

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 graphics gzip img interactions
interfaces io job lang languages
layouts lfs libraries lmx logs lpdf
lpeg ltn12 lua luatex lxml math
mathematics md5 metapost mime
moduledata modules 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	interfaces	table
arg	table	io	table
assert	function	ipairs	function
attributes	table	job	table
backends	table	lang	table
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blobs	table	lfs	table
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buffers	table	lmx	table
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caches	table	loadfile	function
callback	table	loadstring	function
callbacks	table	logs	table
catcodes	table	lpdf	table
characters	table	lpeg	table
chemicals	table	ltn12	table
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documentdata	table	mpplib	table
dofile	function	newline	function
endpage	function	newproxy	function
environment	table	next	function
epdf	table	noads	table
error	function	node	table
experiments	table	nodes	table
figures	table	number	table
file	table	os	table
floats	table	outputpagestree	function
font	table	package	table
fontloader	table	pairs	function
fonts	table	parametersets	table
gcinfo	function	pcall	function
getfenv	function	pdf	table
getmetatable	function	physics	table
getreadfilename	function	print	function
global	table	profiler	table
graphics	table	protect	function
gzip	table	rawequal	function
img	table	rawget	function
inspect	function	rawset	function
interactions	table	regimes	table

report_characters	function
require	function
resolvers	table
scripts	table
select	function
set	table
setfenv	function
setmetatable	function
socket	table
sorters	table
statistics	table
status	table
storage	table
streams	table
string	table
stripmath	function
structures	table
table	table
tex	table
texconfig	table
texio	table
toboolean	function

tocontext	function
token	table
tokens	table
tonumber	function
tostring	function
trace_characters	boolean
traceback	function
tracers	table
trackers	table
type	function
typesetters	table
unicode	table
unpack	function
url	table
utf	table
utilities	table
visualizers	table
xml	table
xpcall	function
zip	table
zlib	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 graytohsv
F handler
F hsvtorgb
F hsvtorgb
F iccprofile
F isblack
N main
S model
F mpcolor
F mpoptions
U none
F popset
F pushset
F register
D registered
F registerspotcolor
F rgb
F rgbtocmyk
F rgbtorgb
F rgbtohsv
N selector

F setlist

F setmodel

D sets

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

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

backends (context)

codeinjections	table	F setformsmethod
current	string	F setpagetransition
defaults	table	F setupcanvas
T codeinjections		F setupidentity
T nodeinjections		F setxmpfile
T registrations		F startlayer
D tables		F stoplayer
install	function	F supportedformats
nodeinjections	table	F useviewerlayer
F restore		F validfield
F save		F validfieldcategory
F transform		F validfieldset
nothing	function	S comment
pdf	table	T nodeinjections
T codeinjections		F addtags
F addbookmarks		F attachfile
F addtransparencygroup		F cmykcolor
F attachmentid		F comment
F clonefield		F destination
F definefield		F effect
F definefieldset		F graycolor
F defineviewerlayer		F injectbitmap
F embedfile		F insertmovie
F enabletags		F insertsound
F exportformdata		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

T blue		T paleblue	
T gray		T palegray	
T green		T palegreen	
T red		T palered	
T rulecolors		T red	
T black		F startslant	
T blue		T stopslant	
T gray		registrations	table
T green		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
- F keptogether
- F registertogether
- 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	savedata	function
direct	boolean	setfirstwritablefile	function
force	boolean	setluanames	function
getfirstreadablefile	function	tree	string
getreadablepaths	function	treehash	function
getwritablepath	function	usedpaths	function
hashed	function		

callback (basic tex)

<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
bidi	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_syllabe	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	checkcharactersinfont	function
Character	function	checkedconversion	function
Characters	function	checkedpagefloat	function
MPc	function	checkstructurecounterssetup	function
MPd	function	checktwopassdata	function
MPh	function	chineseallnumerals	function
MPll	function	chinesecapnumerals	function
MPlr	function	chinesenumerals	function
MPls	function	cleanfontname	function
MPn	function	clonefield	function
MPp	function	collectfloat	function
MPpardata	function	collecthelp	function
MPplus	function	colorcomponents	function
MPpos	function	consultfloat	function
MPposset	function	copyfileto	function
MPr	function	copyposition	function
MPrest	function	counttwopassdata	function
MPrs	function	currentcomponent	function
MPul	function	currentdate	function
MPur	function	currentenvironment	function
MPw	function	currentproduct	function
MPx	function	currentproject	function
MPxy	function	currentregime	function
MPxywhd	function	dayname	function
MPy	function	defineattribute	function
Romannumerals	function	definebibtexsession	function
abjadnodotnumerals	function	definebreakpoint	function
abjadnumerals	function	definebreakpoints	function
addff	function	definecharacterspacing	function
addfs	function	defineconversion	function
addlinklistelement	function	definedviewerlayer	function
addstructurecounter	function	definefield	function
addtojavascriptpreamble	function	definefieldset	function
addtolist	function	definefilefallback	function
allinputpaths	function	definefilesynonym	function
alphabetic	function	definefont_one	function
analysefloatmethod	function	definefont_two	function
analyzelist	function	definefontfeature	function
applytochars	function	defineintermediatecolor	function
applytowords	function	definelinkedlist	function
assignbuffer	function	definemarking	function
autofinishstructurelevels	function	definemultitonecolor	function
autonextspace	function	defineparallel	function
autonextstructurelevel	function	defineprocesscolor	function
autosetups	function	definespotcolor	function
autostarttext	function	definestructureblock	function
autostoptext	function	definestructurecounter	function
bcolumn	function	definestructureset	function
boolcase	function	definetransparency	function
character	function	definetwopasslist	function
characters	function	defineviewerlayer	function

defrostrandomseed	function	enablecolor	function
digits	function	enablecolorintents	function
disableregime	function	enablefontcolorschemes	function
disablespellchecking	function	enableregime	function
discardfromlist	function	enablespellchecking	function
doanalyzeframedbox	function	enabletransparency	function
doif	function	enhancelinkedlist	function
doifblackelse	function	enhancelist	function
doifcommonelse	function	erasebuffer	function
doifdimenstringelse	function	exportformdata	function
doifdrawingblackelse	function	featureattribute	function
doifelse	function	featurelist	function
doifelsebuffer	function	feedback	function
doifelsecurrentfonthasfeature	function	fetchallmarks	function
doifelseintwopassdata	function	fetchmultipar	function
doifelsemarking	function	fetchonemark	function
doifelsemultipar	function	fetchtwomarks	function
doifelseparallel	function	filterreference	function
doifelserangeonpage	function	finalizebox	function
doifelsesavedfloat	function	findtwopassdata	function
doifelsespaces	function	firstinset	function
doifelsestructurecounter	function	firststructurecounter	function
doifelsevisualizer	function	flushfloat	function
doiffielddcategoryelse	function	flushpostponedblocks	function
doiffielddelse	function	fontchar	function
doiffielddsetelse	function	fontcollectionclone	function
doiffiledefinedelse	function	fontcollectiondefine	function
doiffileexistelse	function	fontcollectionprepare	function
doiffirstcharelse	function	fontcollectionregister	function
doifinputfileelse	function	fontcollectionreport	function
doifinsetelse	function	fontcollectionreset	function
doifleapyearelse	function	fontlookupgetkey	function
doiflisthasentry	function	fontlookupgetkeyofindex	function
doiflisthasnumberelse	function	fontlookupinitialize	function
doiflisthaspageelse	function	fontlookupnoffound	function
doiflisthastitleelse	function	forceendjob	function
doiflocfileelse	function	forcequitjob	function
doifnot	function	format	function
doifnotstructurecounter	function	formatcolor	function
doifolderversionelse	function	formatgray	function
doifoverlappingelse	function	freezerandomseed	function
doifparentfileelse	function	getbuffer	function
doifpositionelse	function	getbufferctxlua	function
doifpositiononpage	function	getbuffermkvi	function
doifpositionsonsamepageelse	function	getdefaultfieldvalue	function
doifpositionsonthispageelse	function	getfieldcategory	function
doifstructurecounter	function	getfirstcharacter	function
doifurldefinedelse	function	getfirsttwopassdata	function
doprocstypescriptfile	function	getfloatvariable	function
doreshapeframedbox	function	getinternalreference	function
dostarttextfile	function	getlasttwopassdata	function
dostoptextfile	function	getmarking	function
ecolumn	function	getprivateattribute	function
elapsedtime	function	getprivatechar	function

getrandomcounta	function	monthnmnem	function
getrandomcountb	function	monthname	function
getrandomseed	function	mpcolor	function
getreadfilename	function	mpoptions	function
gettexbuffer	function	namedstructureuservariable	function
gettwopassdata	function	namedstructurevariable	function
gettwopassdatalist	function	nbfs	function
geturl	function	nextparallel	function
grabbuffer	function	nextstructurecounter	function
helpaction	function	nofdays	function
helpreference	function	nofitems	function
hexstringtonumber	function	nofstackedfloats	function
hour	function	noteprefixednumber	function
hyphenatedlist	function	notetitle	function
hyphenatedurl	function	ntimes	function
D characters		number	function
N lefthyphenmin		octnumber	function
D mapping		octstringtonumber	function
N righthyphenmin		ordinal	function
F setcharacters		overloadbookmark	function
incrementedstructurecounter	function	parpos	function
insertattachment	function	pdfrotation	function
insertcomment	function	percentageof	function
insertfield	function	placeparallel	function
insertrenderingwindow	function	popfloat	function
insertsoundclip	function	popitaliccorrection	function
isleapyear	function	poplist	function
languagenumber	function	pos	function
laststructurecounter	function	posplus	function
lchexnumber	function	posstrut	function
lchexnumbers	function	poswhd	function
leapyear	function	posxy	function
listlabel	function	prepareMPvariable	function
listlocation	function	preparebibtexsession	function
listprefixednumber	function	preparedfile	function
listprefixedpage	function	presetsymbolist	function
listrealpage	function	presettabulate	function
listsize	function	prevstructurecounter	function
listtitle	function	processbuffer	function
listuserdata	function	processedfile	function
loadctxprelist	function	processedfiles	function
loadexamodes	function	processfile	function
loadfontgoodies	function	processfilemany	function
loadspellchecklist	function	processfilenone	function
loadtypescriptfile	function	processfileonce	function
loadvisualizer	function	processlist	function
locatefilepath	function	pushfloat	function
locfilename	function	pushitaliccorrection	function
markregionbox	function	pushlist	function
mathrenderset	function	rawcharacter	function
maxitemwidth	function	rawdate	function
minute	function	referencepagestate	function
molecule	function	referencerealpage	function
month	function	registerattachment	function

registerbibtexentry	function	setclosepageaction	function
registerbibtexfile	function	setcolormodel	function
registerbookmark	function	setdigitsmanipulation	function
registerbuttons	function	setfontfeature	function
registercolor	function	setfontofid	function
registercolorintent	function	setformat	function
registeredviewerlayer	function	setformsmethod	function
registerhelp	function	setinternalreference	function
registeritemgroup	function	setmarking	function
registermaintextcolor	function	setmathalphabet	function
registernamespace	function	setmathalternate	function
registerpostponedblock	function	setmathattribute	function
registersoundclip	function	setmathitalics	function
registerstructureprocessor	function	setmathstyle	function
registertransparency	function	setopendocumentaction	function
registerunit	function	setopenpageaction	function
relatemarking	function	setownstructurecounter	function
removemissingcharacters	function	setpagetransition	function
replacemissingcharacters	function	setrandomseed	function
replacepospxywhd	function	setrealign	function
resavefloat	function	setreferencearguments	function
resetfontfeature	function	setreferenceoperation	function
resetmarking	function	setstructureblockstate	function
resetmathitalics	function	setstructurecounter	function
resetnullfont	function	settagcombination	function
resetparallel	function	settagdescription	function
resetstructurecounter	function	settagdescriptionsymbol	function
resetstructureprocessor	function	settagfigure	function
resettimer	function	settaghighlight	function
restartstructurecounter	function	settagitemgroup	function
restorecurrentattributes	function	settagproperty	function
restorestructurecounter	function	settagsorting	function
romannumerals	function	settagsynonym	function
runbuffer	function	settagtablecell	function
savebuffer	function	settagtabulatecell	function
savecurrentattributes	function	setupbookmarks	function
savelistnumber	function	setupcanvas	function
savelistprefixednumber	function	setupcharacterspacing	function
savelisttitle	function	setupexport	function
savefloat	function	setupfontexpansion	function
saveparallel	function	setupfontprotrusion	function
savestructureblock	function	setupidentity	function
savestructurecounter	function	setupitaliccorrection	function
savetaggedtwopassdata	function	setxmpfile	function
savetwopassdata	function	showattributes	function
second	function	showchardata	function
selectstructureblock	function	showfontparameters	function
setbreakpoints	function	showhyphenatedinlist	function
setcharactercasing	function	showstructurecounter	function
setcharactercleaning	function	splitfilename	function
setcharacterkerning	function	spotcolorname	function
setcharacterspacing	function	spotcolorparent	function
setcharacterstripping	function	spotcolorvalue	function
setcloseddocumentaction	function	startcolorset	function

startcomponent	function	usecldfile	function
startenvironment	function	usecolors	function
startproduct	function	usecomponent	function
startproject	function	useenvironment	function
startregime	function	usefile	function
starttag	function	usejavascriptpreamble	function
starttext	function	usejavascriptscripts	function
startviewerlayer	function	uselibrary	function
stopcolorset	function	useluafile	function
stopcomponent	function	usemodules	function
stopenvironment	function	usepath	function
stopproduct	function	useproduct	function
stopproject	function	useproject	function
stopregime	function	usesubpath	function
stoptag	function	usesymbols	function
stoptext	function	usetexfile	function
stopviewerlayer	function	useurl	function
storejavascriptcode	function	usexmlfile	function
storejavascriptpreamble	function	usezipfile	function
structureautocatcodedget	function	utfchar	function
structurecatcodedget	function	utfmathclass	function
structurecountersubs	function	utfmathcommand	function
structurecountervalue	function	utfmathfiller	function
structuregivencatcodedget	function	utfmathstretch	function
structurenumber	function	vspacing	function
structuretitle	function	vspacingcollapse	function
structureuservariable	function	vspacingdefine	function
structurevariable	function	vspacingsetamount	function
subff	function	vspacingsnap	function
subfs	function	weekday	function
synchronizemarking	function	weekdayname	function
taggedmathfunction	function	widthofstring	function
testcase	function	writestatus	function
textime	function	x_table_cleanup	function
transparencycomponents	function	x_table_construct	function
triggereffect	function	x_table_create	function
triggernegative	function	x_table_flush	function
truefilename	function	x_table_init_construct	function
typebuffer	function	x_table_init_reflow_height	function
typefile	function	x_table_init_reflow_width	function
typestring	function	x_table_next_row	function
uchexnumber	function	x_table_reflow_height	function
uchexnumbers	function	x_table_reflow_width	function
unicodechar	function	x_table_set_construct	function
unit	function	x_table_set_reflow_height	function
updatefilenames	function	x_table_set_reflow_width	function
useMPLibrary	function	year	function
useanyfile	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	maxchars	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
chars	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)

<code>debug</code>	function
<code>getfenv</code>	function
<code>gethook</code>	function
<code>getinfo</code>	function
<code>getlocal</code>	function
<code>getmetatable</code>	function
<code>getregistry</code>	function

<code>getupvalue</code>	function
<code>setfenv</code>	function
<code>sethook</code>	function
<code>setlocal</code>	function
<code>setmetatable</code>	function
<code>setupvalue</code>	function
<code>traceback</code>	function

dir (context)

collectpattern	function
current	function
expandname	function
glob	function
globfiles	function
globpattern	function

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

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)

<code>analysemethod</code>	<code>function</code>	<code>nofstacked</code>	<code>function</code>
<code>checkedpagefloat</code>	<code>function</code>	<code>pop</code>	<code>function</code>
<code>collect</code>	<code>function</code>	<code>push</code>	<code>function</code>
<code>consult</code>	<code>function</code>	<code>resave</code>	<code>function</code>
<code>flush</code>	<code>function</code>	<code>save</code>	<code>function</code>
<code>getvariable</code>	<code>function</code>	<code>stacked</code>	<code>function</code>

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>	<code>function</code>	<code>info</code>	<code>function</code>
<code>apply_featurefile</code>	<code>function</code>	<code>open</code>	<code>function</code>
<code>close</code>	<code>function</code>	<code>to_table</code>	<code>function</code>
<code>fields</code>	<code>function</code>	<code>totable</code>	<code>function</code>
<code>fullinfo</code>	<code>function</code>		

fonts (context)

analyzers	table		T boundingbox
D initializers			S depth
D methods			S height
F setstate			S width
B useunicodemarks			T parameters
checkers	table		S ascender
F missing			S descender
cid	table		S designsize
F getmap			T expansion
F loadfile			S auto
collections	table		S shrink
F clonevector			S step
F define			S stretch
T definitions			S extendfactor
F prepare			S factor
F process			S hfactor
F registermain			S mathsize
F report			T protrusion
F reset			S auto
T vectors			S quad
constructors	table		S scaledpoints
F aftercopyingcharacters			S scriptpercentage
F applymanipulators			S scriptscriptpercentage
F assignmathparameters			S size
B autocleanup			S slantfactor
F beforecopyingcharacters			S slantperpoint
D cache			T spacing
F calculatescale			S extra
F checkedfeatures			S shrink
F checkedfilename			S stretch
F cleanupable			S width
F collectprocessors			T synonyms
D designsizes			S em
D dontembed			S ex
F enhanceparameters			S extra_space
N factor			S extraspace
F finalize			S slant
F getfeatureaction			S space
F hashfeatures			S space_shrink
F hashinstance			S space_stretch
T hashmethods			S spaceshrink
F normal			S spacestretch
F virtual			S x_height
F initializefeatures			S units
T keys			S vfactor
T character			S xheight
S depth			T properties
S height			S autoitalicamount
S italic			T cidinfo
S width			S embedding
T description			S encodingbytes

S filename	
S finalized	
S fontname	
S format	
S fullname	
S hasitalics	
S hasmath	
S mathitalics	
S mode	
S name	
S noglyphnames	
S nostackmath	
S psname	
S textitalics	
S virtualized	
D loadedfonts	
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 checkedmode	
F checkedscript	
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	
T designsizes	
D data	
F filename	
F register	
F getcompositions	
T list	
F compositions	
F designsizes	
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
- S defaultbasealternate
- S defaultnodealternate
- 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
 - T combinations
 - F combine
 - T combiner
 - D commands
 - F find
 - D helpers
 - D math
 - D predefined
 - D whatever
- hashes** table
 - D characters
 - D csnames
 - D descriptions
 - T dynamics
 - D identifiers
 - D italics
 - D marks
 - D parameters
 - T processes
 - D properties
 - D quads
 - D resources
 - T setdynamics
 - D xheights
- helpers** table
 - F addprivate
 - F dimenfactor
 - F getdigitwidth
 - F getparameters

- F getprivatenode
- F hasprivate
- F nametoslot
- F setdigitwidth
- iterators** table
 - F characters
 - F descriptions
 - F glyphs
- loggers** table
 - T category_to_placeholder
 - S ll
 - S lm
 - S lo
 - S lt
 - S lu
 - S mc
 - S me
 - S mn
 - S nd
 - S nl
 - S no
 - S pc
 - S pd
 - S pe
 - S pf
 - S pi
 - S po
 - S ps
 - S sc
 - S sk
 - S sm
 - S so
 - F format
 - F onetimemessage
 - F register
 - F reportdefinedfonts
 - F reportusedfeatures
- mappings** table
 - F addtounicode
 - F fromunicode16
 - F loadfile
 - F loadline
 - F loadlumtable
 - F makenameparser
 - F reset
 - F tounicode16
 - F tounicode16sequence
- names** table
 - S basename
 - B be_clever
 - D cache
 - F cleanfilename
 - F cleannname
 - F collect

F collectfiles	D specifications	
F collectspec	F splitspec	
T data	N version	
B enabled	F writedata	
F exists	protrusions	data table
T filters	readers	table
F afm	F afm	
F dfont	F check_lua	
T list	F check_tfm	
T names	F dfont	
F otf	F lua	
T paths	F opentype	
F pfb	F otf	
F ttc	F pfb	
F ttf	D sequence	
S fontconfigfile	F tfm	
F getfilename	F ttc	
F getlookupkey	F ttf	
F getlookups	specifiers	table
F getpaths	D contextmerged	
F identify	F contextnumber	
F is_permitted	D contextnumbers	
F list	D contextsetups	
F load	F contexttostring	
B loaded	F mergecontext	
F lookup	F presetcontext	
F noflookups	F registercontext	
S osfontdirvariable	F showcontext	
F readdata	F splitcontext	
F register	D synonyms	
F registered	D variants	
F resolve	symbols	table
F resolvedspecification	F uselibrary	
F resolvespec	tables	table
B saved	tracers	table
F specification	typefaces	data table

graphics (context)

backgrounds table
F calculate

F fetch
F registered

gzip (extra lua)

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

img (basic tex)

boxes	function
checksize	function
clone	function
copy	function
immediatwrite	function
keys	function
new	function
node	function

ofindex	function
package	function
print	function
scan	function
serialize	function
totable	function
types	function
write	function

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 setclosedocument

F setclosepage

F setopendocument

F setopenpage

renderings table

F register

F rendering

F var

soundclips table

F insert

F register

interfaces (context)

addvalidkeys	function	namespaces	table
cachedsetups	data table	F define	
cachesetup	function	F list	
complete	data table	setconstant	function
constants	data table	setelement	function
corenamespaces	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

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
disablesave 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
 F b_col
 F b_region
 F c
 D collected
 F column
 F copy
 F depth
 F e_col
 F e_region

F enhance
F extra
F get
F getreserved
F hangafter
F hangindent
F height
F hsize
F leftskip
F lowerleft
F lowerright
F markregionbox
F n
F onsamepage
F overlapping
F p
F page
F paragraph
F parindent
F position
F r
F region
F replace
F rightskip
F set
F setall
F setdim
D tobesaved
F upperleft
F upperright
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	F check	
installed	function	T data	
labels	table	F disable	
F define		F enable	
F split		T enablers	
lefthyphenmin	function	B enables	
loadable	function	F found	
loadwords	function	F load	
logger	table	T methods	
F report		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)

<code>convert</code>	function	<code>pv</code>	function
<code>escape</code>	function	<code>reset</code>	function
<code>get</code>	function	<code>result</code>	function
<code>htmfile</code>	function	<code>set</code>	function
<code>include</code>	function	<code>show</code>	function
<code>lmxfile</code>	function	<code>showdebuginfo</code>	function
<code>loadedfile</code>	function	<code>showerror</code>	function
<code>make</code>	function	<code>tv</code>	function
<code>new</code>	function	<code>type</code>	function
<code>overloaderror</code>	function	<code>urlescape</code>	function
<code>popupfile</code>	function	<code>variable</code>	function
<code>print</code>	function	<code>variables</code>	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
finalizeddocument	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	endstripper	function
Carg	function	firstofsplit	function
Cb	function	frontstripper	function
Cc	function	is_lpeg	function
Cf	function	keeper	function
Cg	function	locale	function
Cmt	function	match	function
Cp	function	oneof	function
Cs	function	patterns	data table
Ct	function	print	function
P	function	replacer	function
R	function	secondofsplit	function
S	function	span	function
UP	function	split	function
UR	function	splitat	function
US	function	splitter	function
V	function	stripper	function
anywhere	function	tsplitat	function
append	function	tsplitter	function
balancer	function	type	function
checkedsplit	function	utfchartabletopattern	function
count	function	version	function
counter	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	remapalphabets	function
alphabets	data table	renderings	table
big	function	D mappings	
boldmap	table	D numbers	
categories	table	D sets	
D functions		renderset	function
checkaccentbaseheight	function	resetitalics	function
checkprivateparameters	function	scaleparameters	function
classes	data table	setalternate	function
codes	data table	setitalics	function
define	function	syncboth	function
dimensions	function	syncname	function
extrabase	number	syncstyle	function
extras	table	toname	function
F add		tostyle	function
F copy		tweakaftercopyingfont	function
families	data table	tweakbeforecopyingfont	function
gaps	table	tweaks	table
getboth	function	F fixbadprime	
getstyle	function	utfmathclass	function
initializeparameters	function	utfmathcommand	function
makefont	function	utfmathfiller	function
overloadparameters	function	utfmathstretch	function
privatebase	number		

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 converttmpstopdf	
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)

<code>fields</code>	<code>function</code>	<code>pen_info</code>	<code>function</code>
<code>new</code>	<code>function</code>	<code>version</code>	<code>function</code>

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 setmark	
aligned	function	F setpair	
astable	function	installattributehandler	function
before	function	is_display_math	function
builders	table	is_mirrored	data table
F buildpage_filter		is_rotated	data table
F vpack_filter		kerncodes	data table
codes	data table	leftmarginwidth	function
concat	function	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 accessibility		pardir_is_parallel	data table
F backgrounds		partextdir_is_equal	data table
F characters		penaltycodes	data table
F checkforleaks		pool	table
F checkglyphs		F baselineskip	
F cleanuppape		F cleanup	
F export		F disc	
F finalize		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 pdfdirect		setunsetattributes	function
F pdfliteral		shifts	table
F pdfrestore		D data	
F pdfsave		F define	
F pdfsetmatrix		F enable	
F penalty		F handler	
F register		show	function
F rightmarginkern		showboxes	function
F rightskip		showcodes	function
F rule		showlist	function
F shrink		showsimplelist	function
F special		skipcodes	data table
F stretch		somepenalty	function
F temp		somespace	function
F textdir		stripping	table
F usage		T glyphs	
T userids		F set	
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	texmdir_is_equal	data table
references	table	texmdir_is_is	data table
N attribute		texmdir_is_opposite	data table
T done		texmdir_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	

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

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>mapfile</code>	<code>function</code>
<code>mapline</code>	<code>function</code>
<code>maxobjnum</code>	<code>function</code>
<code>obj</code>	<code>function</code>
<code>objtype</code>	<code>function</code>
<code>pageattributes</code>	<code>string</code>
<code>pageref</code>	<code>function</code>

<code>pageresources</code>	<code>string</code>
<code>pagesattributes</code>	<code>string</code>
<code>pdfmapfile</code>	<code>function</code>
<code>pdfmapline</code>	<code>function</code>
<code>print</code>	<code>function</code>
<code>refobj</code>	<code>function</code>
<code>registerannot</code>	<code>function</code>
<code>reserveobj</code>	<code>function</code>

physics (context)

units	table	S	Hz
T	tables	S	W
T	shortcuts	S	b
T	operators	S	g
S	*	S	h
S	.	S	hz
S	/	S	l
S	:	S	lx
T	prefixes	S	m
S	E	S	n
S	G	S	s
S	M	S	t
S	P	S	v
S	T	S	°C
S	Y	S	
S	Z	T	units
S	a	T	operators
S	c	S	OutOf
S	d	S	Per
S	da	S	Solidus
S	f	S	Times
S	h	T	packaged
S	k	S	Micron
S	m	S	mmHg
S	n	T	prefixes
S	p	S	Atto
S	u	S	Centi
S	y	S	Deca
S	z	S	Deci
T	suffixes	S	Exa
S	+1	S	Exbi
S	+2	S	Femto
S	+3	S	Gibi
S	-1	S	Giga
S	-2	S	Hecto
S	-3	S	Kibi
S	1	S	Kilo
S	2	S	Mebi
S	3	S	Mega
S	^+1	S	Micro
S	^+2	S	Milli
S	^+3	S	Nano
S	^-1	S	Pebi
S	^-2	S	Peta
S	^-3	S	Pico
S	^1	S	Root
S	^2	S	Tebi
S	^3	S	Tera
T	units	S	Yobi
S	A	S	Yocto
S	B	S	Yotta

S Zebi	S Fahrenheit
S Zepto	S Farad
S Zetta	S Foot
T suffixes	S Gal
S Cubic	S Gauss
S ICubic	S Gon
S ILinear	S Grad
S ISquare	S Gram
S Inverse	S Gray
S Linear	S Hectare
S Square	S Henry
T symbols	S Hertz
S %	S Hg
S ArcMinute	S Hour
S ArcSecond	S Inch
S Degree	S Joule
S Degrees	S Katal
S Percent	S Kelvin
S Per mille	S Knot
S Promille	S Liter
S °	S Litre
S	S Lumen
S	S Lux
T units	S Maxwell
S AMU	S Meter
S Ampere	S Metre
S Angstrom	S Metric Ton
S Astronomical Unit	S Minute
S Atm	S Mol
S Atmosphere	S Mole
S Atomic Mass Unit	S Nautical Mile
S Bar	S Neper
S Barn	S Newton
S Baud	S Oersted
S Bel	S Ohm
S Bequerel	S Pascal
S Bit	S Phot
S Byte	S Poise
S Cal	S Radian
S Calorie	S Rev
S Candela	S Revolution
S Celsius	S Second
S Coulomb	S Siemens
S Dalton	S Sievert
S Day	S Steradian
S Degree Celsius	S Stilb
S Degree Fahrenheit	S Stokes
S Degrees Celsius	S Tesla
S Degrees Fahrenheit	S Tonne
S Dyne	S Volt
S Electron Volt	S Watt
S Erg	S Weber
S Erlang	S eV

profiler (extra lua)

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

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

regimes (context)

disable	function	push	function
enable	function	toregime	function
pop	function	translate	function
process	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_suffixes	
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 renewtree	
F register		B savelists	
expandbraces	function	D setups	
expandedpathfromlist	function	D specification	
expandedpathlist	function	D variables	
expandedpathlistfromvariable	function	jobs	table
expandpath	function	F currentcomponent	
expandpathfromvariable	function	F currentenvironment	
expansion	function	F currentproduct	
extendtexmfvariable	function	F currentproject	
find_file	function	F justacomponent	
find_files	function	D processors	
findbinfile	function	F productcomponent	
findctxfile	function	F usefile	
finders	data table	joinpath	function
findfile	function	load	function
findfiles	function	loadbinfile	function
findgivenfile	function	loaders	data table
findgivenfiles	function	loadlualib	function
findpath	function	loadtexfile	function
findtexfile	function	loadtime	function
findwildcardfile	function	locateformat	function
findwildcardfiles	function	locators	data table
formatofsuffix	function	luacnfname	string
formatofvariable	function	luacnfspec	string
formats	data table	luacnfstate	string
generators	data table	macros	table
getenv	function	F convertfile	

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

scripts (context)

<code>categorytonumber</code>	data table	<code>numbertocategory</code>	data table
<code>colors</code>	data table	<code>numbertodataset</code>	data table
<code>handlers</code>	data table	<code>preprocess</code>	function
<code>hash</code>	table	<code>reset</code>	function
<code>installdataset</code>	function	<code>set</code>	function
<code>installmethod</code>	function		

set (context)

contains	function	tonumber	function
create	function	totable	function
tolist	function		

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 digitoffset		tracers	data table
N ignoredoffset		update	function
N replacementoffset			

statistics (context)

<code>checkfmtstatus</code>	function	<code>resettiming</code>	function
<code>elapsedindeed</code>	function	<code>runtime</code>	function
<code>elapsedseconds</code>	function	<code>savefmtstatus</code>	function
<code>elapsedtime</code>	function	<code>show</code>	function
<code>enable</code>	boolean	<code>showjobstat</code>	function
<code>formatruntime</code>	function	<code>starttiming</code>	function
<code>hastiming</code>	function	<code>stoptiming</code>	function
<code>memused</code>	function	<code>threshold</code>	number
<code>register</code>	function	<code>timed</code>	function
<code>reportstorage</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 addto	
F restore		F analyze	
F save		D cached	
F set		D collected	
F setlevel		F discard	
F setoffset		F enhance	
F setown		T enhancers	
F setstate		F filter	
F setvalue		F filtercollected	
F show		F formulanumber	
T specials		F hasnumberdata	
F userpage		F haspagedata	
F subs		F hastitledata	
D tobesaved		D internals	

F iscached	
F label	
F location	
F number	
D ordered	
F page	
F popnesting	
F prefix	
F prefixednumber	
F prefixedpage	
F process	
D pushed	
F pushnesting	
F realpage	
T result	
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 ordered	
F postpone	
F resetpostponed	
F restore	
F save	
F setstate	
F setsymbolpage	
D states	
F store	
pages	table
F analyze	
D collected	
F is_odd	
F number	
F save	
D tobesaved	
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 from	
F get	
F getcurrentmetadata	
F getcurrentprefixspec	
F getinnermethod	
F getinternalreference	
D handlers	
F identify	
F import	

- F inject
- F injectcurrentset
- D internals
- F load
- F loadpresets
- F mark
- D pages
- U prefixsplitter
- T productdata
 - T componentreferences
 - T components
 - T productreferences
- T programs
 - T data
 - F define
 - F get
- F realpageofpage
- U referencesplitter
- D referred
- F referredpage
- F registerfinalizer
- F registerinitializer
- F registerpage
- F reportproblems
- F reset
- T resolvers
 - F reference
 - F section
- D runners
- F set
- F setandgetattribute
- F setcomponent
- F setinnermethod
- F setinternalreference
- F setnextinternal
- F setnextorder
- D specials
- F splitcomponent
- F splitprefix
- F splitreference
- T testrunners
 - F inner
 - F special
 - F special operation
 - F special operation with arguments
- T testspecials
 - F deltapage
 - F i
 - F internal
 - F page
 - F realpage
 - F section
 - F userpage
- D tobereferred

- D tobesaved
- T urls
 - T data
 - F define
 - F get
 - F whatfrom
- registers** table
 - F analyze
 - F analyzed
 - D collected
 - F compare
 - F define
 - F enhance
 - F extend
 - F filter
 - F filtercollected
 - F finalize
 - F flush
 - F prepare
 - F process
 - F sort
 - F store
 - D tobesaved
 - F unique
 - F userdata
- sections** table
 - F autodepth
 - F cct
 - T collected
 - F current
 - F currentblock
 - F currentid
 - F currentlevel
 - F defineautolevels
 - F depthnumber
 - F finddata
 - F findnumber
 - F fullnumber
 - F getcurrentlevel
 - F getlevel
 - F getnumber
 - F internalreference
 - D levelmap
 - D levels
 - F load
 - F matchingtilldepth
 - F numberatdepth
 - F numbers
 - F popblock
 - F prefixedconverted
 - F pushblock
 - F register
 - D registered
 - F reportstructure

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

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	number	function
badness	function	pdffontname	function
box	table	pdffontobjnum	function
catcode	table	pdffontsize	function
conditionals	data table	pdfpageref	function
constants	data table	pdfxformname	function
count	table	primitives	function
ctxcatcodes	number	print	function
definefont	function	printlist	function
delcode	table	prtcatcodes	number
dimen	table	romannumeral	function
enableprimitives	function	round	function
error	function	run	function
extraprimitives	function	scale	function
finish	function	set	function
fontidentifier	function	setattribute	function
fontname	function	setbox	function
fprint	function	setcatcode	function
get	function	setcount	function
getattribute	function	setdelcode	function
getbox	function	setdimen	function
getcatcode	function	setfalse	function
getcount	function	setlccode	function
getdelcode	function	setlist	function
getdimen	function	setmath	function
getlccode	function	setmathcode	function
getlist	function	setnest	function
getmath	function	setsfcode	function
getmathcode	function	setskip	function
getnest	function	settoks	function
getsfcode	function	settrue	function
getskip	function	setuccode	function
gettoks	function	sfcode	table
getuccode	function	shipout	function
hashtokens	function	skip	table
ifs	data table	sp	function
inimatcodes	number	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

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	prnterror	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 define

F handler

D mapping

T methods

T numbers

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 ha

F localhandler

F save

paragraphs table

N attribute

T droppers

F freeze

F set

F handler

F set

processors table

F apply

F register

F reset

F split

F startapply

F stopapply

F stripped

F tostring

spacings table

N attribute

F define

F handler

D mapping

T numbers

T frenchpunctuation

T characters

S name

N number

F reset

F set

F setup

tonodes function

vpack function

xtables table

F cleanup

F construct

F create

F flush

F initialize_construct

F initialize_reflow_height

F initialize_reflow_width

F next_row

F reflow_height

F reflow_width

F set_construct

F set_reflow_height

F set_reflow_width

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 appendgroup
F enable			F compile
F savestats			F disableaction
F showstats			F disablegroup
formatters	table		F enableaction
F formatcolumns			F enablegroup
F list			D functions
F stripzeros			F localize
garbagecollector	table		F new
F check			F nodeprocessor
N criterium			F prependaction
B enabled			F prependgroup
lua	table		F removeaction
F compile			F setkind
packers	table		F tostring
F hashed		setters	table
F new		F disable	
F pack		F enable	
F simplehashed		F initialize	
F strip		F list	
F unpack		F new	
N version		F register	
parsers	table	F reset	
F add_settings_to_array		F show	
F arguments_to_table		storage	table
F array_to_string		F allocate	
F getparameters		F checked	
F hash_to_string		F mark	
F listitem		F marked	
F make_settings_to_hash_pattern		F setinitializer	
T patterns		F sparse	
U settings_to_array		strings	table
U settings_to_hash_a		F collapseCrLf	
U settings_to_hash_b		F newrepeater	
U settings_to_hash_c		F nice	
F settings_to_array		F striplong	
F settings_to_hash		F tabtospace	
F settings_to_hash_strict		tables	table
F settings_to_hash_tolerant		F accesstable	
F settings_to_set		F definetable	
F simple_hash_to_string		F encapsulate	
report	function	F insertaftervalue	
sequencers	table	F insertbeforevalue	
F appendaction		F migratetable	
		F removevalue	

visualizers (context)

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

xml (context)

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

F upper		lshow	function
T xml		makestandalone	function
F all		match	function
F att		name	function
F attribute		newhandlers	function
F attributes		nodesettostring	function
F cdata		originalload	function
F chainattribute		package	function
F count		parent	function
F default		parsedentitylpeg	userdata
F elements		pihandlers	table
F empty		placeholders	table
F first		F unknown_any_entity	
F function		F unknown_dec_entity	
F index		F unknown_hex_entity	
F last		position	function
F match		privatecodes	table
F name		privatetoken	function
F position		process	function
F reverse		process_attributes	function
F table		process_elements	function
F tag		processattributes	function
F tags		profiled	table
F text		raw	function
F texts		registerentity	function
first	function	registers	function
found	function	remap_name	function
functions	table	remap_namespace	function
getbuffer	function	remap_tag	function
gethandlers	function	remapname	function
gethandlersfunction	function	remapnamespace	function
include	function	remaptag	function
index	function	renamespace	function
inheritedconvert	function	replace	function
inject	function	replace_element	function
inject_element	function	resolvens	function
inject_element_after	function	root	function
inject_element_before	function	save	function
injectafter	function	selection	function
injectbefore	function	serialize	function
insert	function	setcdata	function
insert_element	function	sethandlersfunction	function
insert_element_after	function	setproperty	function
insert_element_before	function	settings	function
insertafter	function	specialhandler	table
insertbefore	function	sprint	function
insertcomment	function	string	function
inspect	function	strip	function
is_valid	function	strip_whitespace	function
last	function	stripelement	function
load	function	stripleadingspaces	function
lpath	function	table	function
lpathcached	function	text	function
lpathcalls	function	textonly	function

<code>tocdata</code>	<code>function</code>	<code>unescaped</code>	<code>function</code>
<code>toelement</code>	<code>function</code>	<code>unprivatized</code>	<code>function</code>
<code>tostring</code>	<code>function</code>	<code>withelement</code>	<code>function</code>
<code>toxml</code>	<code>function</code>	<code>withelements</code>	<code>function</code>
<code>tprint</code>	<code>function</code>	<code>wrap</code>	<code>function</code>
<code>traverse</code>	<code>function</code>	<code>xmlns</code>	<code>table</code>

zip (extra lua)

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

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		