

MP attributes backends bit **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** jit job
lang languages layouts **lfs** libraries lmx
logs lpdf **lpeg** **ltn12** **lua** luatex lxml **math**
mathematics mbox **md5** metapost **mime**
moduledata modules mp **mplib** noads **node**
nodes number objects **os** **package**
pagebuilders parametersets **pdf** pdfscanner
physics **profiler** publications regimes
resolvers sandbox scripts set **socket**
sorters statistics **status** storage streams
string structures **table** **tex** **texconfig** **texio**
thirddata tokens tracers trackers
typesetters **unicode** url userdata utilities
vf visualizers xml **zip** **zlib**

ConT_EXt MkIV

global (alias: _G)

MP	table	floats	table
_LUAVERSION	number	font	table
_MAJORVERSION	number	fontloader	table
_MINORVERSION	number	fonts	table
arg	table	frozen	boolean
assert	function	functions	table
attributes	table	gcinfo	function
backends	table	getfenv	function
bit	table	getmetatable	function
bit32	table	getpos	function
blobs	table	getvpos	function
boolean	table	global	table
buffers	table	graphics	table
builders	table	gzip	table
caches	table	img	table
callback	table	inspect	function
callbacks	table	interactions	table
catcodes	table	interfaces	table
chained_contextchain	function	io	table
characters	table	ipairs	function
chemistry	table	jit	table
collectgarbage	function	job	table
commands	table	lang	table
containers	table	languages	table
context	function	layouts	table
converters	table	lfs	table
coroutine	table	libraries	table
ctxrunner	table	lmx	table
debug	table	load	function
dimen	function	loadfile	function
dir	table	loadstring	function
directives	table	logs	table
document	table	lpdf	table
documentdata	table	lpeg	table
dofile	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	socket	table
metapost	table	sorters	table
mime	table	statistics	table
module	function	status	table
moduledata	table	storage	table
modules	table	streams	table
mp	table	string	table
mplib	table	structures	table
newproxy	function	swiglib	function
next	function	table	table
noads	table	tex	table
node	table	texconfig	table
nodes	table	texio	table
number	table	thirddata	table
objects	table	toboollean	function
oldtoken	number	tokens	table
optionalrequire	function	tonumber	function
os	table	tostring	function
package	table	tracers	table
pagebuilders	table	trackers	table
pairs	function	type	function
parametersets	table	typesetters	table
pcall	function	unicode	table
pdf	table	unpack	function
pdfscanner	table	url	table
physics	table	userdata	table
print	function	utf	table
profiler	table	utilities	table
publications	table	vf	table
rawequal	function	visualizers	table
rawget	function	xml	table
rawlen	function	xpcall	function
rawset	function	zip	table
regimes	table	zlib	table
require	function		
resolvers	table		
resolvestoredfunction	function		
sandbox	table		
scripts	table		
select	function		
set	table		
setfenv	function		
setinspector	function		
setmetatable	function		

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 definemultitonecolor
- F defineprocesscolor
- F definesimplegray
- F definespotcolor
- F definetransparency
- F enable
- F filter
- F forcedmodel
- F forcesupport
- F formatcolor
- F formatgray
- F getpagecolormodel
- F gray
- F graytohsb
- F handler
- F hstogray
- F hstorgb
- F iccprofile
- F isblack
- N main
- S model
- D models
- F mpcolor
- F mpnamedcolor

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

backends (context)

codeinjections table

F boxresourcedimensions
F registerboxresource
F restoreboxresource

current string

defaults table

T codeinjections
F gethpos
F getmatrix
F getpos
F getvpos
F hasmatrix
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 getbookmarks
F getdefaultfieldvalue
F getfieldcategory
F getfieldset
F getformatoption
F gethpos
F getmatrix
F getoutputfilename
F getpos

F getpreviewfigure
F getvpos
F hasmatrix
F insertrenderingwindow
F mergebookmarks
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 unicodetoactualtext
F useviewerlayer
F validfield
F validfieldcategory
F validfieldset
S comment
T nodeinjections
F addtags
F annotation
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 rgbcolor
- F spotcolor
- F startlayer
- F startstackedlayer
- F stoplayer
- F stopstackedlayer
- F transparency
- F typesetfield
- T registrations
 - F cmykindexcolor
 - F cmykspotcolor
 - F getspotcolorreference
 - F grayindexcolor
 - F grayspotcolor
 - F rgbindexcolor
 - F rgbspotcolor
 - F spotcolorname
 - F transparency
- T tables
 - D vfspecials

registrations table

tables table

bit (context)

arshift	function
band	function
bnot	function
bor	function
bswap	function
bxor	function
lshift	function
rol	function
ror	function
rshift	function
tobit	function
tohex	function

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
strdp	function
strhd	function
strht	function
strwd	function
tohpack	function
tonodes	function
tovpack	function
write	function

boolean (context)

tocontext function

tonumber function

buffers (context)

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

builders (context)

kernel table

- F hyphenation
- F kerning
- F ligaturing
- F mlist_to_hlist
- T originals
 - F hyphenate
 - F kerning
 - F ligaturing

paragraphs table

- T constructors
 - N attribute
 - F define
 - F disable
 - F enable
 - F handler
 - T methods
 - F basic
 - F default
 - F hpack
 - F oneline
 - D names
 - D numbers
 - F set
 - F start
 - F stop
- T expansion
 - F trace
- 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

profiling table

- F add
- F distance
- F fixedprofile
- F get
- F list
- F pagehandler
- F profilebox
- F set

vsparing table

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

caches (context)

ask	boolean
base	string
collapsecontent	function
configfiles	function
contentstate	function
defaults	table
define	function
direct	boolean
force	boolean
getfirstreadablefile	function
getfirstreadablefile_TEST_ME_FIRST	function
getreadablepaths	function
getwritablepath	function
hashed	function
is_writable	function
loadcontent	function
loaddata	function
more	string
relocate	boolean
savecontent	function
savedata	function
setfirstwritablefile	function
setluanames	function
tree	string
treehash	function
usedpaths	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	lhash	data table
adobename	function	linebreaks	table
bidirectional	data table	S ai	
blockrange	function	S al	
blocks	data table	S b2	
casemap	table	S ba	
categories	data table	S bb	
category	function	S bk	
categorytags	data table	S cb	
collapsed	data table	S cj	
combined	data table	S cl	
contextname	function	S cm	
csletters	data table	S cp	
data	data table	S cr	
decomposed	data table	S ex	
description	function	S gl	
descriptions	data table	S h2	
detailltags	data table	S h3	
directions	table	S hl	
encodes	data table	S hy	
entities	data table	S id	
fallbacks	data table	S in	
filters	data table	S is	
fractions	table	S jl	
fromnumber	function	S jt	
fschars	data table	S jv	
fscodes	data table	S lf	
getrange	function	S nl	
graphemes	data table	S ns	
hangul	data table	S nu	
initialize	function	S op	
is_character	data table	S po	
is_command	data table	S pr	
is_letter	data table	S qu	
is_mark	data table	S ri	
is_punctuation	data table	S sa	
is_spacing	data table	S sg	
lcchars	data table	S sp	
lccode	function	S sy	
lccodes	data table	S wj	
lettered	function	S xx	

S zw	
lower	function
math	table
mathpairs	data table
mirrors	table
otfscripts	data table
ranges	data table
registerentities	function
remap_hangul_syllable	function
setactivecatcodes	function
setlettercatcodes	function
shape	function
shaped	function
shash	data table
shchars	data table
shcodes	data table
showstring	function
specialchars	data table
specials	data table
splits	table
T char	
T compat	
subscripts	table
superscripts	table
synonyms	data table
tex	table
D accentmapping	
D commandmapping	
F defineaccents	
F safechar	
F toutf	
F toutfpattern	
textclasses	table
tonumber	function
ucchars	data table
uccode	function
uccodes	data table
uhash	data table
unicodechar	function
upper	function

chemistry (context)

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

containers (context)

cleannname	function
content	function
define	function
is_usable	function
is_valid	function
read	function
usecache	boolean
write	function

converters (context)

A	function	lower	function
AK	function	maxchrs	function
Alphabetic	function	minute	function
Character	function	month	function
Characters	function	nicenumber	function
Characters:es	function	nofdays	function
I	function	number	function
KA	function	numbers	function
KR	function	octnumber	function
R	function	octstringtonumber	function
RK	function	ordinal	function
Romannumerals	function	r	function
Sloviannumerals	function	rawcharacter	function
Spanishnumerals	function	romannumerals	function
Word	function	second	function
Words	function	sequences	data table
a	function	sloviannumerals	function
abjadnodotnumerals	function	spanishnumerals	function
abjadnumerals	function	textime	function
alphabetic	function	toabjad	function
character	function	tochinese	function
characters	function	toroman	function
characters:es	function	uchexnumber	function
chineseallnumerals	function	uchexnumbers	function
chinesecapnumerals	function	upper	function
chinesenumerals	function	verbose	table
chr	function	D data	
chrs	function	F translate	
cn	function	weekday	function
cn-a	function	word	function
cn-c	function	words	function
convert	function	year	function
decimals	function		
define	function		
hexstringtonumber	function		
hour	function		
i	function		
isleapyear	function		
lchexnumber	function		
lchexnumbers	function		
leapyear	function		

coroutine (basic lua)

create	function
resume	function
running	function
status	function
wrap	function
yield	function

ctxrunner (context)

load	function
preparedfile	function
prepfiles	data table
resolve	function

debug (basic lua)

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

dir (context)

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

directives (context)

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

document (context)

arguments	data table
files	table
getargument	function
getfilename	function
options	table
T cmdline	
D environments	
D modes	
D modules	
T ctxfile	
D environments	
D modes	
D modules	
setargument	function
setcommandline	function
setdefaultargument	function
setenvironments	function
setfilename	function
setfilenames	function
setmodes	function
setmodules	function
variables	data table

environment (context)

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

epdf (extra tex)

Array	function
Attribute	function
AttributeOwner_Type	function
Attribute_Type	function
Dict	function
Object	function
PDFRectangle	function
StructElement_Type	function
open	overloaded function
openMemStream	function
type	function

experiments (context)

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

figures (context)

applyratio function
badname function
bases data table
bitmapimage function
boxnumber number
cachepaths data table
check function
checkers data table
converters data table
current function
defaultdepth number
defaultheight number
defaultsearch boolean
defaultwidth number
done function
dummy function
exists data table
exists function
formats data table
found data table
get function
getrealpage function
guess function
hash function
identifiers data table
identify function
images table

F boxes
F check
F checksize
F clone
F copy
F immediatewrite
F keys
F new
F node
F ofindex
F package
F print
F scan
F serialize

F totable
F types
F write
include function
includes data table
initialize function
loaded data table
localpaths data table
magics data table
mergegoodies function
notprocessed number
order data table
paths data table
patterns data table
pop function
preferquality boolean
programs data table
push function
registerpattern function
registerresource function
registersuffix function
resources data table
scale function
setlookups function
setorder function
setpaths function
suffixes data table
used data table

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
suffixes	function
suffixesonly	function
suffixonly	function
syncmtimes	function

floats (context)

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

fontloader (extra tex)

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

fonts (context)

analyzers table

- T features
 - N blwf
 - N fina
 - N half
 - N init
 - N isol
 - N medi
 - N pref
 - N pstf
 - N rphf
- D initializers
- D methods
- F setstate
- T states
 - N blwf
 - N fina
 - N half
 - N init
 - N isol
 - N mark
 - N medi
 - N pref
 - N pstf
 - N rest
 - N rphf
- B useunicodemarks

checkers table

- F getmissing
- F missing
- F placeholder

cid table

- F getmap
- F loadfile

collections table

- F checkenabled
- F clonevector
- F define
- T definitions
- F found
- F prepare

- F process
- F registermain
- F report
- F reset
- T vectors

constructors table

- F addcoreunicodes
- F aftercopyingcharacters
- F applymanipulators
- F assignmathparameters
- B autocleanup
- F beforecopyingcharacters
- D cache
- B cacheintex
- F calculatescale
- F checkedfeatures
- F checkedfilename
- F checkvirtualids
- F cleanupable
- F collectprocessors
- F currentfonthasfeature
- D designsizes
- D dontembed
- F enhanceparameters
- N factor
- F finalize
- F getfeatureaction
- F hashfeatures
- F hashinstance
- T hashmethods
 - F normal
 - F virtual
- F initializefeatures
- T keys
 - T character
 - S depth
 - S height
 - S italic
 - S width
 - T description
 - T boundingbox

S depth	S xheight	
S height	T properties	
S width	S autoitalicamount	
T parameters	T cidinfo	
S ascender	S embedding	
S descender	S encodingbytes	
S designsizes	S filename	
T expansion	S finalized	
S auto	S fontname	
S shrink	S format	
S step	S fullname	
S stretch	S hasitalics	
S extendfactor	S hasmath	
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 noffontsloaded	
S extra	N nofsharedfonts	
S shrink	N nofsharedhashes	
S stretch	N nofsharedvectors	
S width	N privateoffset	
T synonyms	F readanddefine	
S em	F registerfeature	
S ex	B resolvevirtualtoo	
S extra_space	F scale	
S extraspace	F scaled	
S slant	F setfactor	
S space	F setname	
S space_shrink	B sharefonts	
S space_stretch	F trytosharefont	
S spaceshrink	N version	
S spacestretch	current	function
S x_height	currentid	function
S units	definers	table
S vfactor	F addlookup	

F analyze	
F applypostprocessors	
F checkedmode	
F checkedscript	
F current	
S defaultlookup	
F define	
F getspecification	
F internal	
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 ctxcodes	
D extras	
D names	
T synonyms	
N Acyrillic	
N Becyrillic	
N Cdot	
N Checyrillic	
N Decyrillic	
N Djecyrillic	
N Dzecyrillic	
N Dzhecyrillic	
N Ecyrillic	
N Edot	
N Efcyrillic	
N Elcyrillic	
N Emcyrillic	

N Encyrillic
N Ercyrillic
N Ereversedcyrillic
N Escyrillic
N Fitacyrillic
N Gcedilla
N Gdot
N Gecyrillic
N Gheupturncyrillic
N Gjecyrillic
N Hardsigncyrillic
N IAcyrillic
N IUcyrillic
N Icyrillic
N Idot
N Iecyrillic
N Iicyrillic
N Iishortcyrillic
N Iocyrillic
N Izhitsacyrillic
N Jecyrillic
N Kacyrillic
N Kcedilla
N Khacyrillic
N Kjecyrillic
N Lcedilla
N Ljecyrillic
N Ncedilla
N Njecyrillic
N Ocyrillic
N Odblacute
N Ohm
N Pecyrillic
N Rcedilla
N Shacyrillic
N Shchacyrillic
N Softsigncyrillic
N Tcedilla
N Tecyrillic
N Tsecyrillic
N Tshacyrillic
N Ucyrillic
N Udblacute
N Ushortcyrillic

N Vecyrillic	N dalettholam
N Yatcyrillic	N dalettholamhebrew
N Yericyrillic	N daletpatah
N Yicyrillic	N daletpatahhebrew
N Zdot	N daletqamats
N Zecyrillic	N daletqamatshebrew
N Zhecyrillic	N daletqubuts
N acutecmb	N daletqubutshebrew
N acyrillic	N daletsegol
N afii00208	N daletsegolhebrew
N afii08941	N daletsheva
N afii57694	N daletshevahebrew
N afii57695	N dalettsere
N afii57700	N dammaarabic
N afii57705	N dammatanaltonearabic
N afii57723	N dargahebrew
N alef	N dbllowline
N alefmaksurainitialarabic	N decimalseparatorarabic
N alefmaksuramedialarabic	N dialytikatonos
N approximatelyequal	N dotbelowcmb
N asteriskaltonearabic	N doubleyodpatah
N ayin	N doubleyodpatahhebrew
N bet	N edot
N betdagesh	N eightarabic
N blackdownpointingtriangle	N eighthnotebeamed
N blackleftpointingpointer	N etnahtafoukhhebrew
N blackrectangle	N etnahtafoukhlefthebrew
N blackrightpointingpointer	N etnahtahebrew
N blacksmilingface	N fathaarabic
N blacksquare	N finalkaf
N blackuppointingtriangle	N finalkafdagesh
N bulletinverse	N finalkafhebrew
N cdot	N finalkafqamats
N compass	N finalkafqamatshebrew
N dagesh	N finalkafsheva
N dalet	N finalmem
N daletdagesh	N finalnun
N daletthatafpatah	N finalpe
N daletthatafpatahhebrew	N finaltsadi
N daletthatafsegol	N fivearabic
N daletthatafsegolhebrew	N forall
N dalethebrew	N fourarabic
N daletthiriq	N gcedilla
N daletthiriqhebrew	N gdot

N gimel	N holam
N gimeldagesh	N holam19
N gravecmb	N holam26
N haaltonearabic	N holam32
N hamzaarabic	N holamhebrew
N hamzadammaarabic	N holamnarrowhebrew
N hamzadammatanarabic	N holamquarterhebrew
N hamzafathaarabic	N ilde
N hamzafathatanarabic	N integralbottom
N hamzalowarabic	N integraltop
N hamzalowkasraarabic	N kaf
N hamzalowkasratanarabic	N kafdagesh
N hatafpatah	N kashidaautoarabic
N hatafpatah16	N kashidaautonosidebearingarabic
N hatafpatah23	N kcedilla
N hatafpatah2f	N lamed
N hatafpatahhebrew	N lameddagesh
N hatafpatahnarrowhebrew	N lamedhebrew
N hatafpatahquarterhebrew	N lamedholam
N hatafqamats	N lamedholamdagesh
N hatafqamats1b	N lamedholamdageshhebrew
N hatafqamats28	N laminitialarabic
N hatafqamats34	N lammeemjeeminitialarabic
N hatafqamatshebrew	N lcedilla
N hatafqamatsnarrowhebrew	N logicalnotreversed
N hatafqamatsquarterhebrew	N mahapakhhebrew
N hatafsegol	N mem
N hatafsegol17	N memdagesh
N hatafsegol24	N merkhahhebrew
N hatafsegol30	N merkhakefulahebrew
N hatafsegolhebrew	N middot
N hatafsegolnarrowhebrew	N munahhebrew
N hatafsegolquarterhebrew	N nbspace
N he	N ncedilla
N hedagesh	N newsheqelsign
N hehfinalalttwoarabic	N ninearabic
N het	N noonhehinitialarabic
N hiriq	N nun
N hiriq14	N nundagesh
N hiriq21	N odblacute
N hiriq2d	N onearabic
N hiriqhebrew	N overscore
N hiriqnarrowhebrew	N patah
N hiriqqarterhebrew	N patah11

N patah1d	N qubuts
N patah2a	N qubuts18
N patahhebrew	N qubuts25
N patahnarrowhebrew	N qubuts31
N patahquarterhebrew	N qubutshhebrew
N pe	N qubutsnarrowhebrew
N pedagesh	N qubutsquarterhebrew
N qamats	N quoteleftreversed
N qamats10	N rafe
N qamats1a	N rcedilla
N qamats1c	N reharabic
N qamats27	N resh
N qamats29	N reshhatafpatah
N qamats33	N reshhatafpatahhebrew
N qamatsde	N reshhatafsegol
N qamatshebrew	N reshhatafsegolhebrew
N qamatsnarrowhebrew	N reshhebrew
N qamatsqatanhebrew	N reshhiqiq
N qamatsqatannarrowhebrew	N reshhiqiqhebrew
N qamatsqatanquarterhebrew	N reshholam
N qamatsqatanwidehebrew	N reshholamhebrew
N qamatsquarterhebrew	N reshpatah
N qof	N reshpatahhebrew
N qofdagesh	N reshqamats
N qofhatafpatah	N reshqamatshebrew
N qofhatafpatahhebrew	N reshqubuts
N qofhatafsegol	N reshqubutshhebrew
N qofhatafsegolhebrew	N reshsegol
N qofhebrew	N reshsegolhebrew
N qofhiriqiq	N reshsheva
N qofhiriqiqhebrew	N reshshevahebrew
N qofholam	N reshtsere
N qofholamhebrew	N reviahebrew
N qofpatah	N samekh
N qofpatahhebrew	N samekhdagesh
N qofqamats	N segol
N qofqamatshebrew	N segol13
N qofqubuts	N segol1f
N qofqubutshhebrew	N segol2c
N qofsegol	N segolhebrew
N qofsegolhebrew	N segolnarrowhebrew
N qofsheva	N segolquarterhebrew
N qofshevahebrew	N sevenarabic
N qoftsere	N sfthyphen

N shaddaarabic
 N sheqel
 N sheva
 N sheva115
 N sheva15
 N sheva22
 N sheva2e
 N shevahebrew
 N shevanarrowhebrew
 N shevaquarterhebrew
 N shin
 N shindagesh
 N shindageshshindot
 N shindageshsindot
 N shinshindot
 N shinsindot
 N siluqhebrew
 N sixarabic
 N tav
 N tavgages
 N tavgagesh
 N tcedilla
 N tchehinitialarabic
 N tet
 N tetdagesh
 N tevirhebrew
 N thousandsseparatorarabic
 N threearabic
 N tildecmb
 N tipehahebrew
 N tsadi
 N tsadidagesh
 N tsere
 N tsere12
 N tsere1e
 N tsere2b
 N tserehebrew
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 N tserequarterhebrew
 N twoarabic
 N udblacute
 N vav
 N vavgagesh
 N vavgagesh65

N vavholam
 N yerahbenyomohebrew
 N yod
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 N zeroarabic
 D unicodes
 D cache
 F is_known
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T alternate
 F opentype
 T kern
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 F type1
 T multiple
 F opentype
 T substitution
 F opentype

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D colorschemes	
D data	
D designsizes	
D filenames	
F getcompositions	
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F designsizes	
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F featureset	F register
F filenames	S stepkey
F files	F dataset
F mathematics	S defaultbasealternate
F protrusions	S defaultnodealternate
F solutions	D enhancers
F treatments	D features
F typefaces	F getalternate
F load	F getgsub
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F register	F getmultiple
F registerpostprocessor	F getsubstitution
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B autoprefixed	F gpos_cursive
D cache	F gpos_mark2base
D features	F gpos_mark2ligature
F getkern	F gpos_mark2mark
T helpdata	F gpos_pair
D bothkerned	F gpos_single
D leftkerned	F gsub_alternate
D ligatures	F gsub_context
D rightkerned	F gsub_contextchain
D texligatures	F gsub_ligature
F load	F gsub_multiple
F setfeatures	F gsub_reversecontextchain
B syncspace	F gsub_single
N version	F load
T otf	F packoutlines
F addfeature	T readers
D cache	F addunicodetable
F collectlookups	D cache
T coverup	F cff
T actions	F checkhash
F alternate	F cmap
F kern	F compact
F ligature	F expand
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F pair	F getinfo
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F glyf	F unpack	
F gpos	N version	
F gsub	F scriptandlanguage	
F head	F setdynamics	
F hhea	F setfeatures	
F hmtx	T statistics	
F kern	D usedfeatures	
F loadfont	T tables	
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F math	D featuretypes	
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F os/2	F unpackoutlines	
F pack	N version	
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T streamreader	D features	
F close	N maxnestingdepth	
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F open	N version	
F read2dot14	T vf	
F readbyte	T combinations	
F readbytes	F combine	
F readcardinal	T combiner	
F readcardinal1	D commands	
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F readchar	N version	
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F readinteger	hashes	table
F readinteger1	D characters	
F readinteger2	D csnames	
F readinteger4	D descriptions	
F readstring	D dynamics	
F readtag	D emwidths	
F setposition	D exheights	
F size	D extensibles	
F skip	D features	
F skiplong	D identifiers	
F skipshort	D italics	
N tableversion	D lastmathids	

D marks		F addtounicode	
D modes		F fromunicode16	
D originals		F loadfile	
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T processes		F makenameparser	
D properties		D overloads	
D quads		F reset	
D resources		F tounicode	
T setdynamics		F tounicode16	
T shapes		F tounicode16sequence	
D spaces		metapost	table
D spacings		F boundingbox	
D unicodes		F boxtomp	
D variants		F draw	
D xheights		F fill	
helpers	table	F maxbounds	
F addprivate		F output	
F dimenfactor		F paths	
F expandglyph		F widthline	
F fontpatternhassize		F zeroline	
F getdigitwidth		mp	table
F getparameters		D cache	
F getprivatenode		B inline	
F hasprivate		N version	
F indextoslot		names	data table
F name		nulldata	data table
F nametoslot		protrusions	data table
F setdigitwidth		readers	table
F splitfontpattern		F afm	
F tochar		F check_lua	
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F characters		F opentype	
F descriptions		F otf	
F glyphs		F pfb	
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D category_to_placeholder		F ttc	
F format		F ttf	
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F register		select	table
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- T fallbacks
- F filterinput
- T methods
 - F default
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 - F selectfont
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 - F contextnumber
 - D contextnumbers
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F calculatemultipar

F fetchmultipar

F pair

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F point

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checksize	function
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copy	function
immediatewrite	function
keys	function
new	function
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ofindex	function
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totable	function
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F clone

F define

F defineset

F insert

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F storepreamble

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F setpagetransition

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F setcloseddocument

F setclosepage

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getcheckedparameters	function	F abjadnumerals
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F define		F allinputpaths
F list		F alphabetic
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F Alphabetic		F analyzelist
F Character		F analyzeregister
F Characters		F applytobox
F MPLIBconvertoutlinetext		F applytofirstcharacter
F MPc		F assignbuffer
F MPd		F autofinishstructurelevels
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F MPLl		F autonextstructurelevel
F MPLr		F autosetups
F MPLs		F autostarttext
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F MPp		F averagecharwidth
F MPpardata		F bitmapimage
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F MPpos		F bposcolumn
F MPposset		F bposcolumnregistered
F MPPr		F btxabbreviatedjournal

F btxaddentry	F btxsetdataset
F btxaddjournal	F btxsetentry
F btxauthor	F btxsetregister
F btxauthorfield	F btxsetspecification
F btxauthorstoregister	F btxsingularorplural
F btxcollectlistentries	F btxstoregister
F btxcurrentfirstnames	F btxusedataset
F btxcurrentinitials	F btxuservariable
F btxcurrentjuniors	F buildtextaccent
F btxcurrentsurnames	F character
F btxcurrentvons	F characters
F btxdetail	F chardescription
F btxdirect	F checkcountersetup
F btxdoif	F checkedconversion
F btxdoifelse	F checkedpagefloat
F btxdoifelsecombiinlist	F checkinjector
F btxdoifelsesameasprevious	F checkinterfacechain
F btxdoifelseuservariable	F checknextinjector
F btxdoifnot	F checkpreviousinjector
F btxexpandedjournal	F checktwopassdata
F btxfetchlistentries	F chemicalcomponent
F btxfield	F chinesenumerals
F btxfieldname	F cleanfontname
F btxfieldtype	F cleanupbox
F btxfirstofrange	F cleanuplayers
F btxflush	F clonefield
F btxflushlistcombi	F collectfloat
F btxflushlistentry	F collecthelp
F btxflushmarked	F colorcomponents
F btxflushpages	F concatcommalist
F btxfoundname	F consultfloat
F btxfoundtype	F convertbtxdatasettoxml
F btxhandlecite	F converteddimen
F btxhandlenocite	F converttmpstopdf
F btxlastofrange	F copyposition
F btxlistvariant	F cos
F btxloaddefinitionfile	F cosd
F btxloadjournalist	F countervalue
F btxloadreplacementfile	F counttwopassdata
F btxoneorrange	F currentcomponent
F btxpreparelistentries	F currentdate
F btxremapauthor	F currentdesignsize
F btxsavedataset	F currentenvironment
F btxsavejournalist	F currentposthyphenchar

F currentprehyphenchar	F defineprocesscolorglobal
F currentproduct	F defineprocesscolorlocal
F currentproject	F defineprogram
F currentreferenceorder	F definereference
F currentsectiontolist	F defineregister
F datasetvariable	F definerule
F dayname	F definesectionlevels
F decimals	F defineselectfont
F decrementcounter	F defineshift
F decrementedcounter	F definesnapmethod
F decrementsubcounter	F definespotcolorglobal
F defineaccents	F definestructureblock
F defineattribute	F definestructureset
F definebreakpoint	F definetransparency
F definebreakpoints	F definetwopasslist
F definecharacterspacing	F definetypeface
F definechemical	F defineviewerlayer
F defineconversion	F depthnumber
F definecounter	F digits_normal
F definedlayoutcomponent	F digits_reverse
F definefallbackfamily	F disableautofontscript
F definefield	F disabledirectives
F definefieldset	F disableexperiments
F definefilefallback	F disablejobsave
F definefilesynonym	F disableparbuilder
F definefont_one	F disableregime
F definefont_two	F disablespellchecking
F definefontfamily	F disablestatetriggering
F definefontfeature	F disablestream
F definefontsolution	F disabletrackers
F definehyphenationfeatures	F discardfromlist
F defineinsertion	F doanalyzeframedbox
F defineintermediatecolor	F doifcounter
F definelabels	F doifelseblack
F definelanguage	F doifelsebuffer
F definelinkedlist	F doifelsecharinfont
F definemarking	F doifelsecommon
F definemetafont	F doifelsecontinnewithfile
F definemultitonecolorglobal	F doifelseconverter
F definenamespace	F doifelsecounter
F definenote	F doifelsecurrentfonthasfeature
F defineparallel	F doifelsedrawingblack
F defineparbuilder	F doifelsefieldcategory
F defineprocesscolordummy	F doifelsefiledefined

F doifelsefileexist	F doifsame
F doifelsefirstchar	F doprocesstypescriptfile
F doifelsefontpresent	F doreshapeframedbox
F doifelseinelement	F dosaveposition
F doifelseinputfile	F dosavepositionplus
F doifelseinset	F dosavepositionwhd
F doifelseintwopassdata	F dosetposition
F doifelseleapyear	F dosetpositionbox
F doifelselisthasentry	F dosetpositionplus
F doifelselisthasnumber	F dosetpositionstrut
F doifelselisthaspage	F dosetpositionwhd
F doifelselisthastitle	F dostarttextfile
F doifselocfile	F dostoptextfile
F doifelsemarking	F elapsedtime
F doifelsemessage	F enableasciimode
F doifelseobject	F enableautofences
F doifelseolderversion	F enableautofontscript
F doifelseoverlapping	F enablebackgroundalign
F doifelseparallel	F enablebackgroundboxes
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F doifelseposition	F enablecrlf
F doifelsepositiononpage	F enabledirectives
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F doifelsesynonymshown	F enablespellchecking
F doifelsesynonymused	F enablestatetriggering
F doifelseurldefined	F enablestream
F doifelseutfmathabove	F enabletrackers
F doifelseutfmathaccent	F enabletransparency
F doifelseutfmathbelow	F enableutf
F doifelseutfmathfiller	F enhancelinkedlist
F doifelsevisualizer	F enhancelist
F doiffieldsetelse	F enhancereference
F doifnotcounter	F enhanceregister
F doifnotecontent	F eposcolumn
F doifnoteonsamepageasprevious	F eposcolumnregistered
F doifnotsame	F erasebuffer
F doifposition	F execute

F expandcurrentreference	F flushpostponednotes
F exportformdata	F flushstream
F exportreferences	F flushstreamcopy
F extendregister	F fontchar
F extensiblecode	F fontcharbyindex
F featureattribute	F fontcollectionclone
F featurelist	F fontcollectiondefine
F feedback	F fontcollectionprepare
F fetchallmarks	F fontcollectionregister
F fetchmultipar	F fontcollectionreport
F fetchmultishape	F fontcollectionreset
F fetchonemark	F fontlookupgetkey
F fetchposboxes	F fontlookupgetkeyofindex
F fetchtwomarks	F fontlookupinitialize
F figure_check	F fontlookupnoffound
F figure_done	F forceendjob
F figure_dummy	F forcequitjob
F figure_identify	F formatcolor
F figure_include	F formatgray
F figure_mergegoodies	F from
F figure_pop	F getbidimode
F figure_push	F getbodyfontsizes
F figure_reset	F getbuffer
F figure_scale	F getbufferctxlua
F figurefilename	F getbuffermkvi
F figurefilepath	F getcheckedinterfaceparameters
F figurefiletype	F getcurrentprefixspec
F figurerequest	F getcurrentreferencemetadata
F figurestatus	F getdefaultfieldvalue
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F firstsubcountervalue	F getfullstructurenumber
F flushfloat	F getinternallistreference
F flushlabeledfloat	F getlasttwopassdata
F flushnotes	F getmarking
F flushpageinjectionsafter	F getmathdomain
F flushpageinjectionsbefore	F getmathitalics
F flushpostponedblocks	F getmessage

F getmpextensions	F injectcurrentreferencehtdp
F getmprandomnumber	F injectreference
F getnaturaldimensions	F inlinechemical
F getnotestate	F inputfilebarename
F getobjectdimensions	F inputfilename
F getobjectreference	F inputfilerealsuffix
F getobjectreferencepage	F inputfilesuffix
F getprivatechar	F insertattachment
F getprogram	F insertcomment
F getrandomdimen	F insertfield
F getrandomfloat	F insertionnumber
F getrandomnumber	F insertrenderingwindow
F getrandomseed	F installedlanguages
F getreadfilename	F installtexdirective
F getsomefullstructurenumber	F installtextracker
F getsomestructurenumber	F jobfilename
F getspecificstructuretitle	F jobfilesuffix
F getstructurelevel	F languagenumber
F getstructurenumber	F lastcountervalue
F getsubstring	F lastsubcountervalue
F gettexbuffer	F lchexnumber
F gettwopassdata	F lchexnumbers
F gettwopassdatalist	F leapyear
F geturl	F linenumbersstageone
F getvisual	F linenumbersstagetwo
F hboxtovbox	F listgroupindex
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F initializejob	F loadluamodule
F initializemathdomain	F loadmapfile
F initializemathitalics	F loadmapline
F initializestream	F loadspellchecklist
F initializetexdirectives	F loadtypescriptfile
F initializetextrackers	F loadvisualizer
F injectcurrentreference	F locatefilepath

F locfilename	F mpflushliteral
F lower	F mpflushreset
F lpdf_adddocumentcolorspace	F mpgettext
F lpdf_adddocumenttextgstate	F mpgraphic
F lpdf_adddocumentpattern	F mpoptions
F lpdf_adddocumentshade	F mprunset
F lpdf_addpageattributes	F mpruntab
F lpdf_addpageresources	F mprunvar
F lpdf_addpagesattributes	F mpsetclippath
F lpdf_addtocatalog	F mpsetoutercolor
F lpdf_addtoinfo	F mpsetsxsy
F lpdf_addtonames	F mpsettext
F lpdf_collectedresources	F mptexget
F lpdf_color	F mptexreset
F luascript	F mptexset
F luathread	F mptexsetfrombuffer
F lxmlid	F namedstructureuservariable
F markcontent	F namedstructurevariable
F markingnumber	F naturalwd
F markingtitle	F nbfs
F markinjector	F nextcountervalue
F markregionbox	F nextparallel
F markregionboxcorrected	F nextsubcountervalue
F markregionboxtagged	F nofdays
F markvisualfonts	F nofstackedfloats
F mathfraction	F notedeltapage
F mathrenderset	F notelistindex
F message	F notenumberpage
F metapostescaped	F noteprefixednumber
F metapostformatted	F notesymbolpage
F metapostgraphformat	F notetitle
F minute	F ntimes
F mixcleanup	F number
F mixfinalize	F numbers
F mixflushlist	F octnumber
F mixflushrest	F octstringtonumber
F mixgetsplit	F operatingsystem
F mixsetsplit	F ordinal
F mixstate	F outputfilename
F molecule	F overloadbookmark
F month	F overloaderror
F monthmnem	F pagestaterealpage
F monthname	F parpos
F mpcolor	F pdfrotation

F pdfstartmatrix	F purefontname
F pdfstartmirroring	F pushfloat
F pdfstartrotation	F pushhyphenation
F pdfstartscaling	F pushitaliccorrection
F pdfstopmatrix	F pushlist
F pdfstopmirroring	F pushpath
F pdfstoprotation	F pushrandomseed
F pdfstopscaling	F pushreferenceprefix
F percentageof	F pushregime
F pgfxcolorspec	F pushsectionblock
F pickupbuffer	F pushstream
F pickupmarkedcontent	F rawcharacter
F pickuppunctuation	F rawcountervalue
F placeparallel	F rawdate
F popfloat	F rawsubcountervalue
F pophyphenation	F referencepagedetail
F popitaliccorrection	F referencepagestate
F poplist	F referencerealpage
F poppath	F registerattachment
F poprandomseed	F registerbackendsymbol
F popreferenceprefix	F registerbodyfontsize
F popregime	F registerbookmark
F popsectionblock	F registerbuttons
F postponeotes	F registercolorintent
F prefixedconverted	F registeredviewerlayer
F presetsymbollist	F registerfigurepattern
F presettabulate	F registerfiguresuffix
F prevcountervalue	F registerhelp
F previoussubcountervalue	F registerhyphenationexception
F processbodyfontsizes	F registerhyphenationpattern
F processbuffer	F registeritemgroup
F processcolorcomponents	F registerlanguagefeatures
F processedfile	F registerlinenumbers
F processedfiles	F registermaintextcolor
F processfile	F registermpyfile
F processfilemany	F registernamedlua
F processfilenone	F registernamespace
F processfileonce	F registerobject
F processjob	F registerpostponedblock
F processlist	F registerreferencedobject
F processregister	F registerrendering
F processsplit	F registersection
F processsynonyms	F registershownsynonym
F profilebox	F registerstructureprocessor

F registersynonym	F runbuffer
F registerunit	F runcontextjob
F registerusedsynonym	F safechar
F registeruserdata	F savebuffer
F relatemarking	F savecounter
F renderingvar	F savecurrentattributes
F replacefeature	F savedlistnumber
F replacepospxywhd	F savedlistprefixednumber
F reportstructure	F savedlisttitle
F resavefloat	F savefloat
F resetcharacteralign	F savemargindata
F resetcounter	F savenote
F reseteffect	F savepagedata
F resetfeature	F savepageinjections
F resetfontfeature	F saveparallel
F resetfontsolution	F savespecificfloat
F resetinjector	F savestructureblock
F resetitaliccorrection	F savetaggedtwopassdata
F resetmapfiles	F savetwopassdata
F resetmarking	F savevariable
F resetmathattributes	F second
F resetmathitalics	F selectstructureblock
F resetnullfont	F setactivecatcodes
F resetparallel	F setbreakpoints
F resetpath	F setcharacteralign
F resetprevdepth	F setcharactercasing
F resetreference	F setcharactercleaning
F resetscript	F setcharacterkerning
F resetshowsynonyms	F setcharacterspacing
F resetstructureprocessor	F setcharacterstripping
F resetsubcounter	F setcloseddocumentaction
F resettimer	F setclosepageaction
F resettrackers	F setcolormodel
F resetusedsynonyms	F setcounter
F restartcounter	F setdataset
F restartsubcounter	F setdigitsmanipulation
F restorecounter	F setdirection
F restorecurrentattributes	F setdocumentargument
F restorenote	F setdocumentcommandline
F restoreobject	F setdocumentctxfile
F reuserandomseed	F setdocumentdefaultargument
F revivefeature	F setdocumentenvironments
F romannumerals	F setdocumentfilename
F rounded	F setdocumentfilenames

F setdocumentmodes	F setnextreferenceorder
F setdocumentmodules	F setnotestate
F seteffect	F setnotesymbolpage
F setelementuserproperties	F setopendocumentaction
F setfieldcalculationset	F setopenpageaction
F setfigurelookuporder	F setowncounter
F setfigurepaths	F setownsubcounter
F setfirstline	F setpagecolormodel
F setfontfeature	F setpagestate
F setfontofid	F setpagestaterealpageno
F setfontsolution	F setpagetransition
F setformat	F setparbuilder
F setformsmethod	F setprofile
F sethyphenatedurlcharacters	F setrandomseed
F sethyphenationfeatures	F setrealign
F sethyphenationmethod	F setrealspaces
F setinitial	F setreferencearguments
F setinitialsectionblock	F setreferenceattribute
F setinjector	F setreferenceoperation
F setinnerreferencemethod	F setregionbox
F setinsertionlocation	F setregionboxtagged
F setinterfaceconstant	F setregistermethod
F setinterfaceelement	F setreplacements
F setinterfacemessage	F setscript
F setinterfacemessages	F setsectionblock
F setinterfacevariable	F setsectionentry
F setinternalreference	F setstructureblockstate
F setitaliccorrection	F setstructurelevel
F setjavascriptpreamble	F setstructurenumber
F setjobcomment	F setsubcounter
F setlanguageexceptions	F settagaspect
F setlanguagesynonym	F settagcombination
F setlettercatcodes	F settagdelimitedsymbol
F setmarking	F settagfigure
F setmathalphabet	F settaggedmetadata
F setmathalternate	F settaghighlight
F setmathattribute	F settagitem
F setmathdirection	F settagitemgroup
F setmathdomain	F settaglist
F setmathitalics	F settagnotation
F setmathstyle	F settagnotationsymbol
F setmpextensions	F settagproperty
F setnegative	F settagproperty_b
F setnextinternalreference	F settagproperty_n

F settagregister	F startcolorset
F settagsorting	F startcomponent
F settagsubsentencesymbol	F startenvironment
F settagsynonym	F startfontsolution
F settagtablecell	F startparbuilder
F settagtabulatecell	F startproduct
F setupbookmarks	F startproject
F setupcanvas	F startregime
F setupcharacterspacing	F startsectionlevel
F setupexport	F startstream
F setupfontexpansion	F starttag
F setupfontprotrusion	F starttag_c
F setupidentity	F starttag_d
F setupinsertion	F starttag_u
F setupitaliccorrection	F starttext
F setuplinenumbering	F startviewerlayer
F setuserinterface	F stopactualtext
F setvalidinterfacekeys	F stopchemical
F setvisual	F stopcolorset
F setvisualfont	F stopcomponent
F setvisuallayer	F stopenvironment
F setxmpfile	F stopfontsolution
F showassignerror	F stopparbuilder
F showattributes	F stopproduct
F showcounter	F stopproject
F showdebuginfo	F stopregime
F showdirectives	F stopsectionlevel
F showdiscretionaries	F stopstream
F showexperiments	F stoptag
F showhyphenatedinlist	F stoptext
F showhyphenationtrace	F stopviewerlayer
F showinjector	F storejavascriptcode
F showjustification	F storejavascriptpreamble
F showlogcategories	F storenote
F showmessage	F storeregister
F showtrackers	F strdp
F sin	F strhd
F sind	F strht
F splitfilename	F strip
F spotcolorname	F structureautocatcodedget
F spotcolorparent	F structurecatcodedget
F spotcolorvalue	F structuregivencatcodedget
F startactualtext	F structurenumber
F startchemical	F structuretitle

F structureuservariable	F useenvironment
F structurevariable	F usefigurebase
F strwd	F usefile
F subcountervalue	F usejavascriptpreamble
F subcountervalues	F usejavascriptscripts
F subsubcountervalues	F useluafile
F subtractfeature	F useluafileonce
F synchronizemarking	F useluamodule
F synchronizestream	F usemodules
F synonymmeaning	F usepath
F synonymname	F useproduct
F systemlog	F useproject
F tagmfunctionlab	F usesubpath
F tagmfunctiontxt	F usesymbols
F tan	F usetexfile
F tand	F usetexfileonce
F texdefinition_one	F useurl
F texdefinition_two	F usexmlfile
F textime	F usexmlfileonce
F thefirstcharacter	F usezipfile
F theremainingcharacters	F utfchar
F tochar	F utfmathclass
F transparencycomponents	F utfmathcommand
F truefilename	F utfmathcommandabove
F type	F utfmathcommandbelow
F typebuffer	F utfmathcommandfiller
F typefile	F utfmathfiller
F uchar	F utfmathstretch
F uchexnumber	F vboxlisttohbox
F uchexnumbers	F verbose
F undefinechemical	F vspacing
F unicodechar	F vspacingcollapse
F unihex	F vspacingcollapseonly
F unit_normal	F vspacingdefine
F unit_reverse	F vspacingsetamount
F unloadlanguage	F vspacingsnap
F upper	F way
F useMPLibrary	F weekday
F useanyfile	F weekdayname
F useanyfileonce	F writestatus
F usecldfile	F x_table_c
F usecldfileonce	F x_table_cleanup
F usecolors	F x_table_construct
F usecomponent	F x_table_create

F x_table_finish_row	F xmldoifelse
F x_table_flush	F xmldoifelseempty
F x_table_init_construct	F xmldoifelseselfempty
F x_table_init_reflow_height	F xmldoifelsetext
F x_table_init_reflow_height_option	F xmldoifempty
F x_table_init_reflow_width	F xmldoifnot
F x_table_init_reflow_width_option	F xmldoifnotempty
F x_table_next_row	F xmldoifnotselfempty
F x_table_next_row_option	F xmldoifnottext
F x_table_r	F xmldoifselfempty
F x_table_reflow_height	F xmldoiftext
F x_table_reflow_width	F xmlelement
F x_table_set_construct	F xmlfilter
F x_table_set_reflow_height	F xmlfilterlist
F x_table_set_reflow_width	F xmlfirst
F xmladdindex	F xmlflush
F xmlafterdocumentsetup	F xmlflushcontext
F xmlafterssetup	F xmlflushdocumentsetups
F xmlall	F xmlflushnewline
F xmlappenddocumentsetup	F xmlflushspacewise
F xmlappendsetup	F xmlfunction
F xmlapplyselectors	F xmlgetindex
F xmlatt	F xmlinclude
F xmlattdef	F xmlincludeoptions
F xmlattribute	F xmlinclusion
F xmlattributedef	F xmlinclusions
F xmlbadinclusions	F xmlindex
F xmlbeforedocumentsetup	F xmlinfo
F xmlbeforesetup	F xmlinlineverbatim
F xmlchainatt	F xmlinstalldirective
F xmlchainattdef	F xmllast
F xmlchecknamespace	F xmlload
F xmlcommand	F xmlloadbuffer
F xmlconcat	F xmlloaddata
F xmlconcatrange	F xmlloaddirectives
F xmlcontext	F xmlloadregistered
F xmlcount	F xmlmain
F xmldelete	F xmlmatch
F xmldirect	F xmlname
F xmldirectives	F xmlnamespace
F xmldirectivesafter	F xmlnonamespace
F xmldirectivesbefore	F xmlpos
F xmldisplayverbatim	F xmlprependdocumentsetup
F xmldoif	F xmlprependsetup

F xmlraw		setuserinterface	function
F xmlrefatt		setvalidkeys	function
F xmlregisterns		setvariable	function
F xmlremapname		showmessage	function
F xmlremapnamespace		storedscanners	data table
F xmlremovedocumentssetup		strings	table
F xmlremovesetup		syntax	data table
F xmlresetdocumentsetups		tolist	function
F xmlresetinjectors		translations	data table
F xmlsave		variables	data table
F xmlsetcommandtonone		writestatus	function
F xmlsetcommandtotext			
F xmlsetentity			
F xmlsetinjectors			
F xmlsetsetup			
F xmlsnippet			
F xmlstartraw			
F xmlstarttiming			
F xmlstopraw			
F xmlstoptiming			
F xmlstrip			
F xmlstripanywhere			
F xmlstripnolines			
F xmlstripped			
F xmlstrippednolines			
F xmltag			
F xmltexentity			
F xmltext			
F xmltobuffer			
F xmltobufferverbose			
F xmltofile			
F xmltoparameters			
F xmlverbatim			
F xmlwithindex			
F year			
setconstant	function		
setcount	function		
setdimen	function		
setelement	function		
setformat	function		
setmacro	function		
setmessage	function		
setmessages	function		
settranslation	function		

io (basic lua)

ask	function
bytes	function
characters	function
close	function
exists	function
fileseparator	string
flush	function
input	overloaded function
lines	overloaded function
loadchunk	function
loaddata	function
loadlines	function
noflines	function
open	overloaded function
output	overloaded 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

jit (context)

arch	string
attach	function
flush	function
off	function
on	function
opt	table
F start	
os	string
status	function
version	string
version_num	number

job (context)

comment	function	F find	
datasets	table	F first	
D collected		F get	
F extend		F getcollected	
F getdata		F getdata	
F setdata		F getfield	
D tobesaved		F gettobesaved	
disablesave	function	F inlist	
fileobjreferences	table	F last	
D collected		F list	
D tobesaved		F save	
files	table	F savetagged	
D collected		D tobesaved	
F context		positions	table
B forcerun		F b_col	
F run		F b_region	
D tobesaved		F c	
initialize	function	D collected	
load	function	F column	
loadother	function	F copy	
objects	table	F depth	
D collected		F e_col	
F get		F e_region	
F number		F enhance	
F page		F extra	
F save		F get	
F set		F getreserved	
D tobesaved		F hangafter	
pack	boolean	F hangindent	
packversion	number	F height	
pagestates	table	F hsize	
D collected		F leftskip	
F extend		F lowerleft	
F realpage		F lowerright	
F setstate		F markregionbox	
D tobesaved		F n	
passes	table	F onsamepage	
F check		F overlapping	
D collected		F p	
F count		F page	
F define		F paragraph	

F parindent	
F position	
F r	
F region	
F replace	
F rightskip	
F set	
F setall	
F setdim	
F setregionbox	
D tobesaved	
F upperleft	
F upperright	
S used	
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 getchecksum	
F makechecksum	
F restore	
F save	
F setchecksum	
D tobesaved	
version	number

lang (basic tex)

clean	function
clear_hyphenation	function
clear_patterns	function
exceptions	function
gethjcode	function
hyphenate	function
hyphenation	function
hyphenationmin	function
id	function
new	function
patterns	function
postexhyphenchar	function
posthyphenchar	function
preexhyphenchar	function
prehyphenchar	function
sethjcode	function

languages (context)

associate	function	F registerpattern	
associated	data table	F setfeatures	
association	function	installed	function
counters	data table	labels	table
current	function	F define	
data	data table	F split	
decimals	data table	lefthyphenmin	function
define	function	loadable	function
expand	function	loadwords	function
expanders	table	logger	table
frequencies	table	F report	
F averagecharwidth		numbers	data table
F getdata		postexhyphenchar	function
getdata	function	posthyphenchar	function
getnumber	function	preexhyphenchar	function
hyphenate	function	prehyphenchar	function
hyphenators	table	registered	data table
T dictionaries		replacements	table
D featuresets		F add	
F handler		F handler	
T methods		F set	
F expanded		righthyphenmin	function
B none		serializediscretionary	function
F original		setexceptions	function
F tex		setsynonym	function
F traditional		showdiscretionaries	function
B optimize		unload	function
F popmethod		version	number
F pushmethod		visualizediscretionaries	function
F setmethod		words	table
F setup		F check	
F showhyphenationtrace		T data	
T traditional		F disable	
F definefeatures		F enable	
F gettrace		T enablers	
F hyphenate		B enables	
F injecthyphens		F found	
F installmethod		F load	
F lasttrace		T methods	
F loadpatterns		N threshold	
F registerexception			

layouts (context)

```
status table
  F isleftpage
  F leftorrightpagection
```

lfs (extra lua)

attributes	overloaded function
chdir	overloaded function
currentdir	function
dir	overloaded function
isdir	overloaded function
isfile	overloaded function
lock	function
lock_dir	overloaded function
mkdir	overloaded function
mkdirs	function
readlink	overloaded function
rmdir	overloaded function
setmode	overloaded function
shortname	overloaded function
symlinkattributes	overloaded function
touch	overloaded 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	stripcss	function
convert	function	tv	function
convertfile	function	type	function
convertstring	function	urlescape	function
einject	function	variable	function
eprint	function	variables	table
escape	function		S color-background-blue
finalized	function		S color-background-body
finject	function		S color-background-green
fprint	function		S color-background-main
get	function		S color-background-purple
getvariables	function		S color-background-yellow
htmfile	function		S title-default
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		
make	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		

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
setformatters	function
setlogfile	function
setmessenger	function
setprocessor	function
setprogram	function
settarget	function
settimedlog	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	finalizedocument	function
adddocumentcolorspace	function	finalizepage	function
adddocumenttextgstate	function	finishtransparencycode	function
adddocumentpattern	function	flushobject	function
adddocumentshade	function	flushstreamfileobject	function
addtocatalog	function	flushstreamobject	function
addtoinfo	function	formats	data table
addtonames	function	frompdfdoc	function
addtopageattributes	function	fromsixteen	function
addtopageresources	function	gethpos	function
addtopagesattributes	function	getmatrix	function
addxmpinfo	function	getpos	function
annotationspecification	function	getvpos	function
array	function	graycode	function
boolean	function	hasmatrix	function
border	function	id	function
checkedkey	function	injectxmpinfo	function
checkedvalue	function	insertxmpinfo	function
circularshade	function	layerreference	function
cmykcode	function	limited	function
collectedresources	function	linearshade	function
color	function	nametree	function
colorspace	function	null	function
colorspaceconstants	data table	number	function
colorspec	function	pagedestinations	data table
colorvalue	function	pagereference	function
colorvalues	function	pagereferences	data table
constant	function	pdfcolor	function
delayedobject	function	pdftimestamp	function
destinationspecification	function	protectresources	boolean
dictionary	function	rectangle	function
docstring	function	reference	function
epdf	table	registerannotation	function
F contenttotext		registerdestination	function
F expand		registerdocumentfinalizer	function
F expanded		registerpagefinalizer	function
F getpagecontent		reserveobject	function
F getstructure		rgbcode	function
F load		rotationcm	function
F unload		shareobject	function
escaped	function	shareobjectreference	function

spotcode	function
stream	function
string	function
timestamp	function
toeight	function
topdfdoc	function
tosixteen	function
transform	function
transparency	function
transparencycode	function
transparencygroups	table
B none	
transparencyvalue	function
unicode	function
verbose	function

lpeg (basic lua)

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

luatex (context)

cleanuptempfiles	function
registerstartactions	function
registerstopactions	function
registertempfile	function
starttime	number

lxml (context)

addindex	function	flush	function
all	function	flushlinewise	function
applyfunction	function	flushsetups	function
applyselectors	function	flushspacewise	function
att	function	get_id	function
attribute	function	getid	function
badinclusions	function	getindex	function
chainattribute	function	id	function
checkindex	function	idsplitter	userdata
collected	function	include	function
command	function	inclusion	function
concat	function	inclusions	function
concatrange	function	index	function
content	function	info	function
context	function	inlineverbatim	function
convert	function	installsetup	function
count	function	last	function
delete	function	load	function
direct	function	loadbuffer	function
directives	table	loaddata	function
F after		loaded	table
F before		loadregistered	function
F handle		main	function
F load		match	function
F setup		name	function
displayverbatim	function	namespace	function
doif	function	nonspace	function
doifelse	function	pos	function
doifelseempty	function	position	function
doifsetext	function	raw	function
doifempty	function	rawroot	function
doifnot	function	refatt	function
doifnotempty	function	register	function
doifnottext	function	registerentity	function
doiftext	function	removesetup	function
element	function	resetcdata	function
elements	function	resetsetups	function
entities	data table	resolvedentity	function
filter	function	root	function
filterlist	function	save	function
first	function	serialize	function

setaction	function
setcdata	function
setcommandtonone	function
setcommandtotext	function
setescapedentities	function
setsetup	function
snippet	function
sorters	table
F add	
F compare	
F flush	
F reset	
F show	
F sort	
splitid	function
startraw	function
stopraw	function
store	function
strip	function
stripped	function
tag	function
text	function
tobuffer	function
tofile	function
toparameters	function
toverbatim	function
verbatim	function
withindex	function
xmltexhandler	data table

math (basic lua)

abs	function
acos	function
asin	function
atan	function
atan2	function
ceil	function
ceiling	function
cos	function
cosd	function
cosh	function
deg	function
div	function
even	function
exp	function
floor	function
fmod	function
frexp	function
huge	number
initialseed	number
ldexp	function
log	function
log10	function
max	function
min	function
mod	function
modf	function
odd	function
pi	number
pow	function
rad	function
random	function
randomseed	function
round	function
setrandomseedi	function
sin	function
sind	function
sinh	function
sqrt	function
tan	function
tand	function
tanh	function

mathematics (context)

addfallbacks	function	renderings	table
alphabets	data table	D mappings	
alternatives	data table	D numbers	
big	function	D sets	
boldmap	data table	renderset	function
categories	table	resetattributes	function
D functions		resetitalics	function
charactersets	data table	scaleparameters	function
checkaccentbaseheight	function	setalternate	function
checkprivateparameters	function	setdomain	function
classes	data table	setitalics	function
codes	data table	sets	data table
define	function	styles	data table
dimensions	function	syncboth	function
domains	table	syncname	function
extensiblecode	function	syncstyle	function
extensibles	data table	toname	function
extrabase	number	tostyle	function
extras	table	tweakaftercopyingfont	function
F add		tweakbeforecopyingfont	function
F copy		tweaks	table
fallbacks	table	utfmathaccent	function
F apply		utfmathclass	function
F install		utfmathcommand	function
fallbackstyleattr	function	utfmathfiller	function
families	data table	utfmathstretch	function
gaps	data table		
getboth	function		
getdomain	function		
getitalics	function		
getstyle	function		
horizontalcode	function		
initializeparameters	function		
injectfallbacks	function		
makefont	function		
mapremap	data table		
overloaddimensions	function		
overloadparameters	function		
privatebase	number		
registerdomain	function		
remapalphabets	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	gettext	function
checkformat	function	graphic	function
checktexts	function	graphic_base_pass	function
collapse	boolean	initializescriptrunner	function
colorinitializer	function	instance	function
convert	function	intermediate	table
defaultformat	string	T actions	
defaultinstance	string	F makempy	
defaultmethod	string	lastlog	string
directrun	function	load	function
escaped	function	makempy	table
exectime	table	N nofconverted	
extensiondata	data table	F processgraphics	
filterclippath	function	F registerfile	
flush	function	maketext	function
flushers	table	metafun	table
T pdf		F interpolate	
F comment		F topath	
F flushfigure		method	number
F startfigure		mptopdf	table
F stopfigure		F convertmpstopdf	
F textfigure		N nofconverted	
flushliteral	function	n	number
flushnormalpath	function	nvformat	function
flushreset	function	optimize	boolean
fonts	table	parse	function
F define		pdfliterals	function
T flusher		pluginactions	function
F flushfigure		process	function
F startfigure		processplugins	function
F stopfigure		processspecial	function
N instances		properties	table
F process		quickanddirty	function
format	function	reducetogray	boolean
format_number	function	reporterror	function
format_string	function	reset	function
formatnumber	function	resetlastlog	function
getclippath	function	resetplugins	function
getextensions	function	runscript	function
getjobdata	function	scripterror	function
getstatistics	function	setextensions	function

setoutercolor	function
settext	function
showlog	boolean
svformat	function
tex	table
F get	
F reset	
F set	
F setfrombuffer	
texerrors	boolean
textextsdata	function
theclippath	function
totable	function
unload	function
untagvariable	function
variables	table

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

mp (context)

BackSpace	function	OverlayDepth	function
BaselineSkip	function	OverlayHeight	function
BodyFontSize	function	OverlayLineWidth	function
BottomDistance	function	OverlayOffset	function
BottomHeight	function	OverlayWidth	function
BottomSpace	function	PageDepth	function
CurrentColumn	function	PageFraction	function
CurrentHeight	function	PageNumber	function
CurrentWidth	function	PageOffset	function
CutSpace	function	PaperBleed	function
EmWidth	function	PaperHeight	function
ExHeight	function	PaperWidth	function
FooterDistance	function	PrintPaperHeight	function
FooterHeight	function	PrintPaperWidth	function
HSize	function	RealPageNumber	function
HeaderDistance	function	RightEdgeDistance	function
HeaderHeight	function	RightEdgeWidth	function
InPageBody	function	RightMarginDistance	function
InnerEdgeDistance	function	RightMarginWidth	function
InnerEdgeWidth	function	SpineWidth	function
InnerMarginDistance	function	StrutDepth	function
InnerMarginWidth	function	StrutHeight	function
LastPageNumber	function	TextHeight	function
LayoutColumnDistance	function	TextWidth	function
LayoutColumnWidth	function	TopDistance	function
LayoutColumns	function	TopHeight	function
LeftEdgeDistance	function	TopSkip	function
LeftEdgeWidth	function	TopSpace	function
LeftMarginDistance	function	VSize	function
LeftMarginWidth	function	_f_	function
LineHeight	function	boolean	function
MakeupHeight	function	dataset	function
MakeupWidth	function	datasets	table
NOfColumns	function	F load	
NOfPages	function	defaultcolormodel	function
OnOddPage	function	format	function
OnRightPage	function	formatted	function
OuterEdgeDistance	function	get	table
OuterEdgeWidth	function	F boolean	
OuterMarginDistance	function	F number	
OuterMarginWidth	function	F numeric	

F string	
get_outline_text	function
graphformat	function
n	function
numeric	function
pair	function
path	function
print	function
quadruple	function
quoted	function
report	function
size	function
triplet	function
tt_dimensions	function
tt_initialize	function

mplib (extra tex)

fields	function
finder	function
finders	table
F file	
get_boolean	function
get_number	function
get_numeric	function
get_string	function
new	overloaded function
pen_info	function
preprocessed	function
version	function

noads (context)

handlers table

- F alternates
- F autofences
- F classes
- F collapse
- F domains
- F families
- F italics
- F relocate
- F render
- F resize
- F showtree
- F tags
- F unscript
- F variants

process function

processnested function

processors table

- T autofences
- T collapse
- F mlist_to_hlist
- T relocate
- T render
- T resize
- T unscript

processouter function

node (basic tex)

copy	function	F is_direct	
copy_list	function	F is_node	
count	function	F kerning	
current_attr	function	F last_node	
dimensions	function	F length	
direct	table	F ligaturing	
F copy		F new	
F copy_list		F protect_glyph	
F count		F protect_glyphs	
F current_attr		F protrusion_skippable	
F dimensions		F remove	
F do_ligature_n		F set_attribute	
F effective_glue		F set_properties_mode	
F end_of_math		F setboth	
F first_glyph		F setbox	
F flush_list		F setchar	
F flush_node		F setdisc	
F flush_properties_table		F setfield	
F free		F setlink	
F get_attribute		F setnext	
F get_properties_table		F setprev	
F getboth		F setproperty	
F getbox		F slide	
F getchar		F tail	
F getdisc		F todirect	
F getfield		F tonode	
F getfont		F toString	
F getid		F traverse	
F getleader		F traverse_char	
F getlist		F traverse_id	
F getnext		F unprotect_glyphs	
F getprev		F unset_attribute	
F getproperty		F usedlist	
F getsubtype		F vpack	
F has_attribute		F write	
F has_field		do_ligature_n	function
F has_glyph		effective_glue	function
F hpack		end_of_math	function
F insert_after		family_font	function
F insert_before		fields	function
F is_char		first_glyph	function

flush_list	function	subtypes	function
flush_node	function	tail	function
flush_properties_table	function	tostring	function
free	function	traverse	function
get_attribute	function	traverse_char	function
get_properties_table	function	traverse_id	function
getboth	function	type	function
getchar	function	types	function
getfield	function	unprotect_glyphs	function
getfont	function	unset_attribute	function
getid	function	usedlist	function
getleader	function	vpack	function
getlist	function	whatsits	function
getnext	function	write	function
getprev	function		
getproperty	function		
getsubtype	function		
has_attribute	function		
has_field	function		
has_glyph	function		
hpack	function		
id	function		
insert_after	function		
insert_before	function		
is_char	function		
is_node	function		
kerning	function		
last_node	function		
length	function		
ligaturing	function		
mlist_to_hlist	function		
new	function		
next	function		
prev	function		
protect_glyph	function		
protect_glyphs	function		
protrusion_skippable	function		
remove	function		
set_attribute	function		
set_properties_mode	function		
setfield	function		
setproperty	function		
slide	function		
subtype	function		

nodes (context)

accentcodes	data table	fullhpack	function
aligned	function	getattr	function
append	function	getattribute	function
astable	function	getbox	function
basepoints	function	getchar	function
builders	table	getfield	function
F buildpage_filter		getfont	function
F vpack_filter		getid	function
codes	data table	getleader	function
concat	function	getlist	function
copy	function	getnext	function
copy_list	function	getprev	function
copy_spec	function	getskip	function
count	function	getsubtype	function
current_attr	function	gluecodes	data table
delete	function	glyphcodes	data table
destinations	table	glyphdir_is_equal	data table
N attribute		glyphdir_is_opposite	data table
T done		glyphdir_is_orthogonal	data table
F handler		handlers	table
T stack		F accessibility	
dimensionfields	data table	F alignbackgrounds	
dimensions	function	F backgrounds	
dir_is_pop	data table	F characters	
dir_negation	data table	F checkforleaks	
disccodes	data table	F checkglyphs	
discretionarycodes	data table	F cleanupbox	
do_ligature_n	function	F cleanuppage	
effective_glue	function	F export	
end_of_math	function	F finalize	
fencecodes	data table	F migrate	
fields	function	F protectglyphs	
fillcodes	data table	F stripping	
first_glyph	function	F unprotectglyphs	
firstcharacter	function	has_attribute	function
firstcharinbox	function	has_field	function
firstglyph	function	has_glyph	function
flush_list	function	hpack	function
flush_node	function	idstring	function
free	function	ignorablefields	data table
free_spec	function	injections	table

F copy		listcodes	data table
F getligaindex		listtoutf	function
F handler		load	function
F installnewkern		locate	function
F keepcounts		margincodes	data table
F reset		marginkerncodes	data table
F resetcounts		markers	table
F setcursive		F get	
F setkern		mathcodes	data table
F setligaindex		maxboxwidth	function
F setmark		mlist_to_hlist	function
F setpair		new	function
insert_after	function	noadcodes	data table
insert_before	function	nodecodes	data table
insert_list_after	function	nopts	function
installattributehandler	function	nuts	table
is_direct	function	F append	
is_display_math	function	F concat	
is_mirrored	data table	F copy	
is_node	function	F copy_list	
is_nut	function	F copy_properties	
is_rotated	data table	F count	
kerncodes	data table	F current_attr	
kerning	function	F delete	
keys	table	F dimensions	
T whatsit		F do_ligature_n	
last_node	function	F effective_glue	
leadercodes	data table	F end_of_math	
leftmarginwidth	function	F first_glyph	
ligaturing	function	F firstcharacter	
lines	table	F firstcharinbox	
T boxed		F firstglyph	
F register		F flush_list	
F setup		F flush_node	
F stage_one		F free	
F stage_two		F fullhpack	
D data		F getattr	
F finalize		F getattribute	
F number		F getboth	
N scratchbox		F getbox	
link	function	F getchar	
linked	function	F getdisc	
list	function	F getfield	
listablefields	data table	F getfont	

F getid	F lineskip
F getleader	F negatedglue
F getlist	F noad
F getnext	F pdfannotation
F getprev	F pdfdestination
F getprop	F pdfdirect
F getskip	F pdfliteral
F getsubtype	F pdfrestore
F has_attribute	F pdfsave
F has_field	F pdfsetmatrix
F has_glyph	F penalty
F hpack	F register
F insert_after	F rightmarginkern
F insert_before	F rightskip
F insert_list_after	F rule
F is_char	F shrink
F is_direct	F special
F is_display_math	F stretch
F is_node	F temp
F is_nut	F textdir
F kerning	F usage
F last_node	T userids
F leftmarginwidth	N margins.inline
F ligaturing	N property
F link	N splitters.one
F linked	N splitters.two
F locate	F userlist
F mlist_to_hlist	F usernumber
F nestedtracedslide	F userstring
F new	F usertokens
T pool	F vlist
F baselineskip	F zeroglue
F cleanup	F prepend
F disc	F protect_glyph
F fontkern	F protect_glyphs
F glue	F protrusion_skippable
F gluespec	F rawprop
F glyph	F reference
F hlist	F remove
F kern	F repackhlist
F latelua	F replace
F lateluafunction	F rightmarginwidth
F leftmarginkern	F set_attribute
F leftskip	F setattr

F setattrattribute
 F setattrattributes
 F setboth
 F setbox
 F setchar
 F setdisc
 F setfield
 F setlink
 F setnext
 F setprev
 F setprop
 F setunsetattributes
 F setvisual
 F slide
 F somepenalty
 F somespace
 F tail
 F takebox
 F theprop
 F tonode
 F tonodes
 F tonut
 F tosequence
 F toString
 F tracedslide
 F traverse
 F traverse_char
 F traverse_id
 T typesetters
 F tohbox
 F tohpack
 F tonodes
 F tovbox
 F tovpack
 F unprotect_glyphs
 F unset_attribute
 F unsetattribute
 F unsetattributes
 F untracedslide
 F usedlist
 F vianodes
 F vianuts
 F vpack
 F writable_spec

F write	
packlist	function
pardir_is_equal	data table
pardir_is_opposite	data table
pardir_is_parallel	data table
partextdir_is_equal	data table
penaltycodes	data table
plugindata	table
F finalizer	
F initializer	
S name	
T namespace	
N attribute	
D data	
F enable	
F handler	
F register	
D registered	
D values	
F processor	
points	function
pool	table
F baselineskip	
F cleanup	
F glyph	
F kern	
F latelua	
F lateluafunction	
F lineskip	
F pdfdirect	
F pdfliteral	
F pdfrestore	
F pdfsave	
F pdfsetmatrix	
F register	
F rule	
F special	
F usage	
F usernumber	
prepend	function
print	function
processors	table
B enabled	
F hpack_filter	

F post_linebreak_filter		shifts	table
F pre_linebreak_filter		D data	
F tracer		F define	
processwords	function	F enable	
properties	table	F handler	
T actions		show	function
F delayed		showboxes	function
F fdelayed		showcodes	function
F immediate		showlist	function
F attach		showsimplelist	function
T data		skipcodes	data table
F delayed		slide	function
protect_glyph	function	snapshots	table
protect_glyphs	function	F getparameters	
protrusion_skippable	function	F getsamples	
pts	function	F resetsamples	
radicalcodes	data table	F takesample	
reference	function	somepenalty	function
references	table	somespace	function
N attribute		striptdiscretionaries	function
T done		stripping	table
F handler		T glyphs	
T stack		F set	
remove	function	striprange	function
repackhlist	function	tail	function
replace	function	takebox	function
report	function	tasks	table
rightmarginwidth	function	F actions	
rulecodes	data table	F appendaction	
rules	table	F disableaction	
D data		F disablegroup	
F define		F enableaction	
F enable		F enablegroup	
F handler		F freeze	
save	function	F freezegroup	
serialize	function	F new	
serializebox	function	F prependaction	
set_attribute	function	F removeaction	
setattr	function	F replaceaction	
setattribute	function	F restart	
setattributes	function	F setaction	
setbox	function	F showactions	
setfield	function	F table	
setunsetattributes	function	texmdir_is_equal	data table

textdir_is_is	data table	F setlist	
textdir_is_opposite	data table	F setproperties	
textdir_is_parallel	data table	F start	
tobasepoints	function	T steppers	
tocentimeters	function	F check	
tociceros	function	F codes	
todidots	function	F features	
todimen	function	F font	
toinches	function	F glyphs	
tomillimeters	function	F message	
tonewciceros	function	F messages	
tonewdidots	function	F nofsteps	
tonode	function	F register	
tonodes	function	F reset	
tonut	function	F start	
topicas	function	F stop	
topoints	function	F stop	
toscaledpoints	function	T transparencies	
tosequence	function	F reset	
tostring	function	F set	
totable	function	F setlist	
totree	function	traverse	function
toutf	function	traverse_char	function
tracers	table	traverse_id	function
T characters		typesetters	table
F collect		F hbox	
F equal		F hpack	
F start		F tohbox	
F string		F tohpack	
F unicodes		F tonodes	
T colors		F tovbox	
F reset		F tovpack	
F set		F vpack	
F setlist		unprotect_glyphs	function
F fontchar		unset_attribute	function
T frequencies		unsetattribute	function
F register		unsetattributes	function
T pool		usedlist	function
T nodes		vianodes	function
F rule		vianuts	function
T nuts		visualizebox	function
F rule		visualizers	table
F resetproperties		F box	
F rule		F handler	

F markfonts	
F setfont	
F setlayer	
F setvisual	
vpack	function
whatcodes	data table
whatsitcodes	data table
whatsitters	table
T getters	
T dimensions	
T width	
T setters	
T dimensions	
T width	
writable_spec	function
write	function

number (context)

	function
basepoints	function
bit	function
bits	function
clearbit	function
dimenfactors	data table
formatted	function
hasbit	function
maxdimen	number
nopts	function
percent	function
points	function
pts	function
setbit	function
signed	function
sparseexponent	function
splitdimen	function
tobasepoints	function
tobitstring	function
tocentimeters	function
toxiceros	function
to didots	function
todimen	function
toevenhex	function
toinches	function
tomillimeters	function
tonewciceros	function
tonewdidots	function
tonumberf	function
tonumberg	function
topicsas	function
topoints	function
toscaled	function
toscaledpoints	function
toset	function
valid	function

objects (context)

data	table
dimensions	function
found	function
n	number
page	function
reference	function
register	function
restore	function

os (basic lua)

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

package (basic lua)

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

pagebuilders (context)

injections table

F flushafter
F flushbefore
F save

mixedcolumns table

F cleanup
F finalize
F getlist
F getrest
F getsplit
F setsplit

pdf (basic tex)

fontname	function	setmajorversion	function
fontobjnum	function	setminorversion	function
fontsize	function	setnames	overloaded function
getcatalg	function	setobjcompresslevel	function
getcompresslevel	function	setorigin	function
gethpos	function	setpageattributes	overloaded function
getinfo	function	setpageresources	overloaded function
getlastannot	function	setpagesattributes	overloaded function
getlastlink	function	settrailer	overloaded function
getlastobj	function	setxformattributes	function
getmajorversion	function	setxformresources	function
getmatrix	function	xformname	function
getminorversion	function		
getnames	function		
getobjcompresslevel	function		
getpageattributes	function		
getpageresources	function		
getpagesattributes	function		
getpos	function		
getretval	function		
gettrailer	function		
getversion	function		
getvpos	function		
getxformattributes	function		
getxformresources	function		
hasmatrix	function		
immediateobj	function		
mapfile	function		
mapline	function		
maxobjnum	function		
newcolorstack	function		
obj	function		
objtype	function		
pageref	function		
print	function		
refobj	function		
registerannot	overloaded function		
reserveobj	function		
setcatalg	overloaded function		
setcompresslevel	function		
setinfo	overloaded function		

pdfscanner (context)

scan function

physics (context)

units table
F registerunit
D tables

profiler (extra lua)

pause function
resume function
start function
stop function

publications (context)

addtexentry	function	S author
analyze	function	T categories
anywhere	function	T article
authorcache	data table	S category
authorcollapsers	data table	T extra
authorhashers	table	T fields
F invertedshort		S author
F normal		S editor
F normalinverted		S journal
F normalshort		S keywords
F short		S number
authormap	data table	S pages
authortoregister	function	S title
casters	table	S volume
F author		S year
F keyword		T optional
F pagenumber		T required
F range		T sets
checkeddataset	function	T author
citevariants	table	T virtual
F author		T book
F authornum		S category
F authoryear		T extra
F authoryears		T fields
F category		S address
F default		S author
F entry		S edition
F index		S editor
F keywords		S keywords
F num		S number
F page		S publisher
F short		S subtitle
F tag		S title
F textnum		S volume
F year		S year
collected	data table	T optional
components	table	T required
F author		T sets
concatstate	function	T author
converttoxml	function	T editionset
currentspecification	table	T virtual

T demo-a	T virtualfields	
S category	B authornum	
T extra	B authoryear	
T fields	B authoryears	
S author	B num	
S institution	B suffix	
S organization	datasets	table
S subtitle	detailed	table
S title	endnotes_to_btx	function
S year	enhancer	table
T optional	S arguments	
T required	T askip	
T sets	B dirty	
T author	T gskip	
T virtual	T kind	
T demo-b	T list	
S category	T system	
T extra	T order	
T fields	enhancers	table
S author	F details	
S institution	F order	
S organization	F suffixes	
S subtitle	finder	function
S title	firstofrange	function
S year	found	function
T optional	get	function
T required	getcasted	function
T sets	getdetail	function
T authors	getdirect	function
T virtual	getfaster	function
S comment	getfield	function
S copyright	getfuzzy	function
T fields	getindex	function
S name	inspectors	data table
T types	journals	table
S author	F abbreviated	
S editor	F add	
S keywords	F expanded	
S number	F load	
S page	F save	
S pages	lastofrange	function
S volume	lists	table
S version	F collectentries	
D virtual	F combiinlist	

F fetchentries		okay	function
F filterall		oneorange	function
F flushcombi		parenttag	function
F flushentry		permitted	function
T methods		refman_to_btx	function
F dataset		resolvedname	function
F force		save	function
F global		search	function
F local		setcategory	function
F nofregistered		setspecification	function
F prepareentries		singularorplural	function
F register		sortedentries	function
F sameasprevious		sortmethods	table
T sorters		T authoryear	
F cite		T sequence	
F dataset		specifications	table
F default		T default	
F index		S author	
F list		S comment	
F reference		S copyright	
F short		S name	
F used		S version	
F uservariable		D virtual	
listvariants	table	splitauthor	function
F default		splitoneauthor	function
F index		statistics	table
F num		N nofbytes	
F page		N nofdatasets	
F short		N nofdefinitions	
F tag		N nofshortcuts	
load	function	tables	table
loadbibdata	function	D implicits	
loaddefinitionfile	function	D origins	
loaders	table	D privates	
F bbl		D sets	
F bib		D specials	
F buffer		D types	
F endnote		D virtuals	
F lua		tags	function
F refman		tracers	table
F registercleaner		F showdatasetauthors	
F xml		F showdatasetcompleteness	
loadreplacementfile	function	F showdatasetfields	
new	function	F showentry	

F showfields	
F showhashedauthors	
F showtables	
F showvariants	
typesetters	table
F author	
F string	
usedataset	function
usedentries	function
writers	table
F author	
F keyword	
F pagenumber	
F range	

regimes (context)

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

resolvers (context)

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

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

updatescript	function
uselibrary	function
usertypes	data table
usezipfile	function
validatedpath	function
variable	function
variableofformat	function
variableofformatorsuffix	function
wildcardpattern	function

sandbox (context)

binaryhandler	function
disablerunners	function
enable	function
filehandlerone	function
filehandlertwo	function
finalizer	function
initializer	function
iohandler	function
logcalls	function
logfiles	function
original	function
overload	function
possiblepath	function
redefine	function
register	function
registerbinary	function
registerroot	function
registerrunner	function
report	function
run	function
runhandler	function
setfilenamelogger	function
setlogger	function
setreporter	function
settrace	function
validfilename	function

scripts (context)

autofontfeature table

- F disable
- F enable
- F handler

categorytonumber data table

colors data table

decomposehangul function

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
- N inter_word_stretch_factor

handlers data table

hash table

injectors data table

installdataset function

installmethod function

numbertocategory data table

numbertodataset data table

numbertohandler data table

reset function

set function

splitters data table

set (context)

contains function

create function

tolist function

tonumber function

totable function

socket (extra lua)

BLOCKSIZE number
_DEBUG boolean
_SETSIZE number
bind function
choose function
connect function
connect4 function
connect6 function
dns table

F getaddrinfo
F gethostname
F getnameinfo
F tohostname
F toip

ftp table

S PASSWORD
N PORT
N TIMEOUT
S USER
F command
F get
F open
F put

gettime function

headers table

T canonic
S accept
S accept-charset
S accept-encoding
S accept-language
S accept-ranges
S action
S age
S allow
S alternate-recipient
S arrival-date
S authorization
S bcc
S cache-control
S cc
S comments

S connection
S content-description
S content-disposition
S content-encoding
S content-id
S content-language
S content-length
S content-location
S content-md5
S content-range
S content-transfer-encoding
S content-type
S date
S diagnostic-code
S dsn-gateway
S etag
S expect
S expires
S final-log-id
S final-recipient
S from
S host
S if-match
S if-modified-since
S if-none-match
S if-range
S if-unmodified-since
S in-reply-to
S keywords
S last-attempt-date
S last-modified
S location
S max-forwards
S message-id
S mime-version
S original-envelope-id
S original-recipient
S pragma
S proxy-authenticate
S proxy-authorization
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)

basicsorter function

comparers table

F basic

constants table

S defaultdigits

S defaultlanguage

S defaultmethod

N digitmaximum

N digitoffset

N ignoredoffset

N replacementoffset

T validmethods

B ch

B mc

B mm

B pc

B pm

B uc

B zc

B zm

definitions data table

firstofsplit function

packch function

packuc function

setlanguage function

sort function

splitters table

F utf

strip function

tracers data table

update function

statistics (context)

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

status (basic tex)

list function

resetmessages function

storage (context)

allocate	function
data	table
mark	function
marked	function
max	number
min	number
nofmodules	number
noftables	number
register	function
shared	data table
storedfunctions	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	sub	function
autosingle	function	tformat	function
booleanstring	function	toHEX	function
byte	function	toboollean	function
bytepairs	function	tobytes	function
bytes	function	tocontext	function
char	function	todec	function
characterpairs	function	todimen	function
characters	function	tohex	function
checkedsplit	function	tonodes	function
collapsespaces	function	topattern	function
count	function	totable	function
dump	function	toutf	function
escapedpattern	function	tracedchar	function
explode	function	tracedchars	table
find	function	unquote	function
format	function	unquoted	function
formatter	function	upper	function
formatters	function	utfcharacters	function
fullstrip	function	utfvalues	function
gmatch	function	valid	function
gsub	function		
is_boolean	function		
is_empty	function		
itself	function		
len	function		
limit	function		
longtostring	function		
lower	function		
match	function		
nspaces	table		
optionalquoted	function		
quote	function		
quoted	function		
rep	function		
replacenewlines	function		
reverse	function		
split	function		
splitlines	function		
splitup	function		
strip	function		

structures (context)

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

F define		F savedlistprefixednumber	
F getdata		F savedlisttitle	
F getlocation		D sectionblocks	
F getname		F sectionnumber	
F getnumber		F size	
F setlocation		F title	
F setup		D tobesaved	
D stored		F userdata	
		F uservalue	
itemgroups	table	marks	table
lists	table		
F addto		D data	
F analyze		F define	
B autoreorder		F exists	
D cached		F fetch	
D collected		F fetchallmarks	
F discard		F fetched	
F enhance		F fetchonemark	
T enhancers		F fetchtwomarks	
F filter		F get	
F formulainumber		F number	
F getresult		F relate	
F groupindex		F reset	
F hasnumberdata		F set	
F haspagedata		F show	
F hastitledata		F synchronize	
F iscached		F title	
D kinds		T tracers	
F label		F showtable	
F location		notes	table
D names		F checkpagechange	
F number		F define	
D ordered		F doifonsamepageasprevious	
F page		F get	
F popnesting		F getdeltapage	
F prefix		F getn	
F prefixednumber		F getnumberpage	
F prefixedpage		F getstate	
F process		F getsymbolpage	
D pushed		F hascontent	
F pushnesting		F internal	
F realpage		F internalid	
F reordered		F listindex	
T result		F ordered	
F savedlistnumber		F postpone	

F resetpostponed		D filters
F restore		D flaginternals
F save		F from
F setstate		D functions
F setsymbolpage		F get
D states		F getcurrentmetadata
F store		F getcurrentprefixspec
pages	table	F getinnermethod
F analyze		F getinternallistreference
D collected		F getinternalreference
F in_body		D handlers
F is_odd		F identify
N nopages		F import
F number		F inject
F on_right		F injectcurrentset
F save		S innermethod
D tobesaved		D internals
references	table	F load
F analyze		F loadpresets
F checkedfile		F mark
F checkedfileorurl		D pages
F checkedprogram		U prefixsplitter
F checkedrealpage		D productdata
F checkedurl		T programs
D collected		T data
U componentsplitter		F define
F currentmetadata		F get
F currentorder		F realpageofpage
D currentset		U referencesplitter
F define		D referred
D defined		F referredpage
D derived		F registerfinalizer
F enableinteraction		F registerinitializer
F enhance		F registerpage
D executers		F reportproblems
F expandcurrent		F reset
F export		D runners
T files		F set
T data		F setandgetattribute
F define		F setcomponent
F found		F setinnermethod
F get		F setinternalreference
F filter		F setnextinternal
F filterdefault		F setnextorder

- F setreferencerealpage
- D specials
- F splitcomponent
- F splitprefix
- F splitreference
- F synchronizepage
- T testrunners
 - F inner
 - F special
 - F special operation
 - F special operation with arguments
- T testspecials
 - F deltapage
 - F i
 - F internal
 - F page
 - F realpage
 - F section
 - F userpage
- D tobereferred
- D tobesaved
- D tracedpages
- T urls
 - T data
 - F define
 - F found
 - F get
- D usedinternals
- D usedviews
- F valid

registers

- F analyze
- D collected
- F compare
- F define
- F enhance
- F extend
- F filter
- F filtercollected
- F finalize
- F flush
- F get
- F prepare
- F process

table

- F setmethod
- F sort
- F store
- D tobesaved
- F unique
- F userdata

sections

- F autodepth
- F cct
- D collected
- F current
- F currentblock
- F currentid
- F currentlevel
- F currentsectionindex
- F depthnumber
- F finddata
- F findnumber
- F fullnumber
- F getcurrentlevel
- F getlevel
- F getnumber
- F internalreference
- D levelmap
- D levels
- F load
- F matchingtilldepth
- F numberatdepth
- F numbers
- F popblock
- F prefixedconverted
- F pushblock
- F register
- D registered
- F reportstructure
- F save
- T sectionblockdata
 - T bodypart
 - S bookmark
- F set
- F setblock
- F setchecker
- F setentry
- F setinitialblock

table

F setlevel		D labels
F setnumber		F last
F structuredata		F lastinchain
F title		F locatedtag
D tobesaved		T patterns
F typesetnumber		U splitter
F userdata		D properties
B verbose		F registermetadata
sets	table	F restart
F define		F setaspect
F get		F setattributefield
F getall		F setcombination
D setlist		F setfigure
specials	table	F sethighlight
D collected		F setitem
F retrieve		F setitemgroup
F store		F setlist
D tobesaved		F setnotation
synonyms	table	F setnotationsymbol
F analyzed		F setproperty
D collected		F setregister
F compare		F setsorting
F define		F setsynonym
F filter		F settablecell
F finalize		F settabulatecell
F flush		F settagdelimitedsymbol
F isshown		F settagssubsentencesymbol
F isused		F setupexport
F meaning		F setuserproperties
F prepare		D specifications
F process		F start
F register		F stop
F registershown		F strip
F registerused		D taglist
F resetshown		T usewithcare
F resetused		T images
F sort		
F synonym		
D tobesaved		
tags	table	
F elementtag		
F finishexport		
F getid		
F handler		

table (basic lua)

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

tex (basic tex)

attribute	table	ifs	data table
badness	function	inimatcodes	number
box	table	init_rand	function
catcode	table	isattribute	function
conditionals	data table	isbox	function
constants	data table	iscount	overloaded function
count	table	isdefined	function
ctdcatcodes	number	isdimen	overloaded function
ctxcatcodes	number	ismuskip	overloaded function
definefont	function	isskip	overloaded function
delcode	table	istoken	function
dimen	table	istoks	function
directives	data table	lccode	table
enableprimitives	function	linebreak	function
error	function	lists	table
extraprimitives	function	lua_math_random	function
finish	function	lua_math_randomseed	function
fontidentifier	function	luacatcodes	number
fontname	function	mathcode	table
fprint	function	modes	data table
get	function	muskip	table
getattribute	function	nest	table
getbox	function	nilcatcodes	number
getboxresourcedimensions	function	normal_rand	function
getcatcode	function	notcatcodes	number
getcount	function	number	function
getdelcode	function	primitives	function
getdelcodes	function	print	function
getdimen	function	prtcacodes	number
getlccode	function	romannumeral	function
getlist	function	round	function
getmath	function	run	function
getmathcode	function	saveboxresource	function
getmathcodes	function	scale	function
getmuskip	function	scantoks	function
getnest	function	set	function
getsfcode	function	setattribute	function
getskip	function	setbox	function
gettoks	function	setcatcode	function
getuccode	function	setcount	function
hashtokens	function	setdelcode	function

setdimen	function
setlccode	function
setlist	function
setmath	function
setmathcode	function
setmuskip	function
setnest	function
setsfcode	function
setskip	function
settoks	function
setuccode	function
sfcode	table
shipout	function
show_context	function
skip	table
sp	function
sprint	function
systemmodes	data table
takebox	function
texcatcodes	number
toks	table
tpacatcodes	number
tpbcatcodes	number
tprint	function
trackers	data table
triggerbuildpage	function
txtcatcodes	number
type	function
uccode	table
uniform_rand	function
uniformdeviate	function
uprint	function
useboxresource	function
vrbcacodes	number
write	function

texconfig (basic tex)

error_line	number
expand_depth	number
formatname	string
half_error_line	number
hash_extra	number
init	overloaded function
kpse_init	boolean
max_in_open	number
max_print_line	number
max_strings	number
nest_size	number
param_size	number
save_size	number
shell_escape	string
stack_size	overloaded number

texio (basic tex)

```
setescape function
write      function
write_nl  function
```

tokens (context)

astable function
bgroup userdata
bits table

N active
N alignment
N begingroup
N character
N close
N comment
N endgroup
N endofline
N escape
N ignore
N invalid
N letter
N mathshift
N open
N other
N parameter
N space
N subscript
N superscript
N whitespace

collectors table

T data
F defaultwords
F dowithwords
F flush
F install
F register
T registered
F show
F test

compile function
converters table

S toboolean
S todimen
S toglue
S tonumber
S tostring

egroup userdata

getters table

F box
F count
F dimen
F token

hbox userdata

istoken function

letter function

letters function

other function

pickup function

printlist function

scanners table

F boolean
F code
F conditional
F count
F csname
F dimen
F dimension
F glue
F integer
F keyword
F list
F lxmlid
F number
F scanclose
F scanopen
F skip
F string
F token
F tokens
F toks
F word

scantable function

setters table

F box
F count
F dimen
F macro

shortcuts table

T bits	F integer
N active	F keyword
N alignment	F list
N begingroup	F lxmlid
N character	F number
N close	F scanclose
N comment	F scanopen
N endgroup	F skip
N endofline	F string
N escape	F token
N ignore	F tokens
N invalid	F toks
N letter	F word
N mathshift	F scannumber
N open	F scanopen
N other	F scanstring
N parameter	F scanword
N space	F toboolean
N subscript	F todimen
N superscript	T tokens
N whitespace	F astable
N close	U bgroup
F inspect	T collectors
N open	F defaultwords
F report	F dowithwords
F scanboolean	F flush
F scanclose	F install
F scancode	F register
F scanconditional	F show
F scanscname	F test
F scandimen	F compile
F scandimension	T converters
F scaninteger	S toboolean
F scankeyword	S todimen
F scanlist	S toglue
T scanners	S tonumber
F boolean	S toString
F code	U egroup
F conditional	T getters
F count	F box
F csname	F count
F dimen	F dimen
F dimension	F token
F glue	U hbox

F istoken
F letter
F letters
F other
F pickup
F printlist
F scantable
T setters
 F box
 F count
 F dimen
 F macro
T shortcuts
 N close
 F inspect
 N open
 F report
 F scanboolean
 F scanclose
 F scancode
 F scanconditional
 F scanscname
 F scandimen
 F scandimension
 F scaninteger
 F scankeyword
 F scanlist
 F scannumber
 F scanopen
 F scanstring
 F scanword
 F toboolean
 F todimen
 F tonumber
 F tostring
U vbox
U vtop
F tonumber
F tostring
vbox userdata
vtop userdata

tracers (context)

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

trackers (context)

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

typesetters (context)

alignments table

F handler
F set

breakpoints table

F define
F handler
D mapping
T methods
T numbers
F set
F setreplacement

cases table

T actions
F handler
F register
F set

characteralign table

F handler
F resetcharacteralign
F setcharacteralign

characters table

F handler
T methods
F replacensp
F replacenspaces

checkers table

F handler
F reset
F set

cleaners table

F handler
F set

digits table

T actions
F handler
F set

directions table

F getfences
F getglobal
F getmethod
F handler

T handlers
F installhandler
F processmath
F set
F setcolor
F setmath
F tomode

firstlines table

T actions
F default
F line
F word
F handler
F set

initials table

T actions
F default
F addanchortoline
F addtoline
F calculatedelta
F checkline
F handler
F moveinline
F normalize
F set

injectors table

F check
T list
F mark
F reset
F set
F show

italics table

F forcevariant
F handler
F reset
F set

kerns table

D factors
F handler
F keepligature

B keepetogether
D mapping
F set
manipulators table

F apply
F applyspecification
T methods
F Word
F Words
F abbreviatedjournal
F expandedjournal
F lowercase
F stripperperiod
F uppercase
T patterns
U list
U pair
F splitspecification

margins table

F finalhandler
F globalhandler
F ha
F localhandler
F save

marksuspects function
paragraphs table

F addanchortoline
F addtoline
F calculatedelta
F checkline
F handler
F moveinline
F normalize
F set

processors table

F apply
F register
F reset
F split
F startapply
F stopapply
F stripped
F toString

showsuspects function

spacings table

F define
F handler
D mapping
T numbers
T frenchpunctuation
T characters
S name
N number

F reset

F set

F setup

wrappers table

F handler

xtables table

F cleanup
F construct
F create
F finish_row
F flush
F initialize_construct
F initialize_reflow_height
F initialize_reflow_width
F next_row
F reflow_height
F reflow_width
F set_construct
F set_reflow_height
F set_reflow_width

unicode (extra lua)

ascii table

F byte
F 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 chrln
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 substituter
F tocodes
F toeight
F toentities
F tostring
F totable
F upper
F ustring

F utf16_to_utf8_be
F utf16_to_utf8_be_t
F utf16_to_utf8_le
F utf16_to_utf8_le_t
F utf16_to_utf8_t
F utf32_to_utf8_be
F utf32_to_utf8_be_t
F utf32_to_utf8_le
F utf32_to_utf8_le_t
F utf32_to_utf8_t
F utf8_to_utf16
F utf8_to_utf16_be
F utf8_to_utf16_le
F utf8_to_utf8_t
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
unescapeget	function

utilities (context)

debugger

table

F disable
F enable
F savestats
F showstats
F showtraceback

files

table

F close
F getposition
F look
F open
F read2dot14
F readbyte
F readbytes
F readcardinal
F readcardinal1
F readcardinal2
F readcardinal3
F readcardinal4
F readchar
F readfixed4
F readinteger
F readinteger1
F readinteger2
F readinteger4
F readstring
F readtag
F setposition
F size
F skip
F skiplong
F skipshort

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 groupedsplitat
F hash_to_string
F iterator
F keq_to_hash
F listitem
F make_settings_to_hash_pattern
F mergehashes
F options_to_array

F options_to_hash		F enable	
T patterns		F initialize	
U settings_to_array		F list	
U settings_to_hash_a		F new	
U settings_to_hash_b		F register	
U settings_to_hash_c		F report	
U unittotex		F reset	
F process_stripped_settings		F show	
F rfc4180splitter		stacker	table
F runtime		F new	
F settings_to_array		storage	table
F settings_to_array_with_repeat		F allocate	
F settings_to_hash		F checked	
F settings_to_hash_strict		F mark	
F settings_to_hash_tolerant		F marked	
F settings_to_set		F setinitializer	
F simple_hash_to_string		F sparse	
F splitmethod		streams	table
F splitthousands		F close	
F stepper		F getposition	
F stripped_settings_to_array		F look	
F unittotex		F open	
F unittotxml		F read2dot14	
report	function	F readbyte	
sequencers	table	F readbytes	
F appendaction		F readcardinal	
F appendgroup		F readcardinal1	
F compile		F readcardinal2	
F disableaction		F readcardinal3	
F disablegroup		F readcardinal4	
F enableaction		F readchar	
F enablegroup		F readfixed4	
D functions		F readinteger	
F localize		F readinteger1	
F new		F readinteger2	
F nodeprocessor		F readinteger4	
F prependaction		F readstring	
F prependgroup		F setposition	
F removeaction		F size	
F replaceaction		F skip	
F setkind		F skipbytes	
F tostring		F skiplong	
setters	table	F skipshort	
F disable		strings	table

- F collapsecrlf
- T formatters
 - F add
 - F new
- F newrepeater
- F nice
- T striplinepatterns
 - U collapse
 - U prune
 - U prune and collapse
 - U prune and no empty
 - U retain
 - U retain and collapse
 - U retain and no empty
- F striplines
- F striplong
- F tabtospace
- T tracers

tables table

- F accesstable
- F definedtable
- F definetable
- F encapsulate
- F insertaftervalue
- F insertbeforevalue
- F migratetable
- F removevalue
- F replacevalue

templates table

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

xml (context)

addentitiesdoctype	function	D string	
after	function	D tex	
all	function	D texline	
applylpath	function	D texspace	
assign	function	D verbose	
attribute	function	defaultprotocol	string
badinclusions	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 idstring	
collect_texts	function	F lower	
collected	function	F name	
collecttexts	function	F number	
content	function	F oneof	
convert	function	F print	
copy	function	F quit	
count	function	F tag	
cprint	function	F text	
css	table	F undefined	
F colorspecification		F upper	
F dimension		fillin	function
F fontspecification		filter	function
F padding		finalizers	table
defaulthandlers	table	F paragraphs	
D file		T tex	
D parsedxml		F all	

F attribute	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	inclusion	function
F position	inclusions	function
F reverse	index	function
F stripped	inheritedconvert	function
F tag	inject	function
F tags	inject_element	function
F text	inject_element_after	function
F upper	inject_element_before	function
F upperall	injectafter	function
T xml	injectbefore	function
F all	insert	function
F att	insert_element	function
F attribute	insert_element_after	function
F attributes	insert_element_before	function
F cdata	insertafter	function
F chainattribute	insertbefore	function
F count	insertcdata	function
F default	insertcomment	function
F elements	inspect	function
F empty	is_valid	function
F first	kind	function
F function	last	function
F index	load	function
F last	lpath	function
F lowerall	lpathcached	function
F match	lpathcalls	function
F name	lshow	function

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

zip (extra lua)

archives	table
close	function
closearchive	function
open	overloaded 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