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

ConTEXt MkIV

global (alias: _G)

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

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

attributes (context)

colorintents	table
N	attribute
D	data
F	enable
F	handler
F	register
D	registered
colors	table
N	attribute
F	cmyk
F	cmyktogray
F	cmyktorgb
F	colorcomponents
B	couple
D	data
N	default
F	defineintermediatecolor
F	definemixcolor
F	definemultitonecolor
F	defineprocesscolor
F	definesimplegray
F	definespotcolor
F	definetransparency
F	enable
F	filter
F	forcedmodel
F	forcesupport
F	formatcolor
F	formatgray
F	gray
F	graytohsv
F	handler
F	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
ofnode	function
private	function
states	table
F	disabletriggering
F	enabletriggering
F	finalize
F	initialize
F	process
F	selective
F	stacked
transparencies	table
N	attribute
D	data
F	enable
F	forcesupport
F	handler
U	none

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

backends (context)

codeinjections   table
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 addtransparencygroup
        F attachmentid
        F clonefield
        F definefield
        F definefieldset
        F defineviewerlayer
        F embedfile
        F enabletags
        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
        F startlayer
        F stoplayer
        F switchlayer
        F transparency
        F typesetfield
    T registrations
        F cmykindexcolor
        F cmykspotcolor
        F getspotcolorreference
        F grayindexcolor
        F grayspotcolor
        F rgbindexcolor
        F rgbspotcolor
        F spotcolorname
        F transparency
    T tables
        T vfspecials
          T black
          T blue

```
T gray                          T palegray
T green                         T palegreen
T red                           T palered
T rulecolors                    T red
  T black                   F startslant
  T blue                    T stopslant
  T gray              registrations   table
  T green             tables          table
  T paleblue
```

bibtex (context)

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

blobs (context)

append	function		**new**	function
dimensions	function		**pack**	function
dispose	function		**write**	function

boolean (context)

tocontext   function
tonumber   function

buffers (context)

append	function	F	define
assign	function	F	hassomecontent
collectcontent	function	F	next
erase	function	F	place
exists	function	F	reset
getcontent	function	F	save
getlines	function	**raw**	function
parallel	table		

builders (context)

kernel   table
- F hyphenation
- F kerning
- F ligaturing
- F mlist_to_hlist

paragraphs   table
- T constructors
  - N attribute
  - F disable
  - F enable
  - F handler
  - T methods
    - F default
    - F oneline
  - D names
  - D numbers
  - F register
  - F set
- F keeptogether
- F registertogether
- T solutions
  - T splitters
    - F define

- F disable
- F enable
- F optimize
- F setup
- F split
- F tag

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

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
list   function
register overloaded 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
numbers	data table
register	function

characters (context)

activeoffset	number	**is_mark**	data table
adobename	function	**is_spacing**	data table
bidi	data table	**lcchars**	data table
blocks	data table	**lccode**	function
casemap	table	**lccodes**	data table
categories	data table	**lettered**	function
category	function	**lower**	function
categorytags	data table	**makeactive**	function
combined	data table	**math**	table
contextname	function	**mathpairs**	data table
data	data table	**ranges**	data table
decomposed	data table	**registerentities**	function
define	function	**remap_hangul_syllabe**	function
description	function	**remapentity**	function
descriptions	data table	**setcodes**	function
directions	data table	**shape**	function
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	clonefield	function
Character	function	collectfloat	function
Characters	function	collecthelp	function
MPd	function	colorcomponents	function
MPh	function	consultfloat	function
MPll	function	copyfiletolog	function
MPlr	function	copyposition	function
MPp	function	counttwopassdata	function
MPplus	function	currentcomponent	function
MPpos	function	currentdate	function
MPrest	function	currentenvironment	function
MPul	function	currentproduct	function
MPur	function	currentproject	function
MPw	function	currentregime	function
MPx	function	dayname	function
MPxy	function	defineattribute	function
MPy	function	definebibtexsession	function
Romannumerals	function	definebreakpoint	function
abjadnodotnumerals	function	definebreakpoints	function
abjadnumerals	function	definecharacterspacing	function
addff	function	defineconversion	function
addfs	function	definedviewerlayer	function
addlinklistelement	function	definefield	function
addstructurecounter	function	definefieldset	function
addtojavascriptpreamble	function	definefilefallback	function
addtolist	function	definefilesynonym	function
allinputpaths	function	definefont_one	function
alphabetic	function	definefont_two	function
analysefloatmethod	function	definefontfeature	function
analyzelist	function	defineintermediatecolor	function
applytochars	function	definelinkedlist	function
applytowords	function	definemarking	function
assignbuffer	function	definemultitonecolor	function
autofinishstructurelevels	function	defineparallel	function
autonextspace	function	defineprocesscolor	function
autonextstructurelevel	function	definespotcolor	function
autosetups	function	definestructureblock	function
autostarttext	function	definestructurecounter	function
autostoptext	function	definestructureset	function
boolcase	function	definetransparency	function
character	function	definetwopasslist	function
characters	function	defineviewerlayer	function
checkcharactersinfont	function	defrostrandomseed	function
checkedconversion	function	digits	function
checkedpagefloat	function	disableregime	function
checkstructurecountersetup	function	disablespellchecking	function
checktwopassdata	function	doanalyzeframedbox	function
chineseallnumerals	function	doif	function
chinesecapnumerals	function	doifblackelse	function
chinesenumerals	function	doifcommonelse	function
cleanfontname	function	doifdimenstringelse	function

doifdrawingblackelse	function	finalizebox	function
doifelse	function	findtwopassdata	function
doifelsebuffer	function	firstinset	function
doifelsecurrentfonthasfeature	function	firststructurecounter	function
doifelseintwopassdata	function	flushfloat	function
doifelsemarking	function	flushpostponedblocks	function
doifelseparallel	function	fontchar	function
doifelsesavedfloat	function	fontcollectionclone	function
doifelsespaces	function	fontcollectiondefine	function
doifelsestructurecounter	function	fontcollectionprepare	function
doifelsevisualizer	function	fontcollectionregister	function
doiffieldcategoryelse	function	fontcollectionreport	function
doiffieldelse	function	fontcollectionreset	function
doiffieldsetelse	function	fontlookupgetkey	function
doiffiledefinedelse	function	fontlookupgetkeyofindex	function
doiffileexistelse	function	fontlookupinitialize	function
doiffirstcharelse	function	fontlookupnoffound	function
doifinputfileelse	function	forceendjob	function
doifinsetelse	function	forcequitjob	function
doifleapyearelse	function	format	function
doiflisthasnumberelse	function	formatcolor	function
doiflisthaspageelse	function	formatgray	function
doiflocfileelse	function	freezerandomseed	function
doifnot	function	getbuffer	function
doifnotstructurecounter	function	getbufferctxlua	function
doifolderversionelse	function	getbuffermkvi	function
doifoverlappingelse	function	getdefaultfieldvalue	function
doifparentfileelse	function	getfieldcategory	function
doifpositionelse	function	getfirstcharacter	function
doifpositionsonsamepageelse	function	getfirsttwopassdata	function
doifpositionsonthispageelse	function	getfloatvariable	function
doifstructurecounter	function	getlasttwopassdata	function
doifurldefinedelse	function	getmarking	function
doprocesstypescriptfile	function	getprivateattribute	function
doreshapeframedbox	function	getprivatechar	function
dostarttextfile	function	getrandomcounta	function
dostoptextfile	function	getrandomcountb	function
elapsedtime	function	getrandomseed	function
enablecolor	function	getreadfilename	function
enablecolorintents	function	gettexbuffer	function
enablefontcolorschemes	function	gettwopassdata	function
enableregime	function	gettwopassdatalist	function
enablespellchecking	function	geturl	function
enabletransparency	function	grabbuffer	function
enhancelinkedlist	function	helpaction	function
enhancelist	function	helpreference	function
erasebuffer	function	hexstringtonumber	function
featureattribute	function	hour	function
featurelist	function	hyphenatedlist	function
feedback	function	hyphenatedurl	function
fetchallmarks	function	D characters	
fetchonemark	function	N lefthyphenmin	
fetchtwomarks	function	D mapping	
filterreference	function	N righthyphenmin	

incrementedstructurecounter	function	popfloat	function
insertattachment	function	popitaliccorrection	function
insertcomment	function	poplist	function
insertfield	function	prepareMPvariable	function
insertrenderingwindow	function	preparebibtexsession	function
insertsoundclip	function	preparedfile	function
isleapyear	function	presetsymbollist	function
languagenumber	function	presettabulate	function
laststructurecounter	function	prevstructurecounter	function
lchexnumber	function	processbuffer	function
lchexnumbers	function	processedfile	function
leapyear	function	processedfiles	function
listlabel	function	processfile	function
listlocation	function	processfilemany	function
listprefixednumber	function	processfilenone	function
listprefixedpage	function	processfileonce	function
listrealpage	function	processlist	function
listsize	function	pushfloat	function
listtitle	function	pushitaliccorrection	function
listuserdata	function	pushlist	function
loadctxpreplist	function	rawcharacter	function
loadexamodes	function	rawdate	function
loadfontgoodies	function	referencepagestate	function
loadspellchecklist	function	referencerealpage	function
loadtypescriptfile	function	registerattachment	function
loadvisualizer	function	registerbibtexentry	function
locatefilepath	function	registerbibtexfile	function
locfilename	function	registerbookmark	function
maxitemwidth	function	registerbuttons	function
minute	function	registercolor	function
molecule	function	registercolorintent	function
month	function	registeredviewerlayer	function
monthmnem	function	registerhelp	function
monthname	function	registeritemgroup	function
mpcolor	function	registermaintextcolor	function
mpoptions	function	registernamespace	function
namedstructureuservariable	function	registerpostponedblock	function
namedstructurevariable	function	registersoundclip	function
nbfs	function	registerstructureprocessor	function
nextparallel	function	registertransparency	function
nextstructurecounter	function	registerunit	function
nofdays	function	relatemarking	function
nofitems	function	removemissingcharacters	function
nofstackedfloats	function	replacemissingcharacters	function
ntimes	function	replacepospxywhd	function
number	function	resavefloat	function
octnumber	function	resetfontfeature	function
octstringtonumber	function	resetmarking	function
ordinal	function	resetmathitalics	function
overloadbookmark	function	resetnullfont	function
pdfrotation	function	resetparallel	function
percentageof	function	resetstructurecounter	function
placeparallel	function	resetstructureprocessor	function
		resettimer	function

restartstructurecounter	function	settagtablecell	function
restorecurrentattributes	function	settagtabulatecell	function
restorestructurecounter	function	setupbookmarks	function
romannumerals	function	setupcanvas	function
runbuffer	function	setupcharacterspacing	function
savebuffer	function	setupexport	function
savecurrentattributes	function	setupfontexpansion	function
savefloat	function	setupfontprotrusion	function
saveparallel	function	setupidentity	function
savestructureblock	function	setupitaliccorrection	function
savestructurecounter	function	setxmpfile	function
savetaggedtwopassdata	function	showchardata	function
savetwopassdata	function	showfontparameters	function
second	function	showhyphenatedinlist	function
selectstructureblock	function	showstructurecounter	function
setbreakpoints	function	splitfilename	function
setcharactercasing	function	spotcolorname	function
setcharactercleaning	function	spotcolorparent	function
setcharacterkerning	function	spotcolorvalue	function
setcharacterspacing	function	startcolorset	function
setcharacterstripping	function	startcomponent	function
setclosedocumentaction	function	startenvironment	function
setclosepageaction	function	startproduct	function
setcolormodel	function	startproject	function
setdigitsmanipulation	function	startregime	function
setfontfeature	function	starttag	function
setfontofid	function	starttext	function
setformat	function	startviewerlayer	function
setformsmethod	function	stopcolorset	function
setmarking	function	stopcomponent	function
setmathalphabet	function	stopenvironment	function
setmathalternate	function	stopproduct	function
setmathattribute	function	stopproject	function
setmathitalics	function	stopregime	function
setmathstyle	function	stoptag	function
setopendocumentaction	function	stoptext	function
setopenpageaction	function	stopviewerlayer	function
setownstructurecounter	function	storejavascriptcode	function
setpagetransition	function	storejavascriptpreamble	function
setrandomseed	function	structureautocatcodedget	function
setrealign	function	structurecatcodedget	function
setreferencearguments	function	structurecountersubs	function
setreferenceoperation	function	structurecountervalue	function
setstructureblockstate	function	structuregivencatcodedget	function
setstructurecounter	function	structurenumber	function
settagcombination	function	structuretitle	function
settagdescription	function	structureuservariable	function
settagdescriptionsymbol	function	structurevariable	function
settagfigure	function	subff	function
settaghighlight	function	subfs	function
settagitemgroup	function	synchronizemarking	function
settagproperty	function	taggedmathfunction	function
settagsorting	function	testcase	function
settagsynonym	function	textime	function

transparencycomponents	function	usetexfile	function
triggereffect	function	useurl	function
triggernegative	function	usexmlfile	function
truefilename	function	usezipfile	function
typebuffer	function	utfchar	function
typefile	function	vspacing	function
typestring	function	vspacingcollapse	function
uchexnumber	function	vspacingdefine	function
uchexnumbers	function	vspacingsetamount	function
unicodechar	function	vspacingsnap	function
unit	function	weekday	function
updatefilenames	function	weekdayname	function
useMPlibrary	function	widthofstring	function
useanyfile	function	writestatus	function
usecldfile	function	x_table_cleanup	function
usecolors	function	x_table_construct	function
usecomponent	function	x_table_create	function
useenvironment	function	x_table_flush	function
usefile	function	x_table_init_construct	function
usejavascriptpreamble	function	x_table_init_reflow_height	function
usejavascriptscripts	function	x_table_init_reflow_width	function
uselibrary	function	x_table_next_row	function
useluafile	function	x_table_reflow_height	function
usemodules	function	x_table_reflow_width	function
usepath	function	x_table_set_construct	function
useproduct	function	x_table_set_reflow_height	function
useproject	function	x_table_set_reflow_width	function
usesubpath	function	year	function
usesymbols	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

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			

dir (context)

directives (context)

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

document (context)

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

environment (context)

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

epdf (extra tex)

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

experiments (context)

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

figures (context)

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

file (basic lua)

addsuffix	function	joinpath	function
basename	function	loadchecksum	function
checksum	function	nameonly	function
collapsepath	function	nametotable	function
copy	function	needs_updating	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

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 applymanipulators
     F assignmathparameters
     B autocleanup
     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
         S extra_space
         S extraspace
         S slant
         S space
         S space_shrink
         S space_stretch
         S spaceshrink
         S spacestretch
         S x_height
       S units
       S vfactor
       S xheight
     T properties
       S autoitalicamount
       T cidinfo
       S embedding
       S encodingbytes
       S filename
       S finalized

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

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

gzip (extra lua)

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

job (context)

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

positions   table
- D collected
- F copy
- F depth
- F extra
- F height
- F lowerleft
- F lowerright
- F onsamepage
- F overlapping
- F page
- F position
- F replace
- F setall
- F setdim
- F setraw
- D tobesaved
- F upperleft
- F upperright
- F v
- F width
- F x
- F xy
- F y

register   function
save   function
structure   table
- D collected
- T tobesaved
  - T branches
  - S name
  - S type

variables   table
- D checksums
- D collected
- F save
- D tobesaved

version   number

lang (basic tex)

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		

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

layouts (context)

status   table
    F isleftpage
    F leftorrightpagection

lfs (extra lua)

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

lpeg (basic lua)

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

ltn12 (extra lua)

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

md5 (extra lua)

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

metapost (context)

analyzeplugins	function		**makempy**	table
checkformat	function		N nofconverted	
checktexts	function		F processgraphics	
colorinitializer	function		**metafun**	table
convert	function		F interpolate	
defaultformat	string		F topath	
directrun	function		**method**	number
edefsxsy	function		**mptopdf**	table
escaped	function		F convertmpstopdf	
exectime	table		N nofconverted	
filterclippath	function		**multipass**	boolean
finder	function		**n**	number
flush	function		**optimize**	boolean
flushers	table		**parse**	function
T pdf			**pdfliterals**	function
F comment			**pluginactions**	function
F flushfigure			**process**	function
F startfigure			**processplugins**	function
F stopfigure			**reducetogray**	boolean
F textfigure			**reporterror**	function
flushliteral	function		**reset**	function
flushnormalpath	function		**resetlastlog**	function
flushreset	function		**resetplugins**	function
format	function		**resettextexts**	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		**qp**	function
decode	function		**qpwrp**	function
decodet	table		**stuff**	function
F base64			**unb64**	function
F quoted-printable			**unqp**	function
dot	function		**wrap**	function
encode	function		**wrapt**	table
encodet	table		F base64	
F base64			F default	
F quoted-printable			F quoted-printable	
eol	function		F text	
normalize	function		**wrp**	function

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

F	pdfdirect	
F	pdfliteral	
F	pdfrestore	
F	pdfsave	
F	pdfsetmatrix	
F	penalty	
F	register	
F	rightmarginkern	
F	rightskip	
F	rule	
F	shrink	
F	special	
F	stretch	
F	temp	
F	textdir	
F	usage	
T	userids	
N	margins.inline	
N	splitters.one	
N	splitters.two	
F	userlist	
F	usernumber	
F	userstring	
F	usertokens	
F	zeroglue	
print		function
processors		table
B	enabled	
F	hpack_filter	
F	post_linebreak_filter	
F	pre_linebreak_filter	
F	tracer	
processwords		function
reference		function
references		table
N	attribute	
T	done	
F	handler	
T	stack	
remove		function
repackhlist		function
replace		function
report		function
rightmarginwidth		function
rules		table
D	data	
F	define	
F	enable	
F	handler	
save		function
serialize		function
serializebox		function
setattribute		function
setattributes		function

setunsetattributes		function
shifts		table
D	data	
F	define	
F	enable	
F	handler	
show		function
showboxes		function
showcodes		function
showlist		function
showsimplelist		function
skipcodes		data table
somepenalty		function
somespace		function
stripping		table
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	fontchar	
F	start	

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

number (context)

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

os (basic lua)

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

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

units   table

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

resolvers (context)

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

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

scripts (context)

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

set (context)

contains	function		**tonumber**	function
create	function		**totable**	function
tolist	function			

socket (extra lua)

BLOCKSIZE   number
_DEBUG   boolean
bind   function
choose   function
connect   function
dns   table
    F gethostname
    F tohostname
    F toip
ftp   table
    S PASSWORD
    N PORT
    N TIMEOUT
    S USER
    F command
    F get
    F open
    F put
gettime   function
http   table
    N PORT
    N TIMEOUT
    S USERAGENT
    F open
    F request
newtry   function
protect   function
select   function
sink   function
sinkt   table
    F close-when-done
    F default
    F http-chunked

    F keep-open
skip   function
sleep   function
smtp   table
    S DOMAIN
    N PORT
    S SERVER
    N TIMEOUT
    S ZONE
    F message
    F open
    F send
source   function
sourcet   table
    F by-length
    F default
    F http-chunked
    F until-closed
tcp   function
tp   table
    N TIMEOUT
    F connect
try   function
udp   function
url   table
    F absolute
    F build
    F build_path
    F escape
    F parse
    F parse_path
    F unescape

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		

list function

storage (context)

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

streams (context)

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

string (basic lua)

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

string (basic lua)

structures (context)

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

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

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

  F section
  F userpage
D tobereferred
D tobesaved
T urls
  T data
  F define
  F get
F whatfrom

registers   table
F analyze
F analyzed
D collected
F compare
F define
F enhance
F extend
F filter
F filtercollected
F finalize
F flush
F prepare
F process
F sort
F store
D tobesaved
F unique
F userdata

sections   table
F autodepth
F cct
T collected
F current
F currentblock
F currentid
F currentlevel
F defineautolevels
F depthnumber
F finddata
F findnumber
F fullnumber
F getcurrentlevel
F getlevel
F getnumber
F internalreference
D levelmap
D levels
F load
F matchingtilldepth
F numberatdepth
F numbers
F popblock
F prefixedconverted
F pushblock

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

table (basic lua)

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

tex (basic tex)

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

token (basic tex)

command_id	function
command_name	function
create	function
csname_id	function
csname_name	function

get_next	function
is_activechar	function
is_expandable	function
is_protected	function
lookup	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 set
characters   table
    F handler
cleaners   table
    F handler
    F set
digits   table
    T actions
    N attribute
    F handler
    F set
directions   table
    F handler
    F process
    F set
hpack   function
italics   table
    F forcevariant
    F handler
    F reset
    F set
kerns   table
    D factors
    F handler
    B keepligature
    B keeptogether
    D mapping
    F set
margins   table
    F finalhandler
    F globalhandler
    F ha

    F localhandler
    F save
paragraphs   table
    N attribute
    T droppers
      F freeze
      F set
    F handler
    F set
processors   table
    F apply
    F register
    F reset
    F split
    F startapply
    F stopapply
    F stripped
    F tostring
spacings   table
    N attribute
    F define
    F handler
    D mapping
    T numbers
      T frenchpunctuation
        T characters
        S name
        N number
    F reset
    F set
    F setup
tonodes   function
vpack   function
xtables   table
    F cleanup
    F construct
    F create
    F flush
    F initialize_construct
    F initialize_reflow_height
    F initialize_reflow_width
    F next_row
    F reflow_height
    F reflow_width
    F set_construct
    F set_reflow_height
    F set_reflow_width

unicode (extra lua)

ascii	table	F 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

report   function

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

setters   table
- F disable
- F enable
- F initialize
- F list
- F new
- F register
- F reset
- F show

storage   table
- F allocate
- F checked
- F mark
- F marked
- F setinitializer
- F sparse

strings   table
- F collapsecrlf
- F newrepeater
- F nice
- F striplong
- F tabtospace

tables   table
- F accesstable
- F definetable
- F encapsulate
- F insertaftervalue
- F insertbeforevalue
- F migratetable
- F removevalue

visualizers (context)

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

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

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

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

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			

zlib (extra lua)

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