

attributes backends bibtex bit32 blobs
boolean buffers builders caches callback
callbacks catcodes characters chemistry
commands containers context converters
coroutine ctxrunner debug dir directives
document documentdata environment epdf
experiments figures file floats font
fontloader fonts functions global
graphics gzip img interactions
interfaces io job lang languages layouts
lfs libraries lmx logs lpdf lpeg ltn12
lua luatex lxml math mathematics mbox
md5 metapost mime moduledata modules
mplib noads node nodes number os package
pagebuilders parametersets pdf
pdfscanner physics profiler regimes
resolvers scripts set socket sorters
statistics status storage streams string
structures table tex texconfig texio
thirddata token tokens tracers trackers
typesetters unicode url userdata
utilities vf visualizers xml zip zlib

ConTExT MkIV

global (alias: _G)

_LUAVERSION	number	floats	table
_MAJORVERSION	number	font	table
_MINORVERSION	number	fontloader	table
arg	table	fonts	table
assert	function	frozen	boolean
attributes	table	functions	table
backends	table	getmetatable	function
beginpage	function	getreadfilename	function
bibtex	table	global	table
bit32	table	graphics	table
blobs	table	gzip	table
boolean	table	img	table
buffers	table	inspect	function
builders	table	interactions	table
caches	table	interfaces	table
callback	table	io	table
callbacks	table	ipairs	function
catcodes	table	job	table
characters	table	lang	table
chemistry	table	languages	table
collectgarbage	function	layouts	table
commands	table	lfs	table
containers	table	libraries	table
context	function	lmx	table
converters	table	lmxconvert	function
coroutine	table	lmxnew	function
ctxrunner	table	load	function
debug	table	loadfile	function
dimen	function	loadstring	function
dir	table	logs	table
directives	table	lp_fastpos_n	userdata
document	table	lp_fastpos_p	userdata
documentdata	table	lpdf	table
dofile	function	lpeg	table
endpage	function	ltn12	table
environment	table	lua	table
epdf	table	luatex	table
error	function	lxml	table
experiments	table	math	table
figures	table	mathematics	table
file	table	mbox	table

md5	table	setmetatable	function
metapost	table	socket	table
mime	table	sorters	table
module	function	statistics	table
moduledata	table	status	table
modules	table	storage	table
mplib	table	streams	table
newline	function	string	table
next	function	stripmath	function
noads	table	structures	table
node	table	swiglib	function
nodes	table	table	table
number	table	tex	table
optionalrequire	function	texconfig	table
os	table	texio	table
outputpagetree	function	thirddata	table
package	table	toboollean	function
pagebuilders	table	token	table
pairs	function	tokens	table
parametersets	table	tonumber	function
pcall	function	tostring	function
pdf	table	trace_characters	boolean
pdfscanner	table	traceback	function
physics	table	tracers	table
print	function	trackers	table
process	function	type	function
profiler	table	typesetters	table
protect	function	unicode	table
rawequal	function	unpack	function
rawget	function	url	table
rawlen	function	userdata	table
rawset	function	utf	table
regimes	table	utilities	table
report_characters	function	vf	table
require	function	visualizers	table
resolvers	table	xml	table
scripts	table	xmlconvert	function
select	function	xpcall	function
set	table	zip	table
setinspector	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 hsvtorgay
- F hsvtorgb
- F iccprofile
- F isblack
- N main
- S model
- D models
- F mpcolor
- F mpnamedcolor

- F mpoptions
- U none
- F popset
- F pushset
- F register
- D registered
- F registerspotcolor
- F rgb
- F rgbtocmyk
- F rgbtorgay
- F rgbtohsv
- N selector
- F setlist
- F setmodel
- D sets
- F spec
- 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		D registered	
F enable		B supported	
F handler		B triggering	
F register		F value	
D registered		D values	
numbers	data table	unsetvalue	number
ofnode	function	viewerlayers	table
private	function	N attribute	
showcurrent	function	D data	
states	table	F define	
F disabletriggering		F enable	
F enabletriggering		F forcesupport	
F finalize		F handler	
F initialize		B hasorder	
F process		D listwise	
F selective		F register	
F stacked		D registered	
F stacker		F resolve_begin	
transparencies	table	F resolve_end	
N attribute		F resolve_step	
D data		D scopes	
F enable		F setfeatures	
F forcesupport		F start	
F handler		F stop	
U none		B supported	
F register		D values	

backends (context)

codeinjections table

F synchronizecolormodel

current string

defaults table

T codeinjections

T nodeinjections

T registrations

D tables

install function

nodeinjections table

F restore

F save

F transform

nothing function

pdf table

T codeinjections

F addbookmarks

F attachmentid

F clonefield

F definefield

F definefieldset

F defineviewerlayer

F embedfile

F enabletags

F exportformdata

F finalizepage

F finishreference

F getdefaultfieldvalue

F getfieldcategory

F getfieldset

F getformatoption

F getoutputfilename

F getpreviewfigure

F insertrenderingwindow

F mergereferences

F mergeviewerlayers

F prerollreference

F presetsymbol

F presetsymbollist

F processrendering

F registerdocumentcloseaction

F registerdocumentopenaction

F registeredsymbol

F registerpagecloseaction

F registerpageopenaction

F registersymbol

F setfieldcalculationset

F setfigurealternative

F setfigurecolorspace

F setfiguremask

F setformat

F setformsmethod

F setpagetransition

F setupcanvas

F setupidentity

F setxmpfile

F startlayer

F stoplayer

F supportedformats

F useviewerlayer

F validfield

F validfieldcategory

F validfieldset

S comment

T nodeinjections

F addtags

F attachfile

F changestackedlayer

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 getspotcolorreference
F rgbcolor	F grayindexcolor
F spotcolor	F grayspotcolor
F startlayer	F rgbindexcolor
F startstackedlayer	F rgbspotcolor
F stoplayer	F spotcolorname
F stopstackedlayer	F transparency
F transparency	T tables
F typesetfield	D vfspecials
T registrations	registrations table
F cmykindexcolor	tables table
F cmykspotcolor	

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 doifalreadypaced		toxml	function
F filterall			

bit32 (basic lua)

arshift function
band function
bnot function
bor function
btest function
bxor function

extract function
lrotate function
lshift function
replace function
rrotate function
rshift function

blobs (context)

append function
dimensions function
dispose function

new function
pack function
write function

boolean (context)

tocontext function

tonumber function

buffers (context)

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

builders (context)

kernel table

- F hyphenation
- F kerning
- F ligaturing
- F mlist_to_hlist

paragraphs table

- T constructors
 - N attribute
 - F define
 - F disable
 - F enable
 - F handler
- T methods
 - F default
 - F oneline
- D names
- D numbers
- F set
- F start
- F stop
- F kepttogether
- F registertogether
- T solutions
 - T splitters
 - F define

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

F tag

vspacing table

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

cache (context)

ask	boolean	is_writable	function
base	string	loadcontent	function
collapsecontent	function	loaddata	function
configfiles	function	more	string
contentstate	function	relocate	boolean
defaults	table	savecontent	function
define	function	savadata	function
direct	boolean	setfirstwritablefile	function
force	boolean	setluanames	function
getfirstreadablefile	function	tree	string
getreadablepaths	function	treehash	function
getwritablepath	function	usedpaths	function
hashed	function		

callback (basic tex)

find function
list function

register overloaded function

callbacks (context)

freeze function
known function
list data table
pop function

push function
register function
report function

catcodes (context)

names data table

numbers data table

register function

characters (context)

activeoffset	number	lcchars	data table
adobename	function	lccode	function
bidirectional	data table	lccodes	data table
blockrange	function	lettered	function
blocks	data table	lower	function
casemap	table	math	table
categories	data table	mathpairs	data table
category	function	otfscripts	data table
categorytags	data table	ranges	data table
combined	data table	registerentities	function
contextname	function	remap_hangul_syllable	function
data	data table	safechar	function
decomposed	data table	setcodes	function
define	function	shape	function
description	function	shaped	function
descriptions	data table	shchars	data table
directions	table	shcodes	data table
encodes	data table	specialchars	data table
entities	data table	specials	data table
fallbacks	data table	subscripts	table
filters	data table	superscripts	table
fromnumber	function	synonyms	data table
fschars	data table	tex	table
fscodes	data table		
getrange	function	D accentmapping	
graphemes	data table	F defineaccents	
hangul	data table	F toutf	
initialize	function	tonumber	function
is_character	data table	ucchars	data table
is_command	data table	uccode	function
is_letter	data table	uccodes	data table
is_mark	data table	unicodechar	function
is_spacing	data table	upper	function

chemistry (context)

component	function	moleculeparser	userdata
define	function	start	function
definitions	data table	stop	function
format	string	structures	number
instance	string	undefine	function
molecule	function		

commands (context)

Alphabetic	function	autonextstructurelevel	function
Character	function	autosetups	function
Characters	function	autostarttext	function
MPc	function	autostoptext	function
MPd	function	averagecharwidth	function
MPh	function	bcolumn	function
MPLl	function	boolcase	function
MPlr	function	character	function
MPls	function	characters	function
MPn	function	checkcharactersinfont	function
MPp	function	checkcountersetup	function
MPpardata	function	checkedconversion	function
MPplus	function	checkedpagefloat	function
MPpos	function	checktwopassdata	function
MPposset	function	chemicalcomponent	function
MPr	function	chineseallnumerals	function
MPrest	function	chinesecapnumerals	function
MPrs	function	chinesenumerals	function
MPul	function	cleanfontname	function
MPur	function	cleanupplayers	function
MPw	function	clonefield	function
MPx	function	collectfloat	function
MPxy	function	collecthelp	function
MPxywhd	function	colorcomponents	function
MPy	function	concatcommalist	function
Romannumerals	function	consultfloat	function
abjadnodotnumerals	function	copyposition	function
abjadnumerals	function	cos	function
addcounter	function	cosd	function
addlinklistelement	function	countervalue	function
addtojavascriptpreamble	function	counttwopassdata	function
addtolist	function	currentcomponent	function
allinputpaths	function	currentdate	function
alphabetic	function	currentenvironment	function
analysefloatmethod	function	currentproduct	function
analyzelist	function	currentproject	function
applytochars	function	currentreferencedefault	function
applytowords	function	currentreferenceorder	function
assignbuffer	function	currentregime	function
autofinishstructurelevels	function	datasetvariable	function
autonextspace	function	dayname	function

defineattribute	function	doanalyzeframedbox	function
definebibtexsession	function	doif	function
definebreakpoint	function	doifblackelse	function
definebreakpoints	function	doifcommonelse	function
definecharacterspacing	function	doifcounter	function
definechemical	function	doifdimenstringelse	function
defineconversion	function	doifdrawingblackelse	function
definecounter	function	doifelse	function
definedviewerlayer	function	doifelsebuffer	function
definefield	function	doifelsecontinewithfile	function
definefieldset	function	doifelsecounter	function
definefilefallback	function	doifelsecurrentfonthasfeature	function
definefilesynonym	function	doifelseintwopassdata	function
definefont_one	function	doifelsemarking	function
definefont_two	function	doifelsemessage	function
definefontfeature	function	doifelsemultipar	function
definefontsolution	function	doifelseparallel	function
defineinsertion	function	doifelsepositionsused	function
defineintermediatecolor	function	doifelserangeonpage	function
definelabels	function	doifelserreference	function
definelanguage	function	doifelsesavedfloat	function
definelinkedlist	function	doifelsespaces	function
definemarking	function	doifelseutfmathaccent	function
definemultitonecolor	function	doifelsevisualizer	function
definenote	function	doiffielddcategoryelse	function
defineparallel	function	doiffielddelse	function
defineparbuilder	function	doiffielddsetelse	function
defineprocesscolor	function	doiffiledefinedelse	function
defineprogram	function	doiffileexistelse	function
definereference	function	doiffirstcharelse	function
definesectionlevels	function	doifinputfileelse	function
definespotcolor	function	doifinsetelse	function
definestructureblock	function	doifleapyearelse	function
definestructureset	function	doiflisthasentry	function
definetransparency	function	doiflisthasnumberelse	function
definetwopasslist	function	doiflisthaspageelse	function
defineviewerlayer	function	doiflisthastitleelse	function
defrostrandomseed	function	doiflocfileelse	function
digits	function	doifnot	function
disableautofontscript	function	doifnotcounter	function
disableparbuilder	function	doifnotecontent	function
disableregime	function	doifnoteonsamepageasprevious	function
disablesPELLchecking	function	doifobjectreferencefoundelse	function
discardfromlist	function	doifolderversionelse	function

doifoverlappingelse	function	figurestatus	function
doifparentfileelse	function	figureused	function
doifposition	function	figurevariable	function
doifpositionelse	function	filterdefaultreference	function
doifpositiononpage	function	filterreference	function
doifpositionsonsamepageelse	function	finalizebox	function
doifpositionsonthispageelse	function	findtwopassdata	function
doifurldefinedelse	function	firstcountervalue	function
doprocstypescriptfile	function	firstinset	function
doreshapeframedbox	function	flushfloat	function
dostarttextfile	function	flushnotes	function
dostoptextfile	function	flushpostponedblocks	function
ecolumn	function	flushpostponednotes	function
elapsedtime	function	fontchar	function
enableautofontscript	function	fontcollectionclone	function
enablecolor	function	fontcollectiondefine	function
enablecolorintents	function	fontcollectionprepare	function
enablefontcolorschemas	function	fontcollectionregister	function
enableparbuilder	function	fontcollectionreport	function
enableregime	function	fontcollectionreset	function
enablespellchecking	function	fontlookupgetkey	function
enabletransparency	function	fontlookupgetkeyofindex	function
enhancelinkedlist	function	fontlookupinitialize	function
enhancelist	function	fontlookupnoffound	function
enhancereference	function	forceendjob	function
erasebuffer	function	forcequitjob	function
expandcurrentreference	function	format	function
exportformdata	function	formatcolor	function
exportreferences	function	formatgray	function
extensiblecode	function	freezerandomseed	function
feature	function	from	function
featureattribute	function	getbuffer	function
featurelist	function	getbuffercctlua	function
feedback	function	getbuffermkvi	function
fetchallmarks	function	getcommandline	function
fetchmultipar	function	getctxfile	function
fetchmultishape	function	getcurrentprefixspec	function
fetchonemark	function	getcurrentreferencemetadata	function
fetchposboxes	function	getdefaultfieldvalue	function
fetchtwomarks	function	getfieldcategory	function
figurefilename	function	getfirstcharacter	function
figurefilepath	function	getfirsttwopassdata	function
figurefiletype	function	getfloatvariable	function
figurerequest	function	getinternalreference	function

getlasttwopassdata	function	installtextracker	function
getmarking	function	languagenumber	function
getmessage	function	lastcountervalue	function
getmpextensions	function	lchexnumber	function
getnotestate	function	lchexnumbers	function
getprivateattribute	function	leapyear	function
getprivatechar	function	linenumbersstageone	function
getprogram	function	linenumbersstagetwo	function
getrandomcounta	function	listgroupindex	function
getrandomcountb	function	listlabel	function
getrandomseed	function	listlocation	function
getreadfilename	function	listprefixednumber	function
getsubstring	function	listprefixedpage	function
gettexbuffer	function	listrealpage	function
gettwopassdata	function	listsize	function
gettwopassdatalist	function	listtitle	function
geturl	function	listuserdata	function
grabbuffer	function	loadexamodes	function
helpaction	function	loadfontgoodies	function
helpreference	function	loadspellchecklist	function
hexstringtonumber	function	loadtypescriptfile	function
horizontalcode	function	loadvisualizer	function
hour	function	locatefilepath	function
hyphenatedlist	function	locfilename	function
hyphenatedurl	function	makeactive	function
D characters		markfonts	function
N lefthyphenmin		markregionbox	function
D mapping		math_frac	function
N righthyphenmin		mathrenderset	function
F setcharacters		maxitemwidth	function
incrementedcounter	function	minute	function
initializetexdirectives	function	mixcleanup	function
initializetextrackers	function	mixfinalize	function
injectcurrentreference	function	mixflushlist	function
injectreference	function	mixflushrest	function
inlinechemical	function	mixgetsplitted	function
insertattachment	function	mixsetsplitted	function
insertcomment	function	mixstate	function
insertfield	function	molecule	function
insertionnumber	function	month	function
insertrenderingwindow	function	monthmnm	function
insertsoundclip	function	monthname	function
installedlanguages	function	mpcolor	function
installtexdirective	function	mpoptions	function

namedstructureuservariable	function	preparebibtexsession	function
namedstructurevariable	function	preparedfile	function
nbfs	function	presetsymbollist	function
nextcountervalue	function	presettabulate	function
nextparallel	function	prevcountervalue	function
nofdays	function	processbuffer	function
nofitems	function	processedfile	function
nofstackedfloats	function	processedfiles	function
notedeltapage	function	processfile	function
notelistindex	function	processfilemany	function
notenumberpage	function	processfilenone	function
noteprefixednumber	function	processfileonce	function
notesymbolpage	function	processlist	function
notetitle	function	pushfloat	function
ntimes	function	pushitaliccorrection	function
number	function	pushlist	function
numbers	function	pushregime	function
objectnumber	function	pushsectionblock	function
objectpage	function	rawcharacter	function
octnumber	function	rawcountervalue	function
octstringtonumber	function	rawdate	function
ordinal	function	referencepagestate	function
overloadbookmark	function	referencerealpage	function
page_injections_flush_after	function	registerattachment	function
page_injections_flush_before	function	registerbibtexentry	function
page_injections_save	function	registerbibtexfile	function
pagestaterealpage	function	registerbookmark	function
parpos	function	registerbuttons	function
pdfrotation	function	registercolor	function
percentageof	function	registercolorintent	function
pgfxcolorspec	function	registeredviewerlayer	function
placeparallel	function	registerhelp	function
popfloat	function	registeritemgroup	function
popitaliccorrection	function	registerlanguagefeatures	function
poplist	function	registerlinenumbering	function
popregime	function	registermaintextcolor	function
popsectionblock	function	registernamespace	function
pos	function	registerpostponedblock	function
posplus	function	registerrendering	function
posstrut	function	registersoundclip	function
postponenotes	function	registerstructureprocessor	function
poswhd	function	registertransparency	function
posxy	function	registerunit	function
prepareMPvariable	function	relatemarking	function

remapentity	function	setclosedocumentaction	function
removemissingcharacters	function	setclosepageaction	function
renderingvar	function	setcolormodel	function
replacemissingcharacters	function	setcounter	function
replacepospxywhd	function	setdataset	function
resavefloat	function	setdigitsmanipulation	function
resetcounter	function	setdirection	function
resetfontfeature	function	setdocumentenvironments	function
resetfontsolution	function	setdocumentfilenames	function
resetmarking	function	setdocumentmodes	function
resetmathitalics	function	setdocumentmodules	function
resetnullfont	function	setfigurelookuporder	function
resetparallel	function	setfontfeature	function
resetreference	function	setfontofid	function
resetstructureprocessor	function	setfontsolution	function
resettimer	function	setformat	function
restartcounter	function	setformsmethod	function
restorecounter	function	setinsertionlocation	function
restorecurrentattributes	function	setinterfaceconstant	function
restorenote	function	setinterfaceelement	function
romannumerals	function	setinterfacemessage	function
runbuffer	function	setinterfacemessages	function
safechar	function	setinterfacevariable	function
savebuffer	function	setinternalreference	function
savecounter	function	setlanguageexceptions	function
savecurrentattributes	function	setlanguagesynonym	function
savelistnumber	function	setlayer	function
savelistprefixednumber	function	setmarking	function
savelisttitle	function	setmathalphabet	function
savefloat	function	setmathalternate	function
savenote	function	setmathattribute	function
saveobject	function	setmathitalics	function
saveparallel	function	setmathstyle	function
savestructureblock	function	setnextinternalreference	function
save tagged twopass data	function	setnotestate	function
save twopass data	function	setnotesymbolpage	function
second	function	setobject	function
selectstructureblock	function	setopendocumentaction	function
setbreakpoints	function	setopenpageaction	function
setcharactercasing	function	setowncounter	function
setcharactercleaning	function	setpagestate	function
setcharacterkerning	function	setpagestaterealpageno	function
setcharacterspacing	function	setpagetransition	function
setcharacterstripping	function	setparbuilder	function

setpos	function	spotcolorparent	function
setrandomseed	function	spotcolorvalue	function
setrealign	function	startchemical	function
setreferencearguments	function	startcolorset	function
setreferenceattribute	function	startcomponent	function
setreferenceoperation	function	startenvironment	function
setsectionblock	function	startfontsolution	function
setstructureblockstate	function	startparbuilder	function
settagcombination	function	startproduct	function
settagdescription	function	startproject	function
settagdescriptionsymbol	function	startregime	function
settagfigure	function	startsectionlevel	function
settaghighlight	function	starttag	function
settagitemgroup	function	starttext	function
settagproperty	function	startviewerlayer	function
settagsorting	function	stopchemical	function
settagsynonym	function	stopcolorset	function
settagtablecell	function	stopcomponent	function
settagtabulatecell	function	stopenvironment	function
setupbookmarks	function	stopfontsolution	function
setupcanvas	function	stopparbuilder	function
setupcharacterspacing	function	stopproduct	function
setupexport	function	stopproject	function
setupfontexpansion	function	stopregime	function
setupfontprotrusion	function	stopsectionlevel	function
setupidentity	function	stoptag	function
setupinsertion	function	stoptext	function
setupitaliccorrection	function	stopviewerlayer	function
setuplinenumbering	function	storejavascriptcode	function
setvisual	function	storejavascriptpreamble	function
setxmpfile	function	storenote	function
showassignerror	function	structureautocatcodedget	function
showattributes	function	structurecatcodedget	function
showcallbacks	function	structuregivencatcodedget	function
showchardata	function	structurenumber	function
showcounter	function	structuretitle	function
showfontparameters	function	structureuservariable	function
showhyphenatedinlist	function	structurevariable	function
showjustification	function	subcountervalues	function
showmessage	function	synchronizecolormodel	function
sin	function	synchronizemarking	function
sind	function	taggedmathfunction	function
splitfilename	function	tan	function
spotcolorname	function	tand	function

testcase	function	useurl	function
textime	function	usexmlfile	function
transparencycomponents	function	usezipfile	function
triggereffect	function	utfchar	function
triggernegative	function	utfmathclass	function
truefilename	function	utfmathcommand	function
typebuffer	function	utfmathfiller	function
typefile	function	utfmathstretch	function
typestring	function	verbose	function
uchexnumber	function	visual	function
uchexnumbers	function	vspacing	function
undefinechemical	function	vspacingcollapse	function
unicodechar	function	vspacingdefine	function
unit	function	vspacingsetamount	function
unloadlanguage	function	vspacingsnap	function
useMPLibrary	function	way	function
useanyfile	function	weekday	function
usecldfile	function	weekdayname	function
usecolors	function	widthofstring	function
usecomponent	function	writestatus	function
useenvironment	function	x_table_cleanup	function
usefile	function	x_table_construct	function
usejavascriptpreamble	function	x_table_create	function
usejavascriptscripts	function	x_table_flush	function
uselibrary	function	x_table_init_construct	function
useluafile	function	x_table_init_reflow_height	function
uselua module	function	x_table_init_reflow_width	function
usemodules	function	x_table_next_row	function
usepath	function	x_table_reflow_height	function
useproduct	function	x_table_reflow_width	function
useproject	function	x_table_set_construct	function
usesubpath	function	x_table_set_reflow_height	function
usesymbols	function	x_table_set_reflow_width	function
usetexfile	function	year	function

containers (context)

cleanname function
content function
define function
is_usable function

is_valid function
read function
usecache boolean
write function

converters (context)

Alphabetic	function	minute	function
Character	function	month	function
Characters	function	nofdays	function
Romannumerals	function	number	function
abjadnodotnumerals	function	numbers	function
abjadnumerals	function	octnumber	function
alphabetic	function	octstringtonumber	function
character	function	ordinal	function
characters	function	rawcharacter	function
chineseallnumerals	function	romannumerals	function
chinesecapnumerals	function	second	function
chinesenumerals	function	sequences	data table
chr	function	textime	function
chrs	function	toabjad	function
convert	function	tochinese	function
define	function	toroman	function
hexstringtonumber	function	uchexnumber	function
hour	function	uchexnumbers	function
isleapyear	function	verbose	table
lchexnumber	function	D data	
lchexnumbers	function	F translate	
leapyear	function	weekday	function
maxchrs	function	year	function

coroutine (basic lua)

create function
resume function
running function

status function
wrap function
yield function

ctxrunner (context)

load	function	resolve	function
prepfiler	data table		

debug (basic lua)

debug	function	sethook	function
gethook	function	setlocal	function
getinfo	function	setmetatable	function
getlocal	function	setupvalue	function
getmetatable	function	setuservalue	function
getregistry	function	traceback	function
getupvalue	function	upvalueid	function
getuservalue	function	upvaluejoin	function

dir (context)

collectpattern	function	globpattern	function
current	function	ls	function
expandname	function	makedirs	function
found	function	mkdirs	function
glob	function	pop	function
globfiles	function	push	function

directives (context)

data	data table
default	function
disable	function
enable	function
list	function

name	string
register	function
report	function
show	function
value	function

document (context)

arguments	data table	T ctxfile	
files	table	D environments	
getargument	function	D modes	
getfilename	function	D modules	
options	table	setargument	function
T cmdline		setdefaultargument	function
D environments		setfilename	function
D modes		variables	data table
D modules			

environment (context)

argument	function	luafile	function
arguments	data table	luafilechunk	function
basicengines	data table	maxnofruns	number
currentrun	number	originalarguments	data table
default_texmfcnf	string	outputfilename	string
engineflags	data table	ownbin	string
filename	string	ownmain	string
files	table	ownname	string
filesynonyms	data table	ownpath	string
getargument	function	rawarguments	data table
homedir	string	reconstructcommandline	function
initex	boolean	relativepath	function
initializearguments	function	setargument	function
initializefilenames	function	splitarguments	function
inputfilebarename	string	suffix	string
inputfilename	string	texfile	function
inputfilesuffix	string	texmfos	string
jobfilename	string	texos	string
jobfilesuffix	string	texroot	string
kindofrun	number	truefilename	function
loadluafile	function	validengines	data table

epdf (extra tex)

Array function
Dict function
Object function

PDFRectangle function
open function
type function

experiments (context)

data	data table	name	string
default	function	register	function
disable	function	report	function
enable	function	show	function
list	function	value	function

figures (context)

applyratio	function	includes	data table
bases	data table	initialize	function
bitmapimage	function	loaded	data table
boxnumber	number	localpaths	data table
cachepaths	data table	magics	data table
check	function	mergegoodies	function
checkers	data table	nofprocessed	number
converters	data table	order	data table
current	function	paths	data table
defaultdepth	number	patterns	data table
defaultheight	number	pop	function
defaultsearch	boolean	preferquality	boolean
defaultwidth	number	programs	data table
done	function	push	function
dummy	function	registerpattern	function
exists	data table	registerresource	function
exists	function	registersuffix	function
formats	data table	resources	data table
found	data table	scale	function
get	function	setlookups	function
guess	function	setorder	function
hash	function	setpaths	function
identifiers	data table	suffixes	data table
identify	function	used	data table
include	function		

file (basic lua)

addsuffix	function
basename	function
checksum	function
collapsepath	function
copy	function
dirname	function
expandname	function
extname	function
is_qualified_path	function
is_readable	function
is_rootbased_path	function
is_writable	function
isreadable	function
iswritable	function
join	function
joinpath	function
loadchecksum	function
nameonly	function
nametotable	function

needs Updating	function
needsupdating	function
pathpart	function
readdata	function
removesuffix	function
replacesuffix	function
reslash	function
robustname	function
savechecksum	function
savedata	function
size	function
splitbase	function
splitname	function
splitpath	function
strip	function
suffix	function
suffixonly	function
syncmtimes	function

floats (context)

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

font (basic tex)

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

id function
max function
nextid function
read_tfm function
read_vf 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		F beforecopyingcharacters
T features			D cache
N fina			F calculatyscale
N init			F checkedfeatures
N isol			F checkedfilename
N medi			F checkvirtualids
D initializers			F cleanuptable
D methods			F collectprocessors
F setstate			D designsizes
T states			D dontembed
N blwf			F enhanceparameters
N fina			N factor
N half			F finalize
N init			F getfeatureaction
N isol			F hashfeatures
N mark			F hashinstance
N medi			T hashmethods
N pref			F normal
N pstf			F virtual
N rest			F initializefeatures
N rphf			T keys
checkers	table		T character
F missing			S depth
cid	table		S height
F getmap			S italic
F loadfile			S width
collections	table		T description
F clonevector			T boundingbox
F define			S depth
T definitions			S height
F prepare			S width
F process			T parameters
F registermain			S ascender
F report			S descender
F reset			S designsize
T vectors			T expansion
constructors	table		S auto
F aftercopyingcharacters			S shrink
F applymanipulators			S step
F assignmathparameters			S stretch
B autocleanup			S extendfactor

S factor	S mathitalics	
S hfactor	S mode	
S mathsize	S name	
T protrusion	S noglyphnames	
S auto	S nostackmath	
S quad	S psname	
S scaledpoints	S textitalics	
S scriptpercentage	S virtualized	
S scriptscriptpercentage	D loadedfonts	
S size	S namemode	
S slantfactor	F newfeatures	
S slantperpoint	F newhandler	
T spacing	N privateoffset	
S extra	F readanddefine	
S shrink	F registerfeature	
S stretch	B resolvevirtualtoo	
S width	F scale	
T synonyms	F scaled	
S em	F setfactor	
S ex	F setname	
S extra_space	N version	
S extraspace	current	function
S slant	currentid	function
S space	definers	table
S space_shrink	F addlookup	
S space_stretch	F analyze	
S spaceshrink	F applypostprocessors	
S spacestretch	F checkedmode	
S x_height	F checkedscript	
S units	F current	
S vfactor	S defaultlookup	
S xheight	F define	
T properties	F getspecification	
S autoitalicamount	F loadfont	
T cidinfo	F makespecification	
S embedding	T methods	
S encodingbytes	F install	
S filename	D variants	
S finalized	F read	
S fontname	F register	
S format	F registered	
S fullname	F registersplit	
S hasitalics	F resetnullfont	
S hasmath	F resolve	

T	resolvers		D	cache
F	file		D	features
F	name		T	helpdata
F	spec		D	bothkerned
definetypeface	function		D	leftkerned
encodings	table		D	ligatures
T	agl		D	rightkerned
D	cache		D	texligatures
F	is_known		F	load
D	known		F	setfeatures
F	load		B	syncspace
F	make_unicode_vector		N	version
D	math		T	otf
N	version		F	addfeature
expansions	data table		D	cache
formats	data table		T	chainhandlers
goodies	table		F	normal
D	colorschemes		F	verbose
D	data		F	collectlookups
D	designsizes		F	dataset
D	filenames		S	defaultbasealternate
F	getcompositions		S	defaultnodealternate
T	list		D	enhancers
F	compositions		D	features
F	designsizes		F	getalternate
F	expansions		T	glists
F	featureset		T	handlers
F	filenames		F	contextchain
F	files		F	devanagari_remove_joiners
F	mathematics		F	devanagari_reorder_matras
F	protrusions		F	devanagari_reorder_pre_base_reordering_consonants
F	solutions		F	devanagari_reorder_reph
F	typefaces		F	gpos_context
F	load		F	gpos_contextchain
F	prepare_features		F	gpos_cursive
F	register		F	gpos_mark2base
F	registerpostprocessor		F	gpos_mark2ligature
F	report		F	gpos_mark2mark
handlers	table		F	gpos_pair
T	afm		F	gpos_single
B	addkerns		F	gsub_alternate
B	addligatures		F	gsub_context
B	addtexligatures		F	gsub_contextchain
B	autoprefixed		F	gsub_ligature

- F gsub_multiple
- F gsub_reversecontextchain
- F gsub_single
- F load
- F scriptandlanguage
- F setcontextchain
- F setdynamics
- F setfeatures
- T statistics
 - D usedfeatures
- T tables
 - D baselines
 - D features
 - D languages
 - D scripts
- N version
- T pfb
- T tfm
 - D features
 - F setfeatures
- T vf
 - T combinations
 - F combine
 - T combiner
 - D commands
 - F find
 - D helpers
 - D math
 - D predefined
 - D whatever

hashes table

- D characters
- D csnames
- D descriptions
- D dynamics
- D emwidths
- D exheights
- D extensibles
- D identifiers
- D italics
- D lastmathids
- D marks
- D parameters
- T processes

- D properties
- D quads
- D resources
- T setdynamics
- D spaces
- D spacings
- D xheights

helpers table

- F addprivate
- F dimenfactor
- F fontpatternhassize
- F getdigitwidth
- F getparameters
- F getprivatenode
- F hasprivate
- F nametoslot
- F setdigitwidth
- F splitfontpattern

iterators table

- F characters
- F descriptions
- F glyphs

loggers table

- T category_to_placeholder
- S ll
- S lm
- S lo
- S lt
- S lu
- S mc
- S me
- S mn
- S nd
- S nl
- S no
- S pc
- S pd
- S pe
- S pf
- S pi
- S po
- S ps
- S sc
- S sk

```
S sm
S so
F format
F onetimemessage
F register
F reportdefinedfonts
F reportusedfeatures
```

```
mappings      table
```

```
F addtounicode
F fromunicodel6
F loadfile
F loadline
F loadlumtable
F makenamemaparser
F reset
F tounicodel6
F tounicodel6sequence
```

names	data table
nulldata	data table
protrusions	data table
readers	table

functions (context)

dummy function

graphics (context)

backgrounds table

F calculatemultipar

F fetchmultipar

F pair

F path

F point

gzip (extra lua)

close function

lines function

open function

img (basic tex)

boxes	function	ofindex	function
check	function	package	function
checksize	function	print	function
clone	function	scan	function
copy	function	serialize	function
immediatewrite	function	totable	function
keys	function	types	function
new	function	write	function
node	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
cachedsetups	data table
cachesetup	function
complete	data table
constants	data table
corenamespaces	data table
definecommand	function
doifelsemessage	function
elements	data table
formats	data table
getcheckedparameters	function
getmessage	function
hashedsetups	data table
interfacedcommand	function
interfaces	table
invalidkey	function
is_command	function
namespaces	table

F define

F list

registernamespace	function
setconstant	function
setelement	function
setformat	function
setmessage	function
setmessages	function
settranslation	function
setuserinterface	function
setvalidkeys	function
setvariable	function
showmessage	function
syntax	data table
tolist	function
translations	data table
variables	data table

io (basic lua)

ask	function
bytes	function
characters	function
close	function
exists	function
fileseparator	string
flush	function
i_limiter	function
i_limiters	table
T paranoid	
input	function
limiter	function
lines	function
loadchunk	function
loaddata	function
loadlines	function
noflines	function
o_limiter	function

o_limiters	table
T paranoid	
open	overloaded function
output	function
pathseparator	string
popen	overloaded function
read	function
readall	function
readnumber	function
readstring	function
savedata	function
size	function
stderr	userdata
stdin	userdata
stdout	userdata
tmpfile	function
type	function
write	function

job (context)

comment function

datasets table

D collected

F extend

F getdata

F setdata

D tobesaved

disablesave function

files table

D collected

F context

B forcerun

F run

D tobesaved

initialize function

load function

loadother function

objects table

D collected

F get

F number

F page

F save

F set

D tobesaved

pack boolean

packversion number

pagestates table

D collected

F extend

F realpage

F setstate

D tobesaved

passes table

F check

D collected

F count

F define

F find

F first

F get

F getcollected

F getdata

F getfield

F gettobesaved

F inlist

F last

F list

F save

F savetagged

D tobesaved

positions table

F b_col

F b_region

F c

D collected

F column

F copy

F depth

F e_col

F e_region

F enhance

F extra

F get

F getreserved

F hangafter

F hangindent

F height

F hsize

F leftskip

F lowerleft

F lowerright

F markregionbox

F n

F onsamepage

F overlapping

F p

F page

F paragraph

F parindent

F position

F r

F region
F replace
F rightskip
F set
F setall
F setdim
D tobesaved
F upperleft
F upperright
F width
F x
F xy
F y

register function

save function
structure table
 D collected
 T components
 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
clear_hyphenation	function
clear_patterns	function
exceptions	function
hyphenate	function
hyphenation	function
id	function

new	function
patterns	function
postexhyphenchar	function
posthyphenchar	function
preexhyphenchar	function
prehyphenchar	function

languages (context)

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

layouts (context)

status	table	F leftorrightpagection
	F isleftpage	

lfs (extra lua)

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

libraries (context)

basiclua data table
basictex data table
builtin data table
extralua data table

extratex data table
functions data table
globals data table

lmx (context)

color	function
convert	function
convertfile	function
convertstring	function
einject	function
eprint	function
escape	function
finalized	function
finject	function
fprint	function
get	function
getvariables	function
htmfile	function
html	table
F a	
F td	
F th	
include	function
inherited	table
S color-background-four	
S color-background-one	
S color-background-three	
S color-background-two	
S title	
initialize	function
inject	function
lmxfile	function

loadedfile	function
new	function
overloaderror	function
popupfile	function
print	function
pv	function
report	function
reset	function
result	function
set	function
show	function
showdebuginfo	function
showerror	function
stripcss	function
tv	function
type	function
urlescape	function
variable	function
variables	table
S color-background-blue	
S color-background-body	
S color-background-green	
S color-background-main	
S color-background-purple	
S color-background-yellow	
S title-default	

logs (context)

application	function
categories	function
direct	function
disable	function
enable	function
exporters	table
extendbanner	function
flush	function
help	function
messenger	function
new	function
newline	function
poptarget	function
pushtarget	function
report	function
reportbanner	function
reporter	function
reporters	table

F banner

F export

F help

F info

F lines

F version

reportline	function
reportlines	function
setformats	function
setmessenger	function
setprogram	function
settarget	function
settranslations	function
show	function
show_close	function
show_load	function
show_open	function
simple	function
simpleline	function
simplelines	function
start_page_number	function
status	function
stop_page_number	function
subdirect	function
subreport	function
system	function
texerrormessage	function
writer	function

lpdf (context)

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

lpeg (basic lua)

B	function	finder	function
C	function	firstofsplit	function
Carg	function	frontstripper	function
Cb	function	instringchecker	function
Cc	function	is_lpeg	function
Cf	function	keeper	function
Cg	function	locale	function
Cmt	function	match	function
Cp	function	oneof	function
Cs	function	patterns	data table
Ct	function	print	function
P	function	replacer	function
R	function	secondofsplit	function
S	function	setmaxstack	function
UP	function	split	function
UR	function	splitat	function
US	function	splitter	function
V	function	stripper	function
anywhere	function	times	function
append	function	tsplitat	function
balancer	function	tsplitter	function
checkedsplit	function	type	function
counter	function	utfchartabletopattern	function
endstripper	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
bytdone	table	numbers	data table
collectgarbage	function	registercode	function
delay	function	registeredcodes	function
finalize	function	registerfinalizer	function
firstbytecode	number	registername	function
flush	function	setbytecode	function
flushdelayed	function	setluaname	function
getbytecode	function	startupfile	string
getluaname	function	version	string
lastbytecode	number		

luatex (context)

cleanuptempfiles	function	registertempfile	function
registerstartactions	function	starttime	number
registerstopactions	function		

lxml (context)

addindex	function
all	function
applyfunction	function
att	function
attribute	function
chainattribute	function
checkindex	function
collected	function
command	function
concat	function
concatrange	function
content	function
context	function
convert	function
count	function
delete	function
direct	function
directives	table
F after	
F before	
F handle	
F load	
F setup	
displayverbatim	function
doif	function
doifelse	function
doifelsetext	function
doifnot	function
doifnottext	function
doiftext	function
element	function
elements	function
entities	data table
filter	function
filterlist	function
first	function
flush	function
flushlinewise	function
flushsetups	function
flushspacewise	function
get_id	function

getid	function
getindex	function
id	function
idsplitter	userdata
include	function
index	function
info	function
inlineverbatim	function
installsetup	function
last	function
load	function
loadbuffer	function
loaddata	function
loaded	table
loadregistered	function
main	function
match	function
name	function
namespace	function
nonspace	function
pos	function
position	function
raw	function
rawroot	function
register	function
registerentity	function
removesetup	function
resetcdata	function
resetsetups	function
resolvedentity	function
root	function
serialize	function
setaction	function
setcdata	function
setcommandtonone	function
setcommandtotext	function
setsetup	function
snippet	function
sorters	table
F add	
F compare	

F flush		stripped	function
F reset		tag	function
F show		text	function
F sort		tofile	function
splitid	function	toparameters	function
startraw	function	toverbatim	function
stopraw	function	verbatim	function
store	function	withinindex	function
strip	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
initialseed	number	tand	function
ldexp	function	tanh	function
log	function		

mathematics (context)

addfallbacks	function	mapremap	data table
alphabets	data table	overloaddimensions	function
big	function	overloadparameters	function
boldmap	table	privatebase	number
categories	table	remapalphabets	function
D functions		renderings	table
checkaccentbaseheight	function	D mappings	
checkprivateparameters	function	D numbers	
classes	data table	D sets	
codes	data table	renderset	function
define	function	resetitalics	function
dimensions	function	scaleparameters	function
extensiblecode	function	setalternate	function
extensibles	data table	setitalics	function
extrabase	number	syncboth	function
extras	table	syncname	function
F add		syncstyle	function
F copy		toname	function
fallbacks	table	tostyle	function
F apply		tweakaftercopyingfont	function
F install		tweakbeforecopyingfont	function
fallbackstyleattr	function	tweaks	table
families	data table	F fixbadprime	
gaps	table	utfmathclass	function
getboth	function	utfmathcommand	function
getstyle	function	utfmathfiller	function
initializeparameters	function	utfmathstretch	function
makefont	function		

mbox (context)

parse	function
parse_from	function
parse_header	function
parse_headers	function

parse_message	function
split_headers	function
split_mbox	function
split_message	function

md5 (extra lua)

HEX	function
crypt	function
dec	function
decrypt	function

exor	function
hex	function
sum	function
sumhexa	function

metapost (context)

analyzeplugins function
checkformat function
checktexts function
collapse boolean
colorinitializer function
convert function
defaultformat string
defaultinstance string
defaultmethod string
directrun function
edefsxsy function
escaped function
exectime table
extensiondata data table
filterclippath function
finder function
flush function
flushers table

T pdf
F comment
F flushfigure
F startfigure
F stopfigure
F textfigure

flushliteral function
flushnormalpath function
flushreset function
format function
formatnumber function
getclippath function
getextensions function
gettext function
graphic function
graphic_base_pass function
graphic_extra_pass function
instance function
intermediate table

T actions

F makempy

B needed

lastlog string
load function
makempy table

N nofconverted

F processgraphics

metafun table

F interpolate

F topath

method number
multipass boolean
n number
optimize boolean
parse function
pdfliterals function
pluginactions function
process function
processplugins function
reducetogray boolean
reporterror function
reset function
resetlastlog function
resetplugins function
resettex texts function
setextensions function
setoutercolor function
settext function
showlog boolean
tex table

F get

F reset

F set

texerrors boolean
textextsdata function
theclippath function
totable function
unload function

mime (extra lua)

b64 function

decode function

decodet table

F base64

F quoted-printable

dot function

encode function

encodet table

F base64

F quoted-printable

eol function

normalize function

qp function

qpwrp function

stuff function

unb64 function

unqp function

wrap function

wrapt table

F base64

F default

F quoted-printable

F text

wrp function

mplib (extra tex)

fields	function	pen_info	function
finders	table	preprocessed	function
F file		version	function
new	function		

noads (context)

handlers table

- F check
- F collapse
- F families
- F italics
- F relocate
- F render
- F resize
- F tags
- F unscript

F variants

process function

processors table

- T collapse
- F mlist_to_hlist
- T relocate
- T render
- T resize
- 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
end_of_math	function	protrusion_skippable	function
family_font	function	remove	function
fields	function	set_attribute	function
first_character	function	slide	function
first_glyph	function	subtype	function
flush_list	function	tail	function
free	function	traverse	function
has_attribute	function	traverse_id	function
has_field	function	type	function
hpack	function	types	function
id	function	unprotect_glyphs	function
insert_after	function	unset_attribute	function
insert_before	function	usedlist	function
is_node	function	vpack	function
kerning	function	whatsits	function
last_node	function	write	function
length	function		

nodes (context)

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

margincodes	data table	F penalty	
markers	table	F register	
F get		F rightmarginkern	
mathcodes	data table	F rightskip	
noadcodes	data table	F rule	
nodecodes	data table	F shrink	
packlist	function	F special	
pardir_is_equal	data table	F stretch	
pardir_is_opposite	data table	F temp	
pardir_is_parallel	data table	F textdir	
partextdir_is_equal	data table	F usage	
penaltycodes	data table	T userids	
plugindata	table	N margins.inline	
S name		N splitters.one	
T namespace		N splitters.two	
N attribute		F userlist	
T droppers		F usernumber	
F freeze		F userstring	
F set		F usertokens	
F handler		F vlist	
F set		F zeroglue	
F processor		print	function
pool	table	processors	table
F baselineskip		B enabled	
F cleanup		F hpack_filter	
F disc		F post_linebreak_filter	
F fontkern		F pre_linebreak_filter	
F glue		F tracer	
F gluespec		processwords	function
F glyph		reference	function
F hlist		references	table
F kern		N attribute	
F latelua		T done	
F leftmarginkern		F handler	
F leftskip		T stack	
F lineskip		remove	function
F noad		repackhlist	function
F pdfannotation		replace	function
F pdfdestination		report	function
F pdfdirect		rightmarginwidth	function
F pdfliteral		rules	table
F pdfrestore		D data	
F pdfsave		F define	
F pdfsetmatrix		F enable	

F handler		textdir_is_equal	data table
save	function	textdir_is_is	data table
serialize	function	textdir_is_opposite	data table
serializebox	function	textdir_is_parallel	data table
setattribute	function	tonodes	function
setattributes	function	tosequence	function
setunsetattributes	function	totable	function
shifts	table	toutf	function
D data		tracers	table
F define		T characters	
F enable		F collect	
F handler		F equal	
show	function	F indices	
showboxes	function	F start	
showcodes	function	F string	
showlist	function	F unicodes	
showsimplelist	function	T colors	
skipcodes	data table	F reset	
snapshots	table	F set	
F getparameters		F setlist	
F getsamples		F fontchar	
F resetsamples		T frequencies	
F takesample		F register	
somepenalty	function	F start	
somespace	function	T steppers	
stripping	table	F check	
T glyphs		F codes	
F set		F features	
striprange	function	F font	
tasks	table	F glyphs	
F actions		F message	
F appendaction		F messages	
F disableaction		F nofsteps	
F disablegroup		F register	
F enableaction		F reset	
F enablegroup		F start	
F freeze		F stop	
F freezegroup		F stop	
F new		T transparencies	
F prependaction		F reset	
F removeaction		F set	
F restart		F setlist	
F showactions		unsetattribute	function
F table		unsetattributes	function

visualizebox

visualizers

F box

F handler

F markfonts

F setfont

function

table

F setlayer

F setvisual

whatcodes

whatsitcodes

writable_spec

data table

data table

function

number (context)

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

os (basic lua)

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

package (basic lua)

config	string	loaders	table
cpath	string	loadlib	function
extralibpath	function	luapaths	function
extralibpaths	function	path	string
extralupath	function	preload	table
extralupaths	function	searchers	table
helpers	table	searchpath	function
libpaths	function	seeall	function
loaded	table		

pagebuilders (context)

injections	table	F finalize
F flushafter		F getlist
F flushbefore		F getrest
F save		F getsplit
mixedcolumns	table	F setsplit
F cleanup		

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

pdfscanner (context)

scan function

physics (context)

`units` table

D tables

profiler (extra lua)

pause function
resume function

start function
stop function

regimes (context)

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

resolvers (context)

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

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

variableofformatorsuffix

function

wildcardpattern

function

scripts (context)

autofontfeature table

 F disable

 F enable

 F handler

categorytonumber data table

colors data table

defaults table

 N inter_char_half_shrink_factor

 N inter_char_half_stretch_factor

 N inter_char_hangul_penalty

 N inter_char_quarter_shrink_factor

 N inter_char_quarter_stretch_factor

 N inter_char_shrink_factor

 N inter_char_stretch_factor

handlers data table

hash table

installdataset function

installmethod function

numbertocategory data table

numbertodataset data table

preprocess function

reset function

set function

set (context)

contains function

create function

tolist function

tonumber function

totable function

socket (extra lua)

BLOCKSIZE	number	S connection
_DEBUG	boolean	S content-description
_SETSIZE	number	S content-disposition
bind	function	S content-encoding
choose	function	S content-id
connect	function	S content-language
connect4	function	S content-length
connect6	function	S content-location
dns	table	S content-md5
F getaddrinfo		S content-range
F gethostname		S content-transfer-encoding
F getnameinfo		S content-type
F tohostname		S date
F toip		S diagnostic-code
ftp	table	S dsn-gateway
S PASSWORD		S etag
N PORT		S expect
N TIMEOUT		S expires
S USER		S final-log-id
F command		S final-recipient
F get		S from
F open		S host
F put		S if-match
gettime	function	S if-modified-since
headers	table	S if-none-match
T canonic		S if-range
S accept		S if-unmodified-since
S accept-charset		S in-reply-to
S accept-encoding		S keywords
S accept-language		S last-attempt-date
S accept-ranges		S last-modified
S action		S location
S age		S max-forwards
S allow		S message-id
S alternate-recipient		S mime-version
S arrival-date		S original-envelope-id
S authorization		S original-recipient
S bcc		S pragma
S cache-control		S proxy-authenticate
S cc		S proxy-authorization
S comments		S range

S received
 S received-from-mta
 S references
 S referer
 S remote-mta
 S reply-to
 S reporting-mta
 S resent-bcc
 S resent-cc
 S resent-date
 S resent-from
 S resent-message-id
 S resent-reply-to
 S resent-sender
 S resent-to
 S retry-after
 S return-path
 S sender
 S server
 S smtp-remote-recipient
 S status
 S subject
 S te
 S to
 S trailer
 S transfer-encoding
 S upgrade
 S user-agent
 S vary
 S via
 S warning
 S will-retry-until
 S www-authenticate
 S x-mailer

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**
tcp6 **function**
tp **table**

N TIMEOUT
 F connect

try **function**
udp **function**
udp6 **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 digitmaximum

 N digitoffset

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

status (basic tex)

list function

storage (context)

allocate	function
data	table
mark	function
marked	function
max	number
min	number
nofmodules	number

noftables	number
register	function
shared	data table
strip	boolean
tofmodules	number
toftables	number

streams (context)

collect	function
disable	function
enable	function
flush	function
initialize	function

push	function
start	function
stop	function
synchronize	function

string (basic lua)

autodouble function
autosingle function
booleanstring function
byte function
bytepairs function
bytes function
char function
characterpairs function
characters function
checkedsplit function
collapsespaces function
count function
dump function
escapedpattern function
explode function
find function
format function
formatter function
formatters function

```
F %t (%t)
F %-t--cycle
F %-15s :
F %-15s : %s
F %-15s >
F %-15s >
F %-15s > %s
F %-15s > %s
F %-15s > %s >
F %-15s > %s >
F %-15s > %s > %s
F %-15s > %s > %s
F %.3f %.3f %.3f %.3f k %.3f %.3f %.3f %.3f K
F %.3f %.3f %.3f rg %.3f %.3f %.3f RG
F %.3f g %.3f G
F %U
F %U (%s)
F %a loaded
F %p
F %s
F %S %s
F %S %S %s
```

```
F %S %S %S %t
F %S %S %S %s
F %S Tc %S w %S Tr
F %S mul
F %S--%s
F %S->%S->%s
F %S->%S->%S->%S->%S->%S->%s
F %S:%s
F %S:%S:%s
F (%p,%p)
F /%S %s
F /%S << %t >>
F /%S [ %t ]
F /%S cs /%S CS %S SCN %s scn
F /Tr%s gs
F << %t >>
F << /Type /Annot %s /Rect [%0.3f %0.3f %0.3f %0.3f] >>
F MpSh%s
F Tr%s
F U+%04X:%s
F [ %t ]
F [%s][%s]
F \convertnumber{%s}{%s}
F _bpnf_(%s,%s,%s,'%s')
T _extensions_
  S chruni
  S font:features
  S font:name
  S tex
  S unichr
  S xml
F _plib_.b_col(%q)
F _plib_.b_region(%q)
F _plib_.e_col()
F _plib_.e_region(%s)
F _plib_.enhance(%q)
S _preamble_
S _type_
F b:%s
F buffer.%s
F c:%s:%s:%s:%s
```


structures (context)

atlocation	function	F setlevel	
blocks	table	F setoffset	
D collected		F setown	
F define		F setstate	
F print		F setvalue	
F save		T specials	
F select		F userpage	
F setstate		F subs	
D states		D tobesaved	
D tobesaved		F value	
bookmarks	table	currentsectionnumber	function
F finalize		descriptions	table
F flatten		documents	table
S method		D data	
F overload		F initialize	
F place		F preset	
F register		F reset	
F setup		floats	table
counters	table	formulas	table
F add		F current	
F analyze		F simplify	
F check		F store	
D collected		helpers	table
F compact		F analyze	
F converted		F formulanumber	
F currentvalue		F merged	
D data		F page	
F define		F prefix	
F first		F prefixlastpage	
F get		F prefixpage	
F last		F simplify	
F next		F title	
F prev		F touserdata	
F previous		inserts	table
F raw		D data	
F record		F define	
F reset		F getdata	
F restart		F getlocation	
F restore		F getname	
F save		F getnumber	
F set		F setlocation	

F setup	
D stored	
itemgroups	table
F maxwidth	
F nofitems	
F register	
lists	table
F addto	
F analyze	
B autoreorder	
D cached	
D collected	
F discard	
F enhance	
T enhancers	
F filter	
F filtercollected	
F formulainumber	
F groupindex	
F hasnumberdata	
F haspagedata	
F hastitledata	
D internals	
F iscached	
F label	
F location	
F number	
D ordered	
F page	
F popnesting	
F prefix	
F prefixednumber	
F prefixedpage	
F process	
D pushed	
F pushnesting	
F realpage	
F reordered	
T result	
F sectionnumber	
F size	
F title	
D tobesaved	
F userdata	

F uservalue	
marks	table
D data	
F define	
F exists	
F fetch	
F fetchallmarks	
F fetched	
F fetchonemark	
F fetchtwomarks	
F get	
F number	
F relate	
F reset	
F set	
F show	
F synchronize	
F title	
T tracers	
F showtable	
notes	table
F checkpagechange	
F define	
F doifonsamepageasprevious	
F get	
F getdeltapage	
F getn	
F getnumberpage	
F getstate	
F getsymbolpage	
F hascontent	
F internal	
F internalid	
F listindex	
F ordered	
F postpone	
F resetpostponed	
F restore	
F save	
F setstate	
F setsymbolpage	
D states	
F store	
pages	table

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

references

table

F analyze
F checkedfile
F checkedfileorurl
F checkedprogram
F checkedrealpage
F checkedurl
D collected
U componentsplitter
F currentmetadata
F currentorder
D currentset
F define
D defined
D derived
F enableinteraction
F enhance
D executors
F expandcurrent
F export
T files
 T data
 F define
 F get
F filter
F filterdefault
D filters
F from
F get
F getcurrentmetadata
F getcurrentprefixspec
F getinnermethod
F getinternalreference
D handlers
F identify
F import
F inject
F injectcurrentset

D internals
F load
F loadpresets
F mark
D pages
U prefixsplitter
D productdata
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 getlevel	
F realpage		F getnumber	
F section		F internalreference	
F userpage		D levelmap	
D tobereferred		D levels	
D tobesaved		F load	
T urls		F matchingtilldepth	
T data		F numberatdepth	
F define		F numbers	
F get		F popblock	
F valid		F prefixedconverted	
F whatfrom		F pushblock	
registers	table	F register	
F analyze		D registered	
F analyzed		F reportstructure	
D collected		F save	
F compare		F set	
F define		F setblock	
F enhance		F setchecker	
F extend		F setlevel	
F filter		F setnumber	
F filtercollected		F somelevel	
F finalize		F structuredata	
F flush		F title	
F prepare		D tobesaved	
F process		F typesetnumber	
F sort		F userdata	
F store		B verbose	
D tobesaved		sets	table
F unique		F define	
F userdata		F get	
sections	table	F getall	
F autodepth		D setlist	
F cct		specials	table
D collected		D collected	
F current		F retrieve	
F currentblock		F store	
F currentid		D tobesaved	
F currentlevel		synonyms	table
F depthnumber		F analyzed	
F finddata		D collected	
F findnumber		F compare	
F fullnumber		F define	
F getcurrentlevel		F filter	

F finalize
F flush
F meaning
F prepare
F process
F register
F registerused
F sort
F synonym
D tobesaved

tags

T data
F detailedtag
F getid
F handler
D labels
F last
F lastinchain
T metadata
D properties

table

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)

allkeys	function	print	function
append	function	remove	function
are_equal	function	reverse	function
autokey	function	reversed	function
compact	function	save	function
concat	function	sequenced	function
contains	function	serialize	function
copy	function	setmetatablecall	function
count	function	setmetatableindex	function
derive	function	setmetatablekey	function
deserialize	function	setmetatablenewindex	function
drop	function	sort	function
fastcopy	function	sorted	function
fastserialize	function	sortedhash	function
flattened	function	sortedhashkeys	function
fromhash	function	sortedkeys	function
getmetatablekey	function	sortedpairs	function
has_one_entry	function	strip	function
identical	function	sub	function
imerge	function	swapped	function
imerged	function	tocontext	function
insert	function	tocsv	function
is_empty	function	tofile	function
keys	function	tohandle	function
load	function	tohash	function
loweredkeys	function	toxml	function
merge	function	twowaymapper	function
merged	function	unique	function
mirrored	function	unnest	function
pack	function	unpack	function
prepend	function		

tex (basic tex)

attribute	table	istoken	function
badness	function	lccode	table
box	table	linebreak	function
catcode	table	lists	table
conditionals	data table	luacatcodes	number
constants	data table	mathcode	table
count	table	modes	data table
ctxcatcodes	number	nest	table
definefont	function	nilcatcodes	number
delcode	table	notcatcodes	number
dimen	table	number	function
directives	data table	pdffontname	function
enableprimitives	function	pdffontobjnum	function
error	function	pdffontsize	function
extraprimitives	function	pdfpageref	function
finish	function	pdfxformname	function
fontidentifier	function	primitives	function
fontname	function	print	function
fprint	function	printlist	function
get	function	prtcacodes	number
getattribute	function	romannumeral	function
getbox	function	round	function
getcatcode	function	run	function
getcount	function	scale	function
getdelcode	function	set	function
getdimen	function	setattribute	function
getlccode	function	setbox	function
getlist	function	setcatcode	function
getmath	function	setcount	function
getmathcode	function	setdelcode	function
getnest	function	setdimen	function
getsfcode	function	setlccode	function
getskip	function	setlist	function
gettoks	function	setmath	function
getuccode	function	setmathcode	function
hashtokens	function	setnest	function
ifs	data table	setsfcode	function
inimatcodes	number	setskip	function
iscount	function	settoks	function
isdimen	function	setuccode	function
isskip	function	sfcode	table

shipout	function	tprint	function
skip	table	trackers	data table
sp	function	txtcatcodes	number
sprint	function	type	function
systemmodes	data table	uccode	table
texcatcodes	number	uniformdeviate	function
toks	table	uprint	function
tpacatcodes	number	vrbcacodes	number
tpbcacodes	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		

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
cs	function
dimen	function
knownlist	function
lists	table

- T context
- T internals
- T scratch

name	function
primitive	function
prnterror	function
showlines	function
strings	table
S undefined	
toks	function
type	function

trackers (context)

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

typesetters (context)

alignments table

F handler

F set

breakpoints table

N attribute

F define

F handler

D mapping

T methods

T numbers

F set

F setreplacement

cases table

T actions

F handler

F register

F set

characters table

F handler

checkers table

F handler

F reset

F set

cleaners table

F handler

F set

digits table

T actions

N attribute

F handler

F set

directions table

F handler

F process

F set

fast_hpack function

hpack function

italics table

F forcevariant

F handler

F reset

F set

kerns table

D factors

F handler

B keepeligature

B keepetogether

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 initialize_construct
F setup	F initialize_reflow_height
tonodes	F initialize_reflow_width
vpack	F next_row
xtables	F reflow_height
F cleanup	F reflow_width
F construct	F set_construct
F create	F set_reflow_height
F flush	F set_reflow_width

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

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

utf8 table

F byte
F char
F characters
F count
F dump
F filetype
F find
F format
F gfind
F gmatch
F gsub
F is_valid
F len
F length
F lower
F magic
F match
F remapper
F rep
F replacer
F reverse
F split
F splitlines
F sub
F subtituter
F tocodes
F toentities
F tostring
F totable
F upper
F ustring
F utf16_to_utf8
F utf16_to_utf8_be

F utf16_to_utf8_le
F utf32_to_utf8
F utf32_to_utf8_be
F utf32_to_utf8_le

F utf8_to_utf16
F utf8_to_utf8
F values
F xstring

url (context)

addscheme function
barepath function
construct function
escape function
filename function

hashed function
hasscheme function
query function
split function
toquery 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

B alwaysstripcode
F compile
F loadedluacode
F loadstripped
N nofstrippedbytes
N nofstrippedchunks
B stripcode
T strippedchunks
F strippedloadstring
T suffixes
S lua
S luc
S lui
S luj
S luv
S tma
S tmc
S tua
S tuc

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 csvsplitter
F getparameters
F hash_to_string
F iterator
F keq_to_hash
F listitem
F make_settings_to_hash_pattern
F mergehashes
T patterns
U keq_to_hash_c
U settings_to_array
U settings_to_hash_a
U settings_to_hash_b
U settings_to_hash_c
U unittotex
F rfc4180splitter
F settings_to_array
F settings_to_array_with_repeat
F settings_to_hash
F settings_to_hash_strict
F settings_to_hash_tolerant
F settings_to_set
F simple_hash_to_string
F splitthousands
F stepper
F unittotex
F unittoxml

report function

sequencers table

F appendaction
F appendgroup
F compile
F disableaction
F disablegroup
F enableaction
F enablegroup
D functions

F localize		F setinitializer	
F new		F sparse	
F nodeprocessor		strings	table
F prependaction		F collapsecrlf	
F prependgroup		T formatters	
F removeaction		F add	
F setkind		F new	
F toString		F newrepeater	
setters	table	F nice	
F disable		F striplong	
F enable		F tabtospace	
F initialize		T tracers	
F list		tables	table
F new		F accesstable	
F register		F definedtable	
F report		F definetable	
F reset		F encapsulate	
F show		F insertaftervalue	
stacker	table	F insertbeforevalue	
F new		F migratetable	
storage	table	F removevalue	
F allocate		templates	table
F checked		F load	
F mark		F replace	
F marked		F resolve	

vf (context)

char	function
down	function
fontid	function
image	function
node	function
nop	function

pop	function
push	function
right	function
rule	function
special	function

visualizers (context)

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

xml (context)

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

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

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

zip (extra lua)

archives

table

close

function

closearchive

function

open

function

openarchive

function

openfile

function

registeredfiles

table

type

function

zlib (extra lua)

adler32 function
compress function
compressobj function
crc32 function

decompress function
decompressobj function
version function