

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
caches	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

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

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 rgbtogray
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

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

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 disable
	F hyphenation		F enable
	F kerning		F optimize
	F ligaturing		F setup
	F mlist_to_hlist		F split
paragraphs	table		F tag
	T constructors	vspacing	table
	N attribute		F analyze
	F disable		D categories
	F enable		F collapsevbox
	F handler		T data
	T methods		D map
	F default		D skip
	F oneline		D snapmethods
	D names		F definesnapmethod
	D numbers		B fixed
	F register		F pagehandler
	F set		F setmap
F kepttogether			F setskip
F registertogether			F snapbox
T solutions			F tocategories
T splitters			F tocategory
F define			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	savadata	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	collectfloat	function
Character	function	collecthelp	function
Characters	function	colorcomponents	function
MPd	function	consultfloat	function
MPh	function	copyfileto	function
MPll	function	copyposition	function
MPlr	function	counttwopassdata	function
MPp	function	currentcomponent	function
MPplus	function	currentdate	function
MPpos	function	currentenvironment	function
MPrest	function	currentproduct	function
MPul	function	currentproject	function
MPur	function	currentregime	function
MPw	function	dayname	function
MPx	function	defineattribute	function
MPxy	function	definebibtexsession	function
MPy	function	defineconversion	function
Romannumerals	function	definedviewerlayer	function
abjadnodotnumerals	function	definefield	function
abjadnumerals	function	definefieldset	function
addff	function	definefilefallback	function
addfs	function	definefilesynonym	function
addlinklistelement	function	definefont_one	function
addstructurecounter	function	definefont_two	function
addtojavascriptpreamble	function	definefontcollection	function
allinputpaths	function	defineintermediatecolor	function
alphabetic	function	definelinkedlist	function
analysefloatmethod	function	definemarking	function
applytochars	function	definemultitonecolor	function
applytowords	function	defineparallel	function
assignbuffer	function	defineprocesscolor	function
autofinishstructurelevels	function	definespotcolor	function
autonextspace	function	definestructureblock	function
autonextstructurelevel	function	definestructurecounter	function
autosetups	function	definestructureset	function
autostarttext	function	definetransparency	function
autostoptext	function	definetwopasslist	function
boolcase	function	defineviewerlayer	function
character	function	defrostrandomseed	function
characters	function	digits	function
checkcharactersinfont	function	disableregime	function
checkedconversion	function	disablespellchecking	function
checkedpagefloat	function	doanalyzeframedbox	function
checktwopassdata	function	doif	function
chineseallnumerals	function	doifblackelse	function
chinesecapnumerals	function	doifcommonelse	function
chinesenumerals	function	doifdimenstringelse	function
cleanfontname	function	doifdrawingblackelse	function
clonefield	function	doifelse	function
clonefontcollection_one	function	doifelsebuffer	function
clonefontcollection_two	function	doifelsecurrentfonthasfeature	function

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

loadctxprelist	function	registerbibtexentry	function
loadexamodes	function	registerbibtexfile	function
loadfontgoodies	function	registerbookmark	function
loadspellchecklist	function	registerbuttons	function
loadvisualizer	function	registercolor	function
locatefilepath	function	registercolorintent	function
locfilename	function	registeredviewerlayer	function
maxitemwidth	function	registerhelp	function
minute	function	registeritemgroup	function
molecule	function	registermaintextcolor	function
month	function	registernamespace	function
monthmnem	function	registerpostponedblock	function
monthname	function	registersoundclip	function
mpcolor	function	registerstructureprocessor	function
mpoptions	function	registertransparency	function
namedstructureuservariable	function	registerunit	function
namedstructurevariable	function	relatemarking	function
nbfs	function	removemissingcharacters	function
nextparallel	function	replacemissingcharacters	function
nextstructurecounter	function	replacepospxywhd	function
nofdays	function	resavefloat	function
nofitems	function	resetfontcollection	function
nofstackedfloats	function	resetfontfeature	function
number	function	resetmarking	function
octnumber	function	resetmathitalics	function
octstringtonumber	function	resetnullfont	function
ordinal	function	resetparallel	function
overloadbookmark	function	resetstructurecounter	function
pdfrotation	function	resetstructureprocessor	function
percentageof	function	resettimer	function
placeparallel	function	restartstructurecounter	function
popfloat	function	restorecurrentattributes	function
popitaliccorrection	function	restorestructurecounter	function
prepareMPvariable	function	romannumerals	function
preparebibtexsession	function	runbuffer	function
preparedfile	function	savebuffer	function
preparefontcollection	function	savecurrentattributes	function
presetsymbollist	function	savefloat	function
presettabulate	function	saveparallel	function
prevstructurecounter	function	savestructureblock	function
processbuffer	function	savestructurecounter	function
processedfile	function	savetaggedtwopassdata	function
processedfiles	function	savetwopassdata	function
processfile	function	second	function
processfilemany	function	selectstructureblock	function
processfilenone	function	setcloseddocumentaction	function
processfileonce	function	setclosepageaction	function
pushfloat	function	setcolormodel	function
pushitaliccorrection	function	setfontfeature	function
rawcharacter	function	setfontofid	function
rawdate	function	setformat	function
referencepagestate	function	setformsmethod	function
referencerealpage	function	setmarking	function
registerattachment	function	setmathalphabet	function

setmathalternate	function	stopproject	function
setmathattribute	function	stopregime	function
setmathitalics	function	stoptag	function
setmathstyle	function	stoptext	function
setopendocumentaction	function	stopviewerlayer	function
setopenpageaction	function	storejavascriptcode	function
setownstructurecounter	function	storejavascriptpreamble	function
setpagetransition	function	structureautocatcodedget	function
setrandomseed	function	structurecatcodedget	function
setrealign	function	structurecountersubs	function
setreferencearguments	function	structurecountervalue	function
setreferenceoperation	function	structuregivencatcodedget	function
setstructureblockstate	function	structurenumber	function
setstructurecounter	function	structuretitle	function
settagcombination	function	structureuservariable	function
settagdescription	function	structurevariable	function
settagdescriptionsymbol	function	subff	function
settagfigure	function	subfs	function
settaghighlight	function	synchronizemarking	function
settagitemgroup	function	taggedmathfunction	function
settagproperty	function	testcase	function
settagsorting	function	textime	function
settagsynonym	function	transparencycomponents	function
settagtablecell	function	triggereffect	function
settagtabulatecell	function	triggernegative	function
setupbookmarks	function	truefilename	function
setupcanvas	function	typebuffer	function
setupexport	function	typefile	function
setupfontexpansion	function	typestring	function
setupfontprotrusion	function	uchexnumber	function
setupidentity	function	uchexnumbers	function
setupitaliccorrection	function	unicodechar	function
setxmpfile	function	unit	function
showchardata	function	updatefilenames	function
showfontparameters	function	useMPLibrary	function
showhyphenatedinlist	function	useanyfile	function
showstructurecounter	function	usecldfilename	function
splitfilename	function	usecolors	function
spotcolorname	function	usecomponent	function
spotcolorparent	function	useenvironment	function
spotcolorvalue	function	usefile	function
startcolorset	function	usejavascriptpreamble	function
startcomponent	function	usejavascriptscripts	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
startviewerlayer	function	usesubpath	function
stopcolorset	function	usesymbols	function
stopcomponent	function	usetexfile	function
stopenvironment	function	useurl	function
stopproduct	function	usexmlfile	function

usezipfile	function	x_table_init_construct	function
utfchar	function	x_table_init_reflow_height	function
weekday	function	x_table_init_reflow_width	function
weekdayname	function	x_table_next_row	function
widthofstring	function	x_table_reflow_height	function
writestatus	function	x_table_reflow_width	function
x_table_cleanup	function	x_table_set_construct	function
x_table_construct	function	x_table_set_reflow_height	function
x_table_create	function	x_table_set_reflow_width	function
x_table_flush	function	year	function

containers (context)

cleannname	function	is_valid	function
content	function	read	function
define	function	usecache	boolean
is_usable	function	write	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>basename</code>	function
<code>checksum</code>	function
<code>collapsepath</code>	function
<code>copy</code>	function
<code>dirname</code>	function
<code>expandname</code>	function
<code>extname</code>	function
<code>is_qualified_path</code>	function
<code>is_readable</code>	function
<code>is_rootbased_path</code>	function
<code>is_writable</code>	function
<code>isreadable</code>	function
<code>iswritable</code>	function
<code>join</code>	function

<code>joinpath</code>	function
<code>loadchecksum</code>	function
<code>nameonly</code>	function
<code>nametotable</code>	function
<code>needs Updating</code>	function
<code>readdata</code>	function
<code>removesuffix</code>	function
<code>replacesuffix</code>	function
<code>robustname</code>	function
<code>savechecksum</code>	function
<code>savedata</code>	function
<code>splitname</code>	function
<code>splitpath</code>	function
<code>strip</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)

current function
define function
each function
fonts table
frozen function
getfont function

id function
max function
nextid function
read_tfm function
read_vf function
setfont function

fontloader (extra tex)

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

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

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
- F enhanceparameters
- 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

- T expansion

- S auto

- S shrink

- S step

- S stretch

- S extendfactor

- S factor

- S hfactor

- S mathsize

- T protrusion

- S auto

- S quad

- S scaledpoints

- S scriptpercentage

- S scriptscriptpercentage

- S size

- S slantfactor

- S slantperpoint

- T spacing

- S extra

- S shrink

- S stretch

- S width

- T synonyms

- S em

- S ex

- S extra_space

- S extraspace

- S slant

- S space

- S space_shrink

- S space_stretch

- S spaceshrink

- S spacestretch

- S x_height

- S units

- S vfactor

- S xheight

- T properties

- S autoitalicamount

- T cidinfo

- S embedding

- S encodingbytes

- S filename

- S finalized

S fontname	
S format	
S fullname	
S hasitalics	
S hasmath	
S mathitalics	
S mode	
S name	
S noglyphnames	
S nostackmath	
S psname	
S textitalics	
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 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	
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 addtextligatures	
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 descriptions
F getalternate	F glyphs
T glists	loggers table
F load	T category_to_placeholder
F scriptandlanguage	S ll
F setcontextchain	S lm
F setdynamics	S lo
F setfeatures	S lt
T tables	S lu
D baselines	S mc
D features	S me
D languages	S mn
D scripts	S nd
N version	S nl
T pfb	S no
T tfm	S pc
D features	S pd
F setfeatures	S pe
T vf	S pf
T combinations	S pi
F combine	S po
T combiner	S ps
D commands	S sc
F find	S sk
D helpers	S sm
D math	S so
D predefined	F format
D whatever	F onetimemessage
hashes table	F register
D characters	F reportdefinedfonts
D csnames	F reportusedfeatures
D descriptions	mappings table
T dynamics	F addtounicode
D identifiers	F fromunicode16
D italics	F loadfile
D marks	F loadline
D parameters	F loadlumtable
T processes	F makenameparser
D properties	F reset
D quads	F tounicode16
D resources	F tounicode16sequence
T setdynamics	names table
D xheights	S basename
helpers table	B be_clever
F addprivate	D cache
F dimenfactor	F cleanfilename
F getdigitwidth	F cleanname
F getparameters	F collect
F getprivatenode	F collectfiles
F hasprivate	F collectspec
F nametoslot	T data
F setdigitwidth	B enabled
iterators table	F exists
F characters	T filters

F afm
 F dfont
 T list
 T names
 F otf
 T paths
 F pfb
 F ttc
 F ttf
 S fontconfigfile
 F getfilename
 F getlookupkey
 F getlookups
 F getpaths
 F identify
 F is_permitted
 F list
 F load
 B loaded
 F lookup
 F noflookups
 S osfontdirvariable
 F readdata
 F register
 F registered
 F resolve
 F resolvedspecification
 F resolvespec
 B saved
 F specification
 D specifications
 F splitspec
 N version

F writedata
protrusions data table
readers table
 F afm
 F check_lua
 F check_tfm
 F dfont
 F lua
 F opentype
 F otf
 F pfb
 D sequence
 F tfm
 F ttc
 F ttf
specifiers table
 D contextmerged
 F contextnumber
 D contextnumbers
 D contextsetups
 F contexttosting
 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	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
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)

attributes	function	mkdir	function
chdir	function	readlink	function
currentdir	function	rmdir	function
dir	function	setmode	function
isdir	overloaded function	shortname	function
isfile	function	symlinkattributes	function
lock	function	touch	function
lock_dir	function	unlock	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
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	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 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 cleanuppage		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	
idstoring	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		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	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	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_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)

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		

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 listindex	
F popnesting		F number	
F prefix		F ordered	
F prefixednumber		F postpone	
F prefixedpage		F resetpostponed	
F process		F restore	
F push		F save	
D pushed		F setstate	
F pushnesting		F setsymbolpage	
F realpage		D states	
T result		F store	
F savednumber		F title	
F savedprefixednumber		pages	table
F savedtitle		F analyze	
F sectionnumber		D collected	
F size		F is_odd	
F title		F number	
D tobesaved		F save	
F userdata		D tobesaved	
F uservalue		references	table
marks	table	F analyze	
D data		F checkedfile	
F define		F checkedfileorurl	
F exists		F checkedprogram	
F fetch		F checkedrealpage	
F fetchallmarks		F checkedurl	
F fetched		D collected	
F fetchonemark		U componentsplitter	
F fetchtwomarks		F currentmetadata	
F get		F currentorder	
F number		D currentset	
F relate		F define	
F reset		D defined	
F set		D derived	
F show		F doifelse	
F synchronize		F enableinteraction	
F title		F enhance	
T tracers		D executers	
F showtable		F expandcurrent	
notes	table	F export	
F checkpagechange		T files	
F define		T data	
F deltapage		F define	
F doifcontent		F get	
F doifonsamepageasprevious		F filter	
F flush		D filters	
F flushpostponed		F from	
F get		F get	
F getn		F getcurrentmetadata	
F getnumberpage		F getcurrentprefixspec	
F getstate		F getinnermethod	
F getsymbolpage		F getinternalreference	
F internal		D handlers	
F internalid		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 prepare	
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	

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	prtcacodes	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)

<code>command_id</code>	function	<code>get_next</code>	function
<code>command_name</code>	function	<code>is_activechar</code>	function
<code>create</code>	function	<code>is_expandable</code>	function
<code>csname_id</code>	function	<code>is_protected</code>	function
<code>csname_name</code>	function	<code>lookup</code>	function
<code>expand</code>	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 keeptogether

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 handler

D mapping

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

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)

addentitiesdoctype	function	entities	data table
after	function	erase	function
all	function	escaped	function
applylpath	function	expressions	table
assign	function	F boolean	
attribute	function	F child	
before	function	F contains	
body	function	F count	
builtinentities	table	F error	
B amp		F find	
B apos		F lower	
B gt		F name	
B lt		F number	
B quot		F oneof	
cdata	function	F print	
cdatatotext	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	

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
lshow	function	tocdata	function

toelement	function	unprivatized	function
tostring	function	withelement	function
toxml	function	withelements	function
tprint	function	wrap	function
traverse	function	xmlns	table
unescaped	function		

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