

1 attributes backends bibtex blobs
boolean buffers builders caches
callback callbacks catcodes characters
chemicals commands containers context
converters coroutine debug dir
directives document documentdata
environment epdf experiments figures
file floats font fontloader fonts
global gzip img interactions interfaces
io job lang languages layouts lfs
libraries lmx logs lpdf lpeg ltn12
lua luatex lxml math mathematics md5
metapost mime moduledata modules mplib
noads node nodes number os package
parametersets pdf physics profiler
regimes resolvers scripts set socket
sorters statistics status storage
streams string structures table tex
texconfig texio token tokens tracers
trackers typesetters unicode url
utilities visualizers xml zip zlib

ConT_EXt MkIV

global (alias: _G)

1	table	io	table
arg	table	ipairs	function
assert	function	job	table
attributes	table	lang	table
backends	table	languages	table
beginpage	function	layouts	table
bibtex	table	lfs	table
blobs	table	libraries	table
boolean	table	lmx	table
buffers	table	load	function
builders	table	loadfile	function
cache	table	loadstring	function
callback	table	logs	table
callbacks	table	lpdf	table
catcodes	table	lpeg	table
characters	table	ltn12	table
chemicals	table	lua	table
collectgarbage	function	luatex	table
commands	table	lxml	table
containers	table	math	table
context	function	mathematics	table
converters	table	md5	table
coroutine	table	metapost	table
debug	table	mime	table
dimen	function	module	function
dir	table	moduledata	table
directives	table	modules	table
document	table	mplib	table
documentdata	table	newline	function
dofile	function	newproxy	function
endpage	function	next	function
environment	table	noads	table
epdf	table	node	table
error	function	nodes	table
experiments	table	number	table
figures	table	os	table
file	table	outputpagestree	function
floats	table	package	table
font	table	pairs	function
fontloader	table	parametersets	table
fonts	table	pcall	function
gcinfo	function	pdf	table
getfenv	function	physics	table
getmetatable	function	print	function
getreadfilename	function	profiler	table
global	table	protect	function
gzip	table	rawequal	function
img	table	rawget	function
inspect	function	rawset	function
interactions	table	regimes	table
interfaces	table	report_characters	function

require	function	toboolean	function
resolvers	table	tocontext	function
scripts	table	token	table
select	function	tokens	table
set	table	tonumber	function
setfenv	function	tostring	function
setmetatable	function	trace_characters	boolean
short_operators	table	traceback	function
short_prefixes	table	tracers	table
short_units	table	trackers	table
socket	table	type	function
sorters	table	typesetters	table
statistics	table	unicode	table
status	table	unpack	function
storage	table	url	table
streams	table	utf	table
string	table	utilities	table
stripmath	function	visualizers	table
structures	table	xml	table
table	table	xpcall	function
tex	table	zip	table
texconfig	table	zlib	table
texio	table		

attributes (context)

colorintents table

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

colors table

N attribute
F cmyk
F cmyktogray
F cmyktorgb
F colorcomponents
B couple
D data
N default
F defineintermediatecolor
F definemixcolor
F definemultitonecolor
F defineprocesscolor
F definesimplegray
F definespotcolor
F definetransparency
F enable
F filter
F forcedmodel
F forcesupport
F formatcolor
F formatgray
F gray
F graytohsb
F handler
F hsbtogray
F hsbtorgb
F iccprofile
F isblack
N main
S model
F mpcolor
F mpoptions
U none
F register
D registered
F registerspotcolor
F rgb
F rgbtocmyk
F rgbtogray
F rgbtohsb
N selector
F setmodel
F spot

F spotcolorname
F spotcolorparent
F spotcolorvalue
B supported
F transparencycomponents
B triggering
F usecolors
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

names data table

negatives table

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

numbers data table

ofnode function

private function

states table

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

transparencies table

N attribute
D data
F enable
F forcesupport
F handler
U none
F register
D registered
B supported
B triggering

F value		B hasorder
D values		D listwise
unsetvalue	number	F register
viewerlayers	table	D registered
N attribute		D scopes
D data		F setfeatures
F define		F start
F enable		F stop
F forcesupport		B supported
F handler		D values

backends (context)

codeinjections	table	F setpagetransition
current	string	F setupcanvas
defaults	table	F setupidentity
T codeinjections		F setxmpfile
T nodeinjections		F startlayer
T registrations		F stoplayer
D tables		F supportedformats
install	function	F useviewerlayer
nodeinjections	table	F validfield
F restore		F validfieldcategory
F save		F validfieldset
F transform		S comment
nothing	function	T nodeinjections
pdf	table	F addtags
T codeinjections		F attachfile
F addbookmarks		F cmykcolor
F addtransparencygroup		F comment
F attachmentid		F destination
F clonefield		F effect
F definefield		F graycolor
F definefieldset		F injectbitmap
F defineviewerlayer		F insertmovie
F embedfile		F insertsound
F enabletags		F insertswf
F finalizepage		F insertu3d
F finishreference		F knockout
F getdefaultfieldvalue		F negative
F getfieldcategory		F overprint
F getfieldset		F positive
F getformatoption		F reference
F getoutputfilename		F rgbcolor
F getpreviewfigure		F spotcolor
F insertrenderingwindow		F startlayer
F mergereferences		F stoplayer
F mergeviewerlayers		F switchlayer
F prerollreference		F transparency
F presetsymbol		F typesetfield
F presetsymbollist		T registrations
F processrendering		F cmykindexcolor
F registerdocumentcloseaction		F cmykspotcolor
F registerdocumentopenaction		F getspotcolorreference
F registeredsymbol		F grayindexcolor
F registerpagecloseaction		F grayspotcolor
F registerpageopenaction		F rgbindexcolor
F registersymbol		F rgbspotcolor
F setfieldcalculationset		F spotcolorname
F setfigurealternative		F transparency
F setfigurecolorspace		T tables
F setfiguremask		T vfspecials
F setformat		T black
F setformsmethod		T blue

T green

T red

F startslant

T stopslant

registrations table

tables table

bibtex (context)

authorref	function	F flush	
authors	table	F nofregistered	
F concat		F process	
F inverted		F register	
F invertedshort		F registerplaced	
F normal		F reset	
F normalshort		F resolve	
F setsettings		load	function
F short		new	function
authoryearref	function	singularorplural	function
authoryearsref	function	statistics	table
convert	function	N nofbytes	
hacks	table	N nofdefinitions	
F add		N nofshortcuts	
F doifalreadyplaced		toxml	function
F filterall			

blobs (context)

append	function	new	function
dimensions	function	pack	function
dispose	function	write	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	
getcontent	function	F save	
getlines	function	raw	function
parallel	table		

builders (context)

kernel **table**

 F hyphenation
 F kerning
 F ligaturing
 F mlist_to_hlist

paragraphs **table**

 T constructors
 N attribute
 F disable
 F enable
 F handler
 T methods
 F default
 F oneline
 D names
 D numbers
 F register
 F set
 T solutions
 T splitters
 F define
 F disable

 F enable
 F optimize
 F setup
 F split

 F tag

vspacing **table**

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

cache (context)

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

callback (basic tex)

<code>find</code>	function
<code>list</code>	function
<code>register</code>	overloaded function

callbacks (context)

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

catcodes (context)

<code>names</code>	data table
<code>numbers</code>	data table
<code>register</code>	function

characters (context)

activeoffset	number	is_mark	data table
adobename	function	is_spacing	data table
bidirectional	data table	lcchars	data table
blocks	data table	lccode	function
casemap	table	lccodes	data table
categories	data table	lettered	function
category	function	lower	function
categorytags	data table	makeactive	function
combined	data table	math	table
contextname	function	mathpairs	data table
data	data table	ranges	data table
decomposed	data table	registerentities	function
define	function	remap_hangul_syllable	function
description	function	remapentity	function
descriptions	data table	setcodes	function
directions	data table	shape	function
encodes	data table	shaped	function
entities	data table	shchars	data table
fallbacks	data table	shcodes	data table
filters	data table	specialchars	data table
flush	function	specials	data table
fromnumber	function	subscripts	table
fschars	data table	superscripts	table
fscodes	data table	synonyms	data table
getrange	function	tex	table
graphemes	data table		
hangul	table		
		D accentmapping	
		F defineaccents	
		F toutf	
		tonumber	function
		ucchars	data table
		uccode	function
		uccodes	data table
		unicodechar	function
		upper	function
initialize	function		
is_character	data table		
is_command	data table		
is_letter	data table		

chemicals (context)

component	function	moleculeparser	userdata
define	function	start	function
format	string	stop	function
inline	function	structures	number
instance	string	undefine	function
molecule	function		

commands (context)

Alphabetic	function	collecthelp	function
Character	function	colorcomponents	function
Characters	function	consultfloat	function
MPd	function	copyfileto	function
MPh	function	copyposition	function
MPll	function	counttwopassdata	function
MPlr	function	currentcomponent	function
MPp	function	currentdate	function
MPplus	function	currentenvironment	function
MPpos	function	currentproduct	function
MPrest	function	currentproject	function
MPul	function	currentregime	function
MPur	function	dayname	function
MPw	function	defineattribute	function
MPx	function	definebibtexsession	function
MPxy	function	defineconversion	function
MPy	function	definefield	function
Romannumerals	function	definefieldset	function
abjadnodotnumerals	function	definefilefallback	function
abjadnumerals	function	definefilesynonym	function
addff	function	definefont_one	function
addfs	function	definefont_two	function
addlinklistelement	function	definefontcollection	function
addstructurecounter	function	defineintermediatecolor	function
allinputpaths	function	definelinkedlist	function
alphabetic	function	definemarking	function
analysefloatmethod	function	definemultitonecolor	function
applytochars	function	defineparallel	function
applytowords	function	defineprocesscolor	function
assignbuffer	function	definespotcolor	function
autofinishstructurelevels	function	definestructureblock	function
autonextspace	function	definestructurecounter	function
autonextstructurelevel	function	definestructureset	function
autosetups	function	definetransparency	function
autostarttext	function	definetwopasslist	function
autostoptext	function	defineviewerlayer	function
boolcase	function	defrostrandomseed	function
character	function	digits	function
characters	function	disableregime	function
checkcharactersinfont	function	doanalyzeframedbox	function
checkedconversion	function	doif	function
checkedpagefloat	function	doifblackelse	function
checktwopassdata	function	doifcommonelse	function
chineseallnumerals	function	doifdimenstringelse	function
chinesecapnumerals	function	doifdrawingblackelse	function
chinesenumerals	function	doifelse	function
cleanfontname	function	doifelsebuffer	function
clonefield	function	doifelsecurrentfontasfeature	function
clonefontcollection_one	function	doifelseintwopassdata	function
clonefontcollection_two	function	doifelsemarking	function
collectfloat	function	doifelseparallel	function

doifelsesavedfloat	function	forcequitjob	function
doifelsespaces	function	format	function
doifelsestructurecounter	function	formatcolor	function
doifelsevisualizer	function	formatgray	function
doiffielddcategoryelse	function	freezerandomseed	function
doiffielddelse	function	getbuffer	function
doiffielddsetelse	function	getbufferctxlua	function
doiffiledefinedelse	function	getbuffermkvi	function
doiffileexistelse	function	getdefaultfieldvalue	function
doiffirstcharelse	function	getfieldcategory	function
doifinputfileelse	function	getfirstcharacter	function
doifinsetelse	function	getfirsttwopassdata	function
doifleapyearelse	function	getfloatvariable	function
doiflocfileelse	function	getlasttwopassdata	function
doifnot	function	getmarking	function
doifnotstructurecounter	function	getprivateattribute	function
doifolderversionelse	function	getrandomcounta	function
doifoverlappingelse	function	getrandomcountb	function
doifparentfileelse	function	getrandomseed	function
doifpositionelse	function	getreadfilename	function
doifpositionsonsamepageelse	function	gettwopassdata	function
doifpositionsonthispageelse	function	gettwopassdatalist	function
doifstructurecounter	function	grabbuffer	function
doifurldefinedelse	function	helpaction	function
doprocесstypescriptfile	function	helpreference	function
doreshapeframedbox	function	hexstringtonumber	function
dostarttextfile	function	hour	function
dostoptextfile	function	hyphenatedlist	function
elapsedtime	function	hyphenatedurl	function
enablecolor	function	D characters	
enablecolorintents	function	N lefthyphenmin	
enablefontcolorschemas	function	D mapping	
enableregime	function	N righthyphenmin	
enabletransparency	function	F setcharacters	
enhancelinkedlist	function	incrementedstructurecounter	function
erasebuffer	function	insertattachment	function
featureattribute	function	insertcomment	function
feedback	function	insertfield	function
fetchallmarks	function	insertrenderingwindow	function
fetchonemark	function	insertsoundclip	function
fetchtwomarks	function	isleapyear	function
filterreference	function	languagenumber	function
findtwopassdata	function	laststructurecounter	function
firstinlist	function	lchexnumber	function
firststructurecounter	function	lchexnumbers	function
flushfloat	function	leapyear	function
flushpostponedblocks	function	loadctxpreplist	function
fontchar	function	loadexamodes	function
fontcollectionmessage	function	loadfontgoodies	function
fontlookupgetkey	function	loadvisualizer	function
fontlookupgetkeyofindex	function	locatefilepath	function
fontlookupinitialize	function	locfilename	function
fontlookupnoffound	function	maxitemwidth	function
forceendjob	function	minute	function

molecule	function	registersoundclip	function
month	function	registerstructureprocessor	function
monthmnm	function	registertransparency	function
monthname	function	relatemarking	function
mpcolor	function	removemissingcharacters	function
mpoptions	function	replacepospxywhd	function
namedstructureuservariable	function	resavefloat	function
namedstructurevariable	function	resetfontcollection	function
nbfs	function	resetfontfeature	function
nextparallel	function	resetmarking	function
nextstructurecounter	function	resetmathitalics	function
nofdays	function	resetnullfont	function
nofitems	function	resetparallel	function
nofstackedfloats	function	resetstructurecounter	function
number	function	resetstructureprocessor	function
octnumber	function	resettimer	function
octstringtonumber	function	restartstructurecounter	function
ordinal	function	restorecurrentattributes	function
overloadbookmark	function	restorestructurecounter	function
pdfrotation	function	romannumerals	function
percentageof	function	runbuffer	function
placeparallel	function	savebuffer	function
popfloat	function	savecurrentattributes	function
popitaliccorrection	function	savefloat	function
prepareMPvariable	function	saveparallel	function
preparebibtexsession	function	savestructureblock	function
preparedfile	function	savestructurecounter	function
preparefontcollection	function	savetaggedtwopassdata	function
presetsymbollist	function	savetwopassdata	function
presettabulate	function	second	function
prevstructurecounter	function	selectstructureblock	function
processbuffer	function	setcloseddocumentaction	function
processedfile	function	setclosepageaction	function
processedfiles	function	setcolormodel	function
processfile	function	setfontfeature	function
processfilemany	function	setfontofid	function
processfilenone	function	setformat	function
processfileonce	function	setformsmethod	function
pushfloat	function	setmarking	function
pushitaliccorrection	function	setmathalphabet	function
rawcharacter	function	setmathalternate	function
referencepagestate	function	setmathattribute	function
referencerealpage	function	setmathitalics	function
registerattachment	function	setmathstyle	function
registerbibtexentry	function	setopendocumentaction	function
registerbibtexfile	function	setopenpageaction	function
registerbookmark	function	setownstructurecounter	function
registerbuttons	function	setpagetransition	function
registercolor	function	setrandomseed	function
registercolorintent	function	setrastercolor	function
registerhelp	function	setrealign	function
registeritemgroup	function	setreferencearguments	function
registermaintextcolor	function	setreferenceoperation	function
registerpostponedblock	function	setstructureblockstate	function

setstructurecounter	function	structuregivencatcodedget	function
settagcombination	function	structurenumber	function
settagdescription	function	structuretitle	function
settagdescriptionsymbol	function	structureuservariable	function
settagfigure	function	structurevariable	function
settaghighlight	function	subff	function
settagitemgroup	function	subfs	function
settagproperty	function	synchronizemarking	function
settagsorting	function	taggedmathfunction	function
settagsynonym	function	testcase	function
settagtablecell	function	textime	function
settagtabulatecell	function	transparencycomponents	function
setupbookmarks	function	triggereffect	function
setupcanvas	function	triggernegative	function
setupexport	function	truefilename	function
setupfontexpansion	function	typebuffer	function
setupfontprotrusion	function	typefile	function
setupidentity	function	typestring	function
setupitaliccorrection	function	uchexnumber	function
setxmpfile	function	uchexnumbers	function
showchardata	function	unicodechar	function
showfontparameters	function	unit	function
showhyphenatedinlist	function	updatefilenames	function
showstructurecounter	function	useMPLibrary	function
splitfilename	function	useanyfile	function
spotcolorname	function	useclfile	function
spotcolorparent	function	usecolors	function
spotcolorvalue	function	usecomponent	function
startcomponent	function	useenvironment	function
startenvironment	function	uselibrary	function
startproduct	function	useluafile	function
startproject	function	usemodules	function
startregime	function	usepath	function
starttag	function	useproduct	function
starttext	function	useproject	function
stopcomponent	function	usesubpath	function
stopenvironment	function	usesymbols	function
stopproduct	function	usetexfile	function
stopproject	function	usexmlfile	function
stopregime	function	usezipfile	function
stoptag	function	utfchar	function
stoptext	function	weekday	function
structureautocatcodedget	function	weekdayname	function
structurecatcodedget	function	widthofstring	function
structurecountersubs	function	writestatus	function
structurecountervalue	function	year	function

containers (context)

<code>cleanname</code>	function
<code>content</code>	function
<code>define</code>	function
<code>is_usable</code>	function

<code>is_valid</code>	function
<code>read</code>	function
<code>usecache</code>	boolean
<code>write</code>	function

converters (context)

Alphabetic	function	leapyear	function
Character	function	maxchrs	function
Characters	function	minute	function
Romannumerals	function	month	function
abjadnodotnumerals	function	nofdays	function
abjadnumerals	function	number	function
alphabetic	function	octnumber	function
character	function	octstringtonumber	function
characters	function	ordinal	function
chineseallnumerals	function	rawcharacter	function
chinesecapnumerals	function	romannumerals	function
chinesenumerals	function	second	function
chr	function	sequences	data table
chrs	function	textime	function
convert	function	toabjad	function
define	function	tochinese	function
hexstringtonumber	function	toroman	function
hour	function	uchexnumber	function
isleapyear	function	uchexnumbers	function
lchexnumber	function	weekday	function
lchexnumbers	function	year	function

coroutine (basic lua)

<code>coco</code>	boolean	<code>running</code>	function
<code>create</code>	function	<code>status</code>	function
<code>cstacksize</code>	function	<code>wrap</code>	function
<code>resume</code>	function	<code>yield</code>	function

debug (basic lua)

debug	function
getfenv	function
gethook	function
getinfo	function
getlocal	function
getmetatable	function
getregistry	function

getupvalue	function
setfenv	function
sethook	function
setlocal	function
setmetatable	function
setupvalue	function
traceback	function

dir (context)

<code>collectpattern</code>	function
<code>current</code>	function
<code>expandname</code>	function
<code>glob</code>	function
<code>globfiles</code>	function
<code>globpattern</code>	function

<code>ls</code>	function
<code>makedirs</code>	function
<code>mkdirs</code>	function
<code>pop</code>	function
<code>push</code>	function

directives (context)

data	data table	name	string
disable	function	register	function
enable	function	report	function
list	function	show	function

document (context)

arguments	data table	setargument	function
files	table	setdefaultargument	function
getargument	function	setfilename	function
getfilename	function		

environment (context)

argument	function	luafile	function
arguments	data table	luafilechunk	function
engineflags	data table	originalarguments	data table
files	table	outputfilename	string
filesynonyms	data table	ownbin	string
homedir	string	ownname	string
initex	boolean	ownpath	string
initializearguments	function	rawarguments	data table
inputfilebarename	string	reconstructcommandline	function
inputfilename	string	setargument	function
inputfilesuffix	string	splitarguments	function
jobfilename	string	texfile	function
jobfilesuffix	string	texmfos	string
loadedluacode	function	texos	string
loadluafile	function	texroot	string

epdf (extra tex)

Annot	function	Object	function
Annots	function	PDFRectangle	function
Array	function	open	function
Dict	function	type	function

experiments (context)

data	data table	name	string
disable	function	register	function
enable	function	report	function
list	function	show	function

figures (context)

applyratio	function	hash	function
bases	table	identifiers	data table
B enabled		identify	function
F find		include	function
T found		includers	data table
T list		initialize	function
F locate		loaded	data table
F use		localpaths	data table
T used		mergegoodies	function
bitmapimage	function	nofprocessed	number
boxnumber	number	order	data table
cachepaths	data table	paths	data table
check	function	patterns	data table
checkers	data table	pop	function
converters	data table	preferquality	boolean
current	function	programs	data table
defaultdepth	number	push	function
defaultheight	number	registerpattern	function
defaultsearch	boolean	registerresource	function
defaultwidth	number	registersuffix	function
done	function	resources	data table
dummy	function	scale	function
exists	data table	setlookups	function
exists	function	setpaths	function
formats	data table	suffixes	data table
found	data table	tprint	function
get	function	used	data table

file (basic lua)

<code>addsuffix</code>	function	<code>joinpath</code>	function
<code>basename</code>	function	<code>loadchecksum</code>	function
<code>checksum</code>	function	<code>nameonly</code>	function
<code>collapsepath</code>	function	<code>nametotable</code>	function
<code>copy</code>	function	<code>needs_updating</code>	function
<code>dirname</code>	function	<code>readdata</code>	function
<code>expandname</code>	function	<code>removesuffix</code>	function
<code>extname</code>	function	<code>replacesuffix</code>	function
<code>is_qualified_path</code>	function	<code>robustname</code>	function
<code>is_readable</code>	function	<code>savechecksum</code>	function
<code>is_rootbased_path</code>	function	<code>savedata</code>	function
<code>is_writable</code>	function	<code>splitname</code>	function
<code>isreadable</code>	function	<code>splitpath</code>	function
<code>iswritable</code>	function	<code>strip</code>	function
<code>join</code>	function	<code>suffix</code>	function

floats (context)

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

font (basic tex)

<code>current</code>	function
<code>define</code>	function
<code>each</code>	function
<code>fonts</code>	table
<code>frozen</code>	function
<code>getfont</code>	function

<code>id</code>	function
<code>max</code>	function
<code>nextid</code>	function
<code>read_tfm</code>	function
<code>read_vf</code>	function
<code>setfont</code>	function

fontloader (extra tex)

<code>apply_afmfile</code>	function
<code>apply_featurefile</code>	function
<code>close</code>	function
<code>fields</code>	function
<code>fullinfo</code>	function

<code>info</code>	function
<code>open</code>	function
<code>to_table</code>	function
<code>totable</code>	function

fonts (context)

analyzers table

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

checkers table

- F missing

cid table

- F getmap
- F loadfile

collections table

- F clone_one
- F clone_two
- F define
- T definitions
- F message
- F prepare
- F process
- F reset
- T vectors

constructors table

- F applymanipulators
- F assignmathparameters
- B autocleanup
- D cache
- F calculatyscale
- F checkedfeatures
- F checkedfilename
- F cleanupable
- F collectprocessors
- D designsizes
- D dontembed
- N factor
- F finalize
- F getfeatureaction
- F hashfeatures
- F hashinstance
- T hashmethods
 - F normal
 - F virtual
- F initializefeatures
- T keys
 - T character
 - S depth
 - S height
 - S italic
 - S width
 - T description
 - T boundingbox
 - S depth
 - S height

- S width

T parameters

- S ascender
- S descender
- S designsize
- S expand_factor
- T expansion
 - S auto
 - S shrink
 - S step
 - S stretch
- S extra_space
- S factor
- S hfactor
- S mathsize
- T protrusion
 - S auto
- S quad
- S scaledpoints
- S scriptpercentage
- S scriptscriptpercentage
- S size
- S slant
- S slant_factor
- S space
- S space_shrink
- S space_stretch
- S units
- S vfactor
- S x_height
- T properties
 - S auto_italic_correction
- T cidinfo
 - S embedding
 - S encodingbytes
 - S filename
 - S finalized
 - S fontname
 - S format
 - S fullname
 - S has_math
 - S italic_correction
 - S mode
 - S name
 - S no_math_italics
 - S no_stackmath
 - S no_text_italics
 - S noglyphnames
 - S psname
 - S virtualized
- D loadedfonts

- T mathactions
- S namemode
- F newfeatures
- N privateoffset
- F readanddefine
- F registerfeature
- B resolvevirtualtoo
- F scale
- F scaled
- F setfactor
- F setname
- N version

- current** function
- currentid** function
- definers** table

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

- definetypeface** function
- encodings** table

- T agl
- D cache
- F is_known
- D known
- F load
- F make_unicode_vector
- D math
- N version

- expansions** data table

- formats** data table

- goodies** table

- T colorschemes
 - F coloring
- T data
- F enable

- F getcompositions
- T list
 - F compositions
 - F expansions
 - F featureset
 - F files
 - F mathematics
 - F protrusions
 - F solutions
 - F typefaces
- F load
- F prepare_features
- F register
- F registerpostprocessor
- F report

- handlers** table

- T afm
 - B addkerns
 - B addligatures
 - B addtexligatures
 - B autoprefixed
 - D cache
 - D features
 - F load
 - F setfeatures
 - B syncspace
 - N version
- T otf
 - F addfeature
 - D cache
- T chainhandlers
 - F normal
 - F verbose
- F collectlookups
- F dataset
- D enhancers
- D features
- F getalternate
- T glists
- F load
- F scriptandlanguage
- F setcontextchain
- F setdynamics
- F setfeatures
- T tables
 - D baselines
 - D features
 - D languages
 - D scripts
- N version
- T pfb
- T tfm
 - D features
 - F setfeatures

T vf		F cleanname	
T combinations		F collect	
F combine		F collectfiles	
T combiner		F collectspec	
D commands		T data	
F find		B enabled	
D helpers		F exists	
D math		T filters	
D predefined		F afm	
D whatever		F dfont	
hashes	table	T list	
D characters		T names	
D csnames		F otf	
T dynamics		T paths	
D identifiers		F pfb	
D italics		F ttc	
D marks		F ttf	
D parameters		S fontconfigfile	
T processes		F getfilename	
D properties		F getlookupkey	
D quads		F getlookups	
T setdynamics		F getpaths	
D xheights		F identify	
helpers	table	F is_permitted	
F dimenfactor		F list	
F getdigitwidth		F load	
F getparameters		B loaded	
F nametoslot		F lookup	
F setdigitwidth		F noflookups	
iterators	table	S osfontdirvariable	
F characters		F readdata	
F descriptions		F register	
F glyphs		F registered	
loggers	table	F resolve	
F format		F resolvedspecification	
F onetimemessage		F resolvespec	
F register		B saved	
F reportdefinedfonts		F specification	
F reportusedfeatures		D specifications	
mappings	table	F splitspec	
F addtounicode		N version	
F fromunicode16		F writedata	
F loadfile		protrusions	data table
F loadline		readers	table
F loadlumtable		F afm	
F makenameparser		F check_lua	
F reset		F check_tfm	
F tounicode16		F dfont	
F tounicode16sequence		F lua	
names	table	F opentype	
S basename		F otf	
B be_clever		F pfb	
D cache		D sequence	
F cleanfilename		F tfm	

F ttc
F ttf
specifiers table
D contextmerged
F contextnumber
D contextnumbers
D contextsetups
F contextttoString
F mergecontext
F presetcontext

F registercontext
F showcontext
F splitcontext
D synonyms
D variants
symbols table
F uselibrary
tables table
tracers table
typefaces data table

gzip (extra lua)

`close` function
`lines` function
`open` function

img (basic tex)

<code>boxes</code>	<code>function</code>
<code>checksize</code>	<code>function</code>
<code>clone</code>	<code>function</code>
<code>copy</code>	<code>function</code>
<code>immediatwrite</code>	<code>function</code>
<code>keys</code>	<code>function</code>
<code>new</code>	<code>function</code>
<code>node</code>	<code>function</code>

<code>ofindex</code>	<code>function</code>
<code>package</code>	<code>function</code>
<code>print</code>	<code>function</code>
<code>scan</code>	<code>function</code>
<code>serialize</code>	<code>function</code>
<code>totable</code>	<code>function</code>
<code>types</code>	<code>function</code>
<code>write</code>	<code>function</code>

interactions (context)

attachments table

F insert

F register

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 table

pages table

F setpagetransition

F setupcanvas

references table

F setcloseddocument

F setclosepage

F setopendocument

F setopenpage

renderings table

F register

F rendering

F var

soundclips table

F insert

F register

interfaces (context)

addvalidkeys	function	F define	
cachedsetups	data table	F list	
cachesetup	function	setconstant	function
complete	data table	setelement	function
constants	data table	setformat	function
definecommand	function	setmessage	function
doifelsemessage	function	setmessages	function
elements	data table	settranslation	function
formats	data table	setuserinterface	function
getcheckedparameters	function	setvalidkeys	function
getmessage	function	setvariable	function
hashedsetups	data table	showmessage	function
interfacedcommand	function	syntax	data table
interfaces	table	tolist	function
invalidkey	function	translations	data table
is_command	function	variables	data table
namespaces	table		

io (basic lua)

ask	function	out	table
bytes	function	F inhibit	
characters	function	D modes	
checkopeners	function	F permit	
close	function	output	function
exists	function	pathseparator	string
fileseparator	string	popen	overloaded function
finalizeopeners	function	read	function
flush	function	readnumber	function
inp	table	readstring	function
F inhibit		registeropener	function
D modes		savedata	function
F permit		size	function
input	function	stderr	userdata
lines	function	stdin	userdata
loaddata	function	stdout	userdata
noflines	function	tmpfile	function
open	function	type	function
open_ro	function	write	function

job (context)

comment function
files table
 D collected
 F context
 B forcerun
 F run
 D tobesaved
initialize function
load function
loadother function
objects table
 D collected
 F doifelse
 F get
 F number
 F page
 F save
 F set
 D tobesaved
pack boolean
passes table
 F check
 D collected
 F count
 F define
 F find
 F first
 F get
 F getcollected
 F getdata
 F getfield
 F gettobesaved
 F inlist
 F last
 F list
 F save
 F savetagged
 D tobesaved

positions table
 D collected
 F copy
 F depth
 F extra
 F height
 F lowerleft
 F lowerright
 F onsamepage
 F overlapping
 F page
 F position
 F replace
 F setall
 F setdim
 F setraw
 D tobesaved
 F upperleft
 F upperright
 F v
 F width
 F x
 F xy
 F y
register function
save function
structure table
 D collected
 T tobesaved
 T branches
 S name
 S type
variables table
 D checksums
 D collected
 F save
 D tobesaved
version number

lang (basic tex)

<code>clean</code>	function
<code>clear_hyphenation</code>	function
<code>clear_patterns</code>	function
<code>exceptions</code>	function
<code>hyphenate</code>	function
<code>hyphenation</code>	function
<code>id</code>	function

<code>new</code>	function
<code>patterns</code>	function
<code>postexhyphenchar</code>	function
<code>posthyphenchar</code>	function
<code>preexhyphenchar</code>	function
<code>prehyphenchar</code>	function

languages (context)

associate	function	numbers	data table
associated	data table	posthyphenchar	function
association	function	prehyphenchar	function
counters	data table	registered	data table
current	function	righthyphenmin	function
data	data table	setdirty	function
define	function	synonym	function
exceptions	function	version	number
getnumber	function	words	table
hyphenate	function		
installed	function	F check	
labels	table	T data	
F define		F disable	
F split		F enable	
lefthyphenmin	function	T enablers	
loadable	function	B enables	
loadwords	function	F found	
logger	table	F load	
F report		T methods	
		N threshold	

layouts (context)

```
status  table
      F isleftpage
      F leftorrightpagection
```

lfs (extra lua)

<code>attributes</code>	function	<code>mkdir</code>	function
<code>chdir</code>	function	<code>readlink</code>	function
<code>currentdir</code>	function	<code>rmdir</code>	function
<code>dir</code>	function	<code>setmode</code>	function
<code>isdir</code>	overloaded function	<code>shortname</code>	function
<code>isfile</code>	function	<code>symlinkattributes</code>	function
<code>lock</code>	function	<code>touch</code>	function
<code>lock_dir</code>	function	<code>unlock</code>	function

libraries (context)

`basiclua` data table
`basictex` data table
`builtin` data table

`extralua` data table
`extratex` data table
`globals` data table

lmx (context)

convert	function	pv	function
escape	function	reset	function
get	function	result	function
htmfile	function	set	function
include	function	show	function
lmxfile	function	showdebuginfo	function
loadedfile	function	showerror	function
make	function	tv	function
new	function	type	function
overloaderror	function	urlescape	function
popupfile	function	variable	function
print	function	variables	data table

logs (context)

application	function	setmessenger	function
categories	function	setprogram	function
direct	function	settarget	function
disable	function	settranslations	function
enable	function	show	function
extendbanner	function	show_close	function
flush	function	show_load	function
help	function	show_open	function
messenger	function	simple	function
new	function	simpleline	function
newline	function	simplelines	function
poptarget	function	start_page_number	function
pushtarget	function	status	function
report	function	stop_page_number	function
report_job_stat	function	subdirect	function
reportbanner	function	subreport	function
reporter	function	system	function
reportline	function	texerrormessage	function
reportlines	function	writer	function
setformats	function		

lpdf (context)

action	function	id	function
adddocumentcolorspace	function	injectxmpinfo	function
adddocumenttextgstate	function	insertxmpinfo	function
adddocumentpattern	function	javascript	function
adddocumentshade	function	launch	function
addtocatalog	function	layerreference	function
addtoinfo	function	limited	function
addtonames	function	linearshade	function
addtopageattributes	function	link	function
addtopageresources	function	null	function
addtopagesattributes	function	number	function
addxmpinfo	function	pagedestination	function
array	function	pagereference	function
boolean	function	pdfcolor	function
checkedkey	function	pdftimestamp	function
checkedvalue	function	protectresources	boolean
circularshade	function	reference	function
cmykcode	function	registerannotation	function
collectedresources	function	registerdocumentfinalizer	function
color	function	registerpagefinalizer	function
colorspace	function	reserveannotation	function
colorspec	function	reserveobject	function
colorvalue	function	rgbcode	function
colorvalues	function	rotationcm	function
constant	function	shareobject	function
delayedobject	function	shareobjectreference	function
dictionary	function	spotcode	function
epdf	table	stream	function
F load		string	function
finalizedocument	function	timestamp	function
finalizepage	function	toeight	function
finishtransparencycode	function	tosixteen	function
flushobject	function	transparency	function
flushstreamfileobject	function	transparencycode	function
flushstreamobject	function	transparencyvalue	function
formats	data table	unicode	function
graycode	function	verbose	function

lpeg (basic lua)

C	function	counter	function
Carg	function	endstripper	function
Cb	function	firstofsplit	function
Cc	function	frontstripper	function
Cf	function	is_lpeg	function
Cg	function	keeper	function
Cmt	function	locale	function
Cp	function	match	function
Cs	function	oneof	function
Ct	function	patterns	data table
P	function	print	function
R	function	replacer	function
S	function	secondofsplit	function
UP	function	span	function
UR	function	split	function
US	function	splitat	function
V	function	splitter	function
anywhere	function	stripper	function
append	function	tsplitat	function
balancer	function	tsplitter	function
checkedsplit	function	type	function
count	function	version	function

ltn12 (extra lua)

BLOCKSIZE	number	F simplify
filter	table	F table
	F chain	source table
	F cycle	F cat
pump	table	F chain
	F all	F empty
	F step	F error
sink	table	F file
	F chain	F rewind
	F error	F simplify
	F file	F string
	F null	

lua (basic tex)

bytecode	table	messages	data table
bytedata	data table	name	table
bytdone	table	numbers	data table
collectgarbage	function	registercode	function
delay	function	registeredcodes	function
finalize	function	registerfinalizer	function
firstbytecode	number	registername	function
flush	function	setbytecode	function
flushdelayed	function	setluaname	function
getbytecode	function	startupfile	string
getluaname	function	version	string
lastbytecode	number		

luatex (context)

<code>cleanuptempfiles</code>	function	<code>showjobstat</code>	function
<code>registerstartactions</code>	function	<code>showtexstat</code>	function
<code>registerstopactions</code>	function	<code>starttime</code>	number
<code>registertempfile</code>	function		

lxml (context)

<code>addindex</code>	function	<code>last</code>	function
<code>all</code>	function	<code>load</code>	function
<code>applyfunction</code>	function	<code>loadbuffer</code>	function
<code>att</code>	function	<code>loaddata</code>	function
<code>attribute</code>	function	<code>loaded</code>	table
<code>chainattribute</code>	function	<code>loadregistered</code>	function
<code>checkindex</code>	function	<code>main</code>	function
<code>collected</code>	function	<code>match</code>	function
<code>command</code>	function	<code>name</code>	function
<code>concat</code>	function	<code>namespace</code>	function
<code>concatrange</code>	function	<code>nonspace</code>	function
<code>content</code>	function	<code>pos</code>	function
<code>context</code>	function	<code>position</code>	function
<code>convert</code>	function	<code>raw</code>	function
<code>count</code>	function	<code>rawroot</code>	function
<code>delete</code>	function	<code>register</code>	function
<code>direct</code>	function	<code>registerentity</code>	function
<code>directives</code>	table	<code>removesetup</code>	function
F after		<code>resetcdata</code>	function
F before		<code>resetsetups</code>	function
F handle		<code>resolvedentity</code>	function
F load		<code>root</code>	function
F setup		<code>serialize</code>	function
<code>displayverbatim</code>	function	<code>setaction</code>	function
<code>doif</code>	function	<code>setcdata</code>	function
<code>doifelse</code>	function	<code>setcommandtonone</code>	function
<code>doifelsetext</code>	function	<code>setcommandtotext</code>	function
<code>doifnot</code>	function	<code>setsetup</code>	function
<code>doifnottext</code>	function	<code>snippet</code>	function
<code>doiftext</code>	function	<code>sorters</code>	table
<code>element</code>	function	F add	
<code>elements</code>	function	F compare	
<code>entities</code>	data table	F flush	
<code>filter</code>	function	F reset	
<code>filterlist</code>	function	F show	
<code>first</code>	function	F sort	
<code>flush</code>	function	<code>splitid</code>	function
<code>flushlinewise</code>	function	<code>startraw</code>	function
<code>flushsetups</code>	function	<code>stopraw</code>	function
<code>flushspacewise</code>	function	<code>store</code>	function
<code>get_id</code>	function	<code>strip</code>	function
<code>getid</code>	function	<code>stripped</code>	function
<code>getindex</code>	function	<code>tag</code>	function
<code>id</code>	function	<code>text</code>	function
<code>idsplitter</code>	userdata	<code>tofile</code>	function
<code>include</code>	function	<code>toparameters</code>	function
<code>index</code>	function	<code>toverbatim</code>	function
<code>info</code>	function	<code>verbatim</code>	function
<code>inlineverbatim</code>	function	<code>withindex</code>	function
<code>installsetup</code>	function	<code>xmltexhandler</code>	data table

math (basic lua)

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

mathematics (context)

addfallbacks	function	overloadparameters	function
alphabets	data table	privatebase	number
big	function	remapalphabets	function
boldmap	table	renderings	table
categories	table	D mappings	
D functions		D numbers	
checkaccentbaseheight	function	D sets	
checkprivateparameters	function	renderset	function
classes	data table	resetitalics	function
codes	data table	scaleparameters	function
define	function	setalternate	function
dimensions	function	setitalics	function
extrabase	number	syncboth	function
extras	table	syncname	function
F add		syncstyle	function
F copy		toname	function
families	data table	tostyle	function
gaps	table	utfmathclass	function
getboth	function	utfmathcommand	function
getstyle	function	utfmathfiller	function
initializeparameters	function	utfmathstretch	function
makefont	function		

md5 (extra lua)

HEX	function	exor	function
crypt	function	hex	function
dec	function	sum	function
decrypt	function	sumhexa	function

metapost (context)

analyzeplugins	function	makempy	table
checkformat	function	N nofconverted	
checktexts	function	F processgraphics	
colorinitializer	function	metafun	table
convert	function	F interpolate	
defaultformat	string	F topath	
directrun	function	method	number
edefsxsy	function	mptopdf	table
escaped	function	F convertmpstopdf	
exectime	table	N nofconverted	
filterclippath	function	multipass	boolean
finder	function	n	number
flush	function	optimize	boolean
flushers	table	parse	function
T pdf		pdfliterals	function
F comment		pluginactions	function
F flushfigure		process	function
F startfigure		processplugins	function
F stopfigure		reducetogray	boolean
F textfigure		reporterror	function
flushliteral	function	reset	function
flushnormalpath	function	resetlastlog	function
flushreset	function	resetplugins	function
format	function	resettexttexts	function
formatnumber	function	setoutercolor	function
getclippath	function	settext	function
gettext	function	showlog	boolean
graphic	function	tex	table
graphic_base_pass	function	F get	
graphic_extra_pass	function	F reset	
intermediate	table	F set	
T actions		texerrors	boolean
F makempy		texttextsdata	function
B needed		theclippath	function
lastlog	string	totable	function
load	function	unload	function

mime (extra lua)

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

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

mplib (extra tex)

fields	function	pen_info	function
new	function	version	function

noads (context)

handlers	table
F check	
F collapse	
F families	
F italics	
F relocate	
F render	
F resize	
F respace	
F tags	
F unscript	

F variants
process function
processors table
T collapse
F mlist_to_hlist
T relocate
T render
T resize
T respace
T unscript

node (basic tex)

<code>copy</code>	<code>function</code>	<code>ligaturing</code>	<code>function</code>
<code>copy_list</code>	<code>function</code>	<code>mlist_to_hlist</code>	<code>function</code>
<code>count</code>	<code>function</code>	<code>new</code>	<code>function</code>
<code>current_attr</code>	<code>function</code>	<code>next</code>	<code>function</code>
<code>dimensions</code>	<code>function</code>	<code>prev</code>	<code>function</code>
<code>do_ligature_n</code>	<code>function</code>	<code>protect_glyphs</code>	<code>function</code>
<code>family_font</code>	<code>function</code>	<code>protrusion_skippable</code>	<code>function</code>
<code>fields</code>	<code>function</code>	<code>remove</code>	<code>function</code>
<code>first_character</code>	<code>function</code>	<code>set_attribute</code>	<code>function</code>
<code>first_glyph</code>	<code>function</code>	<code>slide</code>	<code>function</code>
<code>flush_list</code>	<code>function</code>	<code>subtype</code>	<code>function</code>
<code>free</code>	<code>function</code>	<code>tail</code>	<code>function</code>
<code>has_attribute</code>	<code>function</code>	<code>traverse</code>	<code>function</code>
<code>has_field</code>	<code>function</code>	<code>traverse_id</code>	<code>function</code>
<code>hpack</code>	<code>function</code>	<code>type</code>	<code>function</code>
<code>id</code>	<code>function</code>	<code>types</code>	<code>function</code>
<code>insert_after</code>	<code>function</code>	<code>unprotect_glyphs</code>	<code>function</code>
<code>insert_before</code>	<code>function</code>	<code>unset_attribute</code>	<code>function</code>
<code>is_node</code>	<code>function</code>	<code>usedlist</code>	<code>function</code>
<code>kerning</code>	<code>function</code>	<code>vpack</code>	<code>function</code>
<code>last_node</code>	<code>function</code>	<code>whatsits</code>	<code>function</code>
<code>length</code>	<code>function</code>	<code>write</code>	<code>function</code>

nodes (context)

after	function	F setpair	
aligned	function	installattributehandler	function
astable	function	is_display_math	function
before	function	is_mirrored	data table
builders	table	is_rotated	data table
F buildpage_filter		kerncodes	data table
F vpack_filter		leftmarginwidth	function
codes	data table	lines	table
count	function	T boxed	
delete	function	F register	
destinations	table	F setup	
N attribute		F stage_one	
T done		F stage_two	
F handler		F stage_zero	
T stack		D data	
dimensionfields	data table	F finalize	
dir_is_pop	data table	F number	
dir_negation	data table	N scratchbox	
fasthpack	function	link	function
fields	function	list	function
fillcodes	data table	listablefields	data table
firstcharacter	function	listcodes	data table
firstcharinbox	function	listtoutf	function
firstglyph	function	load	function
getattribute	function	locate	function
gluecodes	data table	mathcodes	data table
glyphcodes	data table	noadcodes	data table
glyphdir_is_equal	data table	nodecodes	data table
glyphdir_is_opposite	data table	packlist	function
glyphdir_is_orthogonal	data table	pardir_is_equal	data table
handlers	table	pardir_is_opposite	data table
F backgrounds		pardir_is_parallel	data table
F characters		partextdir_is_equal	data table
F checkforleaks		penaltycodes	data table
F checkglyphs		pool	table
F cleanuppage		F baselineskip	
F export		F cleanup	
F finalize		F disc	
F graphicvadjust		F fontkern	
F migrate		F glue	
F protectglyphs		F gluespec	
F stripping		F glyph	
F unprotectglyphs		F kern	
has_attribute	function	F latelua	
idtoString	function	F leftmarginkern	
ignorablefields	data table	F leftskip	
injections	table	F lineskip	
F handler		F noad	
F setcursive		F pdfannotation	
F setkern		F pdfdestination	
F setmark		F pdfdirect	

F pdfliteral		D data	
F pdfrestore		F define	
F pdfsave		F enable	
F pdfsetmatrix		F handler	
F penalty		show	function
F register		showboxes	function
F rightmarginkern		showcodes	function
F rightskip		showlist	function
F rule		showsimplelist	function
F shrink		skipcodes	data table
F stretch		somepenalty	function
F temp		somespace	function
F textdir		stripping	table
F usage		F enable	
T userids		T glyphs	
N margins.inline		striprange	function
N splitters.one		tasks	table
N splitters.two		F actions	
F userlist		F appendaction	
F usernumber		F disableaction	
F userstring		F disablegroup	
F usertokens		F enableaction	
F zeroglue		F enablegroup	
print	function	F freeze	
processors	table	F freezegroup	
B enabled		F new	
F hpack_filter		F prependaction	
F post_linebreak_filter		F removeaction	
F pre_linebreak_filter		F restart	
F tracer		F showactions	
processwords	function	F table	
reference	function	textdir_is_equal	data table
references	table	textdir_is_is	data table
N attribute		textdir_is_opposite	data table
T done		textdir_is_parallel	data table
F handler		tonodes	function
T stack		tosequence	function
remove	function	totable	function
repackhlist	function	toutf	function
replace	function	tracers	table
report	function	T characters	
rightmarginwidth	function	F collect	
rules	table	F equal	
D data		F indices	
F define		F start	
F enable		F string	
F handler		F unicodes	
save	function	T colors	
serialize	function	F reset	
serializebox	function	F set	
setattribute	function	F fontchar	
setattributes	function	F start	
setunsetattributes	function	T steppers	
shifts	table	F check	

F codes	F stop	
F features	F stop	
F glyphs	unsetattribute	function
F message	unsetattributes	function
F messages	visualizebox	function
F nofsteps	whatcodes	data table
F register	whatsitcodes	data table
F reset	writable_spec	function
F start		

number (context)

	function		
basepoints	function	tociceros	function
bit	function	todidots	function
bits	function	todimen	function
clearbit	function	toevenhex	function
dimenfactors	data table	toinches	function
hasbit	function	tomillimeters	function
maxdimen	number	tonewciceros	function
nopts	function	tonewdidots	function
percent	function	tonumberf	function
points	function	tonumberg	function
pts	function	topicas	function
setbit	function	topoints	function
tobasepoints	function	toscaled	function
tobitstring	function	toscaledpoints	function
tocentimeters	function	toset	function

os (basic lua)

<code>__getenv__</code>	function	<code>rename</code>	function
<code>__setenv__</code>	function	<code>resolvers</code>	table
<code>binsuffix</code>	string	<code>resultof</code>	function
<code>clock</code>	function	<code>runtime</code>	function
<code>date</code>	function	<code>selfdir</code>	string
<code>difftime</code>	function	<code>setenv</code>	overloaded function
<code>env</code>	data table	<code>setlocale</code>	overloaded function
<code>exec</code>	overloaded function	<code>sleep</code>	function
<code>execute</code>	overloaded function	<code>spawn</code>	overloaded function
<code>exit</code>	function	<code>time</code>	function
<code>getenv</code>	overloaded function	<code>times</code>	function
<code>gettimeofday</code>	function	<code>timezone</code>	function
<code>launch</code>	function	<code>tmpdir</code>	function
<code>libsuffix</code>	string	<code>tmpname</code>	function
<code>name</code>	string	<code>type</code>	string
<code>platform</code>	string	<code>uname</code>	function
<code>remove</code>	function	<code>uuid</code>	function

package (basic lua)

<code>appendtolibpath</code>	function	<code>loaders</code>	table
<code>clibpaths</code>	function	<code>loadlib</code>	function
<code>config</code>	string	<code>path</code>	string
<code>cpath</code>	string	<code>preload</code>	table
<code>libpaths</code>	function	<code>prependtolibpath</code>	function
<code>loaded</code>	table	<code>seeall</code>	function

pdf (basic tex)

<code>immediateobj</code>	<code>function</code>	<code>pageresources</code>	<code>string</code>
<code>mapfile</code>	<code>function</code>	<code>pagesattributes</code>	<code>string</code>
<code>mapline</code>	<code>function</code>	<code>pdfmapfile</code>	<code>function</code>
<code>maxobjnum</code>	<code>function</code>	<code>pdfmapline</code>	<code>function</code>
<code>obj</code>	<code>function</code>	<code>print</code>	<code>function</code>
<code>objtype</code>	<code>function</code>	<code>refobj</code>	<code>function</code>
<code>pageattributes</code>	<code>string</code>	<code>registerannot</code>	<code>function</code>
<code>pageref</code>	<code>function</code>	<code>reserveobj</code>	<code>function</code>

physics (context)

patterns table

profiler (extra lua)

`pause` `function`
`resume` `function`

`start` `function`
`stop` `function`

regimes (context)

disable	function	process	function
enable	function	push	function
pop	function	translate	function

resolvers (context)

allprefixes	function	getownpath	function
appendhash	function	getreadfilename	function
automount	function	hashers	data table
automounted	table	homedir	string
booleanvariable	function	installinputfilehandler	function
cacheversion	string	installinputlinehandler	function
checkedvariable	function	instance	table
cleanpath	function	D data	
cleanpathlist	function	B diskcache	
concatinators	data table	D environment	
configbanner	string	D expansions	
criticalvars	data table	D fakepaths	
dangerous	data table	D files	
datastate	function	B force_suffices	
defaultsuffixes	table	D found	
dowithfilesandreport	function	D foundintrees	
dowithfilesintree	function	D hashed	
dowithpath	function	D hashes	
dowithvariable	function	D lists	
env	function	B loadererror	
executers	table	D order	
F check		B remember	
F execute		B renewcache	
F finalize		B savelists	
F register		D setups	
expandbraces	function	D specification	
expandedpathfromlist	function	D variables	
expandedpathlist	function	jobs	table
expandedpathlistfromvariable	function	F currentcomponent	
expandpath	function	F justacomponent	
expandpathfromvariable	function	D processors	
expansion	function	F usefile	
extendtexmfvariable	function	joinpath	function
find_file	function	load	function
find_files	function	loadbinfile	function
findbinfile	function	loaders	data table
findctxfile	function	loadlualib	function
finders	data table	loadtexfile	function
findfile	function	loadtime	function
findfiles	function	locateformat	function
findgivenfile	function	locators	data table
findgivenfiles	function	luacnfname	string
findpath	function	luacnfspec	string
findtexfile	function	luacnfstate	string
findwildcardfile	function	macros	table
findwildcardfiles	function	F convertfile	
formatofsuffix	function	F decodecomment	
formatofvariable	function	F enablecomment	
formats	data table	F encodecomment	
generators	data table	F preprocessed	
getenv	function	F processmkvi	

F version		F none	
maxreadlevel	number	F strip	
methodhandler	function	F cleannname	
newinstance	function	F install	
openbinfile	function	N threshold	
openers	data table	setenv	function
openfile	function	setinstance	function
opentexfile	function	settrace	function
ownpath	string	showpath	function
prefixes	data table	simplescanfiles	function
prependhash	function	splitconfigurationpath	function
registerextrapath	function	splitexpansions	function
registerfile	function	splitmethod	function
registerfilehash	function	splitpath	function
registerintrees	function	suffixes	data table
registermethod	function	suffixmap	data table
registerzipfile	function	suffixofformat	function
relations	data table	texdatablob	function
repath	function	unexpandedpath	function
reset	function	unexpandedpathlist	function
resetextrapath	function	unresolve	function
resetresolve	function	updaterelations	function
resolve	function	updatescript	function
savers	data table	usezipfile	function
scandata	function	validatedpath	function
scanfiles	function	variable	function
schemes	table	variableofformat	function
		variableofformatorsuffix	function
T cleaners		wildcardpattern	function
F md5			

scripts (context)

categorytonumber	data table	numbertocategory	data table
colors	data table	numbertodataset	data table
handlers	data table	preprocess	function
hash	table	reset	function
installdataset	function	set	function
installmethod	function		

set (context)

contains	function	tonumber	function
create	function	totable	function
tolist	function		

short_operators (context)

<code>* string</code>	<code>/ string</code>
<code>. string</code>	<code>: string</code>

short_prefixes (context)

E	string	da	string
G	string	f	string
M	string	h	string
P	string	k	string
T	string	m	string
Y	string	n	string
Z	string	p	string
a	string	u	string
c	string	y	string
d	string		

short_units (context)

Litre	string	m	string
Metre	string	n	string
g	string	s	string
h	string	u	string
hz	string	v	string

socket (extra lua)

BLOCKSIZE	number		F keep-open
_DEBUG	boolean		skip function
bind	function		sleep function
choose	function		smtp table
connect	function		S DOMAIN
dns	table		N PORT
	F gethostname		S SERVER
	F tohostname		N TIMEOUT
	F toip		S ZONE
ftp	table		F message
	S PASSWORD		F open
	N PORT		F send
	N TIMEOUT		source function
	S USER		sourcet table
	F command		F by-length
	F get		F default
	F open		F http-chunked
	F put		F until-closed
gettime	function		tcp function
http	table		tp table
	N PORT		N TIMEOUT
	N TIMEOUT		F connect
	S USERAGENT		try function
	F open		udp function
	F request		url table
newtry	function		F absolute
protect	function		F build
select	function		F build_path
sink	function		F escape
sinkt	table		F parse
	F close-when-done		F parse_path
	F default		F unescape
	F http-chunked		

sorters (context)

comparers	table	definitions	data table
F basic		firstofsplit	function
constants	table	setlanguage	function
S defaultdigits		sort	function
S defaultlanguage		splitters	table
S defaultmethod		F utf	
N digitmaximum		strip	function
N digitsoffset		tracers	data table
N ignoredoffset		update	function
N replacementoffset			

statistics (context)

<code>checkfmtstatus</code>	function
<code>elapsedindeed</code>	function
<code>elapsedseconds</code>	function
<code>elapsedtime</code>	function
<code>enable</code>	boolean
<code>formatruntime</code>	function
<code>hastiming</code>	function
<code>memused</code>	function
<code>register</code>	function
<code>reportstorage</code>	function

<code>resettiming</code>	function
<code>runtime</code>	function
<code>savefmtstatus</code>	function
<code>show</code>	function
<code>showjobstat</code>	function
<code>starttiming</code>	function
<code>stoptiming</code>	function
<code>threshold</code>	number
<code>timed</code>	function

status (basic tex)

list function

storage (context)

allocate	function	min	number
data	table	nofmodules	number
evaluators	table	noftables	number
mark	function	register	function
marked	function	shared	data table
max	number		

streams (context)

<code>collect</code>	function
<code>disable</code>	function
<code>enable</code>	function
<code>flush</code>	function
<code>initialize</code>	function

<code>push</code>	function
<code>start</code>	function
<code>stop</code>	function
<code>synchronize</code>	function

string (basic lua)

byte	function	match	function
bytepairs	function	quote	function
bytes	function	quoted	function
char	function	rep	function
characterpairs	function	reverse	function
characters	function	split	function
checkedsplit	function	splitlines	function
count	function	splitup	function
dump	function	strip	function
escapedpattern	function	sub	function
explode	function	toboolean	function
find	function	tocontext	function
format	function	todimen	function
gfind	function	topattern	function
gmatch	function	toutf	function
gsub	function	unquote	function
is_boolean	function	unquoted	function
is_empty	function	upper	function
len	function	utfcharacters	function
limit	function	utfsplitlines	function
lower	function	utfvalues	function

structures (context)

atlocation	function	F value	
blocks	table	currentsectionnumber	function
D collected		descriptions	table
F define		documents	table
F print		T data	
F save		S block	
F select		T blocks	
F setstate		T checkers	
D states		N depth	
D tobesaved		T forced	
bookmarks	table	T numbers	
F finalize		T ownnumbers	
F flatten		T status	
S method		F initialize	
F overload		F preset	
F place		F reset	
F register		floats	table
F setup		formulas	table
counters	table	F current	
F add		F simplify	
F analyze		F store	
F check		helpers	table
D collected		F analyze	
F compact		F formulanumber	
F converted		F merged	
F current		F page	
D data		F prefix	
F define		F prefixlastpage	
F first		F prefixpage	
F get		F simplify	
F last		F title	
F next		F touserdata	
F prev		itemgroups	table
F previous		F maxwidth	
F raw		F nofitems	
F record		F register	
F reset		lists	table
F restart		F analyze	
F restore		D cached	
F save		D collected	
F set		F doifstoredelse	
F setlevel		F enhance	
F setoffset		T enhancers	
F setown		F filter	
F setstate		F filtercollected	
F setvalue		F formulanumber	
F show		D internals	
T specials		F label	
F userpage		F location	
F subs		F number	
D tobesaved		D ordered	

- F page
- F popnesting
- F prefix
- F prefixednumber
- F prefixedpage
- F process
- F push
- D pushed
- F pushnesting
- F realpage
- T result
- F savednumber
- F savedprefixednumber
- F savedtitle
- F sectionnumber
- F size
- F title
- D tobesaved
- F userdata
- F uservalue

marks table

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

notes table

- F checkpagechange
- F define
- F deltapage
- F doifcontent
- F doifonsamepageasprevious
- F flush
- F flushpostponed
- F get
- F getn
- F getnumberpage
- F getstate
- F getsymbolpage
- F internal
- F internalid

- F listindex
- F number
- F ordered
- F postpone
- F resetpostponed
- F restore
- F save
- F setstate
- F setsymbolpage
- D states
- F store
- F title

pages table

- F analyze
- D collected
- F is_odd
- F number
- F save
- D tobesaved

processors table

- F apply
- F register
- F reset
- F split
- F startapply
- F stopapply
- F stripped
- F tostring

references table

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

D filters		F special operation with arguments
F from		T testspecials
F get		F deltapage
F getcurrentmetadata		F i
F getcurrentprefixspec		F internal
F getinnermethod		F page
F getinternalreference		F realpage
D handlers		F section
F identify		F userpage
F import		D tobereferred
F inject		D tobesaved
F injectcurrentset		T urls
D internals		T data
F load		F define
F loadpresets		F get
F mark		F whatfrom
D pages	registers	table
U prefixsplitter		F analyze
T productdata		F analyzed
T componentreferences		D collected
T components		F compare
T productreferences		F define
T programs		F enhance
T data		F extend
F define		F filter
F get		F filtercollected
F realpageofpage		F finalize
U referencesplitter		F flush
D referred		F prepare
F referredpage		F process
F registerfinalizer		F sort
F registerinitializer		F store
F registerpage		D tobesaved
F reportproblems		F unique
F reset		F userdata
T resolvers	sections	table
F reference		F autodepth
F section		F cct
D runners		T collected
F set		F current
F setandgetattribute		F currentblock
F setcomponent		F currentid
F setinnermethod		F currentlevel
F setinternalreference		F defineautolevels
F setnextinternal		F depthnumber
F setnextorder		F finddata
D specials		F findnumber
F splitcomponent		F fullnumber
F splitprefix		F getcurrentlevel
F splitreference		F getlevel
T testrunners		F getnumber
F inner		F internalreference
F special		D levelmap
F special operation		D levels

F load		F filter	
F matchingtilldepth		F finalize	
F numberatdepth		F flush	
F numbers		F meaning	
F popblock		F prepare	
F prefixedconverted		F process	
F pushblock		F register	
F register		F registerused	
D registered		F sort	
F reportstructure		F synonym	
F save		D tobesaved	
F set		tags	table
F setblock		T data	
F setchecker		F detailedtag	
F setlevel		F getid	
F setnumber		F handler	
F somelevel		D labels	
F startautolevel		F last	
F stopautolevel		F lastinchain	
F structuredata		T metadata	
F title		D properties	
D tobesaved		F registerdata	
F typesetnumber		F registermetadata	
F userdata		F restart	
B verbose		F setattributehash	
F way		F setcombination	
sets	table	F setdescription	
F define		F setdescriptionsymbol	
F get		F setfigure	
F getall		F sethighlight	
D setlist		F setitemgroup	
specials	table	F setproperty	
D collected		F setsorting	
F retrieve		F setsynonym	
F store		F settablecell	
D tobesaved		F settabulatecell	
synonyms	table	F start	
F analyzed		F stop	
D collected		D taglist	
F compare		T userdata	
F define			

table (basic lua)

append	function	print	function
are_equal	function	remove	function
compact	function	reversed	function
concat	function	sequenced	function
contains	function	serialize	function
copy	function	setmetatablecall	function
count	function	setmetatableindex	function
derive	function	setmetatablekey	function
fastcopy	function	setmetatablenewindex	function
flattened	function	setn	function
foreach	function	sort	function
foreachi	function	sortedhash	function
fromhash	function	sortedhashkeys	function
getmetatablekey	function	sortedkeys	function
getn	function	sortedpairs	function
has_one_entry	function	strip	function
identical	function	sub	function
imerge	function	swapped	function
imerged	function	tocontext	function
insert	function	tofile	function
is_empty	function	tohandle	function
keys	function	tohash	function
loweredkeys	function	toxml	function
maxn	function	unique	function
merge	function	unnest	function
merged	function	unpack	function
prepend	function		

tex (basic tex)

attribute	table	pdffontname	function
badness	function	pdffontobjnum	function
box	table	pdffontsize	function
catcode	table	pdfpageref	function
conditionals	data table	pdfxformname	function
constants	data table	primitives	function
count	table	print	function
ctxcatcodes	number	printlist	function
definefont	function	prtcacodes	number
delcode	table	romannumeral	function
dimen	table	round	function
dummyscatcodes	number	run	function
enableprimitives	function	scale	function
error	function	scratchcatcodes	number
extraprimitives	function	set	function
finish	function	setAttribute	function
fontidentifier	function	setbox	function
fontname	function	setcatcode	function
fprint	function	setcount	function
get	function	setdelcode	function
getAttribute	function	setdimen	function
getbox	function	setfalse	function
getcatcode	function	setlccode	function
getcount	function	setlist	function
getdelcode	function	setmath	function
getdimen	function	setmathcode	function
getlccode	function	setnest	function
getlist	function	setsfcode	function
getmath	function	setskip	function
getmathcode	function	settoks	function
getnest	function	settrue	function
getsfcode	function	setuccode	function
getskip	function	sfcode	table
gettoks	function	shipout	function
getuccode	function	skip	table
hashtokens	function	sp	function
ifs	data table	sprint	function
iscount	function	systemmodes	data table
isdimen	function	texcatcodes	number
isskip	function	toks	table
istoken	function	tpacatcodes	number
lccode	table	tpbcatcodes	number
linebreak	function	tprint	function
lists	table	txtcatcodes	number
luacatcodes	number	type	function
mathcode	table	uccode	table
modes	data table	uniformdeviate	function
nest	table	uprint	function
nilcatcodes	number	vrbcacodes	number
notcatcodes	number	write	function
number	function		

texconfig (basic tex)

<code>error_line</code>	number	<code>max_print_line</code>	number
<code>expand_depth</code>	number	<code>max_strings</code>	number
<code>formatname</code>	string	<code>nest_size</code>	number
<code>half_error_line</code>	number	<code>param_size</code>	number
<code>hash_extra</code>	number	<code>save_size</code>	number
<code>init</code>	function	<code>shell_escape</code>	string
<code>kpse_init</code>	boolean	<code>stack_size</code>	number
<code>max_in_open</code>	number		

texio (basic tex)

```
write      function  
write_nl  function
```

token (basic tex)

command_id	function	get_next	function
command_name	function	is_activechar	function
create	function	is_expandable	function
csname_id	function	is_protected	function
csname_name	function	lookup	function
expand	function		

tokens (context)

bgroup	table		T show_methods
collectors	table		F a
	T data		F b
	F defaultwords		F c
	F dowithwords		F showtoken
	F flush		F test
	F handle		F trace
	F install	egroup	table
	F register	hbox	table
	T registered	letter	function
	T remapper	letters	function
	F convert	other	function
	T data	vbox	table
	F store	vtop	table
	F show		

tracers (context)

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

trackers (context)

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

typesetters (context)

alignments	table		
	F handler		
	F set		
breakpoints	table		
	N attribute		
	F enable		
	F handler		
	D mapping		
	T methods		
	F set		
	F setreplacement		
cases	table		
	T actions		
	F handler		
	F set		
characters	table		
	F handler		
cleaners	table		
	F handler		
	F set		
digits	table		
	T actions		
	N attribute		
	F handler		
	F set		
directions	table		
	F handler		
	F process		
		F set	
	hpack	function	
	italics	table	
		F forcevariant	
		F handler	
		F reset	
		F set	
	kerns	table	
		D factors	
		F handler	
		B keepligature	
		B keptogether	
		D mapping	
		F set	
	margins	table	
		F finalhandler	
		F globalhandler	
		F localhandler	
		F save	
	spacings	table	
		N attribute	
		F handler	
		D mapping	
		F set	
		F setup	
	tonodes	function	
	vpack	function	

unicode (extra lua)

ascii	table		
F byte		F gmatch	
F char		F gsub	
F dump		F len	
F find		F lower	
F format		F match	
F gfind		F rep	
F gmatch		F reverse	
F gsub		F sub	
F len		F upper	
F lower		ustring	function
F match		utf16_to_utf8	function
F rep		utf16_to_utf8_be	function
F reverse		utf16_to_utf8_le	function
F sub		utf32_to_utf8	function
F upper		utf32_to_utf8_be	function
filetype	function	utf32_to_utf8_le	function
grapheme	table	utf8	table
F byte		F byte	
F char		F char	
F dump		F dump	
F find		F find	
F format		F format	
F gfind		F gfind	
F gmatch		F gmatch	
F gsub		F gsub	
F len		F len	
F lower		F lower	
F match		F match	
F rep		F rep	
F reverse		F reverse	
F sub		F string	
F upper		F sub	
latin1	table	F toentities	
F byte		F upper	
F char		utf8_to_utf16	function
F dump		utf8_to_utf8	function
F find		utfcodes	function
F format		utfname	table
F gfind		utftype	function
		xstring	function

url (context)

<code>addscheme</code>	function	<code>hasscheme</code>	function
<code>construct</code>	function	<code>query</code>	function
<code>filename</code>	function	<code>split</code>	function
<code>hashed</code>	function		

utilities (context)

debugger table

F disable
F enable
F savestats
F showstats

formatters table

F formatcolumns
F list
F stripzeros

garbagecollector table

F check
N criterium
B enabled

lua table

F compile

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 getparameters
F hash_to_string
F listitem
F make_settings_to_hash_pattern
T patterns
 U settings_to_array
 U settings_to_hash_a
 U settings_to_hash_b
 U settings_to_hash_c
F settings_to_array
F settings_to_hash
F settings_to_hash_strict
F settings_to_hash_tolerant
F settings_to_set
F simple_hash_to_string

report function

sequencers table

F appendaction

F appendgroup
F autocompile
F compile
F disableaction
F disablegroup
F enableaction
F enablegroup
D functions
F localize
F nodeprocessor
F prependaction
F prependgroup
F removeaction
F reset
F setkind
F tostring

setters table

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

storage table

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

strings table

F collapseCrLf
F newrepeater
F striplong
F tabtospace

tables table

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

visualizers (context)

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

xml (context)

after	function	F find	
all	function	F lower	
applylpath	function	F name	
assign	function	F number	
attribute	function	F oneof	
before	function	F print	
body	function	F quit	
checkbom	function	F tag	
checkerror	function	F text	
checknamespace	function	F undefined	
checkns	function	F upper	
cleansed	function	fillin	function
collect	function	filter	function
collect_elements	function	finalizers	table
collect_tags	function	T tex	
collect_texts	function	F all	
collected	function	F attribute	
collecttexts	function	F bibtexconcat	
content	function	F bibtexshort	
convert	function	F chainattribute	
copy	function	F command	
count	function	F concat	
cprint	function	F concatrange	
css	table	F context	
F colorspecification		F count	
F fontspecification		F ctxtext	
F padding		F default	
defaulthandlers	table	F first	
D file		F function	
D parsedxml		F index	
D string		F last	
D tex		F lettered	
D texline		F lower	
D texspace		F match	
D verbose		F name	
defaultprotocol	string	F position	
delete	function	F reverse	
delete_element	function	F stripped	
each	function	F tag	
each_element	function	F tags	
elements	function	F text	
empty	function	F upper	
entities	data table	T xml	
erase	function	F all	
escaped	function	F att	
expressions	table	F attribute	
F boolean		F attributes	
F child		F chainattribute	
F contains		F count	
F count		F default	
F error		F elements	

F empty		F unknown_any_entity	
F first		F unknown_dec_entity	
F function		F unknown_hex_entity	
F index		position	function
F last		privatecodes	table
F match		privatetoken	function
F name		process	function
F position		process_attributes	function
F reverse		process_elements	function
F table		processattributes	function
F tag		profiled	table
F tags		raw	function
F text		registerentity	function
F texts		registersns	function
first	function	remap_name	function
found	function	remap_namespace	function
functions	table	remap_tag	function
getbuffer	function	remapname	function
gethandlers	function	remapnamespace	function
gethandlersfunction	function	remaptag	function
include	function	renamespace	function
index	function	replace	function
inheritedconvert	function	replace_element	function
inject	function	resolvns	function
inject_element	function	root	function
inject_element_after	function	save	function
inject_element_before	function	selection	function
injectafter	function	serialize	function
injectbefore	function	sethandlersfunction	function
insert	function	setproperty	function
insert_element	function	settings	function
insert_element_after	function	specialhandler	table
insert_element_before	function	sprint	function
insertafter	function	string	function
insertbefore	function	strip	function
inspect	function	strip_whitespace	function
is_valid	function	stripelement	function
last	function	stripleadingspaces	function
load	function	table	function
lpath	function	text	function
lpathcached	function	textonly	function
lpathcalls	function	tocdata	function
lshow	function	toelement	function
makestandalone	function	tostring	function
match	function	toxml	function
name	function	tprint	function
newhandlers	function	traverse	function
nodesettostring	function	unescaped	function
originalload	function	unprivatized	function
package	function	withelement	function
parent	function	withelements	function
parsedentitylpeg	userdata	wrap	function
pihandlers	table	xmlns	table
placeholders	table		

zip (extra lua)

<code>archives</code>	<code>table</code>	<code>openarchive</code>	<code>function</code>
<code>close</code>	<code>function</code>	<code>openfile</code>	<code>function</code>
<code>closearchive</code>	<code>function</code>	<code>registeredfiles</code>	<code>table</code>
<code>open</code>	<code>function</code>	<code>type</code>	<code>function</code>

zlib (extra lua)

<code>adler32</code>	function	<code>decompress</code>	function
<code>compress</code>	function	<code>decompressobj</code>	function
<code>compressobj</code>	function	<code>version</code>	function
<code>crc32</code>	function		