

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

ConTeXt LMTX

global (alias: _G)

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

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

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

zip
zlib

table
table

attributes (context)

applyoverloads function	N forced
colorintents table	F forcedmodel F forcesupport F formatcolor F formatgray F getpagecolormodel F gray F graytohsv F handler T helpers F complement F inbetween F justone F hsvtogray F hsvtorgb F hwbtorgb F iccprofile F isblack N main S model D models F mpcolor F mpnamedcolor F mpoptions F namedcolorattributes N none F popset F processcolorcomponents F pushset
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

F register
D registered
F registerspotcolor
F rgb
F rgbtocmyk
F rgbtogray
F rgbtohsv
N selector
F setlist
F setmodel
F setpagecolormodel
D sets
F spec
F spot
F spotcolorname
F spotcolorparent
F spotcolorvalue
B supported
F toattributes
F transparencycomponents
B triggering
F usecolors
D valid
F value
D values
B weightgray
define function
effects table
N attribute
D data
F enable
F handler

F register
D registered
D values
handlers table
list data table
markasoverload function
names data table
negatives table
N attribute
D data
F enable
F handler
F register
D registered
F set
numbers data table
ofnode function
private function
public function
restore function
save function
showcurrent function
states table
F disabletriggering
F enabletriggering
F finalize
F initialize
F process
F selective
F stacked
F stacker
system function

tooverloads	function	F toattribute
transparencies	table	B triggering
N attribute		F value
D data		D values
F enable		unsetvalue number
F forcesupport		viewerlayers table
F handler		N attribute
T names		F cleanup
N color		D data
N colorburn		F define
N colordodge		F definedlayoutcomponent
N darken		F enable
N difference		F forcesupport
N exclusion		F handler
N hardlight		B hasorder
N hue		D listwise
N lighten		F register
N luminosity		D registered
N multiply		F resolve_begin
N none		F resolve_end
N normal		F resolve_reset
N overlay		F resolve_step
N saturation		D scopes
N screen		F setfeatures
N softlight		F start
N none		F stop
F register		B supported
D registered		D values
B supported		

backends (context)

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

F mergefields	F stopunicodetoactualtextdirect
F mergereferences	F supportedformats
F mergeviewerlayers	F unicodetoactualtext
F newimage	F useviewerlayer
F prerollreference	F validfield
F presetsymbol	F validfieldcategory
F presetsymbollist	F validfieldset
F processrendering	F wrapimage
F registerdocumentcloseaction	S comment
F registerdocumentopenaction	T nodeinjections
F registeredsymbol	F addtags
F registerpagecloseaction	F annotation
F registerpageopenaction	F attachfile
F registersymbol	F changestackedlayer
F scanimage	F cmykcolor
F setattachmentsupport	F comment
F setfieldcalculationset	F destination
F setfigurealternative	F effect
F setfigurecolorspace	F graycolor
F setfigurermask	F injectbitmap
F setformat	F insertmovie
F setformsmethod	F insertsound
F setpagetransition	F insertswf
F settaggingsupport	F insertu3d
F setupcanvas	F knockout
F setupidentity	F negative
F setxmpfile	F overprint
F startlayer	F positive
F startunicodetoactualtext	F reference
F startunicodetoactualtextdirect	F rgbcOLOR
F stoplayer	F spotcolor
F stopunicodetoactualtext	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	extract function
band function	lrotate function
bnot function	lshift function
bor function	replace function
btest function	rrotate function
bxor function	rshift function

blobs (context)

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

boolean (*context*)

tocontext function

tonumber function

buffers (context)

append	function	F define
assign	function	F hassomecontent
collectcontent	function	F next
erase	function	F place
exists	function	F reset
get	function	F save
getcontent	function	prepend function
getlines	function	raw function
gettextbuffer	function	run function
loadcontent	function	samplefile function
parallel	table	undent function

builders (context)

checksidefloat function	T splitters
kernel table	F define
F hyphenating	F optimize
F hyphenation	T registered
F kerning	F reset
F ligaturing	F set
F mlist_to_hlist	F split
paragraphs table	F start
T constructors	F stop
N attribute	F tag
F define	profiling table
F disable	F add
F enable	F distance
F handler	F fixedprofile
T methods	F get
F basic	F list
F default	F pagehandler
F hpack	F profilebox
F oneline	F set
D names	vspacing table
D numbers	F analyze
F set	D categories
F start	F checkstrutdepth
F stop	F collapsevbox
T expansion	T data
F trace	D map
F keeptogether	D skip
F registertogether	D snapmethods
T solutions	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 toccategories
F toccategory
F vboxhandler

caches (context)

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

callback (basic tex)

find function
known function
list function

register overloaded function
usage function

callbacks (context)

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

catcodes (context)

names data table
numbers data table

register function

characters (context)

activeoffset	number	fromnumber	function
adobename	function	fschars	data table
bidi	data table	fscodes	data table
blockrange	function	getrange	function
blocks	data table	graphemes	data table
casemap	table	hangul	data table
categories	data table	indicgroups	table
category	function	T above_mark	
categorytags	data table	T after_half	
classifiers	table	T after_main	
collapsed	data table	T after_postscript	
contextname	function	T after_subscript	
csletters	data table	T anudatta	
data	data table	T before_half	
decomposed	data table	T before_main	
description	function	T before_postscript	
descriptions	data table	T before_subscript	
detailtags	data table	T below_mark	
directions	table	T consonant	
emoji	table	T dependent_vowel	
F compact		T halant	
F known		T independent_vowel	
F resolve		T nukta	
emojized	function	T post_mark	
enccodes	data table	T pre_mark	
entities	data table	T ra	
fallbacks	data table	T stress_tone_mark	
filters	data table	T twopart_mark	
fractions	table	T vowel_modifier	

initialize	function	shchars	data table
is_character	data table	shcodes	data table
is_command	data table	showstring	function
is_letter	data table	specialchars	data table
is_mark	data table	specials	data table
is_punctuation	data table	splits	table
is_spacing	data table	T char	
is_symbol	data table	T compat	
lcchars	data table	subscripts	table
lccode	function	superscripts	table
lcpcodes	data table	synonyms	data table
lettered	function	tex	table
lhash	data table	D accentmapping	
linebreaks	data table	D commandmapping	
lower	function	F defineaccents	
mathlists	data table	F safechar	
mirrors	table	F toutf	
otfsscripts	data table	F toutfpattern	
private	table	textclasses	table
ranges	data table	tonumber	function
registerentities	function	ucchars	data table
remap_hangul_syllabe	function	uccode	function
setactivecatcodes	function	uccodes	data table
setlettercatcodes	function	uhash	data table
shape	function	unicodechar	function
shaped	function	upper	function
shash	data table		

chemistry (context)

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

containers (context)

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

converters (context)

A	function	alphabetic:es	function
A:es	function	alphabetic:ru	function
A:ru	function	alphabetic:sl	function
A:sl	function	character	function
AK	function	characters	function
Alphabetic	function	chineseallnumerals	function
Alphabetic:es	function	chinesecapnumerals	function
Alphabetic:ru	function	chinesenumerals	function
Alphabetic:sl	function	chr	function
Character	function	chs	function
Characters	function	cn	function
I	function	cn-a	function
KA	function	cn-c	function
KR	function	convert	function
R	function	decimals	function
RK	function	define	function
Romannumerals	function	gregorian_to_hebrew	function
Russiannumerals	function	gregorian_to_jalali	function
Sloveniannumerals	function	hebrewnumerals	function
Spanishnumerals	function	helpers	table
Word	function	hexstringtonumber	function
Words	function	i	function
a	function	isleapyear	function
a:es	function	jalali_to_gregorian	function
a:ru	function	lchexnumber	function
a:sl	function	lchexnumbers	function
abjadnodotnumerals	function	leapyear	function
abjadnumerals	function	lower	function
alphabetic	function	max	function

maxchrs	function	spanishnumerals	function
nicenumber	function	textime	function
nofdays	function	toabjad	function
number	function	tochinese	function
numbers	function	tohebrew	function
octnumber	function	toroman	function
octstringtonumber	function	totime	function
ordinal	function	uchexnumber	function
r	function	uchexnumbers	function
rawcharacter	function	upper	function
romannumerals	function	verbose	table
russiannumerals	function		D data
sequences	data table		F translate
settime	function	weekday	function
sloveniannumerals	function	word	function
spaceddigits	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
preparedfile function

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

document (context)

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

documentdata (context)

variable function

drivers (context)

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

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

environment (context)

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

		images	table
applyratio	function		
badname	function	F check	
bases	data table	F checksize	
bitmapimage	function	F copy	
boxnumber	number	F create	
cachepaths	data table	F embed	
check	function	T keys	
checkers	data table	F print	
converters	data table	F scan	
current	function	F serialize	
defaultdepth	number	T sizes	
defaultheight	number	B art	
defaultsearch	boolean	B bleed	
defaultwidth	number	B crop	
done	function	B media	
dummy	function	B none	
existers	data table	B trim	
exists	function	F totable	
formats	data table	T types	
found	data table	N jbig2	
get	function	N jp2	
getinfo	function	N jpg	
getpdfinfo	function	N memstream	
getrealpage	function	N none	
guess	function	N pdf	
guessfromstring	function	N png	
hash	function	N stream	
identifiers	data table	F wrap	
identify	function	include	function

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

file (basic lua)

addsuffix	function	needsupdating	function
basename	function	pathpart	function
checksum	function	readdata	function
collapsepath	function	removesuffix	function
copy	function	replacesuffix	function
dirname	function	reslash	function
expandname	function	robustname	function
extname	function	savechecksum	function
is_qualified_path	function	savedata	function
is_readable	function	size	function
is_rootbased_path	function	splitbase	function
is_writable	function	splitname	function
isreadable	function	splitpath	function
iswritable	function	strip	function
join	function	suffix	function
joinpath	function	suffixes	function
loadchecksum	function	suffixesonly	function
nameonly	function	suffixonly	function
nametotable	function	syncmtimes	function
needs_updating	function	withinbase	function

fio (extra lua)

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

floats (context)

analysemethod function
checkedpagefloat function
collect function
consult function
flush function
getvariable function
hasstacked function

nofstacked function
pop function
push function
resave function
save function
stacked 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	B addtounicode F aftercopyingcharacters F applymanipulators F assignmathparameters B autocleanup F beforecopyingcharacters D cache
D features		
D initializers		
D methods		
F setstate		
D states		
B useunicodemarks		
checkers	table	B cacheintex F calculatescale F checkedfeatures F checkedfilename F cleanutable
F getmissing		
F missing		
F placeholder		
cid	table	F collectprocessors F currentfonthasfeature
F getmap		
F loadfile		
collections	table	D designsizes D dontembed F enhanceparameters T enhancers
F checkenabled		
F clonevector		
F define		
T definitions		
F found		T afm
F prepare		F apply
F process		F patch
F registermain		T patches
F report		F register
F reset		F report
T vectors		F register
		F report
constructors	table	T otf
F addcharacters		F addfeature
F addcoreunicodes		F apply

F enhance	D bothkerned
F patch	D leftkerned
T patches	D ligatures
F register	D rightkerned
F report	D texligatures
F register	F load
F report	T readers
T tfm	F getinfo
F apply	F loadfont
F patch	F loadshapes
T patches	F setfeatures
F register	B syncspace
F report	N version
F register	T otf
F report	F addfeature
N factor	F basemodeinitializer
T features	D cache
D afm	F collectlookups
D otf	T coverup
D tfm	T actions
F finalize	F alternate
B fixprotrusion	F chainposition
F getfeatureaction	F chainsubstitution
F getmathparameter	F kern
F getprivate	F ligature
T handlers	F multiple
T afm	F pair
B autoprefixed	F single
D cache	F substitution
D features	F register
F getkern	S stepkey
T helpdata	F dataset

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

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

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

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

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

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

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

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

F tounicode	F opentype
F tounicode16	F otf
F tounicode16sequence	F pfb
metapost table	D sequence
F boundingbox	F tfm
F boxtomp	F ttc
F draw	F ttf
F fill	F woff
F maxbounds	reserveid function
F output	select table
F paths	D alternatives
F widthline	F bodyfont
F zeroiline	D data
mp table	F default
D cache	D defaults
B inline	F definefallbackfamily
N version	F definefontfamily
names data table	F definefontfamilypreset
nulldata data table	D extras
privateoffsets table	F fallback
B keepnames	D fallbacks
N mathbase	F features
N mathextrabase	F filefallback
N textbase	F fontdata
N textextrabase	F fontfallback
protrusions data table	F fontsynonym
readers table	F goodies
F afm	F mathfallback
F check_lua	D methods
F check_tfm	D presets
F lua	F registerfallback
F ofm	F registerfiles

F registerfontalternative
F registerfontfamily
F textfallback
F typeface
F typescript
F userdata
specifiers table
D contextmerged
F contextnumber
D contextnumbers
D contextsetups
F contexttostring
F definecontext
F mergecontext
F presetcontext
F registercontext
F showcontext
F splitcontext
D synonyms

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

functions (context)

dummy function

graphics (context)

backgrounds table

F fetchmultipar
F pair
F path
F point

bitmaps table

F flush
F new

F placeholder

F tocontext

identifiers table

F bitmap
F jp2
F jpg
F png

identify function

gzip (extra lua)

compress function
compressed function
decompress function

load function
save function
suffix function

images (context)

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

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

io (basic lua)

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

job (context)

comment	function	F save
datasets	table	F set D tobesaved
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	F define
initialize	function	F find
load	function	F first
loadotherobjects	function	F get
objects	table	F getcollected
D collected		F getdata
F get		F getfield
F number		F gettobesaved
F page		F inlist

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

structure	table	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)

<code>clean</code>	function	<code>id</code>	function
<code>clear_hyphenation</code>	function	<code>new</code>	function
<code>clear_patterns</code>	function	<code>patterns</code>	function
<code>current</code>	function	<code>postexhyphenchar</code>	function
<code>gethjcode</code>	function	<code>posthyphenchar</code>	function
<code>has_language</code>	function	<code>preexhyphenchar</code>	function
<code>hyphenate</code>	function	<code>prehypenchar</code>	function
<code>hyphenation</code>	function	<code>sethjcode</code>	function
<code>hyphenationmin</code>	function		

languages (context)

associate	function	F setmethod
associated	data table	F setup
association	function	F showhyphenationtrace
counters	data table	T traditional
current	function	F definefeatures
data	data table	F gettrace
decimals	data table	F hyphenate
define	function	F injecthyphens
explicithyphen	function	F installmethod
flatten	function	F lasttrace
frequencies	table	F loadpatterns
		F registerexception
		F registerpattern
		F setfeatures
getdata	function	
getnumber	function	installed function
hjcounts	table	labels table
hyphenate	function	
hyphenators	table	
		F define
		F split
		loadable function
		loadwords function
		logger table
		F report
		nofflattened function
		numbers data table
		postexhyphenchar function
		posthyphenchar function
		preexhyphenchar function
		prehyphenchar function
		registered data table
		T dictionaries
		D featuresets
		F handler
		T methods
		F expanded
		B none
		F original
		F tex
		F traditional
		F popmethod
		F pushmethod

replacements	table	D mapping B packslashes N righthyphenmin F setcharacters
F add		
F addlist		
F handler		
F set		
serializeddiscretionary	function	
setexceptions	function	
setsynonym	function	
showdiscretionaries	function	
transliteration	table	
F define		
F handler		
F set		
unload	function	
urls	table	
D characters		
N lefthyphenmin		
		version number
		visualizediscretionaries function
		words table
		F check
		T data
		F disable
		F enable
		T enablers
		B enables
		F found
		F load
		T methods
		N threshold

layouts (context)

status table

F isleftpage

F leftorrightpageaction

lfs (extra lua)

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

libraries (context)

basiclua data table
basictex data table
builtin data table
extralua data table

extratex data table
functions data table
globals data table

lmx (context)

color	function	loadedfile	function
convert	function	make	function
convertfile	function	new	function
convertstring	function	overloaderror	function
inject	function	popupfile	function
eprint	function	print	function
escape	function	pv	function
finalized	function	report	function
finject	function	reset	function
fprint	function	result	function
get	function	set	function
getvariables	function	show	function
htmfile	function	showdebuginfo	function
html	table	showerror	function
F a		stripcss	function
F td		tv	function
F th		type	function
include	function	urlescape	function
inherited	table	variable	function
S color-background-four		variables	table
S color-background-one		S color-background-blue	
S color-background-three		S color-background-body	
S color-background-two		S color-background-green	
S title		S color-background-main	
initialize	function	S color-background-purple	
inject	function	S color-background-yellow	
lmxfile	function	S title-default	

logs (context)

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

lpdf (context)

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

F plugin		N printable
T resolvers		T widgets
F destinations		N Comb
F embeddedfiles		N CommitOnSelChange
F javascripts		N DoNotScroll
F layers		N DoNotSpellCheck
F pages		N Edit
F structure		N FileSelect
F widgets		N MultiLine
F stripcontent		N NoExport
F unload		N NoToggleToOff
escaped	function	N Password
finalizedocument	function	N PopUp
finalizefonts	function	N PushButton
finalizepage	function	N Radio
finishtransparencycode	function	N RadiosInUnison
flags	table	N ReadOnly
		N Required
T annotations		N RichText
N AutoView		N Sort
N Hidden		N file
N Invisible		N fixed
N Locked		N nocheck
N LockedContents		N protected
N NoRotate		N readonly
N NoView		N required
N NoZoom		N sorted
N Print		N unavailable
N Printable		
N ReadOnly		flushfonts function
N ToggleNoView		flushgroup function
N auto		flushobject function
N hidden		flushstreamfileobject function

flushstreamobject	function	layerreference	function
formats	data table	limited	function
frombytes	function	linearshade	function
fromeight	function	literal	function
frompdfdoc	function	majorversion	function
fromsixteen	function	makenametree	function
getcatalog	function	minorversion	function
getcompression	function	nopages	function
getfontname	function	null	function
getfontobjnumber	function	number	function
getinfo	function	obj	function
getmapentry	function	objectcompresslevel	function
getmetadata	function	pagereference	function
getnumpages	function	patternstream	function
getpageproperties	function	pdfcolor	function
getpagetags	function	pdftimestamp	function
getversion	function	permitdetail	function
getxformname	function	print	function
graycode	function	procset	function
id	function	protectresources	boolean
immediateobj	function	rectangle	function
includechar	function	reference	function
includecharlist	function	registerannotation	function
includefont	function	registerdestination	function
includeimage	function	registerdocumentfinalizer	function
injectors	table	registerfont	function
F bitmap		registerpagefinalizer	function
F jp2		registerpattern	function
F jpg		reserveobject	function
F png		rgbcode	function
injectxmpinfo	function	rotationcm	function
insertxmpinfo	function	setcompression	function

setdates	function	stream	function
setmapfile	function	string	function
setmapline	function	toeight	function
setomitcharset	function	topdfdoc	function
setomitcidset	function	tosixteen	function
setpageorder	function	transparency	function
setpagetag	function	transparencycode	function
setsuppressoptionalinfo	function	transparencygroups	table
settime	function	B none	
settrailerid	function	transparencyvalue	function
setversion	function	unicode	function
shareobject	function	usedcharacters	table
shareobjectreference	function	verbose	function
spotcode	function	vfimage	function

lpeg (basic lua)

B	function	firstofssplit	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	secondofssplit	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	lastbytecode	number
bytedata	data table	macros	table
bytedone	table	B	enabled
callbytecode	function	F	loaded
collectgarbage	function	F	required
delay	function	F	reset
finalize	function	F	resolvestring
firstbytecode	number	F	resolving
flush	function	F	showdefinitions
flushdelayed	function	messages	data table
get_functions_table	function	newindex	function
getbytecode	function	newtable	function
getcurrenttime	function	numbers	data table
getfunctionstable	overloaded function	registercode	function
gethashchars	function	registeredcodes	function
getpreciseseconds	function	registerfinalizer	function
getpreciseticks	function	registername	function
getruntime	function	setbytecode	function
getstacktop	function	setexitcode	function
getstartupfile	function	startupfile	string
getversion	function	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
registerstempfile	function	F setfilename
starttime	number	F setup
synctex	table	F start
F blockfilename		F stop
F collect		F wrapup
F disable		
F enable		
		wrapup function

lxml (context)

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

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

tofile function
toparameters function
tovverbatim function

verbatim function
withindex 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	setrandomseedi	function
even	function	sin	function
exp	function	sind	function
floor	function	sinh	function
fmod	function	sqrt	function
huge	number	tan	function
initialseed	number	tand	function
ldexp	function	tanh	function
log	function	tointeger	function
log10	function	type	function
max	function	ult	function
maxinteger	number		

mathematics (context)

addfallbacks	function	getdomain	function
alphabets	data table	getitalics	function
alternatives	data table	getridofprime	function
big	function	getstyle	function
boldmap	data table	horizontalcode	function
categories	table	initializeparameters	function
D functions		makefont	function
charactersets	data table	mapremap	data table
checkaccentbaseheight	function	overloadadddimensions	function
checkprivateparameters	function	overloadparameters	function
classes	data table	privatebase	number
codes	data table	registerdomain	function
define	function	registerfallbackid	function
dimensions	function	remapalphabets	function
domains	table	renderings	table
extensiblecode	function	D mappings	
extensibles	data table	D numbers	
extrabase	number	D sets	
extras	table	renderset	function
F add		resetattributes	function
F copy		resetitalics	function
fallbacks	table	resolvefallbacks	function
F apply		scaleparameters	function
F install		setdomain	function
fallbackstyleattr	function	setitalics	function
families	data table	setridofprime	function
finishfallbacks	function	sets	data table
gaps	data table	styles	data table
getboth	function	syncboth	function

syncname	function	utfmathaccent	function
syncstyle	function	utfmathclass	function
toname	function	utfmathcommand	function
tostyle	function	utfmathfiller	function
tweakaftercopyingfont	function	utfmathstretch	function
tweakbeforecopyingfont	function	virtualize	function
 tweaks	table	virtualized	data table

md5 (extra lua)

HEX function
dec function
hex function

sum function
sumHEXA function
sumhexa function

metapost (context)

checkformat	function	N interim
cm	function	N internal
codes	table	N iteration
N addto		N join
N ampersand		N leftbrace
N and		N leftbracket
N assignment		N leftdelimter
N atleast		N let
N begingroup		N macrospecial
N btex		N maketext
N capsule		N message
N colon		N mode
N comma		N newinternal
N controls		N nullary
N curl		N numeric
N cycle		N of
N declare		N ofbinary
N def		N outertag
N definedmacro		N parameterstype
N delimiters		N plus_or_minus
N endgroup		N primarybinary
N equals		N primarydef
N etex		N randomseed
N everyjob		N relax
N exitif		N repeat_loop
N expandafter		N rightbrace
N fi_or_else		N rightbracket
N if		N rightdelimter
N input		N runscript

N save		currenttmpx	function
N scantokens		currenttmpxstatus	function
N scope		defaultformat	string
N secondarybinary		defaultinstance	string
N secondarydef		defaultmethod	string
N semicolon		directrun	function
N setbounds		escaped	function
N shipout		execetime	table
N show		extensiondata	data table
N skip		filterclippath	function
N slash		flush	function
N special		flushers	table
N step		T pdf	
N stop		F comment	
N str		F flushfigure	
N string		F startfigure	
N tag		F stopfigure	
N tension		F textfigure	
N tertiarybinary		flushliteral	function
N tertiarydef		flushnormalpath	function
N thingstoadd		flushreset	function
N to		fonts	table
N unary		F define	
N undefinedcs		T flusher	
N until		F flushfigure	
N void		F startfigure	
N with		F stopfigure	
N within		N instances	
N write		F process	
colorinitializer	function	format_number	function
comment	function	format_string	function
convert	function	formatnumber	function

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

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

mime (extra lua)

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

mp (context)

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

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

mf_blob_add	function	newhash	function
mf_blob_dimensions	function	number	function
mf_blob_index	function	numeric	function
mf_blob_new	function	pair	function
mf_blob_raw_content	function	pairpoints	function
mf_blob_raw_dimensions	function	path	function
mf_blob_raw_reset	function	pathpoints	function
mf_blob_raw_toutf	function	points	function
mf_blob_raw_wipe	function	positionanchor	function
mf_blob_size	function	positionbox	function
mf_blob_width	function	positioncurve	function
mf_external_figure	function	positionpage	function
mf_finish_saving_data	function	positionpath	function
mf_formatted_text	function	positionpxy	function
mf_get_outline_text	function	positionregion	function
mf_graphic_text	function	positionwhd	function
mf_inject_blob	function	positionxy	function
mf_made_text	function	prefix	function
mf_map_move	function	print	function
mf_map_text	function	processingmode	function
mf_named_color	function	quadruple	function
mf_outline_text	function	quadruplepoints	function
mf_save_data	function	quoted	function
mf_script_index	function	report	function
mf_some_text	function	scan	table
mf_start_saving_data	function	F boolean	
mf_stop_saving_data	function	F cmykcolor	
mf_tb_dimensions	function	F color	
mf_tt_dimensions	function	F expression	
mf_tt_initialize	function	F integer	
mode	function	F next	
n	function	F number	

F numeric		solve	function
F pair		string	function
F path		systemmode	function
F pen		texstr	function
F string		texttextanchor	function
F symbol		texvar	function
F token		tohash	function
F transform		transform	function
set	table	triplet	function
setcount	function	tripletpoints	function
setdimen	function	utflen	function
setmacro	function	utfsub	function
settoks	function	vprint	function
size	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		realtimelogging	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 resize
F alternates		F showtree
F autofences		F tags
F classes		F unscript
F collapse		F unstack
F domains		F variants
F families		process function
F fixscripts		processnested function
F italics		processors table
F kernpairs		F <code>mlist_to_hlist</code>
F makeup		T unscript
F relocate		T unstack
F render		processouter function

node (basic tex)

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

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

F setfield	F setwhd
F setfont	F setwidth
F setglue	F slide
F setglyphdata	F start_of_par
F setheight	F tail
F setindex	F todirect
F setkern	F tonode
F setlanguage	F tostring
F setleader	F tovaliddirect
F setlink	F traverse
F setlist	F traverse_char
F setnext	F traverse_content
F setnucleus	F traverse_glyph
F setoffsetsets	F traverse_id
F setoptions	F traverse_list
F setorientation	F type
F setpenalty	F unprotect_glyph
F setpost	F unprotect_glyphs
F setpre	F unset_attribute
F setprev	F usedlist
F setproperty	F uses_font
F setreplace	F vertical_break
F setscript	F vpack
F setshift	F write
F setsplit	effective_glue function
F setstate	end_of_math function
F setsub	family_font function
F setsubpre	fields function
F setsubtype	find_attribute function
F setup	first_glyph function
F setsuppre	flatten_discretionaries function
F settotal	flush_list function

<code>flush_node</code>	function	<code>protect_glyphs</code>	function
<code>free</code>	function	<code>protrusion_skippable</code>	function
<code>get_attribute</code>	function	<code>rangedimensions</code>	function
<code>get_glue</code>	function	<code>remove</code>	function
<code>get_properties_table</code>	function	<code>set_attribute</code>	function
<code>getfield</code>	function	<code>set_glue</code>	function
<code>getproperty</code>	function	<code>setfield</code>	function
<code>has_attribute</code>	function	<code>setProperty</code>	function
<code>has_field</code>	function	<code>slide</code>	function
<code>has_glyph</code>	function	<code>subtypes</code>	function
<code>hpack</code>	function	<code>tail</code>	function
<code>hyphenating</code>	function	<code>toString</code>	function
<code>id</code>	function	<code>traverse</code>	function
<code>insert_after</code>	function	<code>traverse_char</code>	function
<code>insert_before</code>	function	<code>traverse_glyph</code>	function
<code>instock</code>	function	<code>traverse_id</code>	function
<code>inuse</code>	function	<code>traverse_list</code>	function
<code>is_node</code>	function	<code>type</code>	function
<code>is_zero_glue</code>	function	<code>types</code>	function
<code>kerning</code>	function	<code>unprotect_glyph</code>	function
<code>last_node</code>	function	<code>unprotect_glyphs</code>	function
<code>length</code>	function	<code>unset_attribute</code>	function
<code>ligaturing</code>	function	<code>usedlist</code>	function
<code>make_extensible</code>	function	<code>uses_font</code>	function
<code>mlist_to_hlist</code>	function	<code>values</code>	function
<code>new</code>	function	<code>vpack</code>	function
<code>optimize_unset_attribute</code>	function	<code>write</code>	function
<code>protect_glyph</code>	function		

nodes (context)

accentcodes	data table	N attribute
aligned	function	T done
append	function	F handler
apply	function	T stack
applyvisuals	function	dimensions function
astable	function	dircodes data table
basepoints	function	directioncodes data table
boundarycodes	data table	directionvalues data table
boxes	table	dirvalues data table
	F dimensions	disccodes data table
	F direct	discretionarycodes data table
	F found	effective_glue function
	F reset	end_of_math function
	F restore	fencecodes data table
	F save	fields function
	F savenode	fieldtypes table
builders	table	fillcodes data table
	F buildpage_filter	fillvalues data table
	F vpack_filter	find_attribute function
check_discretionsaries	function	first_glyph function
concat	function	firstcharacter function
copy	function	firstcharinbox function
copy_list	function	firstdirinbox function
copy_node	function	firstglyph function
count	function	flatten_discretionsaries function
countall	function	flush function
current_attributes	function	flush_list function
delete	function	flush_node function
destinations	table	free function

fullhpack	function	F stripping
getattr	function	F textbackgrounds
getattribute	function	F unprotectglyphs
getboth	function	
getbox	function	
getchar	function	
getfield	function	
getfont	function	
getid	function	
getleader	function	
getlist	function	
getnext	function	
getprev	function	
getsubtype	function	
gluecodes	data table	
glyphcodes	data table	
handlers	table	
		F accessibility
		F backgrounds
		F backgroundspage
		F backgroundsvbox
		F characters
		F checkglyphs
		F checkparcounter
		F cleanupbox
		F cleanuppage
		F export
		F finalizebox
		F flatten
		F flattenline
		F migrate
		F protectglyphs
		F stripping
		F textbackgrounds
		F unprotectglyphs
		has_attribute function
		has_field function
		has_glyph function
		hpack function
		hyphenating function
		idsandsubtypes function
		idstostring function
		injections table
		F copy
		F getligaindex
		F getthreshold
		F handler
		F installgetspaceboth
		F installnewkern
		F isspace
		F keepcounts
		F reset
		F resetcounts
		F setcursive
		F setkern
		F setligaindex
		F setmark
		F setmove
		F setposition
		F setspacekerns
		insert_after function
		insert_before function
		insert_list_after function
		installattributehandler function

is_direct	function	listcodes	data table
is_display_math	function	listtoutf	function
is_node	function	literalvalues	data table
is_nut	function	load	function
is_zero_glue	function	locate	function
kerncodes	data table	markers	table
kerning	function		F get
keys	table	mathcodes	data table
		maxboxwidth	function
last_node	function	migrations	table
leftmarginwidth	function		F setinserts
length	function		F setmarks
ligaturing	function	mlist_to_hlist	function
linefillers	table	new	function
		noadcodes	data table
D data		noadoptions	table
F define			N axis
F enable			N exact
F filler			N left
F handler			N middle
lines	table		N no_axis
T boxed			N right
F register			N set
F setup			N unused_1
F stage_one			N unused_2
F stage_two		nodecodes	data table
D data		nopts	function
F finalize		nuts	table
F number			F append
N scratchbox			F apply
link	function		F applyvisuals
linked	function		F check_discretionaries
list	function		

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

F getoffsets	F insert_list_after
F getoptns	F is_display_math
F getorientation	F is_node
F getpenalty	F is_nut
F getpost	F is_zero_glue
F getpre	F ischar
F getprev	F isdone
F getprop	F isglyph
F getreplace	F kerning
F getruledata	F last_node
F getscript	F leftmarginwidth
F getshift	F length
F getstate	F ligaturing
F getsub	F link
F getsubpre	F linked
F getsubtype	F locate
F getsup	F migrate
F getsuppre	F mlist_to_hlist
F getsurround	F nestedtracedslide
F getsynctexfields	F new
F gettotal	T pool
F getvalue	F accent
F getwhd	F baselineskip
F getwidth	F boundary
F has_attribute	F choice
F has_dimensions	F cleanup
F has_field	F delim
F has_glyph	F delimiter
F hpack	F direction
F hyphenating	F directliteral
F insert_after	F disc
F insert_before	F emptyrule

F fence	F rule
F fontkern	F save
F fraction	F savepos
F glue	F setmatrix
F glucspec	F shrink
F glyph	F stock
F hlist	F stretch
F indentskip	F subbox
F italic kern	F submlist
F kern	F temp
F latelua	F usage
F leader	T userids
F lefthangskip	N margins.inline
F leftmargin kern	N splitters.one
F leftskip	N splitters.two
F lineskip	F usernode
F literal	F userrule
F mathchar	F vlist
F mathtextchar	F wordboundary
F negatedglue	F prepend
F noad	F processranges
F originliteral	F processwords
F outlinerule	F protect_glyph
F pageliteral	F protect_glyphs
F penalty	F protrusion_skippable
F radical	F rangedimensions
F rawliteral	F rawprop
F register	F reference
F restore	F rehpack
F righthangskip	F remove
F rightmargin kern	F repackhlist
F rightskip	F replace

F reverse	F setglue
F rightmarginwidth	F setglyphdata
T rules	F setheight
T ruleactions	F setkern
F box	F setlang
F draw	F setlanguage
F fill	F setleader
F mp	F setlink
F stroke	F setlist
F userrule	F setnext
F set_attribute	F setnucleus
F set_components	F setoffsets
F setattr	F setoptions
F setattribute	F setorientation
F setattributelist	F setparproperty
F setattributes	F setpenalty
F setattrlist	F setpost
F setattrs	F setpre
F setboth	F setprev
F setbox	F setprop
F setboxglue	F setreplace
F setchar	F setruledata
F setcomponents	F setscript
F setdata	F setshift
F setdepth	F setsplit
F setdirection	F setstate
F setdisc	F setsub
F setdiscretionary	F setsuppre
F setexpansion	F setsubtype
F setfam	F setsup
F setfield	F setsuppre
F setfont	F setsurround

F	setsynctexfields	F	char
F	setunsetattributes	F	content
F	setvalue	F	dir
F	setvisual	F	disc
F	setvisuals	F	glue
F	setwhd	F	glyph
F	setwidth	F	hlist
F	slide	F	list
F	somenpenalty	F	next
F	somespace	F	node
F	splitbox	F	vlist
F	start_of_par	F	whatsit
F	striprange	T	typesetters
F	tail	F	tohbox
F	takeattr	F	tohpack
F	takebox	F	tonodes
F	takelist	F	tovbox
F	theprop	F	tovpack
F	tonode	F	unprotect_glyph
F	tonodes	F	unprotect_glyphs
F	tonut	F	unset_attribute
F	tosequence	F	unsetattribute
F	tostring	F	unsetattributes
F	tracedslide	F	untracedslide
F	traverse	F	usedlist
F	traverse_char	F	uses_font
F	traverse_content	F	vianodes
F	traverse_glyph	F	vianuts
F	traverse_id	F	vpack
F	traverse_list	F	write
T	traversers	packlist	function
F	boundary	parcodes	data table

penaltycodes	data table	F stock
plugindata	table	F usage F vlist
F finalizer		
F initializer		
S name		
T namespace		
N attribute		
D data		
F enable		
F handler		
F register		
D registered		
D values		
F processor		
points	function	
pool	table	
F baselineskip		
F cleanup		
F directliteral		
F glyph		
F hlist		
F latelua		
F lineskip		
F literal		
F originliteral		
F register		
F restore		
F rule		
F save		
F savepos		
F setmatrix		
F special		
prepend		function
print		function
processors		table
	F contribute_filter	
	B enabled	
	F hpack_filter	
	F post_linebreak_filter	
	F pre_linebreak_filter	
	F tracer	
properties		table
	T data	
protect_glyph		function
protect_glyphs		function
protrusion_skippable		function
pts		function
radicalcodes		data table
rangedimensions		function
reference		function
references		table
	N attribute	
	T done	
	F handler	
	T stack	
repack		function
remove		function
repackhlist		function
replace		function
report		function
rightmarginwidth		function

rulecodes	data table	showboxes	function
rules	table	showlist	function
D data		showsimplist	function
F define		skipcodes	data table
F enable		slide	function
F handler		snapshots	table
F userrule		F getsamples	
save	function	F resetsamples	
serialize	function	F takesample	
serializebox	function	somepenalty	function
set_attribute	function	somespace	function
setattr	function	splitbox	function
setattribute	function	start_of_par	function
setattributes	function	stripdiscretionaries	function
setboth	function	stripping	table
setbox	function	T glyphs	
setboxtonaturalwd	function	F set	
setchar	function	subtypes	data table
setfield	function	tail	function
setfont	function	takeattr	function
setleader	function	takebox	function
setlink	function	tasks	table
setlist	function	F actions	
setnext	function	F appendaction	
setprev	function	F disableaction	
setunsetattributes	function	F disablegroup	
shifts	table	F enableaction	
D data		F enablegroup	
F define		F freeze	
F enable		F freezegroup	
F handler		F new	
show	function	F prependaction	

F removeaction		F reset
F replaceaction		F set
F restart		F setlist
F setaction		F directions
F showactions		F fontchar
F table		T frequencies
tobasepoints	function	F register
tocentimeters	function	T pool
tociceros	function	T nodes
todidots	function	F rule
todimen	function	T nuts
toinches	function	F rule
tomillimeters	function	F resetproperties
tonode	function	F rule
tonodes	function	F setlist
tonut	function	F setproperties
topicas	function	F start
topoints	function	T steppers
toscaledpoints	function	F check
tosequence	function	F codes
toString	function	F features
totable	function	F font
totree	function	F glyphs
toutf	function	F message
tracers	table	F messages
T characters		F nofsteps
F collect		F register
F equal		F reset
F start		F start
F string		F stop
F unicodes		F stop
T colors		T transparencies

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

number (context)

basepoints function
bytetodecimal function
compactfloat function
decimaltobyte function
dimenfactors data table
formatted function
formattedfloat function
idiv function
maxdimen number
nopts function
percent function
points function
pts function
signed function
sparseexponent function
splitdimen function
to16dot16 function

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

objects (context)

data table
dimensions function
found function
n number

page function
reference function
register function
restore function

optional (context)

curl	table	F reset F escape F fetch F getversion F initialize F unescape	F setclosefile F setconsole F setfindfile F setopenfile F setreadfile F setseekfile
ghostscript	table	F execute F initialize	mysql table F close F execute F getmessage F initialize F open
graphicsmagick	table	F execute F initialize	postgress table F close F execute F getmessage F initialize F open
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	sqlite table F close F execute F getmessage F initialize F open
loaded	table		zint table F execute F initialize
mujs	table	F dofile F execute F initialize	

os (basic lua)

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

package (basic lua)

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

pagebuilders (context)

columnsets table	
F add	F setsize
F block	F sethspan
F check	F setlines
F currentcolumn	F setproperties
F define	F setstart
F finishflush	F setvsize
F flushareas	
F flushcolumn	
F flushrest	
F goto	
F noto	
F prepareflush	
F put	
F registerarea	
F reset	
F setarea	
	injections table
	F flushafter
	F flushbefore
	F save
	mixedcolumns table
	F cleanup
	F finalize
	F getlist
	F getrest
	F getsplit
	F setsplit

pdf (basic tex)

immediateobj function

pdfe (extra tex)

arraytotable	function	getnumber	function
close	function	getpage	function
closesstream	function	getpages	function
dictionarytotable	function	getsize	function
encryptioncodes	data table	getstatus	function
getarray	function	getstream	function
getboolean	function	getstring	function
getbox	function	gettrailer	function
getcatalog	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	F index
analyze	function	F keywords
anywhere	function	F num
authorcache	data table	F page
authorcollapsers	data table	F short
authorhashers	table	F tag
	F invertedshort	F texnum
	F normal	F year
	F normalinverted	
	F normalshort	
	F sequential	collected data table
	F sequentialshort	components table
	F short	F author
authormap	data table	concatstate function
authortoregister	function	converttixml function
casters	table	currentspecification table
	F author	S author
	F keyword	T categories
	F pagenumber	T article
	F range	S category
		T extra
checkeddataset	function	T fields
citevariants	table	S author
	F author	S editor
	F authornum	S journal
	F authoryear	S keywords
	F authoryears	S note
	F category	S number
	F default	S pages
	F entry	S title
		S volume

S year	S author
T optional	S institution
T required	S organization
T sets	S subtitle
T author	S title
T virtual	S year
T book	T optional
S category	T required
T extra	T sets
T fields	T author
S address	T virtual
S author	T demo-b
S edition	S category
S editor	T extra
S keywords	T fields
S note	S author
S number	S institution
S publisher	S organization
S subtitle	S subtitle
S title	S title
S volume	S year
S year	T optional
T optional	T required
T required	T sets
T sets	T authors
T author	T virtual
T editionset	S comment
T virtual	S copyright
T demo-a	T fields
S category	S name
T extra	T types
T fields	S author

S editor		firstofrange	function
S keywords		found	function
S number		get	function
S page		getcasted	function
S pages		getdetail	function
S volume		getdirect	function
S version		getfaster	function
D virtual		getfield	function
T virtualfields		getfuzzy	function
B authornum		getindex	function
B authoryear		inspectors	data table
B authoryears		journals	table
B num		F abbreviated	
B suffix		F add	
datasets	table	F expanded	
detailed	table	F load	
endnotes_to_btx	function	F save	
enhancer	table	lastofrange	function
S arguments		lists	table
T askip		F collectentries	
B dirty		F combiinlist	
T gskip		F fetchentries	
T kind		F filterall	
T list		F flushcombi	
T system		F flushentry	
T order		F flushtag	
N steps		T methods	
enhancers	table	F dataset	
F details		F force	
F order		F global	
F suffixes		F local	
finder	function	F nogregistered	

F	prepareentries		loadreplacementfile	function
F	register		new	function
F	sameasprevious		okay	function
T	sorters		oneorrange	function
F	cite		parenttag	function
F	dataset		permitted	function
F	default		prerollcmdstring	function
F	index		refman_to_btx	function
F	list		resolvedname	function
F	reference		save	function
F	short		savers	table
F	used		F	bib
F	uservariable		F	lua
			F	xml
listvariants		table	search	function
F	default		setcategory	function
F	index		setspecification	function
F	num		singularorplural	function
F	short		sortedentries	function
F	tag		sortmethods	table
load		function	T	authoryear
loadbibdata		function	T	sequence
loaddefinitionfile		function	specifications	table
loaders		table	T	default
F	bbl		S	author
F	bib		S	comment
F	buffer		S	copyright
F	endnote		S	name
F	json		S	version
F	lua		D	virtual
F	refman		splitauthor	function
F	registercleaner		splitoneauthor	function
F	xml			

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

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	filtered_from_content	function
appendhash	function	find_file	function
automount	function	find_files	function
booleanvariable	function	findbinfile	function
cacheversion	string	findctxfile	function
checkedvariable	function	finders	data table
cleanedpathlist	function	findfile	function
cleanpath	function	findfiles	function
cleanpathlist	function	findgivenfile	function
concatinators	data table	findgivenfiles	function
configbanner	string	findlib	function
configurationfiles	function	findpath	function
dangerous	data table	findtexfile	function
datastate	function	findwildcardfile	function
defaultsuffixes	table	findwildcardfiles	function
dirstatus	function	formatofsuffix	function
dowithfilesandreport	function	formatofvariable	function
dowithfilesintree	function	formats	data table
dowithpath	function	foundintree	function
dowithvariable	function	foundintrees	function
executers	table	generators	data table
expandbraces	function	get_from_content	function
expandedpathfromlist	function	getenv	function
expandedpathlist	function	getextrapaths	function
expandedpathlistfromvariable	function	getfilehashes	function
expandpath	function	gethashes	function
expandpathfromvariable	function	getownpath	function
expansion	function	getreadfilename	function
extendtexmfvariable	function	hashers	data table

homedir	string	F convertfile
initialized	function	F decodecomment
installinputfilehandler	function	F enablecomment
installinputlinehandler	function	F encodecomment
jobpath	function	F preprocessed
jobs	table	F processmk
F currentcomponent		F processmklx
F currentenvironment		F processmkvi
F currentproduct		F version
F currentproject		
F justacomponent		maxreadlevel number
D processors		methodhandler function
F productcomponent		openbinfile function
F usefile		openers data table
joinpath	function	openfile function
knownvariables	function	opentexfile function
libraries	table	ownpath string
F optionalloaded		popextrapath function
F validoptional		popinputname function
load	function	poppath function
loadbinfile	function	prefixes data table
loaders	data table	prependhash function
loadlualib	function	pushextrapath function
loadtexfile	function	pushinputname function
loadtime	function	pushpath function
locateformat	function	registerextrapath function
locators	data table	registerfile function
luacnffallback	string	registerfilehash function
luacnfname	string	registerintrees function
luacnfspec	string	registermethod function
luacnfstate	string	registerzipfile function
macros	table	relations data table
		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	suffixofformat	function
scanfiles	function	texdatablob	function
schemes	table	toppath	function
T cleaners		unexpandedpath	function
F md5		unexpandedpathlist	function
F none		unresolve	function
F strip		updatrelations	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	variableofformat	function
showpath	function	variableofformatorsuffix	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	setfilename logger	function
logcalls	function	setlogger	function
logfiles	function	setreporter	function
original	function	settrace	function
overload	function	validfilename	function

scripts (context)

```
autofontfeature table
  F disable
  F enable
  F handler
colors      data table
decomposehangul function
defaults     table
  N inter_char_half_shrink_factor
  N inter_char_half_stretch_factor
  N inter_char_hangul_penalty
  N inter_char_quarter_shrink_factor
  N inter_char_quarter_stretch_factor
  N inter_char_shrink_factor
  N inter_char_stretch_factor
  N inter_word_stretch_factor
getdata      function
getinjector   function
getsplitter   function
getstatus     function
```

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

set (context)

contains function
create function
tolist function

tonumber function
totable function

sha2 (extra lua)

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

sio (extra lua)

read2dot14	function	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	S bcc
_DATAGRAMSIZE	number	S cache-control
_SETSIZE	number	S cc
_SOCKETINVALID	number	S comments
bind	function	S connection
choose	function	S content-description
connect	function	S content-disposition
connect4	function	S content-encoding
connect6	function	S content-id
dns	table	S content-language
F getaddrinfo		S content-length
F gethostname		S content-location
F getnameinfo		S content-md5
F tohostname		S content-range
F toip		S content-transfer-encoding
gettime	function	S content-type
headers	table	S cookie
T canonic		S date
S accept		S diagnostic-code
S accept-charset		S dsn-gateway
S accept-encoding		S etag
S accept-language		S expect
S accept-ranges		S expires
S action		S final-log-id
S age		S final-recipient
S allow		S from
S alternate-recipient		S host
S arrival-date		S if-match
S authorization		S if-modified-since

S if-none-match	S retry-after
S if-range	S return-path
S if-unmodified-since	S sender
S in-reply-to	S server
S keywords	S smtp-remote-recipient
S last-attempt-date	S status
S last-modified	S subject
S location	S te
S max-forwards	S to
S message-id	S trailer
S mime-version	S transfer-encoding
S original-envelope-id	S upgrade
S original-recipient	S user-agent
S pragma	S vary
S proxy-authenticate	S via
S proxy-authorization	S warning
S range	S will-retry-until
S received	S www-authenticate
S received-from-mta	S x-mailer
S references	F lower
S referer	F normalize
S remote-mta	http table
S reply-to	N TIMEOUT
S reporting-mta	S USERAGENT
S resent-bcc	F genericform
S resent-cc	F open
S resent-date	F request
S resent-from	newtry function
S resent-message-id	protect function
S resent-reply-to	report function
S resent-sender	select function
S resent-to	sink function

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

sorters (context)

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

statistics (context)

benchmarktimer function
callbacks function
checkfmtstatus function
currenttime function
elapsed function
elapsedindeed function
elapsedseconds function
elapsedetime function
enable boolean
formatruntime function
hastiming function
memused function

register function
resettiming function
runtime function
savefmtstatus function
show function
showmemory function
showusage function
starttiming function
stoptiming function
threshold number
timed function
tracefunction function

status (basic tex)

getbufferstate	function	getmarksstate	function
getcallbackstate	function	getneststate	function
getconstants	function	getnodestate	function
geterrorlinestate	function	getparameterstate	function
geterrorstate	function	getpoolstate	function
getexpandstate	function	getreadstate	function
getextrastate	function	getsavestate	function
getfilestate	function	getsparsestate	function
getfontstate	function	getstringstate	function
gethalferrorlinestate	function	gettextstate	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	gmatch	function
autosingle	function	gsub	function
booleanstring	function	is_boolean	function
byte	function	is_empty	function
bytelpairs	function	itself	function
bytes	function	len	function
bytetable	function	limit	function
char	function	linetable	function
characterpairs	function	longtostring	function
characters	function	lower	function
checkedsplit	function	match	function
collapsespaces	function	nospaces	function
containsws	function	nspaces	table
count	function	optionalquoted	function
dawson	function	pack	function
dump	function	packsize	function
erf	function	quote	function
erfc	function	quoted	function
erfcx	function	rep	function
erfi	function	replacenewlines	function
escapedpattern	function	reverse	function
escapedquotes	function	split	function
explode	function	splitlines	function
f6	function	splitup	function
find	function	strip	function
format	function	sub	function
formatter	function	tformat	function
formatters	function	toHEX	function
fullstrip	function	toboolen	function

tobytes	function	unquote	function
tocontext	function	unquoted	function
todec	function	upper	function
todimen	function	utfcharacter	function
tohex	function	utfcharacters	function
tonodes	function	utfcharactertable	function
topattern	function	utflength	function
totable	function	utfpadd	function
tounicode16	function	utfpadding	function
toutf	function	utfvalue	function
toutf32	function	utfvalues	function
toutf8	function	utfvaluetable	function
tracedchar	function	valid	function
tracedchars	table	voigt	function
unpack	function	voigt_hwhm	function

structures (context)

atlocation	function	F add
blocks	table	F analyze F check D collected
D collected		F compact
F define		F converted
F print		F currentvalue
F save		D data
F select		F define
F setstate		F first
D states		F get
D tobesaved		F last
F uservariable		F next
bookmarks	table	F prev
T extras		F previous
F get		F raw
F mergesections		F record
F register		F reset
F reset		F restart
F tosections		F restore
F finalize		F save
F flatten		F set
F installhandler		F setlevel
F merge		F setoffset
S method		F setown
F overload		F setstate
F place		F setvalue
F register		T specials
F setopened		F userpage
F setup		
counters	table	

F subs
D tobesaved
F value
F way
currentsectionnumber function
descriptions table
documents table
 D data
 F initialize
 F preset
 F reset
floats table
formulas table
helpers table
 F analyze
 F formulanumber
 F merged
 F page
 F pageofinternal
 F prefix
 F prefixlastpage
 F prefixpage
 F simplify
 F title
 F touserdata
inserts table
 D data
 F define
 F getdata
 F getlocation
 F getname
 F getnumber

 F setlocation
 F setup
 D stored
itemgroups table
lists table
 F addto
 F analyze
 B autoreorder
 D cached
 D collected
 F discard
 F enhance
 T enhancers
 F filter
 F formulanumber
 F getresult
 F groupindex
 F hasnumberdata
 F haspagedata
 F hastitledata
 F iscached
 D kinds
 F label
 F location
 D names
 F number
 D ordered
 F page
 F popnesting
 F prefix
 F prefixednumber
 F prefixedpage

F process		F title
D pushed		T tracers
F pushnesting		F showtable
F realpage		notes
F reordered		F check_spacing
T result		F checkpagechange
F savedlistnumber		F define
F savedlistprefixednumber		F doifonsamepageasprevious
F savedlisttitle		F get
D sectionblocks		F getdeltapage
F sectionnumber		F getinternal
F size		F getn
F title		F getstate
D tobesaved		F hascontent
F userdata		F internal
F uservalue		F internalid
marks	table	F listindex
D data		T numbers
F define		F ordered
F exists		F postpone
F fetch		F resetpostponed
F fetchallmarks		F restore
F fetched		F save
F fetchonemark		F setstate
F fetchtwomarks		D states
F get		F store
F number		pages
F relate		F allmarked
F reset		F analyze
F set		D collected
F show		F fraction
F synchronize		F in_body

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

F get	F page
F realpageofpage	F realpage
U referencesplitter	F section
D referred	F userpage
F referredpage	D tobereferrals
F registerfinalizer	D tobesaved
F registerinitializer	D tracedpages
F registerpage	T urls
F reset	T data
D runners	F define
F set	F found
F setandgetattribute	F get
F setcomponent	F untex
F setinternalreference	D usedinternals
F setlinkmethod	D usedviews
F setnextinternal	F valid
F setnextorder	registers
F setreferencerealpage	table
D specials	F analyze
F splitcomponent	D collected
F splitprefix	F compare
F splitreference	F define
F synchronizepage	F enhance
T testrunners	F extend
F inner	F filter
F special	F filtercollected
F special operation	F finalize
F special operation with arguments	F findinternal
T testspecials	F flush
F deltapage	F get
F i	F prepare
F internal	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 locatedtag
F define	T patterns
F filter	U splitter
F finalize	D properties
F flush	F registerextradata
F isshown	F registermetadata
F isused	F restart
F meaning	F setaspect
F prepare	F setattributehash
F process	F setcombination
F register	F setconstruct
F registershow	F setfigure
F registerused	F setfloat
F resetshow	F setformulacontent
F resetused	F sethighlight
F sort	F setitem
F synonym	F setitemgroup
D tobesaved	F setlist

tags **table**

F current	F setnotation
F elementtag	F setnotationsymbol
F finishexport	F setparagraph
F getextradata	F setproperty
F getid	F setpublication
F getmetadata	F setregister
F gettablecell	F setsorting
F gettabulatecell	F setsynonym
F handler	F settablecell
F initializeexport	F settabulatecell
D labels	F settagdelimitedsymbol
F last	F settagsubsentencesymbol
F lastinchain	F setupexport
	F setuserproperties

D specifications

F start

F stop

F strip

D taglist

T usewithcare

T images

table (basic lua)

allkeys	function	load	function
append	function	loweredkeys	function
are_equal	function	makeweak	function
collapsed	function	merge	function
collapsedhash	function	merged	function
compact	function	mirrored	function
concat	function	move	function
contains	function	ordered	function
copy	function	orderedhash	function
count	function	pack	function
derive	function	prepend	function
deserialize	function	print	function
drop	function	remove	function
fastcopy	function	reverse	function
fastserialize	function	reversed	function
filtered	function	save	function
flattened	function	sequenced	function
fromhash	function	serialize	function
getmetatablekey	function	setmetatablecall	function
getn	function	setmetatableindex	function
has_one_entry	function	setmetatableindices	function
hashed	function	setmetatablekey	function
identical	function	setmetatablelenewindex	function
imerge	function	sort	function
imerged	function	sorted	function
insert	function	sortedhash	function
is_empty	function	sortedhashkeys	function
is_simple_table	function	sortedhashonly	function
keys	function	sortedindexonly	function

sortedkeys	function	tohandle	function
sortedpairs	function	tohash	function
sparse	function	toxml	function
strip	function	twoWayMapper	function
sub	function	unique	function
swapped	function	unnest	function
tocontext	function	unpack	function
tocsv	function	values	function
tofile	function		

tex (basic tex)

attribute	table	forcesynctexline	function
badness	function	forcesynctextag	function
box	table	fprint	function
boxresources	table	frozenparcodes	data table
F getbox		get	function
F getdimensions		getattribute	function
F save		getbox	function
F use		getboxdir	function
catcode	table	getboxresourcebox	function
chardef	function	getboxresourcedimensions	function
conditionals	data table	getcatcode	function
constants	data table	getcount	function
count	table	getdelcode	function
cprint	function	getdelcodes	function
ctdcatcodes	number	getdimen	function
ctxcatcodes	number	geterrorvalues	function
definefont	function	getflagvalues	function
delcode	table	getfontoffamily	function
dimen	table	getfrozenparvalues	function
directives	data table	getglue	function
enableprimitives	function	getglyphdata	function
error	function	getglyphoptionvalues	function
experiments	data table	getglyphscript	function
extraprimitives	function	getglyphstate	function
fatalerror	function	getgroupvalues	function
flagcodes	data table	gethelptext	function
fontidentifier	function	gethyphenationvalues	function
fontname	function	getintegervalue	function
forcehmode	function	getinteraction	function

getiovalues	function	ifs	data table
getlargestusedmark	function	inicatecodes	number
getlccode	function	integerdef	function
getlinedir	function	isattribute	function
getlist	function	isbox	function
getlocallevel	function	iscount	overloaded function
getmark	function	isdefined	function
getmath	function	isdimen	overloaded function
getmathcode	function	isglue	function
getmathcodes	function	ismuglue	function
getmathdir	function	ismuskip	overloaded function
getmodevalues	function	isprintable	function
getmuglue	function	isskip	overloaded function
getmuskip	function	istoken	function
getnest	function	istoks	function
getnormalizevalues	function	lastnodetype	function
getoutputactive	function	lccode	table
getpagestate	function	linebreak	function
getpardir	function	lists	table
getsfcode	function	luacatcodes	number
getskip	function	magicconstants	table
getsynctexline	function	N maxdimen	
getsynctexmode	function	N running	
getsynctextag	function	N trueinch	
gettextdir	function	mathchardef	function
gettoks	function	mathcode	table
getuccode	function	modelevels	table
glue	table	N horizontal	
glyphoptioncodes	data table	N math	
groupcodes	data table	N unset	
hashtokens	function	N vertical	
hyphenationcodes	data table	modes	data table

mprint	function	setglyphscript	function
mugue	table	setglyphstate	function
muskip	table	setintegervalue	function
nest	table	setinteraction	function
nilcatcodes	number	setlccode	function
notcatcodes	number	setlinedir	function
number	function	setlist	function
poplocal	function	setmath	function
primitives	function	setmathcode	function
print	function	setmathdir	function
prtcatcodes	number	setmugue	function
pushlocal	function	setmuskip	function
quitlocal	function	setnest	function
quittoks	function	setpardir	function
resetparagraph	function	setsfcode	function
roman numeral	function	setskip	function
round	function	setsynctexline	function
runlocal	function	setsynctexmode	function
runtoks	function	setsynctextag	function
saveboxresource	function	settextdir	function
scale	function	settoks	function
scantoks	function	setuccode	function
set	function	sfcode	table
setattribute	function	shipout	function
setbox	function	showcontext	function
setboxdir	function	skip	table
setcatcode	function	sp	function
setcount	function	splitbox	function
setdelcode	function	sprint	function
setdimen	function	systemmodes	data table
setglue	function	takebox	function
setglyphdata	function	texcatcodes	number

toks	table	txtcatcodes	number
tonumber	function	type	function
toscaled	function	uccode	table
tpacatcodes	number	uprint	function
tpbcatcodes	number	useboxresource	function
tprint	function	vrbcatcodes	number
trackers	data table	write	function
triggerbuildpage	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	get_index	function
F active		get_instance	function
F cmd		get_integer	function
F cmdchrcs		get_macro	function
F cmdname		get_meaning	function
F command		get_noaligned	function
F csname		get_parameters	function
F expandable		get_permanent	function
F frozen		get_primitive	function
F index		get_protected	function
F name		get_range	function
F protected		get_tok	function
F range		get_tolerant	function
create	function	getcommandid	function
expand	function	getcommandvalues	function
expand_macro	function	getfunctionvalues	function
future_expand	function	getprimitives	function
get_active	function	gobble	function
get_cmdchrcs	function	gobble_dimen	function
get_cmdname	function	gobble_integer	function
get_command	function	is_defined	function
get_csname	function	is_next_char	function
get_cstoken	function	is_token	function
get_expandable	function	new	function
get_fields	function	peek_next	function
get_flags	function	peek_next_char	function
get_frozen	function	peek_next_expanded	function
get_id	function	pop_macro	function
get_immutable	function	push_macro	function

<code>put_back</code>	function	<code>scan_luainteger</code>	function
<code>put_next</code>	function	<code>scan_luanumber</code>	function
<code>save_lua</code>	function	<code>scan_next</code>	function
<code>scan_argument</code>	function	<code>scan_next_char</code>	function
<code>scan_box</code>	function	<code>scan_next_expanded</code>	function
<code>scan_cardinal</code>	function	<code>scan_real</code>	function
<code>scan_char</code>	function	<code>scan_skip</code>	function
<code>scan_cmdchr</code>	function	<code>scan_string</code>	function
<code>scan_cmdchr_expanded</code>	function	<code>scan_token</code>	function
<code>scan_code</code>	function	<code>scan_token_code</code>	function
<code>scan_cspathname</code>	function	<code>scan_tokenlist</code>	function
<code>scan_delimited</code>	function	<code>scan_toks</code>	function
<code>scan_dimen</code>	function	<code>scan_value</code>	function
<code>scan_dimen_argument</code>	function	<code>scan_word</code>	function
<code>scan_float</code>	function	<code>serialize</code>	function
<code>scan_glue</code>	function	<code>set_char</code>	function
<code>scan_integer</code>	function	<code>set_integer</code>	function
<code>scan_integer_argument</code>	function	<code>set_lua</code>	function
<code>scan_key</code>	function	<code>set_macro</code>	function
<code>scan_keyword</code>	function	<code>skip_next</code>	function
<code>scan_keyword_cs</code>	function	<code>skip_next_expanded</code>	function
<code>scan_letters</code>	function	<code>type</code>	function
<code>scan_luocardinal</code>	function	<code>undefine_macro</code>	function

tokens (context)

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

U stoptitle
U stopxtitle
U texsetup
U xmlw

commands data table
compile function
constant function
converters table

S toboolean
S todimen
S togue
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 cmdchexpanded
F code
F conditional
F count
F csname
F delimited
F dimen

F dimenargument	F string
F dimension	F table
F float	F token
F glue	F tokencode
F glucspec	F tokenlist
F gluevalues	F tokens
F hash	F toks
F hbox	F value
F integer	F vbox
F integerargument	F verbatim
F ischar	F vtop
F key	F whd
F keyword	F word
F keywordcs	setinteger function
F letters	setters table
F list	F box
F luacardinal	F char
F luainteger	F count
F luanumber	F dimen
F lxmllid	F glue
F next	F lua
F nextexpanded	F macro
F number	F skip
F optional	shortcuts table
F peek	T bits
F peekchar	N active
F peekexpanded	N alignment
F real	N begingroup
F scanclose	N character
F scanopen	N close
F skip	N comment
F skipexpanded	N endgroup

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

F float	F token
F glue	F tokencode
F gluespec	F tokenlist
F gluevalues	F tokens
F hash	F toks
F hbox	F value
F integer	F vbox
F integerargument	F verbatim
F ischar	F vtop
F key	F whd
F keyword	F word
F keywordcs	F scannumber
F letters	F scanopen
F list	F scanoptional
F luocardinal	F scanstring
F luainteger	F scantable
F luanumber	F scantokenlist
F lxmllid	F scantoks
F next	F scanvbox
F nextexpanded	F scanverbatim
F number	F scanvtop
F optional	F scanword
F peek	F toboolean
F peekchar	F todimen
F peekexpanded	T tokens
F real	F astable
F scanclose	T cache
F scanopen	U NC
F skip	U NR
F skipexpanded	U bf
F string	U color
F table	U colordefalc

U colordefflc	U texsetup
U colordefflt	U xmlw
U colordefrlt	D commands
U dofinishreference	F compile
U dostarttext	F constant
U finishjob	T converters
U firstofoneargument	S toboolean
U firstoftwoarguments	S todimen
U gobbleoneargument	S toglike
U goto	S tonumber
U iftrue	S tostring
U input	F create
U loadfoundtypescriptfile	F defined
U resetctxscanner	F flags
U rlap	F getinteger
U scratchcounter	T getters
U scratchdimen	F box
U scratchmuskip	F count
U scratchskip	F cstoken
U scratchtoks	F dimen
U secondoftwoarguments	F glue
U setfalsevalue	F macro
U setsectionblock	F meaning
U setupsystem	F skip
U startcolumns	F token
U starttabulate	F isdefined
U starttitle	F istoken
U startxtitle	F new
U stopcolumns	F pickup
U stoptabulate	F popmacro
U stoptitle	T presets
U stopxtitle	F pushmacro

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

tracers (context)

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

trackers (context)

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

typesetters (context)

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

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

F set	N number
processors table	F reset
F apply	F set
F register	F setup
F reset	wrappers table
F split	F handler
F startapply	xtables table
F stopapply	F cleanup
F stripped	F construct
F tostring	F create
rubies table	F finish_row
F attach	F flush
F check	F initialize_construct
showsuspects function	F initialize_reflow_height
spacings table	F initialize_reflow_width
F define	F next_row
F handler	F reflow_height
D mapping	F reflow_width
T numbers	F set_construct
T frenchpunctuation	F set_reflow_height
T characters	F set_reflow_width
S name	

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
charpattern string
codepoint function

codes function
len function
offset function

utilities (context)

debugger	table	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
files	table	F close F getposition F getsize F look F open F read2dot14 F readbyte F readbytes F readbytetable F readcardinal F readcardinal1 F readcardinal1le F readcardinal2 F readcardinal2le F readcardinal3 F readcardinal3le F readcardinal4 F readcardinal4le F readcardinaltable F readchar F readfixed2 F readfixed4

F writeinteger1le
F writeinteger2
F writeinteger2le
F writeinteger3
F writeinteger3le
F writeinteger4
F writeinteger4le
F writestring

formatters table

F formatcolumns
F list
F stripzeros

garbagecollector table

F check
N criterium
B enabled

ghostscript table

F convert
F statistics

graphicmagick table

F convert
F statistics

graphicsmagick table

F convert
F statistics

lua table

B alwaysstripcode
F checkmemory
F compile
F loadedluacode
F loadstring
F loadstripped

N nofstrippedbytes
N nofstrippedchunks
F registerfinalizer
B stripcode
T strippedchunks
F strippedloadstring
T suffixes
S lua
S luc
S lui
S luj
S luv
S tma
S tmc
S tua
S tuc

packers table

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

parsers table

F add_settings_to_array
F arguments_to_table
F array_to_string
F csvsplitter
F getparameters
F groupedsplitat
F hash_to_string

T hashes	F settings_to_hash_tolerant
T settings_to_set	F settings_to_numbers
T text,hidden,paper,page,leftpage,rightpage	F settings_to_set
B hidden	F simple_hash_to_string
B leftpage	F splitmethod
B page	F splitthousands
B paper	F stepper
B rightpage	F stripped_settings_to_array
B text	F totime
F iterator	F unittotex
F keq_to_hash	F unittoxml
F listitem	randomizer table
F make_settings_to_hash_pattern	F get
F mergehashes	F getnumber
F options_to_array	F getseed
F options_to_hash	F popseed
T patterns	F pushseed
U settings_to_array	F reuseseed
U settings_to_hash_a	F setseed
U settings_to_hash_b	F setseedi
U settings_to_hash_c	randomizers table
U settings_to_hash_d	F poisson
U unittotex	sequencers table
F process_stripped_settings	F appendaction
F rfc4180splitter	F appendgroup
F runtime	F compile
F settings_to_array	F disableaction
F settings_to_array_obey_fences	F disablegroup
F settings_to_array_with_repeat	F enableaction
F settings_to_hash	F enablegroup
F settings_to_hash_colon_too	D functions
F settings_to_hash_strict	F localize

F new		F look
F nodeprocessor		F open
F prependaction		F openstring
F prependgroup		F read2dot14
F removeaction		F read2dot4
F replaceaction		F readbyte
F setkind		F readbytes
F tostring		F readbytetable
setters	table	
F disable		F readcardinal
F enable		F readcardinal1
F initialize		F readcardinal2
F list		F readcardinal2le
F new		F readcardinal3le
F register		F readcardinal4
F report		F readcardinal4le
F reset		F readcardinaltable
F show		F readchar
stacker	table	
F new		F readfixed2
storage	table	
F allocate		F readfixed4
F checked		F readinteger
F mark		F readinteger1
F marked		F readinteger2
F setinitializer		F readinteger2le
F sparse		F readinteger3
streams	table	
F close		F readinteger3le
F getposition		F readinteger4
F getsize		F readinteger4le
F getstring		F readintegertable
		F readsignedbyte
		F readstring
		F setposition

F size		T tracers
F skip		tables table
F skipbytes		F accesstable
F skiplong		F definedtable
F skipshort		F definetable
strings table		F encapsulate
F collapse		F insertaftervalue
F collapsecrlf		F insertbeforevalue
T formatters		F migratetable
F add		F removevalue
F new		F replacevalue
F newcollector		templates table
F newrepeater		F load
F nice		F replace
T striplinepatterns		F replacer
U collapse		F resolve
U prune		zipfiles table
U prune and collapse		F close
U prune and no empty		F found
U prune and to space		F gunzipfile
U retain		F hash
U retain and collapse		F list
U retain and no empty		F open
F striplines		F unzip
F striplong		F unzipdir
F tabtospace		F zipdir

visualizers (context)

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

xcomplex (extra lua)

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

F atan	abs	function
F atanh	acos	function
F conj	acosh	function
F cos	arg	function
F cosh	asin	function
F exp	asinh	function
F i	atan	function
F imag	atanh	function
F log	conj	function
F new	cos	function
F pow	cosh	function
F proj	exp	function
F real	i	function
F sin	imag	function
F sinh	log	function
F sqrt	new	function
F tan	pow	function
F tanh	proj	function
F topair	real	function
F tostring	sin	function
_mul function	sinh	function
_name string	sqrt	function
_pow function	tan	function
_sub function	tanh	function
_tostring function	topair	function
_unm function	tostring	function

xdecimal (extra lua)

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

F __shl	<u>__name</u>	string
F __shr	<u>__pow</u>	function
F __sub	<u>__shl</u>	function
F __tostring	<u>__shr</u>	function
F __unm	<u>__sub</u>	function
F abs	<u>__tostring</u>	function
F band	<u>__unm</u>	function
F bor	<u>abs</u>	function
F bxor	<u>band</u>	function
F conj	<u>bor</u>	function
F copy	<u>bxor</u>	function
F exp	<u>conj</u>	function
F getprecision	<u>copy</u>	function
F ln	<u>exp</u>	function
F log	<u>getprecision</u>	function
F max	<u>ln</u>	function
F min	<u>log</u>	function
F minus	<u>max</u>	function
F new	<u>min</u>	function
F plus	<u>minus</u>	function
F pow	<u>new</u>	function
F rotate	<u>plus</u>	function
F setprecision	<u>pow</u>	function
F shift	<u>rotate</u>	function
F sqrt	<u>setprecision</u>	function
F tonumber	<u>shift</u>	function
F tostring	<u>sqrt</u>	function
F trim	<u>tonumber</u>	function
<u>le</u>	<u>tostring</u>	function
<u>lt</u>	<u>trim</u>	function
<u>mul</u>		

xmath (extra lua)

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

tanh function
tgamma function
trunc function

y0 function
y1 function
yn function

xml (context)

addentities	function	collecttexts	function
addspecialcode	function	compactelement	function
after	function	content	function
all	function	convert	function
applyxpath	function	copy	function
applyselector	function	count	function
assign	function	cprint	function
attribute	function	css	table
badinclusions	function		F applyselector
before	function		F colorspecification
body	function		F dimension
builtinentities	table		F family
			F fontspecification
B amp			F mappedstylevalue
B apos			F padding
B gt			F size
B lt			F style
B quot			F stylevalue
cdata	function		F todimension
cdatatotext	function		F variant
checkbox	function		F weight
checkerror	function	defaulthandlers	table
checknamespace	function		D file
checkns	function		D parsedxml
cleansed	function		D string
collect	function		D tex
collect_elements	function		D texline
collect_tags	function		D texspace
collect_texts	function		D verbose
collected	function		

defaultprotocol	string	F upper
delete	function	fillin function
delete_element	function	filter function
despecialized	function	finalizers table
each	function	F paragraphs
each_element	function	T tex
elements	function	F all
elementtodata	function	F attribute
empty	function	F chainattribute
entities	data table	F chainpath
erase	function	F command
errorhandler	function	F concat
escaped	function	F concatrange
expressions	table	F context
	F attribute	F count
	F boolean	F ctxttext
	F child	F default
	F contains	F depth
	F count	F first
	F error	F function
	F find	F index
	F hasclass	F last
	F idstring	F lettered
	F lower	F lower
	F name	F lowerall
	F number	F match
	F oneof	F name
	F print	F param
	F quit	F parameter
	F tag	F position
	F text	F reverse
	F undefined	F stripped

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

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

specialcodes	table	table	function
S "		text	function
S #		textonly	function
S \$		texttodata	function
S %		tocdata	function
S &		toelement	function
S '		toString	function
S <		toTable	function
S >		toXML	function
S \		tprint	function
S {		traverse	function
S		unescape	function
S }		unescapeentitylpeg	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	decompress function
compress	function	expandsize function
crc32	function	

zip (extra lua)

archives table
closearchive function

openarchive function
registeredfiles table

zlib (extra lua)

adler32	function	decompress function
compress	function	expandsize function
crc32	function	