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

attributes (context)

colorintents   table
- N attribute
- D data
- F enable
- F handler
- F register
- D registered

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

- F spotcolorname
- F spotcolorparent
- F spotcolorvalue
- B supported
- F transparencycomponents
- B triggering
- F usecolors
- F value
- D values
- B weightgray

define   function

effects   table
- N attribute
- D data
- F enable
- F handler
- F register
- D registered
- D values

handlers   table

list   data table

names   data table

negatives   table
- N attribute
- D data
- F enable
- F handler
- F register
- D registered

numbers   data table

ofnode   function

private   function

states   table
- F disabletriggering
- F enabletriggering
- F finalize
- F initialize
- F process
- F selective
- F stacked

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

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

backends (context)

codeinjections	table	F	setxmpfile
current	string	F	startlayer
defaults	table	F	stoplayer
T codeinjections		F	supportedformats
T nodeinjections		F	useviewerlayer
T registrations		F	validfield
D tables		F	validfieldcategory
install	function	F	validfieldset
nodeinjections	table	S	comment
nothing	function	T	nodeinjections
pdf	table	F	addtags

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

registrations   table

tables   table

bibtex (context)

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

blobs (context)

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

boolean (context)

tocontext   function
tonumber   function

buffers (context)

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

builders (context)

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

paragraphs table
- T constructors
  - N attribute
  - F disable
  - F enable
  - F handler
  - T methods
    - F default
    - F oneline
  - D names
  - D numbers
  - F register
  - F set
- T solutions
  - T splitters
    - F define
    - F disable
    - F enable
    - F optimize
    - F setup
    - F split
  - F tag

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

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_letter**	data table
adobename	function	**is_mark**	data table
bidi	data table	**is_spacing**	data table
blocks	data table	**lcchars**	data table
casemap	table	**lccode**	function
categories	data table	**lccodes**	data table
category	function	**lettered**	function
categorytags	data table	**lower**	function
combined	data table	**makeactive**	function
contextname	function	**math**	table
data	data table	**mathpairs**	data table
decomposed	data table	**ranges**	data table
define	function	**registerentities**	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	**subscripts**	table
fromnumber	function	**superscripts**	table
fschars	data table	**synonyms**	data table
fscodes	data table	**tex**	table
getrange	function	D accentmapping	
graphemes	data table	F defineaccents	
hangul	table	F toutf	
F decomposed		**tonumber**	function
F description		**ucchars**	data table
F leadconsonant		**uccode**	function
T remapped		**uccodes**	data table
initialize	function	**unicodechar**	function
is_character	data table	**upper**	function
is_command	data table		

chemicals (context)

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

commands (context)

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

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

month	function	resetfontfeature	function
monthmnem	function	resetmarking	function
monthname	function	resetnullfont	function
mpcolor	function	resetparallel	function
mpoptions	function	resetstructurecounter	function
nbfs	function	resetstructureprocessor	function
nextparallel	function	resettimer	function
nextstructurecounter	function	restartstructurecounter	function
nofdays	function	restorestructurecounter	function
nofitems	function	romannumerals	function
nofstackedfloats	function	runbuffer	function
number	function	savebuffer	function
octnumber	function	savefloat	function
octstringtonumber	function	saveparallel	function
ordinal	function	savestructureblock	function
overloadbookmark	function	savestructurecounter	function
percentageof	function	savetaggedtwopassdata	function
placeparallel	function	savetwopassdata	function
popfloat	function	second	function
prepareMPvariable	function	selectstructureblock	function
preparebibtexsession	function	setclosedocumentaction	function
preparedfile	function	setclosepageaction	function
preparefontcollection	function	setcolormodel	function
presetsymbollist	function	setfontfeature	function
presettabulate	function	setformat	function
prevstructurecounter	function	setformsmethod	function
processbuffer	function	setmarking	function
processedfile	function	setmathalphabet	function
processedfiles	function	setmathalternate	function
processfile	function	setmathattribute	function
processfilemany	function	setmathstyle	function
processfilenone	function	setopendocumentaction	function
processfileonce	function	setopenpageaction	function
pushfloat	function	setownstructurecounter	function
rawcharacter	function	setpagetransition	function
referencepagestate	function	setrandomseed	function
registerattachment	function	setrastercolor	function
registerbibtexentry	function	setrealign	function
registerbibtexfile	function	setreferencearguments	function
registerbookmark	function	setreferenceoperation	function
registerbuttons	function	setstructureblockstate	function
registercolor	function	setstructurecounter	function
registercolorintent	function	settagcombination	function
registerhelp	function	settagdescription	function
registeritemgroup	function	settagdescriptionsymbol	function
registermaintextcolor	function	settagfigure	function
registersoundclip	function	settaghighlight	function
registerstructureprocessor	function	settagitemgroup	function
registertransparency	function	settagproperty	function
relatemarking	function	settagsorting	function
removemissingcharacters	function	settagsynonym	function
replacepospxywhd	function	settagtablecell	function
resavefloat	function	settagtabulatecell	function
resetfontcollection	function	setupbookmarks	function

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

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

environment (context)

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

epdf (extra tex)

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

experiments (context)

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

figures (context)

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

font (basic tex)

fontloader (extra tex)

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

fontloader (extra tex)

fonts (context)

analyzers   table
    D initializers
    D methods
    F setstate
    B useunicodemarks
checkers   table
    F missing
cid   table
    F getmap
    F loadfile
collections   table
    F clone_one
    F clone_two
    F define
    T definitions
    F message
    F prepare
    F process
    F reset
    T vectors
constructors   table
    F applymanipulators
    F assignmathparameters
    B autocleanup
    D cache
    F calculatescale
    F checkedfeatures
    F checkedfilename
    F cleanuptable
    F collectprocessors
    D designsizes
    D dontembed
    N factor
    F finalize
    F getfeatureaction
    F hashfeatures
    F hashinstance
    T hashmethods
      F normal
      F virtual
    F initializefeatures
    D loadedfonts
    T mathactions
    S namemode
    F newfeatures
    N privateoffset
    F readanddefine
    F registerfeature
    B resolvevirtualtoo
    F scale
    F scaled

    F setfactor
    F setname
    N version
current   function
currentid   function
definers   table
    F addlookup
    F analyze
    F applypostprocessors
    F current
    S defaultlookup
    F define
    F getspecification
    F loadfont
    F makespecification
    T methods
      F install
      D variants
    F read
    F register
    F registered
    F registersplit
    F resetnullfont
    F resolve
    T resolvers
      F file
      F name
      F spec
definetypeface   function
encodings   table
    T agl
    D cache
    F is_known
    D known
    F load
    F make_unicode_vector
    D math
    N version
expansions   data table
formats   data table
goodies   table
    T colorschemes
      F coloring
      T data
      F enable
    F getcompositions
    T list
      F compositions
      F expansions
      F featureset
      F files

```
      F mathematics
      F protrusions
      F solutions
      F typefaces
    F load
    F prepare_features
    F register
    F report
handlers        table
    T afm
      B addkerns
      B addligatures
      B addtexligatures
      B autoprefixed
      D cache
      D features
      F load
      F setfeatures
      B syncspace
      N version
    T otf
      F addfeature
      D cache
      T chainhandlers
        F normal
        F verbose
      F collectlookups
      F dataset
      D enhancers
      D features
      F getalternate
      T glists
      F load
      F scriptandlanguage
      F setcontextchain
      F setdynamics
      F setfeatures
      T tables
        D baselines
        D features
        D languages
        D scripts
      N version
    T pfb
    T tfm
      D features
      F setfeatures
    T vf
      T combinations
      F combine
      T combiner
        D commands
      F find
      D helpers

      D math
      D predefined
      D whatever
hashes          table
    D characters
    D csnames
    T dynamics
    D identifiers
    D marks
    D parameters
    T processes
    D quads
    T setdynamics
    D xheights
helpers         table
    F dimenfactor
    F getdigitwidth
    F getparameters
    F nametoslot
    F setdigitwidth
iterators       table
    F characters
    F descriptions
    F glyphs
loggers         table
    F format
    F onetimemessage
    F register
    F reportdefinedfonts
    F reportusedfeatures
mappings        table
    F addtounicode
    F loadfile
    F loadline
    F loadlumtable
    F makenameparser
    F reset
    F tounicode16
    F tounicode16sequence
names           table
    S basename
    B be_clever
    D cache
    F cleanfilename
    F cleanname
    F collect
    F collectfiles
    F collectspec
    T data
    B enabled
    F exists
    T filters
      F afm
      F dfont
```

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

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

io (basic lua)

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

job (context)

comment	function
files	table

    D collected
    F context
    B forcerun
    F run
    D tobesaved

initialize	function
load	function
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
    D tobesaved
    F upperleft
    F upperright
    F width
    F x
    F xy
    F y

register	function
save	function
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		

languages (context)

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

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	**setformats**	function
categories	function	**setmessenger**	function
direct	function	**setprogram**	function
disable	function	**settarget**	function
enable	function	**settranslations**	function
extendbanner	function	**show**	function
flush	function	**show_close**	function
help	function	**show_load**	function
messenger	function	**show_open**	function
new	function	**simple**	function
newline	function	**simpleline**	function
poptarget	function	**simplelines**	function
pushtarget	function	**start_page_number**	function
report	function	**status**	function
report_job_stat	function	**stop_page_number**	function
reportbanner	function	**subdirect**	function
reporter	function	**subreport**	function
reporters	function	**system**	function
reportline	function	**texerrormessage**	function
reportlines	function	**writer**	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	counter	function
Carg	function	endstripper	function
Cb	function	firstofsplit	function
Cc	function	frontstripper	function
Cf	function	is_lpeg	function
Cg	function	keeper	function
Cmt	function	locale	function
Cp	function	match	function
Cs	function	oneof	function
Ct	function	patterns	data table
P	function	print	function
R	function	replacer	function
S	function	secondofsplit	function
UP	function	span	function
UR	function	split	function
US	function	splitat	function
V	function	splitter	function
anywhere	function	stripper	function
append	function	tsplitat	function
balancer	function	tsplitter	function
checkedsplit	function	type	function
count	function	version	function

ltn12 (extra lua)

BLOCKSIZE number
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		load	function
all	function		loadbuffer	function
applyfunction	function		loaddata	function
att	function		loaded	table
attribute	function		loadregistered	function
chainattribute	function		main	function
checkindex	function		match	function
collected	function		name	function
command	function		namespace	function
concat	function		nonspace	function
concatrange	function		pos	function
content	function		position	function
context	function		raw	function
convert	function		rawroot	function
count	function		register	function
delete	function		registerentity	function
direct	function		removesetup	function
directives	table		resetcdata	function
F after			resetsetups	function
F before			resolvedentity	function
F handle			root	function
F load			serialize	function
F setup			setaction	function
displayverbatim	function		setcdata	function
doif	function		setcommandtonone	function
doifelse	function		setcommandtotext	function
doifelsetext	function		setsetup	function
doifnot	function		snippet	function
doifnottext	function		sorters	table
doiftext	function		F add	
element	function		F compare	
elements	function		F flush	
entities	data table		F reset	
filter	function		F show	
filterlist	function		F sort	
first	function		splitid	function
flush	function		startraw	function
flushsetups	function		stopraw	function
~~get_id~~	~~function~~		store	function
getid	function		strip	function
getindex	function		stripped	function
id	function		tag	function
idsplitter	userdata		text	function
include	function		tofile	function
index	function		toparameters	function
info	function		toverbatim	function
inlineverbatim	function		verbatim	function
installsetup	function		withindex	function
last	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	**makefont**	function
alphabets	data table	**overloadparameters**	function
big	function	**privatebase**	number
boldmap	table	**remapalphabets**	function
categories	table	**renderings**	table
D functions		D mappings	
checkaccentbaseheight	function	D numbers	
checkprivateparameters	function	D sets	
classes	data table	**renderset**	function
codes	data table	**scaleparameters**	function
define	function	**setalternate**	function
dimensions	function	**syncboth**	function
extrabase	number	**syncname**	function
extras	table	**syncstyle**	function
F add		**toname**	function
F copy		**tostyle**	function
families	data table	**utfmathclass**	function
getboth	function	**utfmathcommand**	function
getstyle	function	**utfmathfiller**	function
initializeparameters	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		N nofconverted	
checkformat	function		F processgraphics	
checktexts	function	**metafun**	table	
colorinitializer	function		F interpolate	
convert	function		F topath	
defaultformat	string	**method**	number	
directrun	function	**mptopdf**	table	
edefsxsy	function		F convertmpstopdf	
escaped	function		N nofconverted	
exectime	table	**multipass**	boolean	
filterclippath	function	**n**	number	
finder	function	**optimize**	boolean	
flush	function	**parse**	function	
flushers	table	**pdfliterals**	function	
T pdf		**pluginactions**	function	
F comment		**process**	function	
F flushfigure		**processplugins**	function	
F startfigure		**reducetogray**	boolean	
F stopfigure		**reporterror**	function	
F textfigure		**reset**	function	
flushliteral	function	**resetlastlog**	function	
flushnormalpath	function	**resetplugins**	function	
flushreset	function	**resettexts**	function	
format	function	**setoutercolor**	function	
getclippath	function	**settext**	function	
gettext	function	**showlog**	boolean	
graphic	function	**tex**	table	
graphic_base_pass	function	F get		
graphic_extra_pass	function	F reset		
intermediate	table	F set		
T actions		**texerrors**	boolean	
F makempy		**texttextsdata**	function	
B needed		**theclippath**	function	
lastlog	string	**totable**	function	
load	function	**unload**	function	
makempy	table			

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

F penalty		
F register		
F rightmarginkern		
F rightskip		
F rule		
F shrink		
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	
F enable		
T glyphs		
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 check		
F codes		
F features		
F glyphs		
F message		

F messages	**unsetattribute**	function
F nofsteps	**unsetattributes**	function
F register	**visualizebox**	function
F reset	**whatcodes**	data table
F start	**whatsitcodes**	data table
F stop	**writable_spec**	function
F stop		

number (context)

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

physics (context)

patterns   table

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 savelists	
F register		D setups	
expandbraces	function	D specification	
expandedpathfromlist	function	D variables	
expandedpathlist	function	jobs	table
expandedpathlistfromvariable	function	D processors	
expandpath	function	F usefile	
expandpathfromvariable	function	joinpath	function
expansion	function	load	function
extendtexmfvariable	function	loadbinfile	function
~~find_file~~	~~function~~	loaders	data table
~~find_files~~	~~function~~	loadlualib	function
findbinfile	function	loadtexfile	function
findctxfile	function	loadtime	function
finders	data table	locateformat	function
findfile	function	locators	data table
findfiles	function	luacnfname	string
findgivenfile	function	luacnfspec	string
findgivenfiles	function	luacnfstate	string
findpath	function	macros	table
findtexfile	function	F convertfile	
findwildcardfile	function	F decodecomment	
findwildcardfiles	function	F enablecomment	
formatofsuffix	function	F encodecomment	
formatofvariable	function	F preprocessed	
formats	data table	F processmkvi	
generators	data table	F version	
getenv	function	maxreadlevel	number

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

short_operators (context)

`*` string	`/` string
`.` string	`:` string

short_prefixes (context)

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

short_units (context)

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

socket (extra lua)

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

sorters (context)

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

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		**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

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 reset		
F place			**floats**	table	
F register			**formulas**	table	
F setup			F current		
counters	table		F simplify		
F add			F store		
F analyze			**helpers**	table	
F check			F analyze		
D collected			F formulanumber		
F compact			F merged		
F converted			F page		
F current			F prefix		
D data			F prefixlastpage		
F define			F prefixpage		
F first			F simplify		
F get			F title		
F last			F touserdata		
F next			**itemgroups**	table	
F prev			F maxwidth		
F previous			F nofitems		
F raw			F register		
F record			**lists**	table	
F reset			F analyze		
F restart			D cached		
F restore			D collected		
F save			F doifstoredelse		
F set			F enhance		
F setlevel			T enhancers		
F setoffset			F filter		
F setown			F filtercollected		
F setstate			F formulanumber		
F setvalue			D internals		
F show			F label		
T specials			F location		
F userpage			F number		
F subs			D ordered		
D tobesaved			F page		

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

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

notes   table
F checkpagechange
F define
F deltapage
F doifcontent
F doifonsamepageasprevious
F flush
F flushpostponed
F get
F getn
F getnumberpage
F getstate
F getsymbolpage
F internal
F internalid
F listindex

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

pages   table
F analyze
D collected
F is_odd
F number
F save
D tobesaved

processors   table
F apply
F register
F reset
F split
F startapply
F stopapply
F stripped
F tostring

references   table
F analyze
F checkedfile
F checkedfileorurl
F checkedprogram
F checkedurl
D collected
F currentmetadata
F currentorder
D currentset
F define
D defined
D derived
F doifelse
F enableinteraction
F enhance
D executers
F expandcurrent
F export
D exporters
T files
  T data
  F define
  F get
F filter
D filters
F from

```
F get                              F page
F getcurrentmetadata              F realpage
F getcurrentprefixspec            F section
F getinnermethod                  F userpage
F getinternalreference          D tobereferred
D handlers                       D tobesaved
F identify                       T urls
F import                           T data
D imported                         F define
F inject                           F get
F injectcurrentset               F whatfrom
D internals
F load                       registers            table
F mark                             F analyze
D pages                            F analyzed
T programs                       D collected
  T data                           F compare
  F define                         F define
  F get                            F enhance
F realpageofpage                  F extend
D referred                         F filter
F referredpage                     F filtercollected
F registerfinalizer               F finalize
F registerinitializer             F flush
F registerpage                     F prepare
F reportproblems                   F process
F reset                            F sort
T resolvers                        F store
  F description                   D tobesaved
  F float                          F unique
  F formula                        F userdata
  F note
  F reference                 sections             table
  F section                        F autodepth
D runners                          F cct
F sectionnumber                  T collected
F sectionpage                      F current
F sectiontitle                     F currentblock
F set                              F currentid
F setandgetattribute              F currentlevel
F setinnermethod                   F defineautolevels
F setinternalreference            F depthnumber
F setnextinternal                  F finddata
F setnextorder                     F findnumber
D specials                         F fullnumber
F split                            F getcurrentlevel
T testrunners                      F getlevel
  F inner                          F getnumber
  F special                        F internalreference
  F special operation            D levelmap
  F special operation with arguments  D levels
T testspecials                     F load
  F i                              F matchingtilldepth
  F internal                       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 startautolevel		
F stopautolevel		
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		pdffontname	function
badness	function		pdffontobjnum	function
box	table		pdffontsize	function
catcode	table		pdfpageref	function
conditionals	data table		pdfxformname	function
constants	data table		primitives	function
count	table		print	function
ctxcatcodes	number		printlist	function
definefont	function		prtcatcodes	number
delcode	table		romannumeral	function
dimen	table		round	function
dummycatcodes	number		run	function
enableprimitives	function		scale	function
error	function		scratchcatcodes	number
extraprimitives	function		set	function
finish	function		setattribute	function
fontidentifier	function		setbox	function
fontname	function		setcatcode	function
fprint	function		setcount	function
get	function		setdelcode	function
getattribute	function		setdimen	function
getbox	function		setfalse	function
getcatcode	function		setlccode	function
getcount	function		setlist	function
getdelcode	function		setmath	function
getdimen	function		setmathcode	function
getlccode	function		setnest	function
getlist	function		setsfcode	function
getmath	function		setskip	function
getmathcode	function		settoks	function
getnest	function		settrue	function
getsfcode	function		setuccode	function
getskip	function		sfcode	table
gettoks	function		shipout	function
getuccode	function		skip	table
hashtokens	function		sp	function
ifs	data table		sprint	function
iscount	function		systemmodes	data table
isdimen	function		texcatcodes	number
isskip	function		toks	table
istoken	function		tpacatcodes	number
lccode	table		tpbcatcodes	number
linebreak	function		tprint	function
lists	table		txtcatcodes	number
luacatcodes	number		type	function
mathcode	table		uccode	table
modes	data table		uniformdeviate	function
nest	table		uprint	function
nilcatcodes	number		vrbcatcodes	number
notcatcodes	number		write	function
number	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		

texconfig (basic tex)

error_line	number	**max_print_line**	number
expand_depth	number	**max_strings**	number
formatname	string		

texio (basic tex)

write   function
write_nl function

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

tokens (context)

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

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

trackers (context)

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

typesetters (context)

alignments   table
- F handler
- F set

breakpoints   table
- N attribute
- F enable
- F handler
- D mapping
- T methods
- F set
- F setreplacement

cases   table
- T actions
- F handler
- F set

characters   table
- F handler

cleaners   table
- F handler
- F set

digits   table
- T actions
- N attribute
- F handler
- F set

directions   table
- F handler
- F process
- F set

hpack   function

kerns   table
- D factors
- F handler
- B keepligature
- B keeptogether
- D mapping
- F set

margins   table
- F finalhandler
- F globalhandler
- F localhandler
- F save

spacings   table
- N attribute
- F handler
- D mapping
- F set
- F setup

tonodes   function

vpack   function

unicode (extra lua)

ascii   table

    F byte
    F char
    F dump
    F find
    F format
    F gfind
    F gmatch
    F gsub
    F len
    F lower
    F match
    F rep
    F reverse
    F sub
    F upper

filetype   function

grapheme   table

    F byte
    F char
    F dump
    F find
    F format
    F gfind
    F gmatch
    F gsub
    F len
    F lower
    F match
    F rep
    F reverse
    F sub
    F upper

latin1   table

    F byte
    F char
    F dump
    F find
    F format
    F gfind

    F gmatch
    F gsub
    F len
    F lower
    F match
    F rep
    F reverse
    F sub
    F upper

ustring   function
utf16_to_utf8   function
utf16_to_utf8_be   function
utf16_to_utf8_le   function
utf32_to_utf8   function
utf32_to_utf8_be   function
utf32_to_utf8_le   function
utf8   table

    F byte
    F char
    F dump
    F find
    F format
    F gfind
    F gmatch
    F gsub
    F len
    F lower
    F match
    F rep
    F reverse
    F string
    F sub
    F toentities
    F upper

utf8_to_utf16   function
utf8_to_utf8   function
utfcodes   function
utfname   table
utftype   function
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 striplong
    F tabtospace
tables   table
    F accesstable
    F definetable
    F encapsulate
    F insertaftervalue
    F insertbeforevalue
    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

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

F function	
F index	
F last	
F match	
F name	
F position	
F reverse	
F table	
F tag	
F tags	
F text	
F texts	
first	function
found	function
functions	table
getbuffer	function
gethandlers	function
gethandlersfunction	function
include	function
index	function
inheritedconvert	function
inject	function
~~inject_element~~	~~function~~
~~inject_element_after~~	~~function~~
~~inject_element_before~~	~~function~~
injectafter	function
injectbefore	function
insert	function
insert_element	function
~~insert_element_after~~	~~function~~
~~insert_element_before~~	~~function~~
insertafter	function
insertbefore	function
inspect	function
is_valid	function
last	function
load	function
lpath	function
lpathcached	function
lpathcalls	function
lshow	function
makestandalone	function
match	function
name	function
newhandlers	function
nodesettostring	function
originalload	function
package	function
parent	function
parsedentitylpeg	userdata
pihandlers	table
placeholders	table

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

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		