1 attributes backends bibtex blobs
boolean buffers builders caches callback
callbacks catcodes characters chemicals
commands containers context converters
coroutine ctxrunner 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 pagebuilders 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 vf visualizers xml zip zlib

ConTeXt MkIV

global (alias: _G)

1	table	gcinfo	function
arg	table	getfenv	function
assert	function	getmetatable	function
attributes	table	getreadfilename	function
backends	table	global	table
beginpage	function	graphics	table
bibtex	table	gzip	table
blobs	table	img	table
boolean	table	inspect	function
buffers	table	interactions	table
builders	table	interfaces	table
caches	table	io	table
callback	table	ipairs	function
callbacks	table	job	table
catcodes	table	lang	table
characters	table	languages	table
chemicals	table	layouts	table
collectgarbage	function	lfs	table
commands	table	libraries	table
containers	table	lmx	table
context	function	load	function
converters	table	loadfile	function
coroutine	table	loadstring	function
ctxrunner	table	logs	table
debug	table	lpdf	table
dimen	function	lpeg	table
dir	table	ltn12	table
directives	table	lua	table
document	table	luatex	table
documentdata	table	lxml	table
dofile	function	math	table
endpage	function	mathematics	table
environment	table	md5	table
epdf	table	metapost	table
error	function	mime	table
experiments	table	module	function
figures	table	moduledata	table
file	table	modules	table
floats	table	mplib	table
font	table	newline	function
fontloader	table	newproxy	function
fonts	table	next	function

noads	table	streams	table
node	table	string	table
nodes	table	stripmath	function
number	table	structures	table
os	table	table	table
outputpagestree	function	tex	table
package	table	texconfig	table
pagebuilders	table	texio	table
pairs	function	toboolean	function
parametersets	table	tocontext	function
pcall	function	token	table
pdf	table	tokens	table
physics	table	tonumber	function
print	function	tostring	function
profiler	table	trace_characters	boolean
protect	function	traceback	function
rawequal	function	tracers	table
rawget	function	trackers	table
rawset	function	type	function
regimes	table	typesetters	table
report_characters	function	unicode	table
require	function	unpack	function
resolvers	table	url	table
scripts	table	utf	table
select	function	utilities	table
set	table	vf	table
setfenv	function	visualizers	table
setmetatable	function	xml	table
socket	table	xmlconvert	function
sorters	table	xpcall	function
statistics	table	zip	table
status	table	zlib	table
storage	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 hsvtogray
- 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		F	value
ofnode	function		D	values
private	function	**unsetvalue**		number
showcurrent	function	**viewerlayers**		table
states	table		N	attribute
F	disabletriggering		D	data
F	enabletriggering		F	define
F	finalize		F	enable
F	initialize		F	forcesupport
F	process		F	handler
F	selective		B	hasorder
F	stacked		D	listwise
F	stacker		F	register
transparencies	table		D	registered
N	attribute		F	resolve_begin
D	data		F	resolve_end
F	enable		F	resolve_step
F	forcesupport		D	scopes
F	handler		F	setfeatures
U	none		F	start
F	register		F	stop
D	registered		B	supported
B	supported		D	values
B	triggering			

backends (context)

codeinjections	table	
F	synchronizecolormodel	
current	string	
defaults	table	
T	codeinjections	
T	nodeinjections	
T	registrations	
D	tables	
install	function	
nodeinjections	table	
F	restore	
F	save	
F	transform	
nothing	function	
pdf	table	
T	codeinjections	
F	addbookmarks	
F	attachmentid	
F	clonefield	
F	definefield	
F	definefieldset	
F	defineviewerlayer	
F	embedfile	
F	enabletags	
F	exportformdata	
F	finalizepage	
F	finishreference	
F	getdefaultfieldvalue	
F	getfieldcategory	
F	getfieldset	
F	getformatoption	
F	getoutputfilename	
F	getpreviewfigure	
F	insertrenderingwindow	
F	mergereferences	
F	mergeviewerlayers	
F	prerollreference	
F	presetsymbol	
F	presetsymbollist	
F	processrendering	
F	registerdocumentcloseaction	
F	registerdocumentopenaction	

F registeredsymbol
F registerpagecloseaction
F registerpageopenaction
F registersymbol
F setfieldcalculationset
F setfigurealternative
F setfigurecolorspace
F setfiguremask
F setformat
F setformsmethod
F setpagetransition
F setupcanvas
F setupidentity
F setxmpfile
F startlayer
F stoplayer
F supportedformats
F useviewerlayer
F validfield
F validfieldcategory
F validfieldset
S comment
T nodeinjections
F addtags
F attachfile
F cmykcolor
F comment
F destination
F effect
F graycolor
F injectbitmap
F insertmovie
F insertsound
F insertswf
F insertu3d
F knockout
F negative
F overprint
F positive
F reference
F rgbcolor
F spotcolor

bibtex (context)

authorref	function
authors	table
F concat	
F inverted	
F invertedshort	
F normal	
F normalshort	
F setsettings	
F short	
authoryearref	function
authoryearsref	function
convert	function
hacks	table
F add	
F doifalreadyplaced	
F filterall	

F flush	
F nofregistered	
F process	
F register	
F registerplaced	
F reset	
F resolve	
load	function
new	function
singularorplural	function
statistics	table
N nofbytes	
N nofdefinitions	
N nofshortcuts	
toxml	function

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 define
     F disable
     F enable
     F handler
     T methods
      F default
      F oneline
     D names
     D numbers
     F set
     F start
     F stop
    F keeptogether
    F registertogether
    T solutions
     T splitters
      F define

    F optimize
    T registered
    F reset
    F set
    F split
    F start
    F stop
   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

caches (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)

find   function   **register**   overloaded function
list   function

callbacks (context)

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

catcodes (context)

names   data table   **register** function
numbers data table

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	table	**shape**	function
enccodes	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	D accentmapping	
hangul	table	F defineaccents	
F decomposed		F toutf	
F description		**tonumber**	function
F leadconsonant		**ucchars**	data table
T remapped		**uccode**	function
initialize	function	**uccodes**	data table
is_character	data table	**unicodechar**	function
is_command	data table	**upper**	function
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	autonextspace	function
Character	function	autonextstructurelevel	function
Characters	function	autosetups	function
MPc	function	autostarttext	function
MPd	function	autostoptext	function
MPh	function	bcolumn	function
MPll	function	boolcase	function
MPlr	function	character	function
MPls	function	characters	function
MPn	function	checkcharactersinfont	function
MPp	function	checkcountersetup	function
MPpardata	function	checkedconversion	function
MPplus	function	checkedpagefloat	function
MPpos	function	checktwopassdata	function
MPposset	function	chineseallnumerals	function
MPr	function	chinesecapnumerals	function
MPrest	function	chinesenumerals	function
MPrs	function	cleanfontname	function
MPul	function	cleanuplayers	function
MPur	function	clonefield	function
MPw	function	collectfloat	function
MPx	function	collecthelp	function
MPxy	function	colorcomponents	function
MPxywhd	function	concatcommalist	function
MPy	function	consultfloat	function
Romannumerals	function	copyfiletolog	function
abjadnodotnumerals	function	copyposition	function
abjadnumerals	function	countervalue	function
addcounter	function	counttwopassdata	function
addff	function	currentcomponent	function
addfs	function	currentdate	function
addlinklistelement	function	currentenvironment	function
addtojavascriptpreamble	function	currentproduct	function
addtolist	function	currentproject	function
allinputpaths	function	currentreferenceorder	function
alphabetic	function	currentregime	function
analysefloatmethod	function	datasetvariable	function
analyzelist	function	dayname	function
applytochars	function	defineattribute	function
applytowords	function	definebibtexsession	function
assignbuffer	function	definebreakpoint	function
autofinishstructurelevels	function	definebreakpoints	function

definecharacterspacing	function	doifelsecurrentfonthasfeature	function
defineconversion	function	doifelseintwopassdata	function
definecounter	function	doifelsemarking	function
definedviewerlayer	function	doifelsemultipar	function
definefield	function	doifelseparallel	function
definefieldset	function	doifelsepositionsused	function
definefilefallback	function	doifelserangeonpage	function
definefilesynonym	function	doifelsereference	function
definefont_one	function	doifelsesavedfloat	function
definefont_two	function	doifelsespaces	function
definefontfeature	function	doifelseutfmathaccent	function
definefontsolution	function	doifelsevisualizer	function
defineinsertion	function	doiffieldcategoryelse	function
defineintermediatecolor	function	doiffieldelse	function
definelinkedlist	function	doiffieldsetelse	function
definemarking	function	doiffiledefinedelse	function
definemultitonecolor	function	doiffileexistelse	function
defineparallel	function	doiffirstcharelse	function
defineparbuilder	function	doifinputfileelse	function
defineprocesscolor	function	doifinsetelse	function
defineprogram	function	doifleapyearelse	function
definereference	function	doiflisthasentry	function
definesectionlevels	function	doiflisthasnumberelse	function
definespotcolor	function	doiflisthaspageelse	function
definestructureblock	function	doiflisthastitleelse	function
definestructureset	function	doiflocfileelse	function
definetransparency	function	doifnot	function
definetwopasslist	function	doifnotcounter	function
defineviewerlayer	function	doifobjectreferencefoundelse	function
defrostrandomseed	function	doifolderversionelse	function
digits	function	doifoverlappingelse	function
disableparbuilder	function	doifparentfileelse	function
disableregime	function	doifposition	function
disablespellchecking	function	doifpositionelse	function
discardfromlist	function	doifpositiononpage	function
doanalyzeframedbox	function	doifpositionsonsamepageelse	function
doif	function	doifpositionsonthispageelse	function
doifblackelse	function	doifurldefinedelse	function
doifcommonelse	function	doprocesstypescriptfile	function
doifcounter	function	doreshapeframedbox	function
doifdimenstringelse	function	dostarttextfile	function
doifdrawingblackelse	function	dostoptextfile	function
doifelse	function	ecolumn	function
doifelsebuffer	function	elapsedtime	function
doifelsecounter	function	enablecolor	function

enablecolorintents	function	formatgray	function
enablefontcolorschemes	function	freezerandomseed	function
enableparbuilder	function	from	function
enableregime	function	getbuffer	function
enablespellchecking	function	getbufferctxlua	function
enabletransparency	function	getbuffermkvi	function
enhancelinkedlist	function	getcommandline	function
enhancelist	function	getctxfile	function
enhancereference	function	getcurrentprefixspec	function
erasebuffer	function	getcurrentreferencemetadata	function
expandcurrentreference	function	getdefaultfieldvalue	function
exportformdata	function	getfieldcategory	function
exportreferences	function	getfirstcharacter	function
featureattribute	function	getfirsttwopassdata	function
featurelist	function	getfloatvariable	function
feedback	function	getinternalreference	function
fetchallmarks	function	getlasttwopassdata	function
fetchmultipar	function	getmarking	function
fetchmultishape	function	getprivateattribute	function
fetchonemark	function	getprivatechar	function
fetchposboxes	function	getprogram	function
fetchtwomarks	function	getrandomcounta	function
filterdefaultreference	function	getrandomcountb	function
filterreference	function	getrandomseed	function
finalizebox	function	getreadfilename	function
findtwopassdata	function	gettexbuffer	function
firstcountervalue	function	gettwopassdata	function
firstinset	function	gettwopassdatalist	function
flushfloat	function	geturl	function
flushpostponedblocks	function	grabbuffer	function
fontchar	function	helpaction	function
fontcollectionclone	function	helpreference	function
fontcollectiondefine	function	hexstringtonumber	function
fontcollectionprepare	function	hour	function
fontcollectionregister	function	hyphenatedlist	function
fontcollectionreport	function	hyphenatedurl	function
fontcollectionreset	function	D characters	
fontlookupgetkey	function	N lefthyphenmin	
fontlookupgetkeyofindex	function	D mapping	
fontlookupinitialize	function	N righthyphenmin	
fontlookupnoffound	function	F setcharacters	
forceendjob	function	incrementedcounter	function
forcequitjob	function	initializetextrackers	function
format	function	injectcurrentreference	function
formatcolor	function	injectreference	function

insertattachment	function	monthname	function
insertcomment	function	mpcolor	function
insertfield	function	mpoptions	function
insertionnumber	function	namedstructureuservariable	function
insertrenderingwindow	function	namedstructurevariable	function
insertsoundclip	function	nbfs	function
installtextracker	function	nextcountervalue	function
isleapyear	function	nextparallel	function
languagenumber	function	nofdays	function
lastcountervalue	function	nofitems	function
lchexnumber	function	nofstackedfloats	function
lchexnumbers	function	noteprefixednumber	function
leapyear	function	notetitle	function
linenumbersstageone	function	ntimes	function
linenumbersstagetwo	function	number	function
listlabel	function	objectnumber	function
listlocation	function	objectpage	function
listprefixednumber	function	octnumber	function
listprefixedpage	function	octstringtonumber	function
listrealpage	function	ordinal	function
listsize	function	overloadbookmark	function
listtitle	function	pagestaterealpage	function
listuserdata	function	parpos	function
loadexamodes	function	pdfrotation	function
loadfontgoodies	function	percentageof	function
loadspellchecklist	function	pgfxcolorspec	function
loadtypescriptfile	function	placeparallel	function
loadvisualizer	function	popfloat	function
locatefilepath	function	popitaliccorrection	function
locfilename	function	poplist	function
logoptions	function	popregime	function
markregionbox	function	popsectionblock	function
mathrenderset	function	pos	function
maxitemwidth	function	posplus	function
minute	function	posstrut	function
mixcleanup	function	poswhd	function
mixfinalize	function	posxy	function
mixflushlist	function	prepareMPvariable	function
mixflushrest	function	preparebibtexsession	function
mixgetsplit	function	preparedfile	function
mixsetsplit	function	presetsymbollist	function
mixstate	function	presettabulate	function
molecule	function	prevcountervalue	function
month	function	processbuffer	function
monthmnem	function	processedfile	function

processedfiles	function	resetmathitalics	function
processfile	function	resetnullfont	function
processfilemany	function	resetparallel	function
processfilenone	function	resetreference	function
processfileonce	function	resetstructureprocessor	function
processlist	function	resettimer	function
pushfloat	function	restartcounter	function
pushitaliccorrection	function	restorecounter	function
pushlist	function	restorecurrentattributes	function
pushregime	function	romannumerals	function
pushsectionblock	function	runbuffer	function
rawcharacter	function	savebuffer	function
rawcountervalue	function	savecounter	function
rawdate	function	savecurrentattributes	function
referencepagestate	function	savedlistnumber	function
referencerealpage	function	savedlistprefixednumber	function
registerattachment	function	savedlisttitle	function
registerbibtexentry	function	savefloat	function
registerbibtexfile	function	saveobject	function
registerbookmark	function	saveparallel	function
registerbuttons	function	savestructureblock	function
registercolor	function	savetaggedtwopassdata	function
registercolorintent	function	savetwopassdata	function
registeredviewerlayer	function	second	function
registerhelp	function	selectstructureblock	function
registeritemgroup	function	setbreakpoints	function
registerlinenumbering	function	setcharactercasing	function
registermaintextcolor	function	setcharactercleaning	function
registernamespace	function	setcharacterkerning	function
registerpostponedblock	function	setcharacterspacing	function
registerrendering	function	setcharacterstripping	function
registersoundclip	function	setclosedocumentaction	function
registerstructureprocessor	function	setclosepageaction	function
registertransparency	function	setcolormodel	function
registerunit	function	setcounter	function
relatemarking	function	setdataset	function
removemissingcharacters	function	setdigitsmanipulation	function
renderingvar	function	setdirection	function
replacemissingcharacters	function	setdocumentenvironments	function
replacepospxywhd	function	setdocumentmodes	function
resavefloat	function	setdocumentmodules	function
resetcounter	function	setfigurelookuporder	function
resetfontfeature	function	setfontfeature	function
resetfontsolution	function	setfontofid	function
resetmarking	function	setfontsolution	function

setformat	function	**setupidentity**	function
setformsmethod	function	**setupinsertion**	function
setinsertionlocation	function	**setupitaliccorrection**	function
setinternalreference	function	**setuplinenumbering**	function
setlayer	function	**setvisual**	function
setmarking	function	**setxmpfile**	function
setmathalphabet	function	**showassignerror**	function
setmathalternate	function	**showattributes**	function
setmathattribute	function	**showchardata**	function
setmathitalics	function	**showcounter**	function
setmathstyle	function	**showfontparameters**	function
setnextinternalreference	function	**showhyphenatedinlist**	function
setobject	function	**splitfilename**	function
setopendocumentaction	function	**spotcolorname**	function
setopenpageaction	function	**spotcolorparent**	function
setowncounter	function	**spotcolorvalue**	function
setpagestate	function	**startcolorset**	function
setpagestaterealpageno	function	**startcomponent**	function
setpagetransition	function	**startenvironment**	function
setparbuilder	function	**startfontsolution**	function
setpos	function	**startparbuilder**	function
setrandomseed	function	**startproduct**	function
setrealign	function	**startproject**	function
setreferencearguments	function	**startregime**	function
setreferenceattribute	function	**startsectionlevel**	function
setreferenceoperation	function	**starttag**	function
setsectionblock	function	**starttext**	function
setstructureblockstate	function	**startviewerlayer**	function
settagcombination	function	**stopcolorset**	function
settagdescription	function	**stopcomponent**	function
settagdescriptionsymbol	function	**stopenvironment**	function
settagfigure	function	**stopfontsolution**	function
settaghighlight	function	**stopparbuilder**	function
settagitemgroup	function	**stopproduct**	function
settagproperty	function	**stopproject**	function
settagsorting	function	**stopregime**	function
settagsynonym	function	**stopsectionlevel**	function
settagtablecell	function	**stoptag**	function
settagtabulatecell	function	**stoptext**	function
setupbookmarks	function	**stopviewerlayer**	function
setupcanvas	function	**storejavascriptcode**	function
setupcharacterspacing	function	**storejavascriptpreamble**	function
setupexport	function	**structureautocatcodedget**	function
setupfontexpansion	function	**structurecatcodedget**	function
setupfontprotrusion	function	**structuregivencatcodedget**	function

structurenumber	function	useproduct	function
structuretitle	function	useproject	function
structureuservariable	function	usesubpath	function
structurevariable	function	usesymbols	function
subcountervalues	function	usetexfile	function
subff	function	useurl	function
subfs	function	usexmlfile	function
synchronizecolormodel	function	usezipfile	function
synchronizemarking	function	utfchar	function
taggedmathfunction	function	utfmathclass	function
testcase	function	utfmathcommand	function
textime	function	utfmathfiller	function
transparencycomponents	function	utfmathstretch	function
triggereffect	function	visual	function
triggernegative	function	vspacing	function
truefilename	function	vspacingcollapse	function
typebuffer	function	vspacingdefine	function
typefile	function	vspacingsetamount	function
typestring	function	vspacingsnap	function
uchexnumber	function	weekday	function
uchexnumbers	function	weekdayname	function
unicodechar	function	widthofstring	function
unit	function	writestatus	function
updatefilenames	function	x_table_cleanup	function
useMPlibrary	function	x_table_construct	function
useanyfile	function	x_table_create	function
usecldfile	function	x_table_flush	function
usecolors	function	x_table_init_construct	function
usecomponent	function	x_table_init_reflow_height	function
useenvironment	function	x_table_init_reflow_width	function
usefile	function	x_table_next_row	function
usejavascriptpreamble	function	x_table_reflow_height	function
usejavascriptscripts	function	x_table_reflow_width	function
uselibrary	function	x_table_set_construct	function
useluafile	function	x_table_set_reflow_height	function
usemodules	function	x_table_set_reflow_width	function
usepath	function	year	function

containers (context)

cleanname	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)

coco	boolean		**running**	function
create	function		**status**	function
cstacksize	function		**wrap**	function
resume	function		**yield**	function

ctxrunner (context)

load   function   **resolve**   function
prepfiles data table

debug (basic lua)

debug	function	**getupvalue**	function
getfenv	function	**setfenv**	function
gethook	function	**sethook**	function
getinfo	function	**setlocal**	function
getlocal	function	**setmetatable**	function
getmetatable	function	**setupvalue**	function
getregistry	function	**traceback**	function

dir (context)

collectpattern	function	**ls**	function
current	function	**makedirs**	function
expandname	function	**mkdirs**	function
glob	function	**pop**	function
globfiles	function	**push**	function
globpattern	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	
files	table	
getargument	function	
getfilename	function	
options	table	

    T commandline

      D environments

      D modes

      D modules

    T ctxfile

      D environments

      D modes

      D modules

setargument	function
setdefaultargument	function
setfilename	function

environment (context)

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

epdf (extra tex)

Array	function	**PDFRectangle**	function
Dict	function	**open**	function
Object	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			**magics**	data table
bitmapimage	function		**mergegoodies**	function
boxnumber	number		**nofprocessed**	number
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
existers	data table		**setlookups**	function
exists	function		**setorder**	function
formats	data table		**setpaths**	function
found	data table		**suffixes**	data table
get	function		**tprint**	function
guess	function		**used**	data table

file (basic lua)

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

floats (context)

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

font (basic tex)

current	function		**id**	function
define	function		**max**	function
each	function		**nextid**	function
fonts	table		**read_tfm**	function
frozen	function		**read_vf**	function
getfont	function		**setfont**	function

fontloader (extra tex)

apply_afmfile	function	**info**	function
apply_featurefile	function	**open**	function
close	function	**to_table**	function
fields	function	**totable**	function
fullinfo	function		

fonts (context)

analyzers	table

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

checkers	table

- F missing

cid	table

- F getmap
- F loadfile

collections	table

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

constructors	table

- F aftercopyingcharacters
- F applymanipulators
- F assignmathparameters
- B autocleanup
- F beforecopyingcharacters
- D cache
- F calculatescale
- F checkedfeatures
- F checkedfilename
- F cleanuptable
- 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                          current          function
      S extra_space                 currentid        function
      S extraspace                  definers         table
      S slant                         F addlookup
      S space                         F analyze
      S space_shrink                  F applypostprocessors
      S space_stretch                 F checkedmode
      S spaceshrink                   F checkedscript
      S spacestretch                  F current
      S x_height                      S defaultlookup
    S units                           F define
    S vfactor                         F getspecification
    S xheight                         F loadfont
  T properties                        F makespecification
    S autoitalicamount                T methods
    T cidinfo                           F install
    S embedding                         D variants
    S encodingbytes                   F read
    S filename                        F register
    S finalized                       F registered
    S fontname                        F registersplit
    S format                          F resetnullfont
    S fullname                        F resolve
    S hasitalics                      T resolvers
    S hasmath                           F file
    S mathitalics                       F name
    S mode                              F spec
    S name                        definetypeface   function
    S noglyphnames                encodings        table
    S nostackmath                     T agl
    S psname                          D cache
    S textitalics                     F is_known
    S virtualized                     D known
D loadedfonts                         F load
S namemode                            F make_unicode_vector
F newfeatures                         D math
N privateoffset                       N version
F readanddefine                   expansions       data table
F registerfeature                 formats          data table
B resolvevirtualtoo               goodies          table
F scale                               T colorschemes
F scaled                                F coloring
F setfactor                             T data
F setname                               F enable
N version                             T designsizes
```

```
   D data                           F load
   F filename                       F scriptandlanguage
   F register                       F setcontextchain
 F getcompositions                  F setdynamics
 T list                             F setfeatures
   F compositions                   T tables
   F designsizes                      D baselines
   F expansions                       D features
   F featureset                       D languages
   F files                            D scripts
   F mathematics                    N version
   F protrusions                  T pfb
   F solutions                    T tfm
   F typefaces                      D features
 F load                             F setfeatures
 F prepare_features               T vf
 F register                         T combinations
 F registerpostprocessor           F combine
 F report                          T combiner
handlers        table                D commands
 T afm                              F find
   B addkerns                       D helpers
   B addligatures                   D math
   B addtexligatures                D predefined
   B autoprefixed                   D whatever
   D cache                      hashes          table
   D features                       D characters
   F load                           D csnames
   F setfeatures                    D descriptions
   B syncspace                      T dynamics
   N version                        D emwidths
 T otf                              D exheights
   F addfeature                     D identifiers
   D cache                          D italics
   T chainhandlers                  D lastmathids
     F normal                       D marks
     F verbose                      D parameters
   F collectlookups                 T processes
   F dataset                        D properties
   S defaultbasealternate           D quads
   S defaultnodealternate           D resources
   D enhancers                      T setdynamics
   D features                       D xheights
   F getalternate              helpers         table
   T glists                         F addprivate
```

F dimenfactor	F loadlumtable
F getdigitwidth	F makenameparser
F getparameters	F reset
F getprivatenode	F tounicode16
F hasprivate	F tounicode16sequence
F nametoslot	**names** table
F setdigitwidth	S basename
iterators table	B be_clever
F characters	D cache
F descriptions	F cleanfilename
F glyphs	F cleanname
loggers table	F collect
T category_to_placeholder	F collectfiles
S ll	F collectspec
S lm	T data
S lo	B enabled
S lt	F exists
S lu	T filters
S mc	F afm
S me	F dfont
S mn	T list
S nd	T names
S nl	F otf
S no	T paths
S pc	F pfb
S pd	F ttc
S pe	F ttf
S pf	S fontconfigfile
S pi	F getfilename
S po	F getlookupkey
S ps	F getlookups
S sc	F getpaths
S sk	F identify
S sm	F is_permitted
S so	F list
F format	F load
F onetimemessage	B loaded
F register	F lookup
F reportdefinedfonts	F noflookups
F reportusedfeatures	S osfontdirvariable
mappings table	F readdata
F addtounicode	F register
F fromunicode16	F registered
F loadfile	F resolve
F loadline	F resolvedspecification

```
        F resolvespec                      F ttf
        B saved                  specifiers      table
        F specification              D contextmerged
        D specifications             F contextnumber
        F splitspec                  D contextnumbers
        N version                    D contextsetups
        F writedata                  F contexttostring
protrusions    data table            F mergecontext
readers        table                 F presetcontext
        F afm                        F registercontext
        F check_lua                  F showcontext
        F check_tfm                  F splitcontext
        F dfont                      D synonyms
        F lua                        D variants
        F opentype           symbols        table
        F otf                        F uselibrary
        F pfb                tables         table
        D sequence           tracers        table
        F tfm                typefaces      data table
        F ttc
```

graphics (context)

backgrounds table

    F calculatemultipar

    F fetchmultipar

F pair

F path

F point

gzip (extra lua)

close function   **open** function
lines function

img (basic tex)

boxes	function	**ofindex**	function
checksize	function	**package**	function
clone	function	**print**	function
copy	function	**scan**	function
immediatewrite	function	**serialize**	function
keys	function	**totable**	function
new	function	**types**	function
node	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	o_limiters	table
bytes	function	T paranoid	
characters	function	open	overloaded function
close	function	open_ro	function
exists	function	output	function
fileseparator	string	pathseparator	string
flush	function	popen	overloaded function
i_limiter	function	read	function
i_limiters	table	readnumber	function
T paranoid		readstring	function
input	function	savedata	function
limiter	function	size	function
lines	function	stderr	userdata
loadchunk	function	stdin	userdata
loaddata	function	stdout	userdata
loadlines	function	tmpfile	function
noflines	function	type	function
o_limiter	function	write	function

job (context)

comment	function
datasets	table

    D collected
    F extend
    F getdata
    F setdata
    D tobesaved

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 get
    F number
    F page
    F save
    F set
    D tobesaved

pack	boolean
pagestates	table

    D collected
    F extend
    F realpage
    F setstate
    D tobesaved

passes	table

    F check
    D collected
    F count
    F define
    F find
    F first
    F get
    F getcollected
    F getdata

    F getfield
    F gettobesaved
    F inlist
    F last
    F list
    F save
    F savetagged
    D tobesaved

positions	table

    F b_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                                     D collected
    F setall                                  T components
    F setdim                                  T tobesaved
    D tobesaved                                 T branches
    F upperleft                                 S name
    F upperright                                S type
    F width                        variables    table
    F x                                        D checksums
    F xy                                       D collected
    F y                                        F save
register    function                           D tobesaved
save        function               version     number
structure   table
```

lang (basic tex)

clean	function	**new**	function
clear_hyphenation	function	**patterns**	function
clear_patterns	function	**postexhyphenchar**	function
exceptions	function	**posthyphenchar**	function
hyphenate	function	**preexhyphenchar**	function
hyphenation	function	**prehyphenchar**	function
id	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 leftorrightpagection
    F isleftpage

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		**extralua**	data table
basictex	data table		**extratex**	data table
builtin	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	graycode	function
adddocumentcolorspace	function	id	function
adddocumentextgstate	function	injectxmpinfo	function
adddocumentpattern	function	insertxmpinfo	function
adddocumentshade	function	javascript	function
addtocatalog	function	launch	function
addtoinfo	function	layerreference	function
addtonames	function	limited	function
addtopageattributes	function	linearshade	function
addtopageresources	function	link	function
addtopagesattributes	function	null	function
addxmpinfo	function	number	function
array	function	pagedestination	function
boolean	function	pagereference	function
checkedkey	function	pdfcolor	function
checkedvalue	function	pdftimestamp	function
circularshade	function	protectresources	boolean
cmykcode	function	reference	function
collectedresources	function	registerannotation	function
color	function	registerdocumentfinalizer	function
colorspace	function	registerpagefinalizer	function
colorspaceconstants	table	reserveannotation	function
T all		reserveobject	function
T cmyk		rgbcode	function
T gray		rotationcm	function
T rgb		shareobject	function
colorspec	function	shareobjectreference	function
colorvalue	function	spotcode	function
colorvalues	function	stream	function
constant	function	string	function
delayedobject	function	timestamp	function
dictionary	function	toeight	function
epdf	table	tosixteen	function
F load		transparency	function
finalizedocument	function	transparencycode	function
finalizepage	function	transparencygroups	table
finishtransparencycode	function	B none	
flushobject	function	transparencyvalue	function
flushstreamfileobject	function	unicode	function
flushstreamobject	function	verbose	function
formats	data table		

lpeg (basic lua)

B	function	counter	function
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	setmaxstack	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

ltn12 (extra lua)

BLOCKSIZE number
filter table
    F chain
    F cycle
pump table
    F all
    F step
sink table
    F chain
    F error
    F file
    F null

    F simplify
    F table
source table
    F cat
    F chain
    F empty
    F error
    F file
    F rewind
    F simplify
    F string

lua (basic tex)

bytecode	table	**messages**	data table
bytedata	data table	**name**	table
bytedone	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)

cleanuptempfiles	function	**showjobstat**	function
registerstartactions	function	**showtexstat**	function
registerstopactions	function	**starttime**	number
registertempfile	function		

lxml (context)

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

F	show	**tag**	function
F	sort	**text**	function
splitid	function	**tofile**	function
startraw	function	**toparameters**	function
stopraw	function	**toverbatim**	function
store	function	**verbatim**	function
strip	function	**withindex**	function
stripped	function	**xmltexhandler**	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
fallbacks	table	**tostyle**	function
F apply		**tweakaftercopyingfont**	function
F install		**tweakbeforecopyingfont**	function
families	data table	**tweaks**	table
gaps	table	F fixbadprime	
getboth	function	**utfmathclass**	function
getstyle	function	**utfmathcommand**	function
initializeparameters	function	**utfmathfiller**	function
makefont	function	**utfmathstretch**	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	**resettexts**	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		**textextsdata**	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)

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

nodes (context)

after	function		F stripping
aligned	function		F unprotectglyphs
astable	function	**has_attribute**	function
before	function	**idstostring**	function
builders	table	**ignorablefields**	data table
F buildpage_filter		**injections**	table
F vpack_filter		F handler	
codes	data table	F setcursive	
concat	function	F setkern	
count	function	F setmark	
delete	function	F setpair	
destinations	table	**installattributehandler**	function
N attribute		**is_display_math**	function
T done		**is_mirrored**	data table
F handler		**is_rotated**	data table
T stack		**kerncodes**	data table
dimensionfields	data table	**leftmarginwidth**	function
dir_is_pop	data table	**lines**	table
dir_negation	data table	T boxed	
fasthpack	function	F register	
fields	function	F setup	
fillcodes	data table	F stage_one	
firstcharacter	function	F stage_two	
firstcharinbox	function	F stage_zero	
firstglyph	function	D data	
getattribute	function	F finalize	
gluecodes	data table	F number	
glyphcodes	data table	N scratchbox	
glyphdir_is_equal	data table	**link**	function
glyphdir_is_opposite	data table	**list**	function
glyphdir_is_orthogonal	data table	**listablefields**	data table
handlers	table	**listcodes**	data table
F accessibility		**listtoutf**	function
F backgrounds		**load**	function
F characters		**locate**	function
F checkforleaks		**mathcodes**	data table
F checkglyphs		**noadcodes**	data table
F cleanuppage		**nodecodes**	data table
F export		**packlist**	function
F finalize		**pardir_is_equal**	data table
F migrate		**pardir_is_opposite**	data table
F protectglyphs		**pardir_is_parallel**	data table

partextdir_is_equal	data table	**print**	function
penaltycodes	data table	**processors**	table
pool	table	B enabled	
F baselineskip		F hpack_filter	
F cleanup		F post_linebreak_filter	
F disc		F pre_linebreak_filter	
F fontkern		F tracer	
F glue		**processwords**	function
F gluespec		**reference**	function
F glyph		**references**	table
F hlist		N attribute	
F kern		T done	
F latelua		F handler	
F leftmarginkern		T stack	
F leftskip		**remove**	function
F lineskip		**repackhlist**	function
F noad		**replace**	function
F pdfannotation		**report**	function
F pdfdestination		**rightmarginwidth**	function
F pdfdirect		**rules**	table
F pdfliteral		D data	
F pdfrestore		F define	
F pdfsave		F enable	
F pdfsetmatrix		F handler	
F penalty		**save**	function
F register		**serialize**	function
F rightmarginkern		**serializebox**	function
F rightskip		**setattribute**	function
F rule		**setattributes**	function
F shrink		**setunsetattributes**	function
F special		**shifts**	table
F stretch		D data	
F temp		F define	
F textdir		F enable	
F usage		F handler	
T userids		**show**	function
N margins.inline		**showboxes**	function
N splitters.one		**showcodes**	function
N splitters.two		**showlist**	function
F userlist		**showsimplelist**	function
F usernumber		**skipcodes**	data table
F userstring		**somepenalty**	function
F usertokens		**somespace**	function
F vlist		**stripping**	table
F zeroglue		T glyphs	

```
   F set
striprange              function
tasks                   table
   F actions
   F appendaction
   F disableaction
   F disablegroup
   F enableaction
   F enablegroup
   F freeze
   F freezegroup
   F new
   F prependaction
   F removeaction
   F restart
   F showactions
   F table
textdir_is_equal        data table
textdir_is_is           data table
textdir_is_opposite     data table
textdir_is_parallel     data table
tonodes                 function
tosequence              function
totable                 function
toutf                   function
tracers                 table
   T characters
     F collect
     F equal
     F indices
     F start
     F string
     F unicodes
   T colors

   F reset
   F set
   F setlist
 F fontchar
 F start
 T steppers
   F check
   F codes
   F features
   F glyphs
   F message
   F messages
   F nofsteps
   F register
   F reset
   F start
   F stop
 F stop
 T transparencies
   F reset
   F set
   F setlist
unsetattribute          function
unsetattributes         function
visualizebox            function
visualizers             table
   F box
   F handler
   F setfont
   F setlayer
   F setvisual
whatcodes               data table
whatsitcodes            data table
writable_spec           function
```

number (context)

	function	**tocentimeters**	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
splitdimen	function	**toscaled**	function
tobasepoints	function	**toscaledpoints**	function
tobitstring	function	**toset**	function

os (basic lua)

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

package (basic lua)

appendtolibpath	function	**loaders**	table
clibpaths	function	**loadlib**	function
config	string	**path**	string
cpath	string	**preload**	table
libpaths	function	**prependtolibpath**	function
loaded	table	**seeall**	function

pagebuilders (context)

mixedcolumns   table
    F cleanup
    F finalize
    F getlist

F getrest
F getsplit
F setsplit

pdf (basic tex)

immediateobj	function	**pageresources**	string
mapfile	function	**pagesattributes**	string
mapline	function	**pdfmapfile**	function
maxobjnum	function	**pdfmapline**	function
obj	function	**print**	function
objtype	function	**refobj**	function
pageattributes	string	**registerannot**	function
pageref	function	**reserveobj**	function

physics (context)

```
units  table                                      S ^-1
   T tables                                        S ^-2
     T shortcuts                                   S ^-3
       T operators                                 S ^1
         S *                                       S ^2
         S .                                       S ^3
         S /                                     T units
         S :                                       S A
       T prefixes                                  S B
         S E                                       S Hz
         S G                                       S W
         S M                                       S b
         S P                                       S g
         S T                                       S h
         S Y                                       S hz
         S Z                                       S l
         S a                                       S lx
         S c                                       S m
         S d                                       S n
         S da                                      S s
         S f                                       S t
         S h                                       S v
         S k                                       S ℃
         S m                                       S
         S n                                     T units
         S p                                       T operators
         S u                                         S OutOf
         S y                                         S Per
         S z                                         S Solidus
       T suffixes                                    S Times
         S +1                                      T packaged
         S +2                                        S Micron
         S +3                                        S mmHg
         S -1                                      T prefixes
         S -2                                        S Atto
         S -3                                        S Centi
         S 1                                         S Deca
         S 2                                         S Deci
         S 3                                         S Exa
         S ^+1                                       S Exbi
         S ^+2                                       S Femto
         S ^+3                                       S Gibi
```

S Giga
S Hecto
S Kibi
S Kilo
S Mebi
S Mega
S Micro
S Milli
S Nano
S Pebi
S Peta
S Pico
S Root
S Tebi
S Tera
S Yobi
S Yocto
S Yotta
S Zebi
S Zepto
S Zetta
T suffixes
S Cubic
S ICubic
S ILinear
S ISquare
S Inverse
S Linear
S Square
T symbols
S %
S ArcMinute
S ArcSecond
S Degree
S Degrees
S Percent
S Permille
S Promille
S °
S
S
T units
S AMU
S Ampere
S Angstrom

S Astronomical Unit
S Atm
S Atmosphere
S Atomic Mass Unit
S Bar
S Barn
S Baud
S Bel
S Bequerel
S Bit
S Byte
S Cal
S Calorie
S Candela
S Celsius
S Coulomb
S Dalton
S Day
S Degree Celsius
S Degree Fahrenheit
S Degrees Celsius
S Degrees Fahrenheit
S Dyne
S Electron Volt
S Erg
S Erlang
S Fahrenheit
S Farad
S Foot
S Gal
S Gauss
S Gon
S Grad
S Gram
S Gray
S Hectare
S Henry
S Hertz
S Hg
S Hour
S Inch
S Joule
S Katal
S Kelvin
S Knot

S Liter

S Litre

S Lumen

S Lux

S Maxwell

S Meter

S Metre

S Metric Ton

S Minute

S Mol

S Mole

S Nautical Mile

S Neper

S Newton

S Oersted

S Ohm

S Pascal

S Phot

S Poise

S Radian

S Rev

S Revolution

S Second

S Siemens

S Sievert

S Steradian

S Stilb

S Stokes

S Tesla

S Tonne

S Volt

S Watt

S Weber

S eV

profiler (extra lua)

pause	function		**start**	function
resume	function		**stop**	function

regimes (context)

disable	function	**push**	function
enable	function	**toregime**	function
pop	function	**translate**	function
process	function		

resolvers (context)

allprefixes	function	**findfiles**	function
appendhash	function	**findgivenfile**	function
automount	function	**findgivenfiles**	function
automounted	table	**findpath**	function
booleanvariable	function	**findtexfile**	function
cacheversion	string	**findwildcardfile**	function
checkedvariable	function	**findwildcardfiles**	function
cleanpath	function	**formatofsuffix**	function
cleanpathlist	function	**formatofvariable**	function
concatinators	data table	formats	data table
configbanner	string	**generators**	data table
criticalvars	data table	getenv	function
dangerous	data table	getownpath	function
datastate	function	**getreadfilename**	function
defaultsuffixes	table	**hashers**	data table
dowithfilesandreport	function	**homedir**	string
dowithfilesintree	function	**inputstack**	table
dowithpath	function	**installinputfilehandler**	function
dowithvariable	function	**installinputlinehandler**	function
env	function	**instance**	table
executers	table	D data	
F check		B diskcache	
F exec		D environment	
F execute		D expansions	
F finalize		D fakepaths	
F popen		D files	
F register		B force_suffixes	
F spawn		D found	
expandbraces	function	D foundintrees	
expandedpathfromlist	function	D hashed	
expandedpathlist	function	D hashes	
expandedpathlistfromvariable	function	D lists	
expandpath	function	B loaderror	
expandpathfromvariable	function	D order	
expansion	function	B remember	
extendtexmfvariable	function	B renewcache	
~~find_file~~	~~function~~	B renewtree	
~~find_files~~	~~function~~	B savelists	
findbinfile	function	D setups	
findctxfile	function	D specification	
finders	data table	D variables	
findfile	function	**jobs**	table

F	currentcomponent		**registerzipfile**	function
F	currentenvironment		**relations**	data table
F	currentproduct		**renew**	function
F	currentproject		**repath**	function
F	justacomponent		**reset**	function
D	processors		**resetextrapath**	function
F	productcomponent		**resetresolve**	function
F	usefile		**resolve**	function
joinpath		function	**savers**	data table
load		function	**scandata**	function
loadbinfile		function	**scanfiles**	function
loaders		data table	**schemes**	table
loadlualib		function	T cleaners	
loadtexfile		function	F md5	
loadtime		function	F none	
locateformat		function	F strip	
locators		data table	F cleanname	
luacnfname		string	F install	
luacnfspec		string	N threshold	
luacnfstate		string	**setenv**	function
macros		table	**setinstance**	function
F	convertfile		**settrace**	function
F	decodecomment		**showpath**	function
F	enablecomment		**simplescanfiles**	function
F	encodecomment		**splitconfigurationpath**	function
F	preprocessed		**splitexpansions**	function
F	processmkvi		**splitmethod**	function
F	version		**splitpath**	function
maxreadlevel		number	**suffixes**	data table
methodhandler		function	**suffixmap**	data table
newinstance		function	**suffixofformat**	function
openbinfile		function	**texdatablob**	function
openers		data table	**unexpandedpath**	function
openfile		function	**unexpandedpathlist**	function
opentexfile		function	**unresolve**	function
ownpath		string	**updaterelations**	function
prefixes		data table	**updatescript**	function
prependhash		function	**usezipfile**	function
registerextrapath		function	**validatedpath**	function
registerfile		function	**variable**	function
registerfilehash		function	**variableofformat**	function
registerintrees		function	**variableofformatorsuffix**	function
registermethod		function	**wildcardpattern**	function

scripts (context)

categorytonumber	data table	**handlers**	data table
colors	data table	**hash**	table
defaults	table	**installdataset**	function
N inter_char_half_shrink_factor		**installmethod**	function
N inter_char_half_stretch_factor		**numbertocategory**	data table
N inter_char_hangul_penalty		**numbertodataset**	data table
N inter_char_quarter_shrink_factor		**preprocess**	function
N inter_char_quarter_stretch_factor		**reset**	function
N inter_char_shrink_factor		**set**	function
N inter_char_stretch_factor			

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
   F basic
constants   table
   S defaultdigits
   S defaultlanguage
   S defaultmethod
   N digitsmaximum
   N digitsoffset
   N ignoredoffset
   N replacementoffset

definitions   data table
firstofsplit   function
setlanguage   function
sort   function
splitters   table
    F utf
strip   function
tracers   data table
update   function

statistics (context)

checkfmtstatus	function	resettiming	function
elapsedindeed	function	runtime	function
elapsedseconds	function	savefmtstatus	function
elapsedtime	function	show	function
enable	boolean	showjobstat	function
formatruntime	function	starttiming	function
hastiming	function	stoptiming	function
memused	function	threshold	number
register	function	timed	function
reportstorage	function		

status (basic tex)

list function

storage (context)

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

streams (context)

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

string (basic lua)

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

structures (context)

atlocation	function
blocks	table
D collected	
F define	
F print	
F save	
F select	
F setstate	
D states	
D tobesaved	
bookmarks	table
F finalize	
F flatten	
S method	
F overload	
F place	
F register	
F setup	
counters	table
F add	
F analyze	
F check	
D collected	
F compact	
F converted	
F currentvalue	
D data	
F define	
F first	
F get	
F last	
F next	
F prev	
F previous	
F raw	
F record	
F reset	
F restart	
F restore	
F save	
F set	
F setlevel	

F setoffset	
F setown	
F setstate	
F setvalue	
T specials	
F userpage	
F subs	
D tobesaved	
F value	
currentsectionnumber	function
descriptions	table
documents	table
T data	
S block	
T blocks	
T checkers	
N depth	
T forced	
T numbers	
T ownnumbers	
T status	
F initialize	
F preset	
F reset	
floats	table
formulas	table
F current	
F simplify	
F store	
helpers	table
F analyze	
F formulanumber	
F merged	
F page	
F prefix	
F prefixlastpage	
F prefixpage	
F simplify	
F title	
F touserdata	
inserts	table
T data	

```
    T bottomfloat                         F hastitledata
      S location                          D internals
      S name                              F iscached
      N number                            F label
    T endnote                             F location
      S location                          F number
      S name                              D ordered
      N number                            F page
    T footnote                            F popnesting
      S location                          F prefix
      S name                              F prefixednumber
      N number                            F prefixedpage
    T linenote                            F process
      S location                          D pushed
      S name                              F pushnesting
      N number                            F realpage
    T topfloat                            T result
      S location                          F sectionnumber
      S name                              F size
      N number                            F title
  F define                                D tobesaved
  F getdata                               F userdata
  F getlocation                           F uservalue
  F getname                         marks                  table
  F getnumber                             D data
  F setlocation                           F define
  F setup                                 F exists
  D stored                                F fetch
itemgroups            table               F fetchallmarks
  F maxwidth                              F fetched
  F nofitems                              F fetchonemark
  F register                              F fetchtwomarks
lists                 table               F get
  F addto                                 F number
  F analyze                               F relate
  D cached                                F reset
  D collected                             F set
  F discard                               F show
  F enhance                               F synchronize
  T enhancers                             F title
  F filter                                T tracers
  F filtercollected                         F showtable
  F formulanumber                   notes                  table
  F hasnumberdata                         F checkpagechange
  F haspagedata                           F define
```

```
    F deltapage                                      F enhance
    F doifcontent                                    D executers
    F doifonsamepageasprevious                       F expandcurrent
    F flush                                          F export
    F flushpostponed                                 T files
    F get                                              T data
    F getn                                             F define
    F getnumberpage                                    F get
    F getstate                                       F filter
    F getsymbolpage                                  F filterdefault
    F internal                                       D filters
    F internalid                                     F from
    F listindex                                      F get
    F ordered                                        F getcurrentmetadata
    F postpone                                       F getcurrentprefixspec
    F resetpostponed                                 F getinnermethod
    F restore                                        F getinternalreference
    F save                                           D handlers
    F setstate                                       F identify
    F setsymbolpage                                  F import
    D states                                         F inject
    F store                                          F injectcurrentset
pages                 table                          D internals
    F analyze                                        F load
    D collected                                      F loadpresets
    F is_odd                                         F mark
    F number                                         D pages
    F save                                           U prefixsplitter
    D tobesaved                                      D productdata
references            table                          T programs
    F analyze                                          T data
    F checkedfile                                      F define
    F checkedfileorurl                                 F get
    F checkedprogram                                 F realpageofpage
    F checkedrealpage                                U referencesplitter
    F checkedurl                                     D referred
    D collected                                      F referredpage
    U componentsplitter                              F registerfinalizer
    F currentmetadata                                F registerinitializer
    F currentorder                                   F registerpage
    D currentset                                     F reportproblems
    F define                                         F reset
    D defined                                        T resolvers
    D derived                                          F reference
    F enableinteraction                                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	valid	
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	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	set
F	setblock
F	setchecker
F	setlevel
F	setnumber
F	somelevel
F	structuredata
F	title
D	tobesaved

F	typesetnumber	
F	userdata	
B	verbose	
F	way	
sets		table
F	define	
F	get	
F	getall	
D	setlist	
specials		table
D	collected	
F	retrieve	
F	store	
D	tobesaved	
synonyms		table
F	analyzed	
D	collected	
F	compare	
F	define	
F	filter	
F	finalize	
F	flush	
F	meaning	
F	prepare	
F	process	
F	register	
F	registerused	
F	sort	
F	synonym	
D	tobesaved	
tags		table
T	data	
F	detailedtag	
F	getid	
F	handler	
D	labels	
F	last	
F	lastinchain	
T	metadata	
D	properties	
F	registerdata	
F	registermetadata	
F	restart	
F	setattributehash	
F	setcombination	
F	setdescription	
F	setdescriptionsymbol	
F	setfigure	
F	sethighlight	
F	setitemgroup	
F	setproperty	
F	setsorting	
F	setsynonym	
F	settablecell	
F	settabulatecell	
F	start	
F	stop	
D	taglist	
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	linebreak	function
badness	function	lists	table
box	table	luacatcodes	number
catcode	table	mathcode	table
conditionals	data table	modes	data table
constants	data table	nest	table
count	table	nilcatcodes	number
ctxcatcodes	number	notcatcodes	number
definefont	function	number	function
delcode	table	pdffontname	function
dimen	table	pdffontobjnum	function
enableprimitives	function	pdffontsize	function
error	function	pdfpageref	function
extraprimitives	function	pdfxformname	function
finish	function	primitives	function
fontidentifier	function	print	function
fontname	function	printlist	function
fprint	function	prtcatcodes	number
get	function	romannumeral	function
getattribute	function	round	function
getbox	function	run	function
getcatcode	function	scale	function
getcount	function	set	function
getdelcode	function	setattribute	function
getdimen	function	setbox	function
getlccode	function	setcatcode	function
getlist	function	setcount	function
getmath	function	setdelcode	function
getmathcode	function	setdimen	function
getnest	function	setfalse	function
getsfcode	function	setlccode	function
getskip	function	setlist	function
gettoks	function	setmath	function
getuccode	function	setmathcode	function
hashtokens	function	setnest	function
ifs	data table	setsfcode	function
inicatcodes	number	setskip	function
iscount	function	settoks	function
isdimen	function	settrue	function
isskip	function	setuccode	function
istoken	function	sfcode	table
lccode	table	shipout	function

skip	table	**trackers**	data table
sp	function	**txtcatcodes**	number
sprint	function	**type**	function
systemmodes	data table	**uccode**	table
texcatcodes	number	**uniformdeviate**	function
toks	table	**uprint**	function
tpacatcodes	number	**vrbcatcodes**	number
tpbcatcodes	number	**write**	function
tprint	function		

texconfig (basic tex)

error_line	number	**max_print_line**	number
expand_depth	number	**max_strings**	number
formatname	string	**nest_size**	number
half_error_line	number	**param_size**	number
hash_extra	number	**save_size**	number
init	function	**shell_escape**	string
kpse_init	boolean	**stack_size**	number
max_in_open	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
collectors table
   T data
   F defaultwords
   F dowithwords
   F flush
   F handle
   F install
   F register
   T registered
   T remapper
    F convert
    T data
    F store
   F show

   T show_methods
    F a
    F b
    F c
   F showtoken
   F test
   F trace
egroup   table
hbox   table
letter   function
letters   function
other   function
vbox   table
vtop   table

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 define
    F handler
    D mapping
    T methods
    T numbers
    F set
    F setreplacement
cases table
    T actions
    F handler
    F register
    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
fast_hpack function
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 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 next_row
F create	F reflow_height
F flush	F reflow_width
F initialize_construct	F set_construct
F initialize_reflow_height	F set_reflow_height
F initialize_reflow_width	F set_reflow_width

unicode (extra lua)

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

url (context)

addscheme	function		**hasscheme**	function
construct	function		**query**	function
filename	function		**split**	function
hashed	function			

utilities (context)

debugger	table
F disable	
F enable	
F savestats	
F showstats	
formatters	table
F formatcolumns	
F list	
F stripzeros	
garbagecollector	table
F check	
N criterium	
B enabled	
lua	table
F compile	
packers	table
F hashed	
F new	
F pack	
F simplehashed	
F strip	
F unpack	
N version	
parsers	table
F add_settings_to_array	
F arguments_to_table	
F array_to_string	
F getparameters	
F hash_to_string	
F listitem	
F make_settings_to_hash_pattern	
T patterns	
U settings_to_array	
U settings_to_hash_a	
U settings_to_hash_b	
U settings_to_hash_c	
F settings_to_array	
F settings_to_hash	
F settings_to_hash_strict	
F settings_to_hash_tolerant	
F settings_to_set	
F simple_hash_to_string	

F splitthousands	
report	function
sequencers	table
F appendaction	
F appendgroup	
F compile	
F disableaction	
F disablegroup	
F enableaction	
F enablegroup	
D functions	
F localize	
F new	
F nodeprocessor	
F prependaction	
F prependgroup	
F removeaction	
F setkind	
F tostring	
setters	table
F disable	
F enable	
F initialize	
F list	
F new	
F register	
F reset	
F show	
stacker	table
F new	
storage	table
F allocate	
F checked	
F mark	
F marked	
F setinitializer	
F sparse	
strings	table
F collapsecrlf	
F newrepeater	
F nice	
F striplong	

F tabtospace

tables   table

    F accesstable

    F definetable

    F encapsulate

F insertaftervalue

F insertbeforevalue

F migratetable

F removevalue

vf (context)

char	function	**pop**	function
down	function	**push**	function
fontid	function	**right**	function
image	function	**rule**	function
node	function	**special**	function
nop	function		

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

F concat		F tags	
F concatrange		F text	
F context		F texts	
F count		F upperall	
F ctxtext		**first**	function
F default		**found**	function
F first		**functions**	table
F function		**getbuffer**	function
F index		**gethandlers**	function
F last		**gethandlersfunction**	function
F lettered		**include**	function
F lower		**index**	function
F lowerall		**inheritedconvert**	function
F match		**inject**	function
F name		~~**inject_element**~~	~~function~~
F position		~~**inject_element_after**~~	~~function~~
F reverse		~~**inject_element_before**~~	~~function~~
F stripped		**injectafter**	function
F tag		**injectbefore**	function
F tags		**insert**	function
F text		**insert_element**	function
F upper		~~**insert_element_after**~~	~~function~~
F upperall		~~**insert_element_before**~~	~~function~~
T xml		**insertafter**	function
F all		**insertbefore**	function
F att		**insertcomment**	function
F attribute		**inspect**	function
F attributes		**is_valid**	function
F cdata		**kind**	function
F chainattribute		**last**	function
F count		**load**	function
F default		**lpath**	function
F elements		**lpathcached**	function
F empty		**lpathcalls**	function
F first		**lshow**	function
F function		**makestandalone**	function
F index		**match**	function
F last		**name**	function
F lowerall		**newhandlers**	function
F match		**nodesettostring**	function
F name		**originalload**	function
F position		**package**	function
F reverse		**parent**	function
F table		**parsedentitylpeg**	userdata
F tag		**pihandlers**	table

placeholders	table	**serialize**	function
F unknown_any_entity		**setcdata**	function
F unknown_dec_entity		**sethandlersfunction**	function
F unknown_hex_entity		**setproperty**	function
position	function	**settings**	function
privatecodes	table	**specialhandler**	table
privatetoken	function	**sprint**	function
process	function	**string**	function
~~**process_attributes**~~	~~function~~	**strip**	function
~~**process_elements**~~	~~function~~	~~**strip_whitespace**~~	~~function~~
processattributes	function	**stripelement**	function
profiled	table	**stripleadingspaces**	function
raw	function	**table**	function
registerentity	function	**text**	function
registerns	function	**textonly**	function
~~**remap_name**~~	~~function~~	**texttocdata**	function
~~**remap_namespace**~~	~~function~~	**tocdata**	function
~~**remap_tag**~~	~~function~~	**toelement**	function
remapname	function	**tostring**	function
remapnamespace	function	**toxml**	function
remaptag	function	**tprint**	function
renamespace	function	**traverse**	function
replace	function	**unescaped**	function
replace_element	function	**unprivatized**	function
resolvens	function	**withelement**	function
root	function	**withelements**	function
save	function	**wrap**	function
selection	function	**xmlns**	table
separate	function		

zip (extra lua)

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

zlib (extra lua)

adler32	function	**decompress**	function
compress	function	**decompressobj**	function
compressobj	function	**version**	function
crc32	function		