

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** **newtoken** noads
node nodes number **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	figures	table
_LUAVERSION	number	file	table
_MAJORVERSION	number	floats	table
_MINORVERSION	number	font	table
arg	table	fontloader	table
assert	function	fonts	table
attributes	table	frozen	boolean
backends	table	functions	table
beginpage	function	gcinfo	function
bit	table	getenv	function
bit32	table	getmetatable	function
blobs	table	getpos	function
boolean	table	getvpos	function
buffers	table	global	table
builders	table	graphics	table
caches	table	gzip	table
callback	table	img	table
callbacks	table	inspect	function
catcodes	table	interactions	table
characters	table	interfaces	table
chemistry	table	io	table
collectgarbage	function	ipairs	function
commands	table	jit	table
containers	table	job	table
context	function	lang	table
converters	table	languages	table
coroutine	table	layouts	table
ctx_doifelse	function	lfs	table
ctxrunner	table	libraries	table
debug	table	lmx	table
dimen	function	load	function
dir	table	loadfile	function
directives	table	loadstring	function
document	table	logs	table
documentdata	table	lpdf	table
dofile	function	lpeg	table
endpage	function	ltn12	table
environment	table	lua	table
epdf	table	luatex	table
error	function	lxml	table
experiments	table	math	table

mathematics	table	setfenv	function
mbox	table	setinspector	function
md5	table	setmetatable	function
metapost	table	socket	table
mime	table	sorters	table
module	function	statistics	table
moduledata	table	status	table
modules	table	storage	table
mp	table	streams	table
mplib	table	string	table
newproxy	function	structures	table
newtoken	table	swiglib	function
next	function	table	table
noads	table	tex	table
node	table	texconfig	table
nodes	table	texio	table
number	table	thirddata	table
optionalrequire	function	toboollean	function
os	table	tokens	table
outputpagestree	function	tonumber	function
package	table	tostring	function
pagebuilders	table	tracers	table
pairs	function	trackers	table
parametersets	table	type	function
pcall	function	typesetters	table
pdf	table	unicode	table
pdfscanner	table	unpack	function
physics	table	url	table
print	function	userdata	table
profiler	table	utf	table
protect	function	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		

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 gray
- F graytohsv
- F handler
- F hsvtorgay
- F hsvtorgb
- F iccprofile
- F isblack
- N main
- S model
- D models
- F mpcolor
- F mpnamedcolor
- F mpoptions

- U none
- F popset
- F processcolorcomponents
- F pushset
- F register
- D registered
- F registerspotcolor
- F rgb
- F rgbtocmyk
- F rgbtorgay
- F rgbtohsv
- N selector
- F setlist
- F setmodel
- D sets
- F spec
- F spot
- F spotcolorname
- F spotcolorparent
- F spotcolorvalue
- B supported
- F transparencycomponents
- B triggering
- F usecolors
- F value
- D values
- B weightgray

define function effects table

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

handlers table list data table names data table negatives table

- N attribute

D data		D registered
F enable		F resolve_begin
F handler		F resolve_end
F register		F resolve_reset
D registered		F resolve_step
numbers	data table	D scopes
ofnode	function	F setfeatures
private	function	F start
public	function	F stop
showcurrent	function	B supported
states	table	D values
F disabletriggering		
F enabletriggering		
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		
D data		
F define		
F enable		
F forcesupport		
F handler		
B hasorder		
D listwise		
F register		

backends (context)

codeinjections table

F synchronizecolormodel

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
tohpackfast	function
tonodes	function
tovpack	function
tovpackfast	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 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

vspacing 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	N c
adobename	function	N d
bidirectional	data table	N e
blockrange	function	N f
blocks	data table	N g
casemap	table	N h
categories	data table	N i
category	function	N j
categorytags	data table	N k
collapsed	data table	N l
combined	data table	N m
contextname	function	N n
csletters	table	N o
N A		N p
N B		N q
N C		N r
N D		N s
N E		N t
N F		N u
N G		N v
N H		N w
N I		N x
N J		N y
N K		N z
N L		N ª
N M		N µ
N N		N º
N O		N Å
N P		N Á
N Q		N Â
N R		N Ã
N S		N Ä
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N	data	data table
N	decomposed	data table
N	description	function
N	descriptions	data table
N	directions	table
N	encodes	data table
N	entities	data table
N	fallbacks	data table
N	filters	data table
N	fromnumber	function
N	fschars	data table
N	fscodes	data table
N	getrange	function
N	graphemes	data table
N	hangul	data table
N	initialize	function
N	is_character	data table
N	is_command	data table
N	is_letter	data table
N	is_mark	data table
N	is_punctuation	data table
N	is_spacing	data table
N	lcchars	data table
N	lccode	function
N	lccodes	data table
N	lettered	function
N	lhash	data table
N	linebreaks	table
N	S ai	
N	S al	
N	S b2	
N	S ba	
N	S bb	
N	S bk	
N	S cb	
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S cm		shash	data table
S cp		shchars	data table
S cr		shcodes	data table
S ex		showstring	function
S gl		specialchars	data table
S h2		specials	data table
S h3		splits	table
S hl		T char	
S hy		T compat	
S id		subscripts	table
S in		superscripts	table
S is		synonyms	data table
S jl		tex	table
S jt		D accentmapping	
S jv		D commandmapping	
S lf		F defineaccents	
S nl		F safechar	
S ns		F toutf	
S nu		F toutfpattern	
S op		textclasses	table
S po		tonumber	function
S pr		ucchars	data table
S qu		uccode	function
S ri		uccodes	data table
S sa		uhash	data table
S sg		unicodechar	function
S sp		upper	function
S sy			
S wj			
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		
setcodes	function		
setlettercatcodes	function		
shape	function		
shaped	function		

chemistry (context)

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

coroutine (basic lua)

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

ctxrunner (context)

load	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
mkdirs	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
show	function
value	function

document (context)

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

environment (context)

argument	function	texroot	string
arguments	data table	truefilename	function
basicengines	data table	validengines	data table
currentrun	number		
default_texmfcnf	string		
engineflags	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		
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		
texfile	function		
texmfos	string		
texos	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
type	function

experiments (context)

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

figures (context)

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

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
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	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		F report
T features			F reset
N blwf			T vectors
N fina		constructors	table
N half		F addcoreunicodes	
N init		F aftercopyingcharacters	
N isol		F applymanipulators	
N medi		F assignmathparameters	
N pref		B autocleanup	
N pstf		F beforecopyingcharacters	
N rphf		D cache	
D initializers		B cacheintex	
D methods		F calculatescale	
F setstate		F checkedfeatures	
T states		F checkedfilename	
N blwf		F checkvirtualids	
N fina		F cleanupable	
N half		F collectprocessors	
N init		F currentfonthasfeature	
N isol		D designsizes	
N mark		D dontembed	
N medi		F enhanceparameters	
N pref		N factor	
N pstf		F finalize	
N rest		F getfeatureaction	
N rphf		F hashfeatures	
B useunicodemarks		F hashinstance	
checkers	table	T hashmethods	
F getmissing		F normal	
F missing		F virtual	
cid	table	F initializefeatures	
F getmap		T keys	
F loadfile		T character	
collections	table	S depth	
F checkenabled		S height	
F clonevector		S italic	
F define		S width	
T definitions		T description	
F prepare		T boundingbox	
F process		S depth	
F registermain		S height	

S width	S autoitalicamount	
T parameters	T cidinfo	
S ascender	S embedding	
S descender	S encodingbytes	
S designsize	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	
S xheight	F analyze	
T properties	F applypostprocessors	

F checkedmode	N Escyrillic
F checkedscript	N Fitacyrillic
F current	N Gcedilla
S defaultlookup	N Gdot
F define	N Gecyrillic
F getspecification	N Gheupturncyrillic
F internal	N Gjecyrillic
F loadfont	N Hardsigncyrillic
F makespecification	N IAcyrillic
T methods	N IUcyrillic
F install	N Icyrillic
D variants	N Idot
F read	N Iecyrillic
F register	N Iicyrillic
F registered	N Iishortcyrillic
F registersplit	N Iocyrillic
F resetnullfont	N Izhitsacyrillic
F resolve	N Jecyrillic
T resolvers	N Kacyrillic
F file	N Kcedilla
F name	N Khacyrillic
F spec	N Kjecyrillic
definetypeface function	N Lcedilla
encodings table	N Ljecyrillic
T agl	N Ncedilla
D extras	N Njecyrillic
D names	N Ocyrillic
T synonyms	N Odblacute
N Acyrillic	N Ohm
N Becyrillic	N Pecyrillic
N Cdot	N Rcedilla
N Checyrillic	N Shacyrillic
N Decyrillic	N Shchacyrillic
N Djecyrillic	N Softsigncyrillic
N Dzecyrillic	N Tcedilla
N Dzhecyrillic	N Tecyrillic
N Ecyrillic	N Tsecyrillic
N Edot	N Tshacyrillic
N Efcyrillic	N Ucyrillic
N Elcyrillic	N Udblacute
N Emcyrillic	N Ushortcyrillic
N Encyrillic	N Vecyrillic
N Ercyrillic	N Yatcyrillic
N Eversedcyrillic	N Yericyrillic

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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 dalettsera
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 etnahtaafoukhhebrew
N blackrectangle	N etnahtaafoukhlefthebrew
N blackrightpointingpointer	N etnahtahebrew
N blacksmilingface	N fathaarabic
N blacksquare	N finalkaf
N blackuppointingtriangle	N finalkafdagesh
N bulletinverse	N finalkafhebrew
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N compass	N finalkafqamatshebrew
N dagesh	N finalkafsheva
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N dalethatafpatahhebrew	N finaltsadi
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N dalethebrew	N fourarabic
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N daletholam	N gimel
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N hamzadammatanarabic	N holamquarterhebrew
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N hamzafathatanarabic	N integralbottom
N hamzalowarabic	N integraltop
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N hatafpatahnarrowhebrew	N lamedhebrew
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N qof	N reshpatahhebrew
N qofdagesh	N reshqamats
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N qofhiriqhebrew	N reshshevahebrew
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N qofqubutshebrew	N segol2c
N qofsegol	N segolhebrew
N qofsegolhebrew	N segolnarrowhebrew
N qofsheva	N segolquarterhebrew
N qofshevahebrew	N sevenarabic
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open	function
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checksize	function
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copy	function
immediatewrite	function
keys	function
new	function
node	function
ofindex	function
package	function
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F MPc		F btxdirect
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F MPrest		F btxflushmarked
F MPrs		F btxflushpages
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F btchandlecite	F doifblackelse
F btchandlenocite	F doifcounter
F btxlastofrange	F doifdrawingblackelse
F btlistvariant	F doifelsebuffer
F btloaddefinitionfile	F doifelsecounter
F btloadreplacementfile	F doifelsecurrentfonthasfeature
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F btxsavedataset	F doifelsepositionsused
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F btxsetentry	F doiffileexistelse
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F btxsetspecification	F doiflisthasentry
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F copyposition	F doifposition
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F definefont_one	F dosavepositionwhd
F definefont_two	F dosetposition
F definefontfeature	F dosetpositionbox
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F defineprocesscolordummy	F enableregime
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F defrostrandomseed	F featurelist
F depthnumber	F feedback
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F fetchmultishape	F gettexbuffer
F fetchonemark	F incrementcounter
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F firstcountervalue	F markregionboxtagged
F firstsubcountervalue	F mpcolor
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F fontcharbyindex	F mpflushreset
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F getbuffermkvi	F mpsetclippath
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F getfullstructurenumber	F mpsetsxsy
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F getrandomfloat	F mptexsetfrombuffer
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F getrandomseed	F namedstructurevariable
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F getsomestructurenumber	F nextcountervalue
F getspecificstructuretitle	F nextsubcountervalue
F getstructurelevel	F objectnumber
F getstructurenumber	F objectpage

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F pdfstartmirroring	F resetsubcounter
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F pdfstartscaling	F restartsubcounter
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F pdfstoprotation	F runbuffer
F pdfstopscaling	F savebuffer
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F previoussubcountervalue	F setcolormodel
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F processcolorcomponents	F setelementuserproperties_t
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F registernamespace	F setmathstyle
F registersection	F setmpextensions
F registersynonym	F setobject
F registerusedsynonym	F setowncounter
F relatemarking	F setownsubcounter
F replacefeature	F setrandomseed
F replacepospxywhd	F setsectionblock
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F resetcounter	F setstructurelevel
F resetfeature	F setstructurenumber

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F stopregime	F xmlchecknamespace
F stoptag	F xmlcommand
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F typebuffer	F xmldoifnotempty
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F xmlresetdocumentsetup	variables	data table
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F xmlsetcommandtonone		
F xmlsetcommandtotext		
F xmlsetentity		
F xmlsetfunction		

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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
util	table

F funcbc
F funcinfo
F funcn
F funcuvname
F ircalladdr
F traceexitstub
F traceinfo
F traceir
F tracek
F tracemc
F tracesnap

version	string
version_num	number

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F extend

F getdata

F setdata

D tobesaved

disablesave function

files table

D collected

F context

B forcerun

F run

D tobesaved

initialize function

load function

loadother function

objects table

D collected

F get

F number

F page

F save

F set

D tobesaved

pack boolean

packversion number

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D collected

F extend

F realpage

F setstate

D tobesaved

passes table

F check

D collected

F count

F define

F find

F first

F get

F getcollected

F getdata

F getfield

F gettobesaved

F inlist

F last

F list

F save

F savetagged

D tobesaved

positions table

F b_col

F b_region

F c

D collected

F column

F copy

F depth

F e_col

F e_region

F enhance

F extra

F get

F getreserved

F hangafter

F hangindent

F height

F hsize

F leftskip

F lowerleft

F lowerright

F markregionbox

F n

F onsamepage

F overlapping

F p

F page

F paragraph

F parindent

F position

F r

- F region
- F replace
- F rightskip
- F set
- F setall
- F setdim
- D tobesaved
- F upperleft
- F upperright
- 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
hyphenate	function
hyphenation	function
id	function
new	function
patterns	function
postexhyphenchar	function
posthyphenchar	function
preexhyphenchar	function
prehyphenchar	function

languages (context)

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

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
convert function
convertfile function
convertstring function
einject function
eprint function
escape function
finalized function
finject function
fprint function
get function
getvariables function
htmfile function
html table

F a

F td

F th

include function
inherited table

S color-background-four

S color-background-one

S color-background-three

S color-background-two

S title

initialize function
inject function
lmxfile function
loadedfile function
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

stripcss function
tv function
type function
urlescape function
variable function
variables table

S color-background-blue

S color-background-body

S color-background-green

S color-background-main

S color-background-purple

S color-background-yellow

S title-default

logs (context)

application	function
categories	function
direct	function
disable	function
enable	function
exporters	table
extendbanner	function
flush	function
help	function
messenger	function
new	function
newline	function
poptarget	function
pushtarget	function
report	function
reportbanner	function
reporter	function
reporters	table
F banner	
F export	
F help	
F info	
F lines	
F version	
reportline	function
reportlines	function
setformats	function
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	finalizepage	function
adddocumentcolorspace	function	finishtransparencycode	function
adddocumenttextgstate	function	flushobject	function
adddocumentpattern	function	flushstreamfileobject	function
adddocumentshade	function	flushstreamobject	function
addtocatalog	function	formats	data table
addtoinfo	function	frompdfdoc	function
addtonames	function	fromsixteen	function
addtopageattributes	function	gethpos	function
addtopageresources	function	getmatrix	function
addtopagesattributes	function	getpos	function
addxmpinfo	function	getvpos	function
annotationspecification	function	graycode	function
array	function	hasmatrix	function
boolean	function	id	function
border	function	injectxmpinfo	function
checkedkey	function	insertxmpinfo	function
checkedvalue	function	layerreference	function
circularshade	function	limited	function
cmykcode	function	linearshade	function
collectedresources	function	nametree	function
color	function	null	function
colorspace	function	number	function
colorspaceconstants	data table	pagedestinations	data table
colorspec	function	pagereference	function
colorvalue	function	pagereferences	data table
colorvalues	function	pdfcolor	function
constant	function	pdftimestamp	function
delayedobject	function	protectresources	boolean
destinationspecification	function	rectangle	function
dictionary	function	reference	function
docstring	function	registerannotation	function
epdf	table	registerdestination	function
F contenttotext		registerdocumentfinalizer	function
F expand		registerpagefinalizer	function
F expanded		reserveobject	function
F getpagecontent		rgbcode	function
F getstructure		rotationcm	function
F load		shareobject	function
F unload		shareobjectreference	function
finalizeddocument	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
bytdone	table
B toks-new	
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	flushsetups	function
all	function	flushspacewise	function
applyfunction	function	get_id	function
att	function	getid	function
attribute	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
doifelsetext	function	raw	function
doifempty	function	rawroot	function
doifnot	function	register	function
doifnotempty	function	registerentity	function
doifnottext	function	removesetup	function
doiftext	function	resetcdata	function
element	function	resetsetups	function
elements	function	resolvedentity	function
entities	data table	root	function
filter	function	save	function
filterlist	function	serialize	function
first	function	setaction	function
flush	function	setcdata	function
flushlinewise	function	setcommandtonone	function

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

setoutercolor	function
settext	function
showlog	boolean
svformat	function
tex	table
F get	
F reset	
F set	
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)

f	function
dataset	function
datasets	table
F load	
format	function
get	table
F boolean	
F number	
F numeric	
F string	
n	function
numeric	function
pair	function
path	function
print	function
quadruple	function
quoted	function
size	function
triplet	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

newtoken (basic tex)

create	function
get_next	function
is_token	function
scan_code	function
scan_dimen	function
scan_glue	function
scan_int	function
scan_keyword	function
scan_string	function
scan_token	function
scan_toks	function
scan_word	function
set_macro	function
type	function

noads (context)

handlers table

- F check
- F classes
- F collapse
- F families
- F italics
- F relocate
- F render
- F resize
- F showtree
- F tags
- F unscript
- F variants

process function

processors table

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

node (basic tex)

copy	function	F protect_glyphs	
copy_list	function	F protrusion_skippable	
count	function	F remove	
current_attr	function	F set_attribute	
dimensions	function	F set_properties_mode	
direct	table	F setbox	
F copy		F setfield	
F copy_list		F setproperty	
F count		F slide	
F current_attr		F tail	
F dimensions		F todirect	
F do_ligature_n		F tonode	
F end_of_math		F toString	
F first_glyph		F traverse	
F flush_list		F traverse_id	
F flush_node		F unprotect_glyphs	
F flush_properties_table		F unset_attribute	
F free		F usedlist	
F get_properties_table		F vpack	
F getbox		F write	
F getchar		do_ligature_n	function
F getfield		end_of_math	function
F getfont		family_font	function
F getid		fields	function
F getleader		first_character	function
F getlist		first_glyph	function
F getnext		flush_list	function
F getprev		flush_node	function
F getproperty		flush_properties_table	function
F getsubtype		free	function
F has_attribute		get_properties_table	function
F has_field		getchar	function
F has_glyph		getfield	function
F hpack		getfont	function
F insert_after		getid	function
F insert_before		getleader	function
F is_direct		getlist	function
F is_node		getnext	function
F last_node		getprev	function
F length		getproperty	function
F new		getsubtype	function

has_attribute	function
has_field	function
has_glyph	function
hpack	function
id	function
insert_after	function
insert_before	function
is_node	function
kerning	function
last_node	function
length	function
ligaturing	function
mlist_to_hlist	function
new	function
next	function
prev	function
protect_glyphs	function
protrusion_skippable	function
remove	function
set_attribute	function
set_properties_mode	function
setfield	function
setProperty	function
slide	function
subtype	function
tail	function
tostring	function
traverse	function
traverse_id	function
type	function
types	function
unprotect_glyphs	function
unset_attribute	function
usedlist	function
vpack	function
whatsits	function
write	function

nodes (context)

accentcodes	data table	free_spec	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		gonuts	boolean
T stack		handlers	table
dimensionfields	data table	F accessibility	
dimensions	function	F alignbackgrounds	
dir_is_pop	data table	F backgrounds	
dir_negation	data table	F characters	
disccodes	data table	F checkforleaks	
discretionarycodes	data table	F checkglyphs	
do_ligature_n	function	F cleanupbox	
end_of_math	function	F cleanuppage	
fasthpack	function	F export	
fencecodes	data table	F finalize	
fields	function	F migrate	
fillcodes	data table	F protectglyphs	
first_character	function	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	idstosting	function
free	function	ignorablefields	data table

injections	table	listtablefields	data 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		markers	table
F resetcounts		F get	
F setcursive		mathcodes	data table
F setkern		maxboxwidth	function
F setligaindex		mlist_to_hlist	function
F setmark		new	function
F setpair		noadcodes	data table
insert_after	function	nodecodes	data table
insert_before	function	nopts	function
insert_list_after	function	nuts	table
installattributehandler	function	F append	
is_direct	function	F concat	
is_display_math	function	F copy	
is_mirrored	data table	F copy_list	
is_node	function	F copy_properties	
is_nut	function	F count	
is_rotated	data table	F current_attr	
kerncodes	data table	F delete	
kertering	function	F dimensions	
keys	table	F do_ligature_n	
T whatsit		F end_of_math	
last_node	function	F fasthpack	
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 getattr	
F stage_zero		F getattribute	
D data		F getbox	
F finalize		F getchar	
F number		F getfield	
N scratchbox		F getfont	
link	function	F getid	
linked	function	F getleader	
list	function	F getlist	

F getnext	F pdfdestination
F getprev	F pdfdirect
F getprop	F pdfliteral
F getskip	F pdfrestore
F getsubtype	F pdfsave
F has_attribute	F pdfsetmatrix
F has_field	F penalty
F has_glyph	F register
F hpack	F rightmarginkern
F insert_after	F rightskip
F insert_before	F rule
F insert_list_after	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_glyphs
F fontkern	F protrusion_skippable
F glue	F reference
F gluespec	F remove
F glyph	F repackhlist
F hlist	F replace
F kern	F rightmarginwidth
F latelua	F set_attribute
F lateluafunction	F setattr
F leftmarginkern	F setattrtribute
F leftskip	F setattrtributes
F lineskip	F setbox
F negatedglue	F setfield
F noad	F setprop
F pdfannotation	F setunsetattributes

F slide		N attribute	
F somepenalty		D data	
F somespace		F enable	
F tail		F handler	
F takebox		F register	
F tonode		D registered	
F tonodes		D values	
F tonut		F processor	
F tosequence		points	function
F tostring		pool	table
F tracedslide		F baselineskip	
F traverse		F cleanup	
F traverse_id		F glyph	
T typesetters		F kern	
F fast_hpack		F latelua	
F hpack		F lateluafunction	
F tohpack		F lineskip	
F tohpackfast		F pdfdirect	
F tonodes		F pdfliteral	
F tovpack		F pdfrestore	
F tovpackfast		F pdfsave	
F vpack		F pdfsetmatrix	
F unprotect_glyphs		F register	
F unset_attribute		F rule	
F unsetattribute		F special	
F unsetattributes		F usage	
F untracedslide		F usernumber	
F usedlist		prepend	function
F vianodes		print	function
F vianuts		processors	table
F vpack		B enabled	
F writable_spec		F hpack_filter	
F write		F post_linebreak_filter	
packlist	function	F pre_linebreak_filter	
pardir_is_equal	data table	F tracer	
pardir_is_opposite	data table	processwords	function
pardir_is_parallel	data table	properties	table
partextdir_is_equal	data table	T actions	
penaltycodes	data table	F delayed	
plugindata	table	F fdelayed	
F finalizer		F immediate	
F initializer		F attach	
S name		T data	
T namespace		F delayed	

protect_glyphs	function	F resetsamples	
protrusion_skippable	function	F takesample	
pts	function	somepenalty	function
reference	function	somespace	function
references	table	stripdiscretionaries	function
N attribute		stripping	table
T done		T glyphs	
F handler		F set	
T stack		striprange	function
remove	function	tail	function
repacklist	function	takebox	function
replace	function	tasks	table
report	function	F actions	
rightmarginwidth	function	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
shifts	table	texmdir_is_is	data table
D data		texmdir_is_opposite	data table
F define		texmdir_is_parallel	data table
F enable		tobasepoints	function
F handler		tocentimeters	function
show	function	tociceros	function
showboxes	function	todidots	function
showcodes	function	todimen	function
showlist	function	toinches	function
showsimplelist	function	tomillimeters	function
skipcodes	data table	tonewciceros	function
slide	function	tonewdidots	function
snapshots	table	tonode	function
F getparameters		tonodes	function
F getsamples		tonut	function

topics	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_id	function
tracers	table	typesetters	table
T characters		F hpack	
F collect		F tohpack	
F equal		F tohpackfast	
F start		F tonodes	
F string		F tovpack	
F unicodes		F tovpackfast	
T colors		F vpack	
F reset		unprotect_glyphs	function
F set		unset_attribute	function
F setlist		unsetattribute	function
F fontchar		unsetattributes	function
T frequencies		usedlist	function
F register		vianodes	function
T pool		vianuts	function
T nodes		visualizebox	function
F rule		visualizers	table
T nuts		F box	
F rule		F handler	
F resetproperties		F markfonts	
F rule		F setfont	
F setlist		F setlayer	
F setproperties		F setvisual	
F start		vpack	function
T steppers		whatcodes	data table
F check		whatsitcodes	data table
F codes		writable_spec	function
F features		write	function
F font			
F glyphs			
F message			
F messages			
F nofsteps			
F register			
F reset			
F start			

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
todidots	function
todimen	function
toevenhex	function
toinches	function
tomillimeters	function
tonewciceros	function
tonewdidots	function
tonumberf	function
tonumberg	function
topics	function
topoints	function
toscaled	function
toscaledpoints	function
toset	function
valid	function

os (basic lua)

__getenv__	function	uname	function
__setenv__	function	uuid	function
binsuffix	string	validdatetime	function
binsuffixes	table	weekday	function
clock	function	where	function
converttime	function	which	function
date	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		
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		
type	string		

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)

getcatalog	function
gethpos	function
getinfo	function
getmatrix	function
getnames	function
getpageattributes	function
getpageresources	function
getpagesattributes	function
getpos	function
gettrailer	function
getvpos	function
hasmatrix	function
immediateobj	function
mapfile	function
mapline	function
maxobjnum	function
obj	function
objtype	function
pageref	function
print	function
refobj	function
registerannot	overloaded function
reserveobj	function
setcatalog	overloaded function
setinfo	overloaded function
setnames	overloaded function
setpageattributes	overloaded function
setpageresources	overloaded function
setpagesattributes	overloaded function
settrailer	overloaded function

pdfscanner (context)

scan function

physics (context)

units table

D tables

profiler (extra lua)

pause function
resume function
start function
stop function

publications (context)

addtexentry	function	S author
analyze	function	S editor
anywhere	function	S journal
authorcache	table	S keywords
authorcollapsers	data table	S number
casters	table	S pages
F author		S title
F keyword		S volume
F pagenumber		S year
F range		T optional
checkeddataset	function	T required
citevariants	table	T sets
F author		T author
F authornum		T virtual
F authoryear		T book
F authoryears		S category
F category		T extra
F default		T fields
F entry		S address
F index		S author
F key		S edition
F keywords		S editor
F num		S keywords
F page		S number
F serial		S publisher
F short		S subtitle
F tag		S title
F type		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
S author		T demo-a
T categories		S category
T article		T extra
S category		T fields
T extra		S author
T fields		S institution

S organization		B dirty	
S subtitle		T gskip	
S title		T kind	
S year		T list	
T optional		T system	
T required		T order	
T sets		enhancers	table
T author		F details	
T virtual		F order	
T demo-b		F suffixes	
S category		finder	function
T extra		firstofrange	function
T fields		found	function
S author		get	function
S institution		getcasted	function
S organization		getdetail	function
S subtitle		getdirect	function
S title		getfaster	function
S year		getfield	function
T optional		getfuzzy	function
T required		getindex	function
T sets		inspectors	data table
T authors		journals	table
T virtual		F abbreviated	
S comment		F add	
S copyright		F expanded	
T fields		F load	
S name		F save	
T types		lastofrange	function
S author		lists	table
S editor		F collectentries	
S keywords		F fetchentries	
S number		F filterall	
S page		F flushentry	
S pages		T methods	
S volume		F dataset	
S version		F force	
T virtual		F global	
datasets	table	F local	
detailed	table	F nofregistered	
endnotes_to_btx	function	F prepareentries	
enhancer	table	F register	
S arguments		F sameasprevious	
T askip		T sorters	

F dataset		S comment	
F default		S copyright	
F reference		S name	
F short		S version	
F uservariable			
listvariants	table	statistics	table
F bib		N nofbytes	
F default		N nofdatasets	
F num		N nofdefinitions	
F page		N nofshortcuts	
F short		tables	table
F yes		D implicits	
load	function	D origins	
loadbibdata	function	D privates	
loaddefinitionfile	function	D sets	
loaders	table	D specials	
F bbl		D types	
F bib		D virtuals	
F buffer		tags	function
F endnote		tracers	table
F lua		F showdatasetauthors	
F refman		F showdatasetcompleteness	
F registercleaner		F showdatasetfields	
F xml		F showentry	
loadreplacementfile	function	F showfields	
new	function	F showtables	
okay	function	F showvariants	
oneorange	function	typesetters	table
parenttag	function	F author	
permitted	function	F string	
refman_to_btx	function	usedataset	function
resolvedname	function	usedentries	function
save	function	writers	table
search	function	F author	
setcategory	function	F keyword	
setspecification	function	F pagenumber	
singularorplural	function	F range	
sortedentries	function		
sortmethods	table		
T authorityyear			
T sequence			
specifications	table		
T default			
S author			

regimes (context)

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

resolvers (context)

allprefixes	function	findtextfile	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	registerfilehash	function
F currentcomponent		registerintrees	function
F currentenvironment		registermethod	function
F currentproduct		registerzipfile	function
F currentproject		relations	data table
F justacomponent		renew	function
D processors		repath	function
F productcomponent		reset	function
F usefile		resetextrapath	function
joinpath	function	resetresolve	function
load	function	resolve	function
loadbinfile	function	savers	data table
loaders	data table	scandata	function
loadlualib	function	scanfiles	function
loadtexfile	function	schemes	table
loadtime	function	T cleaners	
locateformat	function	F md5	
locators	data table	F none	
luacnfname	string	F strip	
luacnfspec	string	F cleanname	
luacnfstate	string	F fetchstring	
macros	table	F fetchtable	
F convertfile		F install	
F decodecomment		setdynamic	function
F enablecomment		setenv	function
F encodecomment		setinstance	function
F preprocessed		showpath	function
F processmk		simplescanfiles	function
F processmkvi		splitconfigurationpath	function
F version		splitexpansions	function
maxreadlevel	number	splitmethod	function
methodhandler	function	splitpath	function
newinstance	function	stackpath	function
openbinfile	function	suffixes	data table
openers	data table	suffixmap	data table
openfile	function	suffixofformat	function
opentexfile	function	texdatablob	function
ownpath	string	toppath	function
poppath	function	unexpandedpath	function
prefixes	data table	unexpandedpathlist	function
prependhash	function	unresolve	function
pushpath	function	updaterelations	function
registerextrapath	function	updatescript	function
registerfile	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	S connection
_DEBUG	boolean	S content-description
_SETSIZE	number	S content-disposition
bind	function	S content-encoding
choose	function	S content-id
connect	function	S content-language
connect4	function	S content-length
connect6	function	S content-location
dns	table	S content-md5
F getaddrinfo		S content-range
F gethostname		S content-transfer-encoding
F getnameinfo		S content-type
F tohostname		S date
F toip		S diagnostic-code
ftp	table	S dsn-gateway
S PASSWORD		S etag
N PORT		S expect
N TIMEOUT		S expires
S USER		S final-log-id
F command		S final-recipient
F get		S from
F open		S host
F put		S if-match
gettime	function	S if-modified-since
headers	table	S if-none-match
T canonic		S if-range
S accept		S if-unmodified-since
S accept-charset		S in-reply-to
S accept-encoding		S keywords
S accept-language		S last-attempt-date
S accept-ranges		S last-modified
S action		S location
S age		S max-forwards
S allow		S message-id
S alternate-recipient		S mime-version
S arrival-date		S original-envelope-id
S authorization		S original-recipient
S bcc		S pragma
S cache-control		S proxy-authenticate
S cc		S proxy-authorization
S comments		S range

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

http table

N PORT
 N TIMEOUT
 S USERAGENT
 F open
 F request

newtry function
protect function
select function
sink function

sinkt table

F close-when-done
 F default
 F http-chunked
 F keep-open

skip function

sleep function

smtp table

S DOMAIN
 N PORT
 S SERVER
 N TIMEOUT
 S ZONE
 F message
 F open
 F send

source function

sourcet table

F by-length
 F default
 F http-chunked
 F until-closed

tcp function

tcp6 function

tp table

N TIMEOUT
 F connect

try function

udp function

udp6 function

url table

F absolute
 F build
 F build_path
 F escape
 F parse
 F parse_path
 F unescape

sorters (context)

basicsorter function

comparers table

 F basic

constants table

 S defaultdigits

 S defaultlanguage

 S defaultmethod

 N digitmaximum

 N digitsoffset

 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

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

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	tformat	function
autosingle	function	toHEX	function
booleanstring	function	toboollean	function
byte	function	tobytes	function
bytepairs	function	tocontext	function
bytes	function	todec	function
char	function	todimen	function
characterpairs	function	tohex	function
characters	function	tonodes	function
checkedsplit	function	topattern	function
collapsespaces	function	totable	function
count	function	toutf	function
dump	function	tracedchar	function
escapedpattern	function	tracedchars	table
explode	function	unquote	function
find	function	unquoted	function
format	function	upper	function
formatter	function	utfcharacters	function
formatters	function	utfvalues	function
fullstrip	function	valid	function
gmatch	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		
reverse	function		
split	function		
splitlines	function		
splitup	function		
strip	function		
sub	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		F current
F check		F simplify
D collected		F store
F compact		helpers table
F converted		F analyze
F currentvalue		F formulanumber
D data		F merged
F define		F page
F first		F prefix
F get		F prefixlastpage
F last		F prefixpage
F next		F simplify
F prev		F title

F touserdata

inserts

D data

F define

F getdata

F getlocation

F getname

F getnumber

F setlocation

F setup

D stored

table

itemgroups

table

lists

table

F addto

F analyze

B autoreorder

D cached

D collected

F discard

F enhance

T enhancers

F filter

F formulainumber

F getresult

F groupindex

F hasnumberdata

F haspagedata

F hastitledata

F iscached

D kinds

F label

F location

D names

F number

D ordered

F page

F popnesting

F prefix

F prefixednumber

F prefixedpage

F process

D pushed

F pushnesting

F realpage

F reordered

T result

D sectionblocks

F sectionnumber

F size

F title

D tobesaved

F userdata

F uservalue

marks

table

D data

F define

F exists

F fetch

F fetchallmarks

F fetched

F fetchonemark

F fetchtwomarks

F get

F number

F relate

F reset

F set

F show

F synchronize

F title

T tracers

F showtable

notes

table

F checkpagechange

F define

F doifonsamepageasprevious

F get

F getdeltapage

F getn

F getnumberpage

F getstate

F getsymbolpage

F hascontent

F internal

F internalid

F listindex

F ordered

F postpone

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

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
- F setmethod
- F sort
- F store
- D tobesaved

table

- 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 setlevel
 - F setnumber
 - F structuredata
 - F title
 - D tobesaved

table

	F typesetnumber		F setcombination
	F userdata		F setdescription
	B verbose		F setdescriptionsymbol
sets		table	F setfigure
	F define		F sethighlight
	F get		F setitemgroup
	F getall		F setlist
	D setlist		F setproperty
specials		table	F setregister
	D collected		F setsorting
	F retrieve		F setsynonym
	F store		F settablecell
	D tobesaved		F settabulatecell
synonyms		table	F setuserproperties
	F analyzed		D specifications
	D collected		F start
	F compare		F stop
	F define		D taglist
	F filter		
	F finalize		
	F flush		
	F meaning		
	F prepare		
	F process		
	F register		
	F registerused		
	F sort		
	F synonym		
	D tobesaved		
tags		table	
	F elementtag		
	F getid		
	F handler		
	D labels		
	F last		
	F lastinchain		
	F locatedtag		
	T patterns		
	U splitter		
	D properties		
	F registermetadata		
	F restart		
	F setaspect		
	F setattributehash		

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	isdefined	function
badness	function	isdimen	function
box	table	isskip	function
catcode	table	istoken	function
conditionals	data table	lccode	table
constants	data table	linebreak	function
count	table	lists	table
ctdcatcodes	number	lua_math_random	function
ctxcatcodes	number	lua_math_randomseed	function
definefont	function	luacatcodes	number
delcode	table	mathcode	table
dimen	table	modes	data table
directives	data table	nest	table
enableprimitives	function	nilcatcodes	number
error	function	normal_rand	function
extraprimitives	function	notcatcodes	number
finish	function	number	function
fontidentifier	function	pdffontname	function
fontname	function	pdffontobjnum	function
fprint	function	pdffontsize	function
get	function	pdfpageref	function
getattribute	function	pdfxformname	function
getbox	function	primitives	function
getcatcode	function	print	function
getcount	function	prtcacodes	number
getdelcode	function	romannumeral	function
getdimen	function	round	function
getlccode	function	run	function
getlist	function	scale	function
getmath	function	set	function
getmathcode	function	set_experimental_code	function
getnest	function	setattribute	function
getsfcode	function	setbox	function
getskip	function	setcatcode	function
gettoks	function	setcount	function
getuccode	function	setdelcode	function
hashtokens	function	setdimen	function
ifs	data table	setlccode	function
inicalcodes	number	setlist	function
init_rand	function	setmath	function
iscount	function	setmathcode	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
tpbcacodes	number
tprint	function
trackers	data table
txtcatcodes	number
type	function
uccode	table
uniform_rand	function
uniformdeviate	function
uprint	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)

`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 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 count
F dimen
F dimension
F glue
F integer
F keyword
F lxmld
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
N active
N alignment
N begingroup

N character	F tokens
N close	F toks
N comment	F word
N endgroup	F scannumber
N endofline	F scanopen
N escape	F scanstring
N ignore	F scanword
N invalid	F todimen
N letter	T tokens
N mathshift	F astable
N open	U bgroup
N other	T collectors
N parameter	F defaultwords
N space	F dowithwords
N subscript	F flush
N superscript	F install
N whitespace	F register
N close	F show
F inspect	F test
N open	F compile
F report	T converters
F scanboolean	S todimen
F scanclose	S toglue
F scancode	S tonumber
F scandimen	S tostring
F scandimension	U egroup
F scaninteger	T getters
F scankeyword	F box
T scanners	F count
F boolean	F dimen
F code	F token
F count	U hbox
F dimen	F istoken
F dimension	F letter
F glue	F letters
F integer	F other
F keyword	F pickup
F lxmld	F printlist
F number	F scantable
F scanclose	T setters
F scanopen	F box
F skip	F count
F string	F dimen
F token	F macro

T shortcuts

N close

F inspect

N open

F report

F scanboolean

F scanclose

F scancode

F scandimen

F scandimension

F scaninteger

F scankeyword

F scannumber

F scanopen

F scanstring

F scanword

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
prnterror	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
savehash	function
show	function
value	function

typesetters (context)

alignments	table	F installhandler	
F handler		F processmath	
F set		F set	
breakpoints	table	F setcolor	
F define		F setmath	
F handler		F tomode	
D mapping		firstlines	table
T methods		T actions	
T numbers		F default	
F set		F line	
F setreplacement		F word	
cases	table	F handler	
T actions		F set	
F handler		initials	table
F register		T actions	
F set		F default	
characteralign	table	F handler	
F handler		F set	
F resetcharacteralign		injectors	table
F setcharacteralign		F check	
characters	table	T list	
F handler		F mark	
F replacensp		F reset	
F replacenspaces		F set	
checkers	table	F show	
F handler		italics	table
F reset		F forcevariant	
F set		F handler	
cleaners	table	F reset	
F handler		F set	
F set		kerns	table
digits	table	D factors	
T actions		F handler	
F handler		F keepligature	
F set		B keeptogether	
directions	table	D mapping	
F getfences		F set	
F getglobal		manipulators	table
F getmethod		F apply	
F handler		F applyspecification	
T handlers		T methods	

F Word		F construct
F Words		F create
F abbreviatedjournal		F finish_row
F expandedjournal		F flush
F lowercase		F initialize_construct
F stripperperiod		F initialize_reflow_height
F uppercase		F initialize_reflow_width
T patterns		F next_row
U list		F reflow_height
U pair		F reflow_width
F splitspecification		F set_construct
margins	table	F set_reflow_height
F finalhandler		F set_reflow_width
F globalhandler		
F ha		
F localhandler		
F save		
marksuspects	function	
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		

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 subtituter
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

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_hash
- T patterns
 - U settings_to_array
 - U settings_to_hash_a
 - U settings_to_hash_b
 - U settings_to_hash_c
 - U unittotex
- F process_stripped_settings
- F rfc4180splitter
- F runtime
- F settings_to_array
- F settings_to_array_with_repeat
- F settings_to_hash
- F settings_to_hash_strict
- F settings_to_hash_tolerant
- F settings_to_set
- F simple_hash_to_string
- F splitmethod
- F splitthousands
- F stepper
- F stripped_settings_to_array
- F unittotex
- F unittoxml

report function

sequencers table

- F appendaction
- F appendgroup

F compile		U prune and collapse	
F disableaction		U prune and no empty	
F disablegroup		U retain	
F enableaction		U retain and collapse	
F enablegroup		U retain and no empty	
D functions		F striplines	
F localize		F striplong	
F new		F tabtospace	
F nodeprocessor		T tracers	
F prependaction		tables	table
F prependgroup		F accesstable	
F removeaction		F definedtable	
F replaceaction		F definetable	
F setkind		F encapsulate	
F tostring		F insertaftervalue	
setters	table	F insertbeforevalue	
F disable		F migratetable	
F enable		F removevalue	
F initialize		F replacevalue	
F list		templates	table
F new		F load	
F register		F replace	
F report		F replacer	
F reset		F resolve	
F show			
stacker	table		
F new			
storage	table		
F allocate			
F checked			
F mark			
F marked			
F setinitializer			
F sparse			
strings	table		
F collapsecrlf			
T formatters			
F add			
F new			
F newrepeater			
F nice			
T striplinepatterns			
U collapse			
U prune			

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
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 tex	
after	function	D texline	
all	function	D texspace	
applylpath	function	D verbose	
assign	function	defaultprotocol	string
attribute	function	delete	function
before	function	delete_element	function
body	function	each	function
builtinentities	table	each_element	function
B amp		elements	function
B apos		elementtocdata	function
B gt		empty	function
B lt		entities	data table
B quot		erase	function
cdata	function	errorhandler	function
cdatatotext	function	escaped	function
checkbom	function	expressions	table
checkerror	function	F boolean	
checknamespace	function	F child	
checkns	function	F contains	
cleansed	function	F count	
collect	function	F error	
collect_elements	function	F find	
collect_tags	function	F 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	
D string		F attribute	

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
F position	makestandalone	function

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