	function	F widgets	
addtoinfo	function	F stripcontent	
addtonames	function	F unload	
addtopageattributes	function	escaped	function
addtopageresources	function	finalizeddocument	function
addtopagesattributes	function	finalizefonts	function
addxmpinfo	function	finalizepage	function
annotationspecification	function	finishtransparencycode	function
array	function	flags	table
attachmentsymbols	function	T annotations	
boolean	function	N AutoView	
border	function	N Hidden	
checkedkey	function	N Invisible	
checkedvalue	function	N Locked	
circularshade	function	N LockedContents	
cmykcode	function	N NoRotate	
collectedresources	function	N NoView	
color	function	N NoZoom	
colorspace	function	N Print	
colorspaceconstants	data table	N Printable	
colorspec	function	N ReadOnly	
colorvalue	function	N ToggleNoView	
colorvalues	function	N auto	
commentsymbols	function	N hidden	
compresslevel	function	N printable	
constant	function	T widgets	
copyarray	function	N Comb	
copyboolean	function	N CommitOnSelChange	
copyconstant	function	N DoNotScroll	
copydictionary	function	N DoNotSpellCheck	
copyfloat	function	N Edit	
copyinteger	function	N FileSelect	
copynumber	function	N MultiLine	
copystring	function	N NoExport	
copyunicode	function	N NoToggleToOff	
delayedobject	function	N Password	
destinationspecification	function	N PopUp	
dictionary	function	N PushButton	
docstring	function	N Radio	
epdf	table	N RadiosInUnison	
F analyzefonts		N ReadOnly	
F contenttotext		N Required	
F expanded		N RichText	
F getpagecontent		N Sort	
F getstructure		N file	
T image		N fixed	
F close		N nocheck	
F copy		N protected	
F new		N readonly	
F open		N required	
F query		N sorted	
F load		N unavailable	
F parsecontent		flushfonts	function
F plugin		flushgroup	function
T resolvers		flushobject	function
F destinations		flushstreamfileobject	function

flushstreamobject	function	pdfcolor	function
formats	data table	pdftimestamp	function
frombytes	function	permitdetail	function
fromeight	function	print	function
frompdfdoc	function	procset	function
fromsixteen	function	protectresources	boolean
getcatalag	function	rectangle	function
getcompression	function	reference	function
getfontname	function	registerannotation	function
getfontobjnumber	function	registerdestination	function
getinfo	function	registerdocumentfinalizer	function
getmapentry	function	registerfont	function
getmetadata	function	registerpagefinalizer	function
getnofpages	function	registerpattern	function
getpageproperties	function	reserveobject	function
getpagetags	function	rgbcode	function
getversion	function	rotationcm	function
getxformname	function	setcompression	function
graycode	function	setdates	function
id	function	setmapfile	function
immediateobj	function	setmapline	function
includechar	function	setomitcharset	function
includecharlist	function	setomitcidset	function
includefont	function	setpageorder	function
includeimage	function	setpagetag	function
injectors	table	setsuppressoptionalinfo	function
F bitmap		settime	function
F jp2		settrailerid	function
F jpg		setversion	function
F png		shareobject	function
injectxmpinfo	function	shareobjectreference	function
insertxmpinfo	function	spotcode	function
layerreference	function	stream	function
limited	function	string	function
linearshade	function	toeight	function
literal	function	topdfdoc	function
majorversion	function	tosixteen	function
makenametree	function	transparency	function
minorversion	function	transparencycode	function
nofpages	function	transparencygroups	table
null	function	B none	
number	function	transparencyvalue	function
obj	function	unicode	function
objectcompresslevel	function	usedcharacters	table
pagereference	function	verbose	function
patternstream	function	vfimage	function

lpeg (basic lua)

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

lua (basic tex)

bytecode	table
bytedata	data table
bytedone	table
callbytecode	function
collectgarbage	function
delay	function
finalize	function
firstbytecode	number
flush	function
flushdelayed	function
get_functions_table	function
getbytecode	function
getcurrenttime	function
getfunctionstable	overloaded function
gethashchars	function
getpreciseseconds	function
getpreciseticks	function
getruntime	function
getstacktop	function
getstartupfile	function
getversion	function

lastbytecode	number
macros	table
B enabled	
F loaded	
F required	
F reset	
F resolvestring	
F resolving	
F showdefinitions	
messages	data table
newindex	function
newtable	function
numbers	data table
registercode	function
registeredcodes	function
registerfinalizer	function
registername	function
setbytecode	function
setexitcode	function
startupfile	string
version	string

luatex (context)

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

lxml (context)

addindex	function
all	function
applyfunction	function
applyselectors	function
att	function
attribute	function
badinclusions	function
chainattribute	function
checkindex	function
collected	function
command	function
concat	function
concatrange	function
content	function
context	function
convert	function
count	function
delete	function
depth	function
direct	function
directives	table
F after	
F before	
F handle	
F load	
F setup	
displayverbatim	function
doif	function
doifelse	function
doifelseempty	function
doifelsetext	function
doifempty	function
doifnot	function
doifnotempty	function
doifnottext	function
doiftext	function
element	function
elements	function
entities	data table
filter	function
filterlist	function
first	function
flush	function
flushlinewise	function
flushsetups	function
flushspacewise	function
get_id	function
getid	function
getindex	function
id	function
idsplitter	userdata
include	function
inclusion	function
inclusions	function
index	function
inlineverbatim	function
installsetup	function
last	function
lastatt	function
lastmatch	function
lastpar	function

load	function
loadbuffer	function
loaddata	function
loaded	table
main	function
match	function
name	function
namespace	function
nonspace	function
par	function
param	function
parameter	function
path	function
popmatch	function
pos	function
position	function
pure	function
pushmatch	function
raw	function
rawroot	function
rawtex	function
refatt	function
register	function
registerentity	function
removesetup	function
replace	function
resetcdata	function
resetsetups	function
resolvedentity	function
root	function
save	function
serialize	function
setaction	function
setatt	function
setattribute	function
setcdata	function
setcommandtonone	function
setcommandtotext	function
setpar	function
setparam	function
setparameter	function
setsetup	function
snippet	function
sorters	table
F add	
F compare	
F flush	
F reset	
F show	
F sort	
splitid	function
startraw	function
startunesescaped	function
stopraw	function
stopunesescaped	function
store	function
strip	function
stripped	function
tag	function
text	function
tobuffer	function

tofile	function	verbatim	function
toparameters	function	withinindex	function
toverbatim	function	xmltexhandler	data table

math (basic lua)

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

mathematics
 (context)

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

md5 (extra lua)

HEX function
dec function
hex function

sum function
sumHEXA function
sumhexa function

metapost (context)

checkformat	function	N secondarybinary	
cm	function	N secondarydef	
codes	table	N semicolon	
N addto		N setbounds	
N ampersand		N shipout	
N and		N show	
N assignment		N skip	
N atleast		N slash	
N begingroup		N special	
N btex		N step	
N capsule		N stop	
N colon		N str	
N comma		N string	
N controls		N tag	
N curl		N tension	
N cycle		N tertiarybinary	
N declare		N tertiarydef	
N def		N thingstoadd	
N definedmacro		N to	
N delimiters		N unary	
N endgroup		N undefinedcs	
N equals		N until	
N etex		N void	
N everyjob		N with	
N exitif		N within	
N expandafter		N write	
N fi_or_else		colorinitializer	function
N if		comment	function
N input		convert	function
N interim		currentmpx	function
N internal		currentmpxstatus	function
N iteration		defaultformat	string
N join		defaultinstance	string
N leftbrace		defaultmethod	string
N leftbracket		directrun	function
N leftdelimiter		escaped	function
N let		exectime	table
N macrospecial		extensiondata	data table
N maketext		filterclippath	function
N message		flush	function
N mode		flushers	table
N newinternal		T pdf	
N nullary		F comment	
N numeric		F flushfigure	
N of		F startfigure	
N ofbinary		F stopfigure	
N outertag		F textfigure	
N parametertype		flushliteral	function
N plus_or_minus		flushnormalpath	function
N primarybinary		flushreset	function
N primarydef		fonts	table
N randomseed		F define	
N relax		T flusher	
N repeat_loop		F flushfigure	
N rightbrace		F startfigure	
N rightbracket		F stopfigure	
N rightdelimiter		N instances	
N runscript		F process	
N save		format_number	function
N scantokens		format_string	function
N scope		formatnumber	function

getclippath	function
getextensions	function
getextradata	function
getjobdata	function
getparameter	function
getparameterset	function
getstatistics	function
gettext	function
graphic	function
graphic_base_pass	function
includesvgbuffer	function
includesvgfile	function
installplugin	function
isobject	function
lastlog	string
load	function
maketext	function
metafun	table
F interpolate	
F topath	
mptopdf	table
F convertmptstopdf	
N nofconverted	
n	number
nofruns	number
nofscriptruns	function
nvformat	function
pdfliterals	function
pluginactions	function
popformat	function
popscriptrunner	function
popvariable	function
popvariables	function
preparetexttextsdata	function
process	function
processing	function
processplugins	function
processspecial	function
properties	table
pushformat	function
pushscriptrunner	function
pushvariable	function
pushvariables	function
reducetogray	boolean
registerscript	function
remappedtext	function
remaptext	function
reporterror	function
reportsvgfonts	function
reset	function
resetlastlog	function
resetplugins	function
run	function
runscript	function
scanparameters	function
scripterror	function
scriptindex	function
setextensions	function
setoutercolor	function

setparameterset	function
settext	function
setvariable	function
showlog	boolean
showsvgpage	function
simple	function
splitprescript	function
startgraphic	function
startsvghashing	function
stopgraphic	function
stopsvghashing	function
svformat	function
svgcolorremapper	function
svgglyphtomp	function
svgshapestopmp	function
svgshapestopdf	function
svgsplitcolor	function
svgtomp	function
svgtopdf	function
sxsy	function
tex	table
F get	
F reset	
F set	
F setfrombuffer	
texerrors	boolean
texexp	function
theclippath	function
tographic	function
totable	function
types	table
N boolean	
N cmykcolor	
N color	
N dependent	
N independent	
N known	
N numeric	
N pair	
N path	
N pen	
N picture	
N protodependent	
N string	
N structured	
N suffixedmacro	
N tokenlist	
N transform	
N unknownboolean	
N unknownpath	
N unknownpen	
N unknownpicture	
N unknownstring	
N unsuffixedmacro	
N vacuous	
typesvgpage	function
unload	function
untagvariable	function
variables	table

mime (extra lua)

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

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

mp (context)

_get_count_	function
_get_dimen_	function
_get_macro_	function
_get_toks_	function
_set_count_	function
_set_dimen_	function
_set_macro_	function
_set_toks_	function
autoinject	function
aux	table
F boolean	
F color	
F direct	
F direct1	
F direct2	
F direct3	
F direct4	
F draw	
F fill	
F flush	
F fprint	
F integer	
F number	
F numeric	
F pair	
F pairpoints	
F path	
F pathpoints	
F points	
F print	
F quadruple	
F quadruplepoints	
F quoted	
F size	
F string	
F transform	
F triplet	
F tripletpoints	
F vprint	
boolean	function
cleaned	function
color	function
dataset	function
datasets	function
F load	
dimension	function
direct	function
direct1	function
direct2	function
direct3	function
direct4	function
disposehash	function
draw	function
fill	function
flatten	function
flush	function
format	function
formatted	function
fprint	function
fromhash	function
get	table

getcount	function
getdimen	function
getmacro	function
gettoks	function
graphformat	function
inhash	function
inject	function
F boolean	
F cmykcolor	
F color	
F integer	
F number	
F numeric	
F pair	
F path	
F string	
F transform	
F whatever	
integer	function
isarray	function
isobject	function
lmt_color_functions	table
F shade	
F step	
lmt_contours_bitmap_get	function
lmt_contours_bitmap_set	function
lmt_contours_cleanup	function
lmt_contours_color	function
lmt_contours_edge_get_band	function
lmt_contours_edge_get_cell	function
lmt_contours_edge_paths	function
lmt_contours_edge_set	function
lmt_contours_edge_set_by_band	function
lmt_contours_edge_set_by_cell	function
lmt_contours_format	function
lmt_contours_function	function
lmt_contours_maxmean	function
lmt_contours_maxz	function
lmt_contours_minmean	function
lmt_contours_minz	function
lmt_contours_nofvalues	function
lmt_contours_nx	function
lmt_contours_ny	function
lmt_contours_range	function
lmt_contours_shade_paths	function
lmt_contours_shade_set	function
lmt_contours_shape_paths	function
lmt_contours_start	function
lmt_contours_stop	function
lmt_contours_value	function
lmt_contours_xrange	function
lmt_contours_yrange	function
lmt_do_remaptext	function
lmt_function_x	function
lmt_mesh_set	function
lmt_mesh_update	function
lmt_poisson_generate	function
lmt_register_glyph	function
lmt_register_glyphs	function
lmt_surface_do	function
lmt_svg_include	function

mf_blob_add	function	positionregion	function
mf_blob_dimensions	function	positionwhd	function
mf_blob_index	function	positionxy	function
mf_blob_new	function	prefix	function
mf_blob_raw_content	function	print	function
mf_blob_raw_dimensions	function	processingmode	function
mf_blob_raw_reset	function	quadruple	function
mf_blob_raw_toutf	function	quadruplepoints	function
mf_blob_raw_wipe	function	quoted	function
mf_blob_size	function	report	function
mf_blob_width	function	scan	table
mf_external_figure	function	F boolean	
mf_finish_saving_data	function	F cmykcolor	
mf_formatted_text	function	F color	
mf_get_outline_text	function	F expression	
mf_graphic_text	function	F integer	
mf_inject_blob	function	F next	
mf_made_text	function	F number	
mf_map_move	function	F numeric	
mf_map_text	function	F pair	
mf_named_color	function	F path	
mf_outline_text	function	F pen	
mf_save_data	function	F string	
mf_script_index	function	F symbol	
mf_some_text	function	F token	
mf_start_saving_data	function	F transform	
mf_stop_saving_data	function	set	table
mf_tb_dimensions	function	setcount	function
mf_tt_dimensions	function	setdimen	function
mf_tt_initialize	function	setmacro	function
mode	function	settoks	function
n	function	size	function
newhash	function	solve	function
number	function	string	function
numeric	function	systemmode	function
pair	function	texstr	function
pairpoints	function	texttextanchor	function
path	function	texvar	function
pathpoints	function	tohash	function
points	function	transform	function
positionanchor	function	triplet	function
positionbox	function	tripletpoints	function
positioncurve	function	utflen	function
positionpage	function	utfsub	function
positionpath	function	vprint	function
positionpxy	function		

mplib (extra tex)

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

noads (context)

handlers	table
F align	
F alternates	
F autofences	
F classes	
F collapse	
F domains	
F families	
F fixscripts	
F italics	
F kernpairs	
F makeup	
F relocate	
F render	

F resize	
F showtree	
F tags	
F unscript	
F unstack	
F variants	
process	function
processnested	function
processors	table
F mlist_to_hlist	
T unscript	
T unstack	
processouter	function

node (basic tex)

check_discretionaries	function
check_discretionary	function
copy	function
copy_list	function
count	function
current_attributes	function
dimensions	function
direct	table

- F check_discretionaries
- F check_discretionary
- F copy
- F copy_list
- F copy_only
- F count
- F current_attributes
- F dimensions
- F effective_glue
- F end_of_math
- F exchange
- F find_attribute
- F find_attribute_range
- F find_node
- F first_glyph
- F flatten_discretionaries
- F flush_list
- F flush_node
- F free
- F get_attribute
- F get_attributes
- F get_properties_table
- F get_synctex_fields
- F getattributelist
- F getboth
- F getbox
- F getchar
- F getdata
- F getdepth
- F getdirection
- F getdisc
- F getexpansion
- F getfam
- F getfield
- F getfont
- F getglue
- F getglyphdata
- F getglyphdimensions
- F getheight
- F getid
- F getindex
- F getkern
- F getkerndimension
- F getlanguage
- F getleader
- F getlist
- F getnext
- F getnormalizedline
- F getnucleus
- F getoffsets
- F getoptions
- F getorientation
- F getparstate

- F getpenalty
- F getpost
- F getpre
- F getprev
- F getproperty
- F getreplace
- F getscript
- F getshift
- F getstate
- F getsub
- F getsubpre
- F getsubtype
- F getsup
- F getsuppre
- F gettotal
- F getwhd
- F getwidth
- F has_attribute
- F has_dimensions
- F has_field
- F has_glyph
- F has_glyph_option
- F hpack
- F hyphenating
- F ignore_math_skip
- F insert_after
- F insert_before
- F is_char
- F is_direct
- F is_glyph
- F is_node
- F is_valid
- F is_zero_glue
- F kerning
- F last_node
- F length
- F ligaturing
- F make_extensible
- F migrate
- F mlist_to_hlist
- F naturalwidth
- F new
- F protect_glyph
- F protect_glyphs
- F protrusion_skippable
- F rangedimensions
- F remove
- F reverse
- F set_attribute
- F set_attributes
- F set_synctex_fields
- F setattributelist
- F setboth
- F setbox
- F setchar
- F setdata
- F setdepth
- F setdirection
- F setdisc
- F setexpansion
- F setfam

F setfield		find_attribute	function
F setfont		first_glyph	function
F setglue		flatten_discretionaries	function
F setglyphdata		flush_list	function
F setheight		flush_node	function
F setindex		free	function
F setkern		get_attribute	function
F setlanguage		get_glue	function
F setleader		get_properties_table	function
F setlink		getfield	function
F setlist		getproperty	function
F setnext		has_attribute	function
F setnucleus		has_field	function
F setoffsets		has_glyph	function
F setoptions		hpack	function
F setorientation		hyphenating	function
F setpenalty		id	function
F setpost		insert_after	function
F setpre		insert_before	function
F setprev		instock	function
F setproperty		inuse	function
F setreplace		is_node	function
F setscript		is_zero_glue	function
F setshift		kerning	function
F setsplit		last_node	function
F setstate		length	function
F setsub		ligaturing	function
F setsubpre		make_extensible	function
F setsubtype		mlist_to_hlist	function
F setup		new	function
F setsuppre		optimize_unset_attribute	function
F settotal		protect_glyph	function
F setwhd		protect_glyphs	function
F setwidth		protrusion_skippable	function
F slide		rangedimensions	function
F start_of_par		remove	function
F tail		set_attribute	function
F todirect		set_glue	function
F tonode		setfield	function
F tostring		setproperty	function
F tovaliddirect		slide	function
F traverse		subtypes	function
F traverse_char		tail	function
F traverse_content		tostring	function
F traverse_glyph		traverse	function
F traverse_id		traverse_char	function
F traverse_list		traverse_glyph	function
F type		traverse_id	function
F unprotect_glyph		traverse_list	function
F unprotect_glyphs		type	function
F unset_attribute		types	function
F usedlist		unprotect_glyph	function
F uses_font		unprotect_glyphs	function
F vertical_break		unset_attribute	function
F vpack		usedlist	function
F write		uses_font	function
effective_glue	function	values	function
end_of_math	function	vpack	function
family_font	function	write	function
fields	function		

nodes (context)

accentcodes	data table	getboth	function
aligned	function	getbox	function
append	function	getchar	function
apply	function	getfield	function
applyvisuals	function	getfont	function
astable	function	getid	function
basepoints	function	getleader	function
boundarycodes	data table	getlist	function
boxes	table	getnext	function
F dimensions		getprev	function
F direct		getsubtype	function
F found		gluecodes	data table
F reset		glyphcodes	data table
F restore		handlers	table
F save		F accessibility	
F savenode		F backgrounds	
builders	table	F backgroundspace	
F buildpage_filter		F backgroundsvbox	
F vpack_filter		F characters	
check_discretionaries	function	F checkglyphs	
concat	function	F checkparcounter	
copy	function	F cleanupbox	
copy_list	function	F cleanuppage	
copy_node	function	F export	
count	function	F finalizebox	
countall	function	F flatten	
current_attributes	function	F flattenline	
delete	function	F migrate	
destinations	table	F protectglyphs	
N attribute		F stripping	
T done		F textbackgrounds	
F handler		F unprotectglyphs	
T stack		has_attribute	function
dimensions	function	has_field	function
dircodes	data table	has_glyph	function
directioncodes	data table	hpack	function
directionvalues	data table	hyphenating	function
dirvalues	data table	idsandsubtypes	function
disccodes	data table	idstostring	function
discretionarycodes	data table	injections	table
effective_glue	function	F copy	
end_of_math	function	F getligaindex	
fencecodes	data table	F getthreshold	
fields	function	F handler	
fieldtypes	table	F installgetspaceboth	
fillcodes	data table	F installnewkern	
fillvalues	data table	F isspace	
find_attribute	function	F keepcounts	
first_glyph	function	F reset	
firstcharacter	function	F resetcounts	
firstcharinbox	function	F setcursive	
firstdirinbox	function	F setkern	
firstglyph	function	F setligaindex	
flatten_discretionaries	function	F setmark	
flush	function	F setmove	
flush_list	function	F setposition	
flush_node	function	F setspacekerns	
free	function	insert_after	function
fullhpack	function	insert_before	function
getattr	function	insert_list_after	function
getattribute	function	installattributehandler	function

is_direct	function	F concat
is_display_math	function	F copy
is_node	function	F copy_list
is_nut	function	F copy_no_components
is_zero_glue	function	F copy_node
kerncodes	data table	F copy_only
kerning	function	F copy_only_glyphs
keys	table	F copy_properties
T whatsit		F copyvisual
last_node	function	F count
leftmarginwidth	function	F count_components
length	function	F countall
ligaturing	function	F current_attributes
linefillers	table	F delete
D data		F dimensions
F define		F dirdimensions
F enable		F effective_glue
F filler		F end_of_math
F handler		F exchange
lines	table	F find_attribute
T boxed		F first_glyph
F register		F firstcharacter
F setup		F firstcharinbox
F stage_one		F firstglyph
F stage_two		F flatten_discretionaries
D data		F flush
F finalize		F flush_list
F number		F flush_node
N scratchbox		F free
link	function	F fullhpack
linked	function	F get_components
list	function	F getattr
listcodes	data table	F getattribute
listtoutf	function	F getattributelist
literalvalues	data table	F getattrlist
load	function	F getattrs
locate	function	F getboth
markers	table	F getbox
F get		F getboxglue
mathcodes	data table	F getchar
maxboxwidth	function	F getcomponents
migrations	table	F getdata
F setinserts		F getdepth
F setmarks		F getdirection
mlist_to_hlist	function	F getdisc
new	function	F getdiscretionary
noadcodes	data table	F getexpansion
noadoptions	table	F getfam
N axis		F getfield
N exact		F getfont
N left		F getglue
N middle		F getglyphdata
N no_axis		F getglyphdimensions
N right		F getheight
N set		F getid
N unused_1		F getkern
N unused_2		F getkerndimension
nodecodes	data table	F getlang
nopts	function	F getlanguage
nuts	table	F getleader
F append		F getlist
F apply		F getnext
F applyvisuals		F getnormalizedline
F check_discretionaries		F getnucleus

F getoffsets	F fence
F getoptions	F fontkern
F getorientation	F fraction
F getpenalty	F glue
F getpost	F gluespec
F getpre	F glyph
F getprev	F hlist
F getprop	F indentskip
F getreplace	F italickern
F getruledata	F kern
F getscript	F latelua
F getshift	F leader
F getstate	F lefthangskip
F getsub	F leftmarginkern
F getsubpre	F leftskip
F getsubtype	F lineskip
F getsup	F literal
F getsuppre	F mathchar
F getsurround	F mathtextchar
F getsynctexfields	F negatedglue
F gettotal	F noad
F getvalue	F originliteral
F getwhd	F outlinerule
F getwidth	F pageliteral
F has_attribute	F penalty
F has_dimensions	F radical
F has_field	F rawliteral
F has_glyph	F register
F hpack	F restore
F hyphenating	F righthangskip
F insert_after	F rightmarginkern
F insert_before	F rightskip
F insert_list_after	F rule
F is_display_math	F save
F is_node	F savepos
F is_nut	F setmatrix
F is_zero_glue	F shrink
F ischar	F stock
F isdone	F stretch
F isglyph	F subbox
F kerning	F submlist
F last_node	F temp
F leftmarginwidth	F usage
F length	T userids
F ligaturing	N margins.inline
F link	N splitters.one
F linked	N splitters.two
F locate	F usernode
F migrate	F userrule
F mlist_to_hlist	F vlist
F nestedtracedslide	F wordboundary
F new	F prepend
T pool	F processranges
F accent	F processwords
F baselineskip	F protect_glyph
F boundary	F protect_glyphs
F choice	F protrusion_skippable
F cleanup	F rangedimensions
F delim	F rawprop
F delimiter	F reference
F direction	F rehpack
F directliteral	F remove
F disc	F repackhlist
F emptyrule	F replace

F reverse	F setsynctexfields	
F rightmarginwidth	F setunsetattributes	
T rules	F setvalue	
T ruleactions	F setvisual	
F box	F setvisuals	
F draw	F setwhd	
F fill	F setwidth	
F mp	F slide	
F stroke	F somepenalty	
F userule	F somespace	
F set_attribute	F splitbox	
F set_components	F start_of_par	
F setattr	F striprange	
F setattribute	F tail	
F setattributelist	F takeattr	
F setattributes	F takebox	
F setattrlist	F takelist	
F setattrrs	F theprop	
F setboth	F tonode	
F setbox	F tonodes	
F setboxglue	F tonut	
F setchar	F tosequence	
F setcomponents	F tostring	
F setdata	F tracedslide	
F setdepth	F traverse	
F setdirection	F traverse_char	
F setdisc	F traverse_content	
F setdiscretionary	F traverse_glyph	
F setexpansion	F traverse_id	
F setfam	F traverse_list	
F setfield	T traversers	
F setfont	F boundary	
F setglue	F char	
F setglyphdata	F content	
F setheight	F dir	
F setkern	F disc	
F setlang	F glue	
F setlanguage	F glyph	
F setleader	F hlist	
F setlink	F list	
F setlist	F next	
F setnext	F node	
F setnucleus	F vlist	
F setoffsets	F whatsit	
F setoptions	T typesetters	
F setorientation	F tohbox	
F setparproperty	F tohpack	
F setpenalty	F tonodes	
F setpost	F tovbox	
F setpre	F tovpack	
F setprev	F unprotect_glyph	
F setprop	F unprotect_glyphs	
F setreplace	F unset_attribute	
F setruledata	F unsetattribute	
F setscript	F unsetattributes	
F setshift	F untracedslide	
F setsplit	F usedlist	
F setstate	F uses_font	
F setsub	F vianodes	
F setsubpre	F vianuts	
F setsubtype	F vpack	
F setup	F write	
F setsuppre	packlist	function
F setsurround	parcodes	data table

penaltycodes	data table	rulecodes	data table
plugindata	table	rules	table
F finalizer		D data	
F initializer		F define	
S name		F enable	
T namespace		F handler	
N attribute		F userrule	
D data		save	function
F enable		serialize	function
F handler		serializebox	function
F register		set_attribute	function
D registered		setattrr	function
D values		setattribute	function
F processor		setattributes	function
points	function	setboth	function
pool	table	setbox	function
F baselineskip		setboxtonaturalwd	function
F cleanup		setchar	function
F directliteral		setfield	function
F glyph		setfont	function
F hlist		setleader	function
F latelua		setlink	function
F lineskip		setlist	function
F literal		setnext	function
F originliteral		setprev	function
F register		setunsetattributes	function
F restore		shifts	table
F rule		D data	
F save		F define	
F savepos		F enable	
F setmatrix		F handler	
F special		show	function
F stock		showboxes	function
F usage		showlist	function
F vlist		showsimplelist	function
prepend	function	skipcodes	data table
print	function	slide	function
processors	table	snapshots	table
F contribute_filter		F getsamples	
B enabled		F resetsamples	
F hpack_filter		F takesample	
F post_linebreak_filter		somepenalty	function
F pre_linebreak_filter		somespace	function
F tracer		splitbox	function
properties	table	start_of_par	function
T data		stripdiscretionaries	function
protect_glyph	function	stripping	table
protect_glyphs	function	T glyphs	
protrusion_skippable	function	F set	
pts	function	subtypes	data table
radicalcodes	data table	tail	function
rangedimensions	function	takeattr	function
reference	function	takebox	function
references	table	tasks	table
N attribute		F actions	
T done		F appendaction	
F handler		F disableaction	
T stack		F disablegroup	
reheapack	function	F enableaction	
remove	function	F enablegroup	
repackhlist	function	F freeze	
replace	function	F freezegroup	
report	function	F new	
rightmarginwidth	function	F prependaction	

F removeaction
F replaceaction
F restart
F setaction
F showactions
F table

tobasepoints function
tocentimeters function
tociceros function
todidots function
todimen function
toinches function
tomillimeters function
tonode function
tonodes function
tonut function
topicsas function
topoints function
toscaledpoints function
tosequence function
tostring function
totable function
totree function
toutf function
tracers table

T characters
F collect
F equal
F start
F string
F unicodes
T colors
F reset
F set
F setlist
F directions
F fontchar
T frequencies
F register
T pool
T nodes
F rule
T nuts
F rule
F resetproperties
F rule
F setlist
F setproperties
F start
T steppers
F check
F codes
F features
F font
F glyphs
F message

F messages
F nofsteps
F register
F reset
F start
F stop
F stop
T transparencies
F reset
F set
F setlist

traverse function
traverse_char function
traverse_glyph function
traverse_id function
traverse_list function
traversers table

F char
F glyph
F list
F node

typesetters table

F hbox
F hpack
F tohbox
F tohpack
F tonodes
F tovbox
F tovpack
F vpack

unprotect_glyph function
unprotect_glyphs function
unset_attribute function
unsetattribute function
unsetattributes function
usedlist function
usercodes data table
uses_font function
vianodes function
vianuts function
visualizebox function
visualizers table

F attribute
T attributes
F box
F handler
F markfonts
F register
F setfont
F setlayer
F setruledglyph
F setvisual

vpack function
whatcodes data table
whatsitcodes data table
write function

number (context)

	function
basepoints	function
bytetodecimal	function
compactfloat	function
decimaltobyte	function
dimenfactors	data table
formatted	function
formattedfloat	function
idiv	function
maxdimen	number
nopts	function
percent	function
points	function
pts	function
signed	function
sparseexponent	function
splitdimen	function
tol6dot16	function

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

objects (context)

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

optional (context)

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

ghostscript	table
F execute	
F initialize	

graphicsmagick	table
F execute	
F initialize	

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

loaded	table
---------------	-------

mujs	table
F dofile	
F execute	
F initialize	

F reset	
F setclosefile	
F setconsole	
F setfindfile	
F setopenfile	
F setreadfile	
F setseekfile	

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

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

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

zint	table
F execute	
F initialize	

os (basic lua)

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

package (basic lua)

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

pagebuilders (context)

columnsets table

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

- F setsize
- F setspan
- 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

`immediateobj` function

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

physics (context)

units table

F registerunit

D tables

pngdecode (extra tex)

applyfilter function
expand function
interlace function

splitmask function
tocmyk function

publications (context)

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

S editor
S keywords
S number
S page
S pages
S volume
S version
D virtual
T virtualfields
B authornum
B authorityyear
B authorityyears
B num
B suffix

datasets
detailed
endnotes_to_btx
enhancer

S arguments
T askip
B dirty
T gskip
T kind
T list
T system
T order
N steps

enhancers
F details
F order
F suffixes

finder
firstofrange
found
get
getcasted
getdetail
getdirect
getfaster
getfield
getfuzzy
getindex
inspectors
journals

F abbreviated
F add
F expanded
F load
F save

lastofrange
lists

F collectentries
F combiinlist
F fetchentries
F filterall
F flushcombi
F flushentry
F flushtag
T methods
F dataset
F force
F global
F local
F nofregistered

table
table
function
table

table

function
function
function
function
function
function
function
function
function
function
function
data table
table

function
table

F prepareentries
F register
F sameasprevious
T sorters
F cite
F dataset
F default
F index
F list
F reference
F short
F used
F uservariable

listvariants table

F default
F index
F num
F short
F tag

load function
loadbibdata function
loaddefinitionfile function
loaders table

F bbl
F bib
F buffer
F endnote
F json
F lua
F refman
F registercleaner
F xml

loadreplacementfile function
new function
okay function
oneorrange function
parenttag function
permitted function
prerollcmdstring function
refman_to_btx function
resolvedname function
save function
savers table

F bib
F lua
F xml

search function
setcategory function
setspecification function
singularorplural function
sortedentries function
sortmethods table

T authorityyear
T sequence

specifications table

T default
S author
S comment
S copyright
S name
S version
D virtual

splitauthor function
splitoneauthor function

statistics	table	F showdatasetfields	
N nofbytes		F showentry	
N nofdatasets		F showfields	
N nofdefinitions		F showhashedauthors	
N nofshortcuts		F showtables	
tables	table	F showvariants	
D implicits		typesetters	table
D origins		F author	
D privates		F string	
D sets		usedataset	function
D specials		usedentries	function
D types		writers	table
D virtuals		F author	
tags	function	F keyword	
tracers	table	F pagenumber	
F showdatasetauthors		F range	
F showdatasetcompleteness			

regimes (context)

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

mapping	data table
pop	function
process	function
push	function
toregime	function
translate	function

resolvers (context)

allprefixes	function	installinputlinehandler	function
appendhash	function	jobpath	function
automount	function	jobs	table
booleanvariable	function	F currentcomponent	
cacheversion	string	F currentenvironment	
checkedvariable	function	F currentproduct	
cleanedpathlist	function	F currentproject	
cleanpath	function	F justacomponent	
cleanpathlist	function	D processors	
concatinators	data table	F productcomponent	
configbanner	string	F usefile	
configurationfiles	function	joinpath	function
dangerous	data table	knownvariables	function
datastate	function	libraries	table
defaultsuffixes	table	F optionalloaded	
dirstatus	function	F validoptional	
dowithfilesandreport	function	load	function
dowithfilesintree	function	loadbinfile	function
dowithpath	function	loaders	data table
dowithvariable	function	loadluafile	function
executers	table	loadtexfile	function
expandbraces	function	loadtime	function
expandedpathfromlist	function	locateformat	function
expandedpathlist	function	locators	data table
expandedpathlistfromvariable	function	luacnffallback	string
expandpath	function	luacnfname	string
expandpathfromvariable	function	luacnfspec	string
expansion	function	luacnfstate	string
extendtexmfvariable	function	macros	table
filtered_from_content	function	F convertfile	
find_file	function	F decodecomment	
find_files	function	F enablecomment	
findbinfile	function	F encodecomment	
findctxfile	function	F preprocessed	
finders	data table	F processmk	
findfile	function	F processmklx	
findfiles	function	F processmkvi	
findgivenfile	function	F version	
findgivenfiles	function	maxreadlevel	number
findlib	function	methodhandler	function
findpath	function	openbinfile	function
findtexfile	function	openers	data table
findwildcardfile	function	openfile	function
findwildcardfiles	function	opentexfile	function
formatofsuffix	function	ownpath	string
formatofvariable	function	popextrapath	function
formats	data table	popinputname	function
foundintree	function	poppath	function
foundintrees	function	prefixes	data table
generators	data table	prependhash	function
get_from_content	function	pushextrapath	function
getenv	function	pushinputname	function
getextrapaths	function	pushpath	function
getfilehashes	function	registerextrapath	function
gethashes	function	registerfile	function
getownpath	function	registerfilehash	function
getreadfilename	function	registerintrees	function
hashers	data table	registermethod	function
homedir	string	registerzipfile	function
initialized	function	relations	data table
installinputfilehandler	function	renew	function

renewcache	function	splitexpansions	function
repath	function	splitmethod	function
reset	function	splitpath	function
resetextrapaths	function	stackpath	function
resetmemstream	function	starttiming	function
resetresolve	function	stoptiming	function
resolve	function	suffixes	data table
savers	data table	suffixmap	data table
scandata	function	suffixoffformat	function
scanfiles	function	texdatablob	function
schemes	table	toppath	function
T cleaners		unexpandedpath	function
F md5		unexpandedpathlist	function
F none		unresolve	function
F strip		updaterelations	function
F cleanname		updatescript	function
F fetchstring		uselibrary	function
F fetchtable		usertypes	data table
F install		usezipfile	function
setdynamic	function	validatedpath	function
setenv	function	variable	function
setmemstream	function	variableoffformat	function
showpath	function	variableoffformatorsuffix	function
simplescanfiles	function	wildcardpattern	function
splitconfigurationpath	function		

sandbox (context)

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

scripts (context)

autofontfeature	table	handlers	data table
F disable		hash	table
F enable		injectors	data table
F handler		inserters	table
colors	data table	F nobreakspace_after	
decomposehangul	function	F nobreakspace_before	
defaults	table	F space_after	
N inter_char_half_shrink_factor		F space_before	
N inter_char_half_stretch_factor		F zerowidthspace_after	
N inter_char_hangul_penalty		F zerowidthspace_before	
N inter_char_quarter_shrink_factor		installdataset	function
N inter_char_quarter_stretch_factor		installmethod	function
N inter_char_shrink_factor		numbertodataset	data table
N inter_char_stretch_factor		numbertohandler	data table
N inter_word_stretch_factor		reset	function
getdata	function	set	function
getinjector	function	setstatus	function
getsplitter	function	splitters	data table
getstatus	function		

set (context)

contains function
create function
tolist function

tonumber function
totable function

sha2 (extra lua)

HASH256 function
HASH384 function
HASH512 function
HEX256 function
HEX384 function
HEX512 function
digest256 function
digest384 function
digest512 function

hash256 function
hash384 function
hash512 function
hex256 function
hex384 function
hex512 function
sum256 function
sum384 function
sum512 function

sio (extra lua)

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

socket (extra lua)

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

F	getaddrinfo
F	gethostname
F	getnameinfo
F	tohostname
F	toip

gettime	function
headers	table

T	canonic
S	accept
S	accept-charset
S	accept-encoding
S	accept-language
S	accept-ranges
S	action
S	age
S	allow
S	alternate-recipient
S	arrival-date
S	authorization
S	bcc
S	cache-control
S	cc
S	comments
S	connection
S	content-description
S	content-disposition
S	content-encoding
S	content-id
S	content-language
S	content-length
S	content-location
S	content-md5
S	content-range
S	content-transfer-encoding
S	content-type
S	cookie
S	date
S	diagnostic-code
S	dsn-gateway
S	etag
S	expect
S	expires
S	final-log-id
S	final-recipient
S	from
S	host
S	if-match
S	if-modified-since
S	if-none-match
S	if-range
S	if-unmodified-since

S	in-reply-to
S	keywords
S	last-attempt-date
S	last-modified
S	location
S	max-forwards
S	message-id
S	mime-version
S	original-envelope-id
S	original-recipient
S	pragma
S	proxy-authenticate
S	proxy-authorization
S	range
S	received
S	received-from-mta
S	references
S	referer
S	remote-mta
S	reply-to
S	reporting-mta
S	resent-bcc
S	resent-cc
S	resent-date
S	resent-from
S	resent-message-id
S	resent-reply-to
S	resent-sender
S	resent-to
S	retry-after
S	return-path
S	sender
S	server
S	smtp-remote-recipient
S	status
S	subject
S	te
S	to
S	trailer
S	transfer-encoding
S	upgrade
S	user-agent
S	vary
S	via
S	warning
S	will-retry-until
S	www-authenticate
S	x-mailer

F	lower
F	normalize

http	table
-------------	-------

N	TIMEOUT
S	USERAGENT
F	genericform
F	open
F	request

newtry	function
protect	function
report	function
select	function
sink	function

sinkt	table
F close-when-done	
F default	
F http-chunked	
F keep-open	
skip	function
sleep	function
source	function
sourcet	table
F by-length	
F default	
F http-chunked	
F until-closed	
tcp	function
tcp4	function
tcp6	function

tp	table
N TIMEOUT	
F connect	
try	function
udp	function
udp4	function
udp6	function
url	table
F absolute	
F build	
F build_path	
F escape	
F parse	
F parse_path	
F unescape	

sorters (context)

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

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

statistics (context)

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

status (basic tex)

getbufferstate	function	getmarksstate	function
getcallbackstate	function	getneststate	function
getconstants	function	getnodestate	function
geterrorlinestate	function	getparameterstate	function
geterrorstate	function	getpoolstate	function
getexpandstate	function	getreadstate	function
getextrastate	function	getsavestate	function
getfilestate	function	getsparsestate	function
getfontstate	function	getstringstate	function
gethalferrorlinestate	function	gettexstate	function
gethashstate	function	gettokenstate	function
getinputstate	function	getwarningstate	function
getlanguagestate	function	iocodes	table
getlookupstate	function	list	function
getluastate	function	resetmessages	function

storage (context)

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

streams (context)

collect	function	push	function
disable	function	start	function
enable	function	stop	function
flush	function	synchronize	function
initialize	function		

string (basic lua)

autodouble	function	packsize	function
autosingle	function	quote	function
booleanstring	function	quoted	function
byte	function	rep	function
bytepairs	function	replacenewlines	function
bytes	function	reverse	function
bytetable	function	split	function
char	function	splitlines	function
characterpairs	function	splitup	function
characters	function	strip	function
checkedsplit	function	sub	function
collapsespaces	function	tformat	function
containsws	function	toHEX	function
count	function	toboollean	function
dawson	function	tobytes	function
dump	function	tocontext	function
erf	function	todec	function
erfc	function	todimen	function
erfcx	function	tohex	function
erfi	function	tonodes	function
escapedpattern	function	topattern	function
escapedquotes	function	totable	function
explode	function	tounicode16	function
f6	function	toutf	function
find	function	toutf32	function
format	function	toutf8	function
formatter	function	tracedchar	function
formatters	function	tracedchars	table
fullstrip	function	unpack	function
gmatch	function	unquote	function
gsub	function	unquoted	function
is_boolean	function	upper	function
is_empty	function	utfcharacter	function
itself	function	utfcharacters	function
len	function	utfcharacter table	function
limit	function	utflength	function
linetable	function	utfpadd	function
longtostring	function	utfpadding	function
lower	function	utfvalue	function
match	function	utfvalues	function
nospaces	function	utfvaluetable	function
nspaces	table	valid	function
optionalquoted	function	voigt	function
pack	function	voigt_hwhm	function

structures (context)

allocation	function	F way
blocks	table	currentsectionnumber
D collected		descriptions
F define		documents
F print		D data
F save		F initialize
F select		F preset
F setstate		F reset
D states		floats
D tobesaved		formulas
F uservariable		helpers
bookmarks	table	F analyze
T extras		F formulanumber
F get		F merged
F mergesections		F page
F register		F pageofinternal
F reset		F prefix
F tosections		F prefixlastpage
F finalize		F prefixpage
F flatten		F simplify
F installhandler		F title
F merge		F touserdata
S method		inserts
F overload		D data
F place		F define
F register		F getdata
F setopened		F getlocation
F setup		F getname
counters	table	F getnumber
F add		F setlocation
F analyze		F setup
F check		D stored
D collected		itemgroups
F compact		lists
F converted		F addto
F currentvalue		F analyze
D data		B autoreorder
F define		D cached
F first		D collected
F get		F discard
F last		F enhance
F next		T enhancers
F prev		F filter
F previous		F formulanumber
F raw		F getresult
F record		F groupindex
F reset		F hasnumberdata
F restart		F haspagedata
F restore		F hastitledata
F save		F iscached
F set		D kinds
F setlevel		F label
F setoffset		F location
F setown		D names
F setstate		F number
F setvalue		D ordered
T specials		F page
F userpage		F popnesting
F subs		F prefix
D tobesaved		F prefixednumber
F value		F prefixedpage

F process
D pushed
F pushnesting
F realpage
F reordered
T result
F savedlistnumber
F savedlistprefixednumber
F savedlisttitle
D sectionblocks
F sectionnumber
F size
F title
D tobesaved
F userdata
F uservalue

marks table

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

notes table

F check_spacing
F checkpagechange
F define
F doifonsamepageasprevious
F get
F getdeltapage
F getinternal
F getn
F getstate
F hascontent
F internal
F internalid
F listindex
T numbers
F ordered
F postpone
F resetpostponed
F restore
F save
F setstate
D states
F store

pages table

F allmarked
F analyze
D collected
F fraction
F in_body

F is_odd
F mark
F marked
N nopages
F number
F on_right
F save
D tobesaved
F toranges

references table

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

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

registers table

F analyze
D collected
F compare
F define
F enhance
F extend
F filter
F filtercollected
F finalize
F findinternal
F flush
F get
F prepare
F process
F setmethod

F sort
F store
D tobesaved
F unique
F userdata
sections table
F autodepth
F cct
D collected
F current
F currentblock
F currentid
F currentlevel
F currentsectionindex
F depthnumber
F finddata
F findnumber
F fullnumber
F getcurrentlevel
F getlevel
F getnumber
F internalreference
D levelmap
D levels
F matchingtilldepth
F numberatdepth
F numbers
F popblock
F prefixedconverted
F pushblock
F register
D registered
F reportstructure
F save
T sectionblockdata
 T bodypart
 S bookmark
F set
F setblock
F setchecker
F setentry
F setinitialblock
F setlevel
F setnumber
F showstructure
F structuredata
F title
D tobesaved
F typesetnumber
F userdata
B verbose

sets table

F define
F get
F getall
D setlist

specials table

D collected
F retrieve
F store
D tobesaved

synonyms table

F analyzed
D collected

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

tags

F current
F elementtag
F finishexport
F getextradata
F getid
F getmetadata
F gettablecell
F gettabulatecell
F handler
F initializeexport
D labels
F last
F lastinchain
F locatedtag
T patterns
U splitter
D properties

table

F registerextradata
F registermetadata
F restart
F setaspect
F setattributehash
F setcombination
F setconstruct
F setfigure
F setfloat
F setformulacontent
F sethighlight
F setitem
F setitemgroup
F setlist
F setnotation
F setnotationsymbol
F setparagraph
F setproperty
F setpublication
F setregister
F setsorting
F setsynonym
F settablecell
F settabulatecell
F settagdelimitedsymbol
F settagsubsentencesymbol
F setupexport
F setuserproperties
D specifications
F start
F stop
F strip
D taglist
T usewithcare
T images

table (basic lua)

allkeys	function
append	function
are_equal	function
collapsed	function
collapsedhash	function
compact	function
concat	function
contains	function
copy	function
count	function
derive	function
deserialize	function
drop	function
fastcopy	function
fastserialize	function
filtered	function
flattened	function
fromhash	function
getmetatablekey	function
getn	function
has_one_entry	function
hashed	function
identical	function
imerge	function
imerged	function
insert	function
is_empty	function
is_simple_table	function
keys	function
load	function
loweredkeys	function
makewweak	function
merge	function
merged	function
mirrored	function
move	function
ordered	function
orderedhash	function

pack	function
prepend	function
print	function
remove	function
reverse	function
reversed	function
save	function
sequenced	function
serialize	function
setmetatablecall	function
setmetatableindex	function
setmetatableindices	function
setmetatablekey	function
setmetatablenewindex	function
sort	function
sorted	function
sortedhash	function
sortedhashkeys	function
sortedhashonly	function
sortedindexonly	function
sortedkeys	function
sortedpairs	function
sparse	function
strip	function
sub	function
swapped	function
tocontext	function
tocsv	function
tofile	function
tohandle	function
tohash	function
toxml	function
twowaymapper	function
unique	function
unnest	function
unpack	function
values	function

tex (basic tex)

attribute	table	getlinedir	function
badness	function	getlist	function
box	table	getlocallevel	function
boxresources	table	getmark	function
F getbox		getmath	function
F getdimensions		getmathcode	function
F save		getmathcodes	function
F use		getmathdir	function
catcode	table	getmodevalues	function
chardef	function	getmuglue	function
conditionals	data table	getmuskip	function
constants	data table	getnest	function
count	table	getnormalizevalues	function
cprint	function	getoutputactive	function
ctdcatcodes	number	getpagestate	function
ctxcatcodes	number	getpardir	function
definefont	function	getsfcode	function
delcode	table	getskip	function
dimen	table	getsynctexline	function
directives	data table	getsynctexmode	function
enableprimitives	function	getsynctextag	function
error	function	gettextdir	function
experiments	data table	gettoks	function
extraprimitives	function	getuccode	function
fatalerror	function	glue	table
flagcodes	data table	glyphoptioncodes	data table
fontidentifier	function	groupcodes	data table
fontname	function	hashtokens	function
forcehmode	function	hyphenationcodes	data table
forcesynctexline	function	ifs	data table
forcesynctextag	function	inimatcodes	number
fprint	function	integerdef	function
frozenparcodes	data table	isattribute	function
get	function	isbox	function
getattribute	function	iscount	overloaded function
getbox	function	isdefined	function
getboxdir	function	isdimen	overloaded function
getboxresourcebox	function	isglue	function
getboxresourcedimensions	function	ismuglue	function
getcatcode	function	ismuskip	overloaded function
getcount	function	isprintable	function
getdelcode	function	isskip	overloaded function
getdelcodes	function	istoken	function
getdimen	function	istoks	function
geterrorvalues	function	lastnodetype	function
getflagvalues	function	lccode	table
getfontoffamily	function	linebreak	function
getfrozenparvalues	function	lists	table
getglue	function	luacatcodes	number
getglyphdata	function	magicconstants	table
getglyphoptionvalues	function	N maxdimen	
getglyphscript	function	N running	
getglyphstate	function	N trueinch	
getgroupvalues	function	mathchardef	function
gethelptext	function	mathcode	table
gethyphenationvalues	function	modelevels	table
getintegervalue	function	N horizontal	
getinteraction	function	N math	
getiovalues	function	N unset	
getlargestusedmark	function	N vertical	
getlccode	function	modes	data table

mprint	function	setmathcode	function
muglue	table	setmathdir	function
muskip	table	setmuglue	function
nest	table	setmuskip	function
nilcatcodes	number	setnest	function
notcatcodes	number	setpardir	function
number	function	setsfcode	function
poplocal	function	setskip	function
primitives	function	setsynctexline	function
print	function	setsynctexmode	function
prtcatcodes	number	setsynctextag	function
pushlocal	function	settexdir	function
quitlocal	function	settoks	function
quittoks	function	setuccode	function
resetparagraph	function	sfcode	table
romannumeral	function	shipout	function
round	function	showcontext	function
runlocal	function	skip	table
runtoks	function	sp	function
saveboxresource	function	splitbox	function
scale	function	sprint	function
scantoks	function	systemmodes	data table
set	function	takebox	function
setattribute	function	texcatcodes	number
setbox	function	toks	table
setboxdir	function	tonumber	function
setcatcode	function	toscaled	function
setcount	function	tpacatcodes	number
setdelcode	function	tpbcatcodes	number
setdimen	function	tprint	function
setglue	function	trackers	data table
setglyphdata	function	triggerbuildpage	function
setglyphscript	function	txtcatcodes	number
setglyphstate	function	type	function
setintegervalue	function	uccode	table
setinteraction	function	uprint	function
setlccode	function	useboxresource	function
setlinedir	function	vrbcatcodes	number
setlist	function	write	function
setmath	function		

texconfig (basic tex)

buffer_size	number	max_pool	number
error_line	number	max_print_line	number
expand_depth	number	max_strings	number
firstline	string	nest_size	number
formatname	string	node_size	number
function_size	number	param_size	number
half_error_line	number	properties_size	number
hash_extra	number	save_size	number
init	overloaded function	shell_escape	string
kpse_init	boolean	stack_size	number
max_in_open	number	token_size	number

texio (basic tex)

`closeinput` function
`terminal` function

`write` function
`write_nl` function

token (basic tex)

accessors	table	new	function
F active		peek_next	function
F cmd		peek_next_char	function
F cmdchracs		peek_next_expanded	function
F cmdname		pop_macro	function
F command		push_macro	function
F csname		put_back	function
F expandable		put_next	function
F frozen		save_lua	function
F index		scan_argument	function
F name		scan_box	function
F protected		scan_cardinal	function
F range		scan_char	function
create	function	scan_cmdchr	function
expand	function	scan_cmdchr_expanded	function
expand_macro	function	scan_code	function
future_expand	function	scan_csname	function
get_active	function	scan_delimited	function
get_cmdchracs	function	scan_dimen	function
get_cmdname	function	scan_float	function
get_command	function	scan_glue	function
get_csname	function	scan_integer	function
get_cstoken	function	scan_key	function
get_expandable	function	scan_keyword	function
get_fields	function	scan_keyword_cs	function
get_flags	function	scan_letters	function
get_frozen	function	scan_luacardinal	function
get_id	function	scan_luainteger	function
get_immutable	function	scan_luanumber	function
get_index	function	scan_next	function
get_instance	function	scan_next_char	function
get_integer	function	scan_next_expanded	function
get_macro	function	scan_real	function
get_meaning	function	scan_skip	function
get_noaligned	function	scan_string	function
get_permanent	function	scan_token	function
get_primitive	function	scan_token_code	function
get_protected	function	scan_tokenlist	function
get_range	function	scan_toks	function
get_tok	function	scan_value	function
get_tolerant	function	scan_word	function
getcommandid	function	serialize	function
getcommandvalues	function	set_char	function
getfunctionvalues	function	set_integer	function
getprimitives	function	set_lua	function
gobble	function	set_macro	function
gobble_dimen	function	skip_next	function
gobble_integer	function	skip_next_expanded	function
is_defined	function	type	function
is_next_char	function	undefine_macro	function
is_token	function		

tokens (context)

astable	function
bits	table
N active	
N alignment	
N begingroup	
N character	
N close	
N comment	
N endgroup	
N endoffline	
N escape	
N ignore	
N invalid	
N letter	
N mathshift	
N open	
N other	
N parameter	
N space	
N subscript	
N superscript	
N whitespace	
cache	table
U NC	
U NR	
U bf	
U color	
U colordefalc	
U colordefflc	
U colordefflt	
U colordefrft	
U dofinishreference	
U dostarttext	
U finishjob	
U firstofoneargument	
U firstoftwoarguments	
U gobbleoneargument	
U goto	
U iftrue	
U input	
U loadfoundtypescriptfile	
U resetctxscanner	
U rlap	
U scratchcounter	
U scratchdimen	
U scratchmuskup	
U scratchskip	
U scratchtoks	
U secondoftwoarguments	
U setfalsevalue	
U setsectionblock	
U setupsystem	
U startcolumns	
U starttabulate	
U starttitle	
U startxtitle	
U stopcolumns	
U stoptabulate	
U stoptitle	
U stopxtitle	
U texsetup	

U xmlw	
commands	data table
compile	function
constant	function
converters	table
S toboolean	
S todimen	
S toglue	
S tonumber	
S toString	
create	function
defined	function
flags	function
getinteger	function
getters	table
F box	
F count	
F cstoken	
F dimen	
F glue	
F macro	
F meaning	
F skip	
F token	
isdefined	function
istoken	function
new	function
pickup	function
popmacro	function
presets	table
T 1 argument	
T 1 string	
T 2 arguments	
T 2 strings	
T 3 arguments	
T 3 strings	
T 4 arguments	
T 4 strings	
T 5 strings	
T 6 strings	
T 7 strings	
T 8 strings	
pushmacro	function
scanners	table
F argument	
F argumentasis	
F array	
F boolean	
F box	
F bracketed	
F bracketedasis	
F cardinal	
F char	
F cmdchr	
F cmdchrexplanded	
F code	
F conditional	
F count	
F csname	
F delimited	
F dimen	

F dimension
F float
F glue
F gluespec
F gluevalues
F hash
F hbox
F integer
F ischar
F key
F keyword
F keywordcs
F letters
F list
F luacardinal
F luainteger
F luanumber
F lxmlid
F next
F nextexpanded
F number
F optional
F peek
F peekchar
F peekexpanded
F real
F scanclose
F scanopen
F skip
F skipexpanded
F string
F table
F token
F tokencode
F tokenlist
F tokens
F toks
F value
F vbox
F verbatim
F vtop
F whd
F word

setinteger function

setters table

F box
F char
F count
F dimen
F glue
F lua
F macro
F skip

shortcuts table

T bits
N active
N alignment
N begingroup
N character
N close
N comment
N endgroup
N endoffline
N escape

N ignore
N invalid
N letter
N mathshift
N open
N other
N parameter
N space
N subscript
N superscript
N whitespace
N close
F inspect
N open
F report
F scanargument
F scanargumentasis
F scanarray
F scanboolean
F scanbox
F scanbracketed
F scanbracketedasis
F scancardinal
F scanclose
F scancode
F scanconditional
F scancsname
F scandelimited
F scandimen
F scandimension
F scanglue
F scangluespec
F scangluevalues
F scanhash
F scanhbox
F scaninteger
F scankeyword
F scankeywordcs
F scanletters
F scanlist
T scanners
F argument
F argumentasis
F array
F boolean
F box
F bracketed
F bracketedasis
F cardinal
F char
F cmdchr
F cmdchrexploded
F code
F conditional
F count
F csname
F delimited
F dimen
F dimension
F float
F glue
F gluespec
F gluevalues
F hash

F hbox	U firstofoneargument
F integer	U firstoftwoarguments
F ischar	U gobbleoneargument
F key	U goto
F keyword	U iftrue
F keywordcs	U input
F letters	U loadfoundtypescriptfile
F list	U resetctxscanner
F luacardinal	U rlap
F luainteger	U scratchcounter
F luanumber	U scratchdimen
F lxmlid	U scratchmuskip
F next	U scratchskip
F nextexpanded	U scratchtoks
F number	U secondoftwoarguments
F optional	U setfalsevalue
F peek	U setsectionblock
F peekchar	U setupsystem
F peekexpanded	U startcolumns
F real	U starttabulate
F scanclose	U starttitle
F scanopen	U startxtitle
F skip	U stopcolumns
F skipexpanded	U stoptabulate
F string	U stoptitle
F table	U stopxtitle
F token	U texsetup
F tokencode	U xmlw
F tokenlist	D commands
F tokens	F compile
F toks	F constant
F value	T converters
F vbox	S toboolean
F verbatim	S todimen
F vtop	S toglue
F whd	S tonumber
F word	S tostring
F scannumber	F create
F scanopen	F defined
F scanoptional	F flags
F scanstring	F getinteger
F scantable	T getters
F scantokenlist	F box
F scantoks	F count
F scanvbox	F ctoken
F scanverbatim	F dimen
F scanvtop	F glue
F scanword	F macro
F toboolean	F meaning
F todimen	F skip
T tokens	F token
F astable	F isdefined
T cache	F istoken
U NC	F new
U NR	F pickup
U bf	F popmacro
U color	T presets
U colordefalc	F pushmacro
U colordefflc	F setinteger
U colordefflt	T setters
U colordefrlt	F box
U dofinishreference	F char
U dostarttext	F count
U finishjob	F dimen

F glue	F scanhash
F lua	F scanhbox
F macro	F scaninteger
F skip	F scankeyword
T shortcuts	F scankeywordcs
N close	F scanletters
F inspect	F scanlist
N open	F scannumber
F report	F scanopen
F scanargument	F scanoptional
F scanargumentasis	F scanstring
F scanarray	F scantable
F scanboolean	F scantokenlist
F scanbox	F scantoks
F scanbracketed	F scanvbox
F scanbracketedasis	F scanverbatim
F scancardinal	F scanvtop
F scanclose	F scanword
F scancode	F toboolean
F scanconditional	F todimen
F scanscname	F tonumber
F scandelimited	F tostring
F scandimen	D values
F scandimension	F tonumber
F scanglue	F tostring
F scangluespec	values data table
F scangluevalues	

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
default	function
disable	function
done	table
dumphashtofile	function
enable	function
list	function

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

typesetters (context)

alignments	table
F handler	
F set	
breakpoints	table
F define	
F handler	
D mapping	
T methods	
T numbers	
F set	
F setreplacement	
cases	table
T actions	
F handler	
F register	
F set	
characteralign	table
F handler	
F resetcharacteralign	
F setcharacteralign	
characters	table
F handler	
T methods	
F replacensp	
F replacenspaces	
checkers	table
F handler	
F reset	
F set	
cleaners	table
F handler	
F set	
digits	table
T actions	
F handler	
F set	
directions	table
F getfences	
F getglobal	
F getmethod	
F handler	
T handlers	
F installhandler	
F processmath	
F set	
F setcolor	
F setmath	
F tomode	
firstlines	table
T actions	
F default	
F line	
F word	
F handler	
F set	
fontkerns	table
F handler	
initials	table
T actions	
F default	
F addanchortoline	

F addtoline	
F calculatedelta	
F checkline	
F handler	
F moveinline	
F normalize	
F set	
injectors	table
F check	
T list	
F mark	
F reset	
F set	
F show	
italics	table
F enablemath	
F enabletext	
F forcevariant	
F handler	
F reset	
F set	
kerns	table
D factors	
F handler	
F keepligature	
D mapping	
F set	
manipulators	table
F apply	
F applyspecification	
T methods	
F Word	
F Words	
F abbreviatedjournal	
F expandedjournal	
F lowercase	
F stripperperiod	
F uppercase	
T patterns	
U list	
U pair	
F splitspecification	
margins	table
F finalhandler	
F globalhandler	
F localhandler	
F save	
marksuspects	function
paragraphs	table
F addanchortoline	
F addtoline	
F calculatedelta	
F checkline	
F handler	
F moveinline	
F normalize	
F set	
periodkerns	table
D factors	
F handler	
D mapping	

F set
processors table
F apply
F register
F reset
F split
F startapply
F stopapply
F stripped
F tostring
rubies table
F attach
F check
showsuspects function
spacings table
F define
F handler
D mapping
T numbers
T frenchpunctuation
T characters
S name

N number
F reset
F set
F setup
wrappers table
F handler
xtables table
F cleanup
F construct
F create
F finish_row
F flush
F initialize_construct
F initialize_reflow_height
F initialize_reflow_width
F next_row
F reflow_height
F reflow_width
F set_construct
F set_reflow_height
F set_reflow_width

updaters (context)

apply function
register function

url (context)

addscheme	function	hashed	function
barepath	function	hasscheme	function
construct	function	query	function
decode	function	split	function
encode	function	toquery	function
escape	function	unescape	function
filename	function	unescapeget	function

utf8 (basic lua)

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

utilities (context)

debugger	table
F disable	
F enable	
F savestats	
F showstats	
F showtraceback	
files	table
F close	
F getposition	
F getsize	
F look	
F open	
F read2dot14	
F readbyte	
F readbytes	
F readbytetable	
F readcardinal	
F readcardinal1	
F readcardinal11e	
F readcardinal2	
F readcardinal2le	
F readcardinal3	
F readcardinal3le	
F readcardinal4	
F readcardinal4le	
F readcardinaltable	
F readchar	
F readfixed2	
F readfixed4	
F readinteger	
F readinteger1	
F readinteger11e	
F readinteger2	
F readinteger2le	
F readinteger3	
F readinteger3le	
F readinteger4	
F readinteger4le	
F readintegertable	
F readsignedbyte	
F readstring	
F readtag	
F setposition	
F size	
F skip	
F skiplong	
F skipposition	
F skipshort	
F writebyte	
F writecardinal1	
F writecardinal11e	
F writecardinal2	
F writecardinal2le	
F writecardinal3	
F writecardinal3le	
F writecardinal4	
F writecardinal4le	
F writeinteger1	
F writeinteger11e	
F writeinteger2	
F writeinteger2le	

F writeinteger3	
F writeinteger3le	
F writeinteger4	
F writeinteger4le	
F writestring	
formatters	table
F formatcolumns	
F list	
F stripzeros	
garbagecollector	table
F check	
N criterium	
B enabled	
ghostscript	table
F convert	
F statistics	
graphicmagick	table
F convert	
F statistics	
graphicsmagick	table
F convert	
F statistics	
lua	table
B alwaysstripcode	
F checkmemory	
F compile	
F loadedluacode	
F loadstring	
F loadstripped	
N nofstrippedbytes	
N nofstrippedchunks	
F registerfinalizer	
B stripcode	
T strippedchunks	
F strippedloadstring	
T suffixes	
S lua	
S luc	
S lui	
S luj	
S luv	
S tma	
S tmc	
S tua	
S tuc	
packers	table
F hashed	
F new	
F pack	
F simplehashed	
F strip	
F unpack	
N version	
parsers	table
F add_settings_to_array	
F arguments_to_table	
F array_to_string	
F csvsplitter	
F getparameters	
F groupedsplitat	
F hash_to_string	

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

randomizer table

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

randomizers table

F poisson

sequencers table

F appendaction
F appendgroup
F compile
F disableaction
F disablegroup
F enableaction
F enablegroup
D functions
F localize

F new
F nodeprocessor
F prependaction
F prependgroup
F removeaction
F replaceaction
F setkind
F tostring

setters table

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

stacker table

F new

storage table

F allocate
F checked
F mark
F marked
F setinitializer
F sparse

streams table

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

F size
F skip
F skipbytes
F skiplong
F skipshort
strings table
F collapse
F collapsecrlf
T formatters
 F add
 F new
F newcollector
F newrepeater
F nice
T striplinepatterns
 U collapse
 U prune
 U prune and collapse
 U prune and no empty
 U prune and to space
 U retain
 U retain and collapse
 U retain and no empty
F striplines
F striplong
F tabtospace

T tracers
tables table
 F accesstable
 F definedtable
 F definetable
 F encapsulate
 F insertaftervalue
 F insertbeforevalue
 F migratetable
 F removevalue
 F replacevalue
templates table
 F load
 F replace
 F replacer
 F resolve
zipfiles table
 F close
 F found
 F gunzipfile
 F hash
 F list
 F open
 F unzip
 F unzipdir
 F zipdir

visualizers (context)

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

xcomplex (extra lua)

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

xdecimal (extra lua)

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

xmath (extra lua)

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

xml (context)

addentitiesdoctype	function	despecialized	function
addspecialcode	function	each	function
after	function	each_element	function
all	function	elements	function
applylpath	function	elementtocdata	function
applyselector	function	empty	function
assign	function	entities	data table
attribute	function	erase	function
badinclusions	function	errorhandler	function
before	function	escaped	function
body	function	expressions	table
builtinentities	table	F attribute	
B amp		F boolean	
B apos		F child	
B gt		F contains	
B lt		F count	
B quot		F error	
cdata	function	F find	
cdatatotext	function	F hasclass	
checkbom	function	F idstring	
checkerror	function	F lower	
checknamespace	function	F name	
checkns	function	F number	
cleansed	function	F oneof	
collect	function	F print	
collect_elements	function	F quit	
collect_tags	function	F tag	
collect_texts	function	F text	
collected	function	F undefined	
collecttexts	function	F upper	
compactelement	function	fillin	function
content	function	filter	function
convert	function	finalizers	table
copy	function	F paragraphs	
count	function	T tex	
cprint	function	F all	
css	table	F attribute	
F applyselector		F chainattribute	
F colorspecification		F chainpath	
F dimension		F command	
F family		F concat	
F fontspecification		F concatrange	
F mappedstylevalue		F context	
F padding		F count	
F size		F ctxtext	
F style		F default	
F stylevalue		F depth	
F todimension		F first	
F variant		F function	
F weight		F index	
defaulthandlers	table	F last	
D file		F lettered	
D parsedxml		F lower	
D string		F lowerall	
D tex		F match	
D texline		F name	
D texspace		F param	
D verbose		F parameter	
defaultprotocol	string	F position	
delete	function	F reverse	
delete_element	function	F stripped	

F tag	
F tags	
F text	
F upper	
F upperall	
F xml	
T xml	
F all	
F att	
F attribute	
F attributes	
F cdata	
F chainattribute	
F count	
F default	
F elements	
F empty	
F first	
F function	
F index	
F last	
F lowerall	
F match	
F name	
F position	
F reverse	
F table	
F tag	
F tags	
F text	
F texts	
F upperall	
first	function
found	function
functions	table
F classes	
F hasclass	
getbuffer	function
gethandlers	function
gethandlersfunction	function
helpers	table
F recursetext	
include	function
inclusion	function
inclusions	function
index	function
inheritattributes	function
inheritedconvert	function
inject	function
inject_element	function
inject_element_after	function
inject_element_before	function
injectafter	function
injectbefore	function
insert	function
insert_element	function
insert_element_after	function
insert_element_before	function
insertafter	function
insertbefore	function
insertcdata	function
insertcomment	function
inspect	function
is_valid	function

kind	function
last	function
lastmatch	function
load	function
lpath	function
lpathcached	function
lpathcalls	function
lshow	function
makestandalone	function
match	function
name	function
newhandlers	function
nodesettostring	function
originalload	function
package	function
parent	function
parsedentitylpeg	userdata
pihandlers	table
F injector	
F tex	
placeholders	table
F unknown_any_entity	
F unknown_dec_entity	
F unknown_hex_entity	
popmatch	function
position	function
privatecodes	table
privatetoken	function
process	function
process_attributes	function
process_elements	function
processattributes	function
profiled	table
pure	function
pushmatch	function
raw	function
registerentity	function
registerns	function
reindex	function
remap_name	function
remap_namespace	function
remap_tag	function
remapname	function
remapnamespace	function
remaptag	function
rename	function
renamespace	function
reparsedentitylpeg	userdata
replace	function
replace_element	function
resetinjectors	function
resolvns	function
root	function
save	function
selection	function
separate	function
serialize	function
serializetotext	function
setcdata	function
setcomment	function
sethandlersfunction	function
setinjectors	function
setproperty	function
settings	function

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

xzip (extra lua)

adler32 function
compress function
crc32 function

decompress function
expandsize function

zip (extra lua)

archives	table	openarchive	function
closearchive	function	registeredfiles	table

zlib (extra lua)

adler32 function
compress function
crc32 function

decompress function
expandsize function