MP attributes backends basexx bit32 blobs boolean buffers builders caches callbacks catcodes characters chemistry commands containers context converters coroutine ctxrunner debug dir directives document documentdata drivers environment experiments figures file fio floats font fonts functions global graphics gzip images interactions interfaces io iob languages layouts lfs libraries lmx logs lpdf luatex lxml math mathematics md5 metapost mime moduledata modules mp mplib noads mode nodes number objects optional os ckage pagebuilders parametersets pdfdecode pdfe physics pngdecode publications regimes resolvers sandbox scripts set sha2 sio socket sorters sparse statistics storage streams string structures tabl texconditionals **texconfig** texconstants texifs texisdefined texmodes texsystemmodes thirddata token tokens tracers trackers typesetters updaters url userdata utf8 utilities visualizers xcomplex xdecimal xmath xml xzip zip zlib

# ConT<sub>E</sub>Xt LMTX

# global (alias: \_G)

CONTEXTLMTXMODE	number	directives	table
FFISUPPORTED	boolean	document	table
LUAMAJORVERSION	number	documentdata	table
LUAMINORVERSION	number	dofile	function
LUATEXENGINE	string	drivers	table
LUATEXFORMATID	number	environment	table
LUATEXFUNCTIONALITY	number	error	function
LUATEXVERSION	number	experiments	table
LUAVERSION	number	fasttrack	boolean
MP	function	figures	table
arg	table	file	table
asnumber_p	function	fio	table
assert	function	floats	table
attributes	table	flushsimplerule	function
backends	table	flushspecialrule	function
basexx	table	font	table
bit32	table	fonts	table
blobs	table	functions	table
blockrequire	function	getmetatable	function
boolean	table	getscriptstatus	function
buffers	table	global	table
builders	table	graphics	table
caches	table	gzip	table
callback	table	handledefinitions	function
callbacks	table	handletransformstring	function
catcodes	table	images	table
characters	table	inspect	function
checkimage	function	interactions	table
chemistry	table	interfaces	table
collectgarbage	function	io	table
commands	table	ipairs	function
containers	table	job	table
context	function	language	table
converters	table	languages	table
coroutine	table	layouts	table
createmask	function	lfs	table
ctxrunner	table	libraries	table
data	table	lmx	table
debug	table	load	function
dimen	function	loadfile	function
dir	table	loadstring	function

1	table		+
logs	table	regimes	table
lpdf	table	require required	function function
lpeg	table	•	
lua	table	resolvers	table
luatex	table	ruledspace 	function
lxml	table	sandbox	table
math	table	scripts	table
mathematics	table	select	function
md5	table	set .	table
metapost	table	setinspector	function
mime	table	setmetatable	function
moduledata	table	sha2	table
modules	table	shipbox_ref_h	number
mp	function	shipbox_ref_v	number
mplib	table	sio	table
next	function	socket	table
noads	table	sorters	table
node	table	sparse	table
nodes	table	statistics	table
number	table	status	table
objects	table	storage	table
optional	table	streams	table
optionalrequire	function	string	table
os	table	structures	table
p_number_p	userdata	table	table
p_number_u	userdata	tex	table
package	table	texconditionals	data table
pagebuilders	table	texconfig	table
pairs	function	texconstants	data table
parametersets	table	texifs	data table
pcall	function	texio	table
pdf	table	texisdefined	data table
pdfdecode	table	texmodes	data table
pdfe	table	texsystemmodes	data table
physics	table	thirddata	table
pngdecode	table	toboolean	function
popleaderlevel	function	todecimal	function
print	function	token	table
publications	table	tokens	table
pushleaderlevel	function	tonumber	function
rawequal	function	tostring	function
rawget	function	tracers	table
rawlen	function	trackers	table
rawset	function	type	function

typesetters	table	warn	function
unpack	function	xcomplex	table
updaters	table	xdecimal	table
url	table	xmath	table
userdata	table	xml	table
utf	table	xpcall	function
utf8	table	xzip	table
utilities	table	zip	table
visualizers	table	zlib	table

# attributes (context)

alternates	table		formatgray
N attribute			getpagecolormodel
D data			gray
F enable			graytohsv
F handler			handler
F register		Т	helpers
D registered			F complement
D values			F inbetween
applyoverloads	function		F justone
colorintents	table	F	hsvtogray
N attribute		F	hsvtorgb
D data		F	hwbtorgb
F enable		F	iccprofile
F handler		F	isblack
F register		F	labtorgb
D registered		F	labtoxyz
colors	table	N	main
N attribute		S	model
F cmyk		D	models
F cmyktogray		F	mpcolor
F cmyktorgb		F	mpnamedcolor
F colorcomponent	s	F	mpoptions
D counts		F	namedcolorattributes
B couple		N	none
F currentmodel		F	popset
F currentnamedmo	del	F	processcolorcomponents
D data		F	pushset
N default		F	register
F defineintermed	iatecolor	D	registered
F definemultiton	ecolor	F	registerspotcolor
F defineprocesso	olor	F	rgb
F defineprocesso	olordirect	F	rgbtocmyk
F definesimplegr	ay	F	rgbtogray
F definespotcolo	r	F	rgbtohsv
F definetranspar	ency	F	rgbtoxyz
F enable		N	selector
F filter		F	setlist
N forced		F	setmodel
F forcedmodel		F	setpagecolormodel
F forcesupport		D	sets
F formatcolor		F	spec

F spot		F disabletrigger	ing
F spotcolorname		F enabletriggeri	.ng
F spotcolorparer	t	F finalize	
F spotcolorvalue		F initialize	
B supported		F process	
F toattributes		F selective	
F transparencyco	mponents	F simple	
B triggering		F stacked	
F usecolors		F stacker	
D valid		system	function
F value		tooverloads	function
D values		transparencies	table
B weightgray		N attribute	
F xyztolab		D data	
F xyztorgb		F enable	
define	function	F forcesupport	
effects	table	F handler	
N attribute		T names	
D data		N color	
F enable		N colorburn	
F handler		N colordodge	
F register		N darken	
D registered		N difference	
D values		N exclusion	
handlers	table	N hardlight	
list	data table	N hue	
markasoverload	function	N lighten	
names	data table	N luminosity	
negatives	table	N multiply	
N attribute		N none	
D data		N normal	
F enable		N overlay	
F handler		N saturation	
F register		N screen	
D registered		N softlight	
F set		N none	
numbers	data table	F register	
ofnode	function	D registered	
private	function	B supported	
public	function	F toattribute	
restore	function	B triggering	
save	function	F value	
showcurrent	function	D values	
states	table	unsetvalue	number

#### viewerlayers table

N attribute

F cleanup

D data

F define

F definedlayoutcomponent

F enable

F forcesupport

F handler

B hasorder

D listwise

F register

D registered

F resolve\_begin

F resolve\_end

F resolve\_reset

F resolve\_step

D scopes

F setfeatures

F start F stop

B supported

D values

#### backends (context)

F embedimage

F enabletags

F exportformdata

F fieldsurrounding

F flushmergelayer

closeout function F getbookmarks codeinjections table F getdefaultfieldvalue F boxresourcedimensions F getfieldcategory F registerboxresource F aetfieldset F restoreboxresource F getformatoption current strina F getidentityvariable defaults table F getinfo T codeinjections F getpreviewfigure F insertrenderingwindow T nodeinjections T registrations F jp2 D tables F jpg getcallbackstate function F maptag included table F mergebookmarks B context F mergecomments R date F meraefields B id F mergereferences B metadata F mergeviewerlayers B pdf F newimage install function F png latelua function F prerollreference nodeinjections table F presetsymbol nothing function F presetsymbollist openout function F processrendering pdf table F registerdocumentcloseaction T codeinjections F registerdocumentopenaction F addbookmarks F registeredsymbol F analyzenormalsymbol F registerpagecloseaction F analyzesymbol F registerpageopenaction F attachmentid F registerpattern F bitmap F registersymbol F clonefield F scanimage F copyimage F setattachmentsupport F definefield F setfieldcalculationset F definefieldset F setfigurealternative F defineviewerlayer F setfigurecolorspace F embedfile F setfiguremask

previous 7 next

F setformat

F setformsmethod

F setupidentity

F setpagetransition

F settaggingsupport

F setxmpfile
F startlayer
F startunicodetoactualtext

F startunicodetoactualtextdirect

F stoplayer
F stopunicodetoactualtext

F stopunicodetoactualtextdirect

F supportedformats
F unicodetoactualtext

F useviewerlayer
F validfield

F validfieldcategory

F validfieldset F wrapimage

T nodeinjections

S comment

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 insertu3d

F knockout F negative

F overprint

F positive F reference

F rgbcolor F spotcolor

F startalternate

F startlayer

F startstackedlayer
F stopalternate

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

registrations table
tables table
writeout function

# basexx (extra lua)

decode16	function	encode16	function
decode64	function	encode64	function
decode85	function	encode85	function
decodeLZW	function	encodeLZW	function
decodeRL	function	encodeRL	function

# bit32 (basic lua)

arshift	function	extract	function
band	function	lrotate	function
bnot	function	lshift	function
bor	function	replace	function
btest	function	rrotate	function
bxor	function	rshift	function

## blobs (context)

append	function	strht	function
dimensions	function	strwd	function
dispose	function	tohpack	function
new	function	tonodes	function
pack	function	tovpack	function
strdp	function	write	function
strhd	function		

## boolean (context)

tocontext function
tonumber function

## buffers (context)

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

# builders (context)

checkparcontext		F tag	
checksidefloat	function	<b>profiling</b> table	
kernel	table	F add	
F collapsing		F distance	
F hyphenating		F fixedprofile	
F kerning		F get	
F ligaturing		F list	
F mlisttohlist		F pagehandler	
paragraphs	table	F profilebox	
T constructors		F set	
N attribute		<b>vspacing</b> table	í
F define		D categories	
F disable		F checkstrutdepth	
F enable		F collapsevbox	
F handler		T data	
T methods		D map	
F basic		D skip	
F default		D snapmethods	
F hpack		F definesnapmethod	
F oneline		B fixed	
D names		F forcepageflush	
D numbers		F forcestrutdepth	
F set		F getnofpreviouslines	
F start		F inject	
F stop		F injectdisable	
T expansion		F injectpenalty	
F trace		F injectskip	
F keeptogether		F pagehandler	
F registertogethe	r	F pageoverflow	
T solutions		F popatsame	
T splitters		F pushatsame	
F define		F setmap	
F optimize		F setskip	
T registered		F snapbox	
F reset		F synchronizepage	
F set		F tocategories	
F split		F tocategory	
F start		F vboxhandler	
F stop			

# caches (context)

base	string	loadcontent	function
collapsecontent	function	loaddata	function
configfiles	function	more	string
contentstate	function	savecontent	function
defaults	table	savedata	function
getfirstreadablefile	function	setfirstwritablefile	function
getreadablepaths	function	setluanames	function
getwritablepath	function	treehash	function
hashed	function	usedpaths	function
is_writable	function		

#### callback (basic tex)

find function
known function
list function

register overloaded function

usage function

#### callbacks (context)

freeze function
functions table

F start\_page\_number

F stop page number

known function
list data table
pop function
push function
register function
report function

**supported** table

B append\_to\_vlist\_filter

B begin\_paragraph

B build page insert

B buildpage\_filter

B contribute\_filter

B define\_font

B find\_format\_file

B find\_log\_file

B get\_attribute

B glyph\_run

B handle\_overload

B hpack\_filter

B hpack\_quality

B hyphenate

B insert par

B intercept lua error

B intercept tex error

B kerning

B ligaturing

B linebreak\_filter

B make extensible

B missing character

B mlist to hlist

B open data file

B paragraph context

B post\_linebreak\_filter

B pre dump

B pre\_linebreak\_filter

B pre output filter

B process jobname

B show\_error\_message

B show\_lua\_call

B show warning message

B show\_whatsit

B start\_file

B start run

B stop\_file

B stop\_run
B trace memory

B vpack filter

B vpack quality

B wrapup run

#### catcodes (context)

 register function

#### characters (context)

adobename	function	T anudatta	
bidi	data table	T before_half	
blockrange	function	T before_main	
blocks	data table	T before_postscript	
casemap	table	T before_subscript	
categories	data table	T below_mark	
category	function	T consonant	
categorytags	data table	T dependent_vowel	
classifiers	table	T halant	
collapsed	data table	T independent_vowel	
combined	data table	T nukta	
contextname	function	T post_mark	
csletters	data table	T pre_mark	
data	data table	T ra	
decomposed	data table	T stress_tone_mark	
description	function	T twopart_mark	
descriptions	data table	T vowel_modifier	
detailtags	data table	initialize	function
directions	table	is_character	data table
emoji	table	is_command	data table
F compact		is_hyphenator	data table
F known		is_letter	data table
F resolve		is_mark 	data table
emojized	function	is_punctuation	data table
enccodes	data table	is_spacing	data table
entities	data table	is_symbol 	data table
fallbacks	data table	lcchars	data table
filters	data table	lccode	function
fractions	table	lccodes	data table
fromnumber	function	lettered	function
fschars	data table	lhash	data table
fscodes	data table	linebreaks	data table
getrange	function	lower	function
graphemes	data table	mathlists	data table
hangul	data table	mirrors	table
indicgroups	table	otfscripts	data table
T above_mark		private	table
T after_half		ranges	data table
T after_main		registerentities	function
T after_postscript		remap_hangul_syllabe	function
T after_subscript		scripthash	table

function setactivecatcodes setlettercatcodes function setothercatcodes function function shape shaped function shash data table shchars data table data table shcodes showstring function **specialchars** data table specials data table splits table T char

T char
T compat

subscriptstablesuperscriptstablesynonymsdata tabletextable

D accentmapping
D commandmapping
F defineaccents
F safechar
F strtextoutf
F strtoutfpattern
F toutf

F toutfpattern

textclasses table tonumber function ucchars data table uccode function uccodes data table uhash data table unicodechar function function upper verbosemarks data table

#### chemistry (context)

component	function
define	function
definitions	data table
format	string
inlinechemical	function
instance	string

method string
molecule function
moleculeparser userdata
start function
stop function
undefine function

## containers (context)

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

## converters (context)

A	function	cn-c	function
A:es	function	convert	function
A:ru	function	decimals	function
A:sl	function	define	function
AK	function	gregorian to hebrew	function
Alphabetic	function	gregorian_to_jalali	function
Alphabetic:es	function	hebrewnumerals	function
Alphabetic:ru	function	helpers	table
Alphabetic:sl	function	hexstringtonumber	function
Character	function	i	function
Characters	function	isleapyear	function
I	function	jalali_to_gregorian	function
KA	function	lchexnumber	function
KR	function	lchexnumbers	function
R	function	leapyear	function
RK	function	lower	function
Romannumerals	function	max	function
Russiannumerals	function	maxchrs	function
Sloveniannumerals	function	nicenumber	function
Spanishnumerals	function	nofdays	function
Word	function	number	function
Words	function	numbers	function
a	function	octnumber	function
a:es	function	octstringtonumber	function
a:ru	function	ordinal	function
a:sl	function	r	function
abjadnodotnumerals	function	rawcharacter	function
abjadnumerals	function	romannumerals	function
alphabetic	function	russiannumerals	function
alphabetic:es	function	sequences	data table
alphabetic:ru	function	settime	function
alphabetic:sl	function	sloveniannumerals	function
character	function	spaceddigits	function
characters	function	spanishnumerals	function
chineseallnumerals	function	textime	function
chinesecapnumerals	function	toabjad	function
chinesenumerals	function	tochinese	function
chr	function	tohebrew	function
chrs	function	toroman	function
cn	function	totime	function
cn-a	function	uchexnumber	function

uchexnumbers upper verbose function function table F translate
weekday
word
words

function function function

## coroutine (basic lua)

close	function	running	function
create	function	status	function
isyieldable	function	wrap	function
resume	function	yield	function

#### ctxrunner (context)

load function prepfiles data table
preparedfile function resolve function

#### data (context)

action function depth number height number prerolled string
width number

## debug (basic lua)

getinfo function
sethook function

traceback function

# dir (context)

collectpattern	function
current	function
expandname	function
found	function
glob	function
globdirs	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
reset	function
show	function
value	function
values	function

#### document (context)

arguments files functions getargument getfilename options data table table table function function table D modes
D modules
targument

function setargument setcommandline function setdefaultargument function setenvironments function setfilename function setfilenames function setmodes function setmodules function variables data table

T commandline
D environments

D modes
D modules
T ctxfile

D environments

## documentdata (context)

variable function

# drivers (context)

convert	function	F popleaderlevel
converte	<b>rs</b> table	F pushleaderlevel
F engin	e	F rule
F lmtx		F simplerule
enable	function	F specialrule
gethpos	function	F updatefontstate
getpos	function	T whatsit
getrpos	function	S name
getvpos	function	T json
helpers	table	T actions
install	function	F cleanup
instance	<b>s</b> table	F convert
T defau	lt	F finalize
T act	ions	F initialize
F co	onvert	F outputfilename
F ou	utputfilename	F prepare
T flu	shers	F wrapup
F po	ppleaderlevel	T flushers
F pu	ushleaderlevel	F character
T wh	natsit	F popleaderlevel
S name	е	F pushleaderlevel
T empty		F rule
T act	ions	F simplerule
F co	onvert	F specialrule
F pr	repare	F updatefontstate
T flu	shers	T whatsit
F po	ppleaderlevel	S name
Fρι	ıshleaderlevel	T lua
T wh	natsit	T actions
S name	е	F cleanup
T js		F convert
T act	ions	F finalize
F cl	.eanup	F initialize
F co	onvert	F outputfilename
F fi	inalize	F prepare
Fir	nitialize	F wrapup
F ou	ıtputfilename	T flushers
F pr	repare	F character
F wr	apup	F popleaderlevel
T flu	shers	F pushleaderlevel
F ch	naracter	F rule

F simplerule S name F specialrule T pdf F updatefontstate T actions T whatsit F cleanup S name F convert F finalize T mpo T actions F initialize F finalize F outputfilename F initialize F prepare T flushers F wrapup F character T flushers F popleaderlevel F character F pushleaderlevel F fontchar F rule F group F simplerule F image F specialrule F literal T whatsit F popleaderlevel S name F poporientation T mps F pushleaderlevel F pushorientation T actions F cleanup F restore F convert F rule F finalize F save F initialize F setmatrix F outputfilename F setstate F prepare F simplerule F wrapup F specialrule T flushers F startclipping F character F startmatrix F popleaderlevel F startmirroring F startrotation F pushleaderlevel F rule F startscaling F simplerule F stopclipping F specialrule F stopmatrix F updatefontstate F stopmirroring T whatsit F stoprotation S name F stopscaling F updatefontstate T none T actions T whatsit T flushers S name F popleaderlevel **lmtxversion** number outputfilename function F pushleaderlevel T whatsit report function

# environment (context)

argument	function	luafile	function
arguments	data table	luafilechunk	function
basicengines	data table	luatexengine	string
currentrun	number	luatexfunctionality	number
definefilefallback	function	luatexversion	number
definefilesynonym	function	maxnofruns	number
engineflags	data table	oldhome	string
filename	string	originalarguments	data table
filenames	table	outputfilename	string
files	table	ownbin	string
filesynonyms	data table	ownmain	string
forcedruns	number	ownname	string
getargument	function	ownpath	string
homedir	string	prerollrun	boolean
initex	boolean	rawarguments	data table
initexmode	boolean	reconstructcommandline	function
initializearguments	function	relativepath	function
initializefilenames	function	setargument	function
inputfilebarename	string	splitarguments	function
inputfilename	string	suffix	string
inputfilesuffix	string	texfile	function
jitsupported	boolean	texmfos	string
jobfilefullname	string	texos	string
jobfilename	string	texroot	string
jobfilesuffix	string	truefilename	function
jobname	string	useluamodule	function
kindofrun	number	usemodules	function
lmtxmode	number	validengines	data table
loadexamodes	function	version	string
loadluafile	function		

### experiments (context)

data	data table		
default	function		
disable	function		
done	table		
enable	function		
list	function		
name	string		

register function
report function
reset function
show function
value function
values function

#### figures (context)

F resetstore

applyratio function F scan badname function F serialize bases data table T sizes bitmapimage function R art boxnumber number B bleed cachepaths data table B crop check function B media checkers data table R none converters data table R trim current function F storedata defaultdepth number F totable defaultheight number T types defaultsearch hool ean N jbig2 defaultwidth number N jp2 done function N jpg function dummv N none existers data table N pdf exists function N png formats data table N stream found data table F wrap function include function get includers data table aetinfo function initialize getpdfinfo function function getrealpage function loaded data table data table function localpaths auess guessfromstring data table function magics function function hash mergegoodies identifiers data table number nofmissing identify function nofprocessed number table data table images order data table F check paths data table F checksize patterns function F copy pop preferguality boolean F create data table programs F embed function F embedfromstore push function F fetchdata registerpattern registerresource function T keys function registersuffix F print data table F resetdata remappers resources data table

scale	function	setpaths	function
set	function	suffixes	data table
setlookups	function	used	data table
setorder	function		

## file (basic lua)

addsuffix	function	needsupdating	function
basename	function	pathpart	function
checksum	function	readdata	function
collapsepath	function	removesuffix	function
сору	function	replacesuffix	function
dirname	function	reslash	function
expandname	function	robustname	function
extname	function	savechecksum	function
is_qualified_path	function	savedata	function
is_readable	function	size	function
$\verb"is_rootbased_path"$	function	splitbase	function
is_writable	function	splitname	function
isreadable	function	splitpath	function
iswritable	function	strip	function
join	function	suffix	function
joinpath	function	suffixes	function
loadchecksum	function	suffixesonly	function
nameonly	function	suffixonly	function
nametotable	function	syncmtimes	function
needs_updating	function	withinbase	function

#### fio (extra lua)

getposition	function	readinteger2le
read2dot14	function	readinteger3
readbytes	function	readinteger3le
readbytetable	function	readinteger4
readcardinal1	function	readinteger4le
readcardinal1le	function	readintegertable
readcardinal2	function	readline
readcardinal2le	function	setposition
readcardinal3	function	skipposition
readcardinal3le	function	writecardinal1
readcardinal4	function	writecardinal1le
readcardinal4le	function	writecardinal2
readcardinaltable	function	writecardinal2le
readfixed2	function	writecardinal3
readfixed4	function	writecardinal3le
readinteger1	function	writecardinal4
readinteger1le	function	writecardinal4le
readinteger2	function	

function

function

function

function

function

function
function

function
function

function

function

function
function

function

function

function

## floats (context)

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

## font (basic tex)

${\bf add characters}\\$	function	id	function
current	function	max	function
define	function	nextid	function
getfont	function	setfont	function
getfontdimen	function	setfontdimen	function

# fonts (context)

-		
analyzers	table	F currentfonthasfeature
D features		D designsizes
D initializers		F enhanceparameters
D methods		T enhancers
F setstate		Tafm
D states		F apply
B useunicodemarks		F patch
checkers	table	T patches
F getmissing		F register
D mapping		F report
F missing		F register
F placeholder		F report
cid	table	T otf
F getmap		F addfeature
F loadfile		F apply
collections	table	F enhance
F checkenabled		F patch
F clonevector		T patches
F define		F register
T definitions		F report
F found		F register
F prepare		F report
F process		T tfm
F register		F apply
F registermain		F patch
F report		T patches
F reset		F register
T vectors		F report
constructors	table	F register
F addcharacters		F report
F addcoreunicodes		N factor
F aftercopyingcha	racters	T features
F applyfinalizers		D afm
F applymanipulato	rs	D otf
F assignmathparame	eters	D tfm
F beforecopyingcha	aracters	F finalize
D cache		F getfeatureaction
F calculatescale		F getmathparameter
F checkedfeatures		F getprivate
F checkedfilename		T handlers
F collectprocesso	rs	T afm

B autoprefixed	F getalternate
D cache	F getgsub
D features	F getkern
F getkern	F getmultiple
T helpdata	F getstreamhash
D bothkerned	F getsubstitution
D leftkerned	T handlers
D ligatures	F devanagari_remove_joiners
D rightkerned	F devanagari_reorder_matras
D texligatures	F devanagari_reorder_pre_base_reordering_consonants
F load	F devanagari_reorder_reph
T readers	F gpos_context
F getinfo	F gpos_contextchain
F loadfont	F gpos_cursive
F loadshapes	F gpos_mark2base
F setfeatures	F gpos_mark2ligature
B syncspace	F gpos_mark2mark
N version	F gpos_pair
T otf	F gpos_single
F addfeature	F gsub_alternate
F basemodeinitializer	F gsub_context
D cache	F gsub_contextchain
F collectlookups	F gsub_ligature
T coverup	F gsub_multiple
T actions	F gsub_reversecontextchain
F alternate	F gsub_single
F chainposition	F trigger_space_kerns
F chainsubstitution	T helpers
F kern	F blockligatures
F ligature	F pardirstate
F multiple	F txtdirstate
F pair	F load
F single	F loadoutlinedata
F substitution	F loadstreamdata
F register	F modeinitializer
S stepkey	D mpscache
F dataset	D pdfcache
F datasetpositionprocessor	F plugininitializer
S defaultbasealternate	F pluginprocessor
S defaultnodealternate	T plugins
D features	T text
F featuresinitializer	D pngcache
F featuresprocessor	B pngenabled
F getactualtext	T readers

F addunicodetable	F gvar
F avar	F head
F cbdt	T helpers
F cblc	F axistofactors
F cff	F cleanname
F cff2	F getaxisscale
F cffcheck	F getfactors
T cffencoder	F getscales
F checkhash	F gotodatatable
F cmap	F normalizedaxis
F colr	T normalizedaxishash
F compact	F readvariationdata
F cpal	F reportskippedtable
F ebdt	F setvariabledata
F eblc	F hhea
F ebsc	F hmtx
F expand	F hvar
F extend	F kern
F fvar	F loadfont
F gdef	F loadshapes
F getcomponents	F loca
F getinfo	F math
F glyf	F maxp
F gpos	F mvar
T gposhandlers	F name
F chainedcontext	F os/2
F context	F pack
F cursive	F parsecharstrings
F extension	F post
F marktobase	F registerextender
F marktoligature	F rehash
F marktomark	F sbix
F pair	F stat
F single	T streamreader
F gsub	F close
T gsubhandlers	F getposition
F alternate	F getsize
F chainedcontext	F look
F context	F open
F extension	F read2dot14
F ligature	F readbyte
F multiple	F readbytes
F reversechainedcontextsingle	F readbytetable
F single	F readcardinal

F readcardinal1	F writeinteger3
F readcardinal1le	F writeinteger3le
F readcardinal2	F writeinteger4
F readcardinal2le	F writeinteger4le
F readcardinal3	F writestring
F readcardinal3le	F stripredundant
F readcardinal4	F svg
F readcardinal4le	N tableversion
F readcardinaltable	F unifymissing
F readchar	F unpack
F readfixed2	F vhea
F readfixed4	F vmtx
F readinteger	F vorg
F readinteger1	F vvar
F readinteger1le	F woff2otf
F readinteger2	F registerpalette
F readinteger2le	F registerplugin
F readinteger3	F reorderlookups
F readinteger3le	F scriptandlanguage
F readinteger4	F setdynamics
F readinteger4le	F setfeatures
F readintegertable	T statistics
F readsignedbyte	D usedfeatures
F readstring	D svgcache
F readtag	B svgenabled
F setposition	T tables
F size	D baselines
F skip	D features
F skiplong	D featuretypes
F skipposition	D languages
F skipshort	D scripts
F writebyte	F texthandler
F writecardinal1	N version
F writecardinal1le	T pfb
F writecardinal2	F loadvector
F writecardinal2le	T tfm
F writecardinal3	D cache
F writecardinal3le	D features
F writecardinal4	N maxnestingdepth
F writecardinal4le	N maxnestingsize
F writeinteger1	T readers
F writeintegerlle	Floadpk
F writeinteger2	Floadtfm
F writeinteger2le	F loadtfmvf

F loadvf		F addlookup			
F pktopdf					
F showpk		F applypostproces	sors		
F reencode		F checkedmode			
F setfeatures		F checkedscript			
N version		S defaultlookup			
T vf		F define			
T combinations	5	F getspecificatio	n		
F combine		F internal			
T combiner		F loadfont			
D commands		F makespecificati	on		
D helpers		T methods			
D math		F install			
N version		D variants			
D whatever		F read			
F hashfeatures		F register			
F hashinstance		F registered			
T hashmethods		F registerfallbac	kfont		
F normal		F registersplit			
F virtual		F resetnullfont			
F initializefeatu	F initializefeatures F resolve				
D loadedfonts T resolvers					
N noffontsloaded		F file			
N nofsharedfonts F name		F name			
N nofsharedhashes		F spec			
N nofsharedvector	S	definetypeface	function		
N privateoffset		dropins	table		
D privateslots		F clone			
F readanddefine		F getshape			
F registerfeature		F getshapes			
F resetfeature		F nextid			
B resolvevirtualt	00	F provide	F provide		
F scale		F registerglyph			
F scaled		F registerglyphs			
F setfactor		F swap			
F setfeature		F swapone			
F setmathparamete	r	encodings	table		
F setname		T agl			
B sharefonts		D ctxcodes			
F trytosharefont		D extras			
N version	£	D names			
current	function	D synonyms			
currentid	function	D unicodes			
definers	table	D cache			

D known		D	filenames	
F load		F	getcompositions	
F make_unicode_vec	tor	Т	list	
D math		F	load	
N version		F	prepare_features	
enhanceid	function	F	register	
expansions	data table	F	registerpostprod	essor
formats	data table	F	report	
getalternate	function	Т	suffixes	
getindices	function	hand	lers	table
getkern	function	hash	es	table
getmultiple	function	D	characters	
getsubstitution	function	D	classes	
getters	table	D	csnames	
T alternate		D	descriptions	
F opentype		D	dynamics	
T kern		D	emwidths	
F opentype		D	exheights	
F type1		D	extensibles	
F type3		D	features	
T multiple		D	identifiers	
F opentype		D	italics	
T substitution		D	lastmathids	
F opentype		D	marks	
goodies	table	D	mathparameters	
D colorschemes		D	modes	
T data		D	originals	
T dejavu-math		D	parameters	
S author		Т	processes	
S comment		D	properties	
S copyright		D	quads	
B initialized		D	resources	
T mathematics		Т	setdynamics	
T alternates		Т	shapes	
T dotless		D	spaces	
S comment		D	spacings	
S feature		Т	streams	
N value		D	unicodes	
T kerns		D	variants	
T *:0x1D449			xheights	
T bottomr	ight	help	ers	table
S name		F	addextraprivate	
S version		F	addprivate	

D designsizes

F is\_known

F	appendcommands		Т	vfspecials		
F	appendcommandtable			T backgrounds		
F	checkflags			T outlines		
F	checkmerge	int	fo	font	funct	tion
F	checksteps	ite	er	ators	table	9
F	collectanchors		F	characters		
F	combineglyphs		F	descriptions		
D	commands		F	glyphs		
F	composecharacters	log	gg	ers	table	9
F	descriptiontoslot		F	format		
F	dimenfactor		F	onetimemessage		
F	expandglyph		F	register		
Т	extraprivates		F	reportdefinedfor	nts	
F	fontpatternhassize		F	reportusedfeatu	res	
F	getcoloredglyphs	map	pp	ings	table	9
F	getdigitwidth		F	addtounicode		
F	getinstancespec		F	fromunicode16		
F	getparameters		F	getentry		
F	getprivatecharornode		F	loadfile		
F	getprivatenode		F	loadline		
F	getprivates		F	makenameparser		
F	getprivateslot		D	overloads		
F	hasprivate		F	reset		
F	indextoslot		F	tounicode		
F	mathscriptslots		F	tounicode16		
F	name		F	tounicode16seque	ence	
F	nametoslot	met	ta	post	table	9
F	newprivateslot		F	boundingbox		
F	prependcommands		F	boxtomp		
F	prependcommandtable		F	draw		
F	privateslot		F	fill		
F	registerglyphbox		F	glyph		
F	scalecommands		F	maxbounds		
F	setboxglyph		F	paths		
F	setboxglyphs		F	widthline		
F	setdigitwidth		F	zeroline		
F	setmetaglyph	nar	ne	S	data	table
F	setmetaglyphs	nul	ιι	data	data	table
F	splitfontpattern	pri	iν	ateoffsets	table	9
F	tochar		В	keepnames		
Т	vfinjectors		N	mathbase		
	F pdf		N	mathextrabase		
	F startcolor		N	textbase		
	F stopcolor		N	textextrabase		

rot	rusions	data table	F	registerfallback	(
ead	ers	table	F	registerfiles	
F	afm		F	registerfontalte	ernative
F	check_lua		F	registerfontfami	lly
F	check_tfm		F	textfallback	
F	lua		F	typeface	
F	ofm		F	typescript	
F	opentype		F	userdata	
F	otf		spec	ifiers	table
F	pfb		D	contextmerged	
D	sequence		F	contextnumber	
F	tfm		D	contextnumbers	
F	ttc		D	contextsetups	
F	ttf		F	${\tt context to string}$	
F	woff		F	definecontext	
ese	rveid	function	F	mergecontext	
ele	ct	table	F	presetcontext	
D	alternatives		F	registercontext	
F	bodyfont		F	showcontext	
D	data		F	splitcontext	
F	default		D	synonyms	
D	defaults		D	variants	
F	definefallbackfa	mmily	symb	ols	table
F	definefontfamily	1	Т	emoji	
F	definefontfamily	rpreset		F checked	
D	extras			F resolved	
F	fallback		F	uselibrary	
D	fallbacks		tabl	.es	table
F	features		trac	ers	table
F	filefallback		trea	tments	table
F	fontdata		F	applyfixes	
F	fontfallback		D	data	
F	fontsynonym		S	filename	
F	goodies		F	ignoredfile	
F	mathfallback		F	report	
D	methods		F	trace	

D presets

typefaces table

### functions (context)

**dummy** function

### graphics (context)

backgrounds	table
F fetchmultipar	•
F pair	
F path	
F point	
bitmaps	table
F flush	
F new	
F placeholder	
F tocontext	
identifiers	table
F bitmap	
F jp2	
F jpg	
F png	

identify function

```
synchronizers table

F collapse
F collect
F extend
F getbottom
F getd
F geth
F getkind
F getsize
F gettask
F gettop
F getw
F getx
F gety
F prune
```

## gzip (extra lua)

compress	function	load	function
compressed	function	save	function
decompress	function	suffix	function

## images (context)

check	function	В сгор	
checksize	function	B media	
сору	function	B none	
create	function	B trim	
embed	function	storedata	function
${\tt embedfromstore}$	function	totable	function
fetchdata	function	types	table
keys	table	N jbig2	
print	function	N jp2	
resetdata	function	N jpg	
resetstore	function	N none	
scan	function	N pdf	
serialize	function	N png	
sizes	table	N stream	
B art		wrap	function
B bleed			

#### interactions (context)

attachments data table D functions fields table D preambles F clone F setpreamble F define F storecode F defineset F storepreamble F insert F usepreamblenow general table F usescripts linkedlists data table F getidentity pages table F setupidentity help table F setpagetransition F collect F setupcanvas table references F reference F register F setclosedocument javascripts table F setclosepage F addtopreamble F setopendocument F code F setopenpage renderings data table D codes soundclips F flushpreambles data table

### interfaces (context)

		_	
arrays	table	namesofscanners	table
cachedsetups	data table	namespaces	table
cachesetup	function	F define	
cardinals	table	F list	
checkedspecification	function	numbers	table
complete	data table	registernamespace	function
constants	data table	registerscanner	function
corenamespaces	data table	scanners	data table
currentinterface	string	setconstant	function
currentresponse	string	setcount	function
definecommand	function	setdimen	function
defined	function	setelement	function
doifelsemessage	function	setformat	function
elements	data table	setmacro	function
floats	table	setmessage	function
formats	data table	setmessages	function
getmessage	function	settranslation	function
getnamespace	function	setupstrings	data table
getsetupstring	function	setvariable	function
hashedsetups	data table	showmessage	function
implement	function	storedscanners	data table
integers	table	tolist	function
interfacedcommand	function	translations	data table
interfaces	table	usednamespaces	data table
knownscanner	function	variables	data table
message	function	writestatus	function
nameofscanner	function		

#### io (basic lua)

ask	function	
bytes	function	
characters	function	
close	function	
copydata	function	
exists	function	
fileseparator	string	
flush	function	
input	overloaded	function

lines overloaded function

loadchunk function
loaddata function
loadlines function
newreader function
noflines function

 output overloaded function pathseparator string overloaded function popen read function readall function readnumber function readstring function savedata function size function stderr userdata stdin userdata stdout userdata tmpfile function

function

function

type

write

## job (context)

comment	function	D	tobesaved	
datasets	table	parw	rappers	table
D collected		D	collected	
F extend		D	tobesaved	
F getdata		pass	es	table
F setdata		F	check	
D tobesaved		D	collected	
disablesave	function	F	count	
embedded	table	F	define	
D collected		F	find	
D tobesaved		F	first	
fileobjreferences	table	F	get	
D collected		F	getcollected	
D tobesaved		F	getdata	
files	table	F	getfield	
D collected		F	gettobesaved	
F context		F	inlist	
B forcerun		F	last	
F run		F	list	
D tobesaved		F	save	
getrandomseed	function	F	savetagged	
3		•		
initialize	function		tobesaved	
		D	tobesaved	table
initialize	function	posi.	tobesaved	table
initialize load	function function	p <b>osi</b> :	tobesaved tions	table
initialize load loadother	function function function	p <b>osi</b> :	tobesaved tions b_column b_region	table
initialize load loadother objects	function function function	posi:  F F F	tobesaved tions b_column b_region	table
initialize load loadother objects D collected	function function function	posi:  F F D	tions b_column b_region c	table
<pre>initialize load loadother objects     D collected     F get</pre>	function function function	posi F F F D	tobesaved tions b_column b_region c collected	table
<pre>initialize load loadother objects     D collected     F get     F number</pre>	function function function	D posi	tobesaved tions b_column b_region c collected column	table
<pre>initialize load loadother objects     D collected     F get     F number     F page</pre>	function function function	D posi	tobesaved tions b_column b_region c collected column columnofpos	table
<pre>initialize load loadother objects     D collected    F get    F number    F page    F save</pre>	function function function	D <b>posi</b> :  F F D F F F F F	tobesaved tions b_column b_region c collected column columnofpos copy	table
<pre>initialize load loadother objects     D collected     F get     F number     F page     F save     F set</pre>	function function function	D posi:  F F D F F F F F F F	tobesaved tions b_column b_region c collected column columnofpos copy depth	table
initialize load loadother objects  D collected F get F number F page F save F set D tobesaved	function function function table	D <b>posi</b> F  F  D  F  F  F  F  F	tobesaved tions b_column b_region c collected column columnofpos copy depth e_column	table
initialize load loadother objects  D collected F get F number F page F save F set D tobesaved pack	function function function table	D posi:     F    F    F    F    F    F    F	tobesaved tions b_column b_region c collected column columnofpos copy depth e_column e_region	table
initialize load loadother objects  D collected F get F number F page F save F set D tobesaved pack packversion	function function function table  boolean number	D posi:      F     F     F     F     F     F	tobesaved tions b_column b_region c collected column columnofpos copy depth e_column e_region enhance	table
initialize load loadother objects  D collected F get F number F page F save F set D tobesaved pack packversion pagestates	function function function table  boolean number	D posi	tobesaved tions b_column b_region c collected column columnofpos copy depth e_column e_region enhance extra	table
initialize load loadother objects  D collected F get F number F page F save F set D tobesaved pack packversion pagestates D collected	function function function table  boolean number	D posi:      F     F     F     F     F     F	tobesaved tions b_column b_region c collected column columnofpos copy depth e_column e_region enhance extra get	table
initialize load loadother objects  D collected F get F number F page F save F set D tobesaved pack packversion pagestates D collected F countervalue	function function function table  boolean number	D posi:      F     F     F     F     F     F	tobesaved tions b_column b_region c collected column columnofpos copy depth e_column e_region enhance extra get getfree	table
initialize load loadother objects  D collected F get F number F page F save F set D tobesaved pack packversion pagestates D collected F countervalue F extend	function function function table  boolean number	D posi:     F    F    F    F    F    F    F	tobesaved tions b_column b_region c collected column columnofpos copy depth e_column e_region enhance extra get getfree gethpos	table
initialize load loadother objects  D collected F get F number F page F save F set D tobesaved pack packversion pagestates D collected F countervalue F extend F realpage	function function function table  boolean number	D posi:     F    F    F    F    F    F    F	tobesaved tions b_column b_region c collected column columnofpos copy depth e_column e_region enhance extra get getfree gethpos getpos	table

F gettobesaved	F settobesaved	
F getvpos	D tobesaved	
F hangafter	F upperleft	
F hangindent	F upperright	
F height	F used	
F hsize	F whd	
N lastx	F width	
N lasty	F x	
F leftskip	F xy	
F lowerleft	F y	
F lowerright	register	function
F markregionbox	save	function
Fn	structure	table
F onsamepage	D collected	
F overlapping	T components	
Fp	T tobesaved	
F page	T branches	
T pagedata	S name	
F paragraph	S type	
F parindent	variables	table
F position	D checksums	
Fr	D collected	
F region	F getchecksum	
F registerhandlers	F makechecksum	
F replace	F restore	
F rightskip	F save	
F set	F setchecksum	

F setall

F setregionbox F setspec D tobesaved

number

version

## language (basic tex)

clean	function	id	function
clearhyphenation	function	new	function
clearpatterns	function	patterns	function
current	function	postexhyphenchar	function
gethjcode	function	posthyphenchar	function
has_language	function	preexhyphenchar	function
hyphenate	function	prehyphenchar	function
hyphenation	function	sethjcode	function
hyphenationmin	function	setwordhandler	function

## languages (context)

F injecthyphens

addgoodiesdata	function	F installmethod	
addgoodiesfile	function	F lasttrace	
appliedoptions	table	F loadpatterns	
associate	function	F registerexception	
associated	data table	F registerpattern	
association	function	F setfeatures	
counters	data table	installed	function
current	function	installhandler	function
data	data table	labels	table
decimals	data table	F define	
define	function	F split	
explicithyphen	function	loadable	function
flatten	function	loadwords	function
frequencies	table	logger	table
F averagecharwidth		F report	
F getdata		nofflattened	function
getdata	function	numbers	data table
getnumber	function	postexhyphenchar	function
goodiefiles	function	posthyphenchar	function
hjcounts	table	preexhyphenchar	function
hyphenate	function	prehyphenchar	function
hyphenators	table	registered	data table
T dictionaries		registeredactions	table
D featuresets		replacements	table
F handler		F add	
T methods		F addlist	
F expanded		F handler	
B none		F set	
F original		serializediscretionary	function
F tex		setexceptions	function
F traditional		setgoodieshandler	function
F popmethod		setoptions	function
F pushmethod		setpatterns	function
F setmethod		setsynonym	function
F setup		setwordhandler	function
F showhyphenationtrace		showdiscretionaries	function
T traditional		strippedgoodiewords	function
F definefeatures		tolang	function
F gettrace		transliteration	table
F hyphenate		F define	

F handler

F set		words
unload	function	F check
urls	table	T data
D characters		F disable
N lefthyphenmin		F enable
D mapping		T enablers
B packslashes		B enables
N righthyphenmin		F found
F setcharacters		F load
version	number	T methods

N threshold

visualizediscretionaries function

table

### layouts (context)

getcanvasfunctionstatustagetpagedimensionsfunctionF isleftpagesetupcanvasfunctionF leftorrightpageaction

table

#### lfs (extra lua)

attributes overloaded function iswriteablefile function chdir overloaded function link overloaded function currentdir function mkdir overloaded function dir overloaded function mkdirs function isdir overloaded function modification function isfile overloaded function readlink function isfound function rmdir overloaded function isreadabledir function setexecutable function isreadablefile function symlink function iswriteabledir function overloaded function touch

### 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 function make new function overloaderror function popupfile function print function pν function report function reset function result function set function show function showerror function stripcss function tν function function type 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	setformatters	function
categories	function	setlogfile	function
direct	function	setmessenger	function
disable	function	setprocessor	function
enable	function	settarget	function
finalactions	function	settimedlog	function
flush	function	settranslations	function
loggingerrors	function	show	function
messenger	function	start_page_number	function
new	function	start_run	function
newline	function	starterrorlogging	function
poptarget	function	startfilelogging	function
private	table	status	function
F enablepagetiming		stop_page_number	function
F getpagetiming		stoperrorlogging	function
pushtarget	function	stopfilelogging	function
registerfinalactions	function	subdirect	function
report	function	subreport	function
reporter	function	texerrormessage	function
setformats	function	writer	function

## lpdf (context)

action	function	delayedobject	function
adddocumentcolorspace	function	destinationspecification	function
adddocumentextgstate	function	dictionary	function
adddocumentpattern	function	docstring	function
adddocumentshade	function	epdf	table
addtocatalog	function	F analyzefonts	
addtoinfo	function	F contenttotext	
addtonames	function	F expanded	
addtopageattributes	function	F getpagecontent	
addtopageresources	function	F getstructure	
addtopagesattributes	function	T image	
addxmpinfo	function	F close	
annotationspecification	function	F copy	
array	function	F new	
attachmentsymbols	function	F open	
boolean	function	F query	
border	function	F load	
checkedkey	function	F parsecontent	
checkedvalue	function	F plugin	
circularshade	function	T resolvers	
cmykcode	function	F destinations	
collectedresources	function	F embeddedfiles	
color	function	F javascripts	
colorspace	function	F layers	
colorspaceconstants	data table	F pages	
colorspec	function	F structure	
colorvalue	function	F widgets	
colorvalues	function	F stripcontent	
commentsymbols	function	F unload	
compresslevel	function	escaped	function
constant	function	finalizedocument	function
copyarray	function	finalizefonts	function
copyboolean	function	finalizepage	function
copyconstant	function	finishtransparencycode	function
copydictionary	function	flags	table
copyfloat	function	T annotations	
copyinteger	function	N AutoView	
copynumber	function	N Hidden	
copystring 	function	N Invisible	
copyunicode	function	N Locked	
deferredobject	function	N LockedContents	

N NoRotate		F color indirect	
N NoView		formats	data table
N NoZoom		frombytes	function
N Print		fromeight	function
N Printable		frompdfdoc	function
N ReadOnly		fromsixteen	function
N ToggleNoView		getcatalog	function
N auto		getcompression	function
N hidden		getfontname	function
N printable		getfontobjectnumber	function
T widgets		getinfo	function
N Comb		getmatrix	function
N CommitOnSelChange		getmetadata	function
N DoNotScroll		getnofpages	function
N DoNotSpellCheck		getpageproperties	function
N Edit		getpagereference	function
N FileSelect		getpagetags	function
N MultiLine		getpos	function
N NoExport		getversion	function
N NoToggleToOff		getxformname	function
N Password		graycode	function
N PopUp		hasmatrix	function
N PushButton		id	function
N Radio		immediateobject	function
N RadiosInUnison		includeimage	function
N ReadOnly		injectors	table
N Required		F bitmap	
N RichText		F jp2	
N Sort		F jpg	
N file		F png	
N fixed		injectxmpinfo	function
N nocheck		insertxmpinfo	function
N protected		lastreferredpage	function
N readonly		layerreference	function
N required		limited	function
N sorted		linearshade	function
N unavailable		literal	function
flushfonts	function	majorversion	function
flushgroup	function	makenametree	function
flushobject	function	minorversion	function
flushstreamfileobject	function	nofpages	function
flushstreamobject	function	null	function
fonts	table	number	function
F color_direct		object	function

objectcompresslevel	function	setpageorder	function
pagereference	function	setpagetag	function
patternstream	function	settime	function
pdfcolor	function	setversion	function
pdftimestamp	function	sharedobject	function
pdfvfimage	function	shareobject	function
permitdetail	function	shareobjectreference	function
print	function	spotcode	function
procset	function	stream	function
protectresources	boolean	string	function
rectangle	function	toeight	function
reference	function	topdfdoc	function
registerannotation	function	tosixteen	function
registerdestination	function	transparency	function
registerdocumentfinalizer	function	transparencycode	function
registerfont	function	transparencygroups	table
registerpagefinalizer	function	B none	
registerpattern	function	transparencyvalue	function
reserveobject	function	unicode	function
rgbcode	function	usedcharacters	table
rotationcm	function	verbose	function
setcompression	function		

## lpeg (basic lua)

В	function	firstofsplit	function
C	function	frontstripper	function
Carg	function	instringchecker	function
Cb	function	is_lpeg	function
Cc	function	keeper	function
Cf	function	locale	function
Cg	function	match	function
Cmt	function	oneof	function
Ср	function	patterns	data table
Cs	function	pcode	function
Ct	function	print	function
P	function	ptree	function
R	function	replacer	function
S	function	secondofsplit	function
UP	function	setmaxstack	function
UR	function	setutfcasers	function
US	function	split	function
V	function	splitat	function
afterprefix	function	splitter	function
anywhere	function	stripper	function
append	function	times	function
balancer	function	tsplitat	function
beforesuffix	function	tsplitter	function
checkedsplit	function	type	function
containsws	function	utfchartabletopattern	function
counter	function	utfreplacer	function
endstripper	function	version	function
finder	function		

## lua (basic tex)

bytecode	table	macros	table
bytedata	data table	B enabled	cabic
-			
bytedone	table	F loaded	
callbytecode	function	F required	
delay	function	F reset	
finalize	function	F resolvestring	
firstbytecode	number	F resolving	
flush	function	F showdefinitions	
flushdelayed	function	messages	data table
<pre>get_functions_table</pre>	function	newindex	function
getbytecode	function	newtable	function
getcurrenttime	function	numbers	data table
getdebuginfo	function	registercode	function
getfunctionstable	overloaded function	registeredcodes	function
getpreciseseconds	function	registerfinalizer	function
getpreciseticks	function	registername	function
getruntime	function	setbytecode	function
getstacktop	function	setexitcode	function
getstartupfile	function	startupfile	string
getversion	function	version	string
lastbytecode	number		

#### luatex (context)

F disable

abort function F enable cleanup function F finish cleanuptempfiles function F pause currentfile function F popline poprunstate function F pushline function pushrunstate F registerdisabler registerdumpactions function F registerenabler registerpageactions function F resetfilename registerstartactions function F resume registerstopactions function F setfilename registertempfile function F setup starttime number F start table synctex F stop F blockfilename F wrapup F collect wrapup

function

# lxml (context)

addindex	function	first	function
all	function	flush	function
applyfunction	function	flushlinewise	function
applyselectors	function	flushsetups	function
att	function	flushspacewise	function
attribute	function	<del>get_id</del>	function
badinclusions	function	getid	function
chainattribute	function	getindex	function
checkindex	function	id	function
collected	function	idsplitter	userdata
command	function	include	function
concat	function	inclusion	function
concatrange	function	inclusions	function
content	function	index	function
context	function	inlineverbatim	function
convert	function	installsetup	function
count	function	last	function
delete	function	lastatt	function
depth	function	lastmatch	function
direct	function	lastpar	function
directives	table	load	function
F after		loadbuffer	function
F before		loaddata	function
F handle		loaded	table
F load		main	function
F setup		match	function
displayverbatim	function	name	function
doif	function	namespace	function
doifelse	function	nonspace	function
doifelseempty	function	par	function
doifelsetext	function	param	function
doifempty	function	parameter	function
doifnot	function	path	function
doifnotempty	function	popmatch	function
doifnottext	function	pos	function
doiftext	function	position	function
element	function	pure	function
elements	function	pushmatch	function
entities	data table	raw	function
entities filter			function function

refatt	function	F add	
register	function	F compare	
registerentity	function	F flush	
removesetup	function	F reset	
replace	function	F show	
resetcdata	function	F sort	
resetsetups	function	splitid	function
resolvedentity	function	startraw	function
root	function	startunescaped	function
save	function	stopraw	function
serialize	function	stopunescaped	function
setaction	function	store	function
setatt	function	strip	function
setattribute	function	stripped	function
setcdata	function	tag	function
${\tt setcommandtonone}$	function	text	function
${\tt setcommand to text}$	function	tobuffer	function
setpar	function	tofile	function
setparam	function	toparameters	function
setparameter	function	toverbatim	function
setsetup	function	verbatim	function
snippet	function	withindex	function
sorters	table	xmltexhandler	data table

## math (basic lua)

function
function
number
number
function
function
function
function
number

min	function	
mininteger	number	
mod	function	
modf	function	
odd	function	
pi	number	
pow	function	
rad	function	
random	overloaded	function
randomseed	function	
round	function	
setrandomseedi	function	
sin	function	
sind	function	
sinh	function	
sqrt	function	
tan	function	
tand	function	
tanh	function	
tointeger	function	
type	function	

function

ult

## mathematics (context)

addfallbacks	function	mapremap	data table
alphabets	data table	overloadparameters	function
alternatives	data table	privatebase	number
big	function	registerdomain	function
boldmap	data table	registerfallbackid	function
categories	table	remapalphabets	function
D functions		renderings	table
charactersets	data table	D mappings	
checkaccentbaseheight	function	D numbers	
checkprivateparameters	function	D sets	
classes	data table	renderset	function
codes	data table	resetattributes	function
define	function	resetitalics	function
dimensions	function	resolvefallbacks	function
domains	table	scaleparameters	function
extensiblecode	function	setdomain	function
extensibles	data table	setitalics	function
extrabase	number	setridofprime	function
extras	table	sets	data table
F add		styles	data table
F copy		syncboth	function
fallbacks	table	syncname	function
F apply		syncstyle	function
F install		toname	function
fallbackstyleattr	function	tostyle	function
families	data table	tweakaftercopyingfont	function
finishfallbacks	function	tweakbeforecopyingfont	function
gaps	data table	tweaks	table
getboth	function	utfmathaccent	function
getdomain	function	utfmathclass	function
getitalics	function	utfmathcommand	function
getridofprime	function	utfmathfiller	function
getstyle	function	utfmathstretch	function
horizontalcode	function	virtualize	function
initializeparameters	function	virtualized	data table
makefont	function		

# md5 (extra lua)

HEX	function	sum	function
dec	function	sumHEXA	function
hex	function	sumhexa	function

#### metapost (context)

N message

N mode

checkformat function N newinternal function cm N nullary codes table N numeric N addto N of N ampersand N ofbinary N and N outertag N assignment N parametertype N atleast N plus or minus N begingroup N primarybinary N btex N primarydef N capsule N protection N colon N randomseed N comma N relax N repeat\_loop N controls N curl N rightbrace N cycle N rightbracket N rightdelimiter N declare N def N runscript N definedmacro N save N delimiters N scantokens N endgroup N scope N equals N secondarybinary N etex N secondarydef N semicolon N everyjob N exitif N setbounds N expandafter N shipout N fi or else N show Nif N skip N input N slash N interim N step N internal N stop N iteration N str N join N string N leftbrace N tag N leftbracket N tension N leftdelimiter N tertiarybinary N let N tertiarydef N macrospecial N thingstoadd N maketext N to

N unary

N undefinedcs

N until		includesvgbuffer	function
N void		includesvgfile	function
N with		installplugin	function
N within		isobject	function
N write		knownparameters	table
colorinitializer	function	lastlog	string
convert	function	load	function
currentmpx	function	maketext	function
currentmpxstatus	function	metafonts	table
defaultformat	string	metafun	table
defaultinstance	string	F interpolate	
defaultmethod	string	F topath	
directrun	function	mptopdf	table
escaped	function	F convertmpstopdf	
exectime	table	N nofconverted	
extensiondata	data table	n	number
filterclippath	function	nofruns	number
flush	function	nofscriptruns	function
flushers	table	nvformat	function
T pdf		pdfliterals	function
F flushfigure		pluginactions	function
F startfigure		popformat	function
F stopfigure		popscriptrunner	function
F textfigure		popvariable	function
F tocomment		popvariables	function
flushnormalpath	function	preparetextextsdata	function
fonts	table	process	function
F define		processing	function
format_number	function	processplugins	function
format_string	function	properties	table
formatnumber	function	pushformat	function
getbendtolerance	function	pushscriptrunner	function
getclippath	function	pushvariable	function
getextensions	function	pushvariables	function
getextradata	function	reducetogray	boolean
gethashentries	function	registerdirect	function
getinstancenames	function	registerscript	function
getjobdata	function	registertokens	function
getparameter	function	remappedtext	function
getparameterset 	function	remaptext	function
getstatistics	function	reporterror	function
gettext	function	reportsvgfonts	function
graphic	function	reset	function
graphic_base_pass	function	resetlastlog	function

run function F get runscript function F reset scanparameters function F set scripterror function F set scripterror function F set scriptindex function texerrors boolean setbendtolerance function texexp function setextensions function tographic function setoutercolor function tographic function setparameterset function totable function settext function types table setvariable function N boolean showlog boolean N cmykcolor showsygage function N cotor simple function N dependent startsraphic function N independent startsraphic function N numeric startsydashing function N pair stopyspashing function N pair stopyspashing function N pair stopysylashing function N pen sygolorremapper function N picture sygfactors table N protodependent N % N bp N structured N string N nunknowmpath N pc N m N nunknowmpath N m N nunknowmpath N m N pc N nunknowmpen N nunknowmpen N px Sygglyhtomp function sygsplitcolor function sygshapestomp function sygshapestomp function sygsplitcolor function sygsplitcolor function sygtopdf function sysysopdf function	resetplugins	function	tex	table
scanparameters function F set scripterror function F setfrombuffer scriptindex function texerrors boolean setbendtolerance function texexp function setextensions function theclippath function setoutercolor function tographic function setparameterset function totable function settext function types table setvariable function N boolean showlog boolean N cmykcolor showsypage function N color simple function N independent startgraphic function N known startsyghashing function N pair stopsyghashing function N pair stopsyghashing function N pair stopsvghashing function N pen svgcolorremapper function N picture svgfactors table N string N bp N cm N bp N string N winknownpath N pc N n unknownpotean N mm N pc N n unknownpoten N n unknownpen N px Svgglyphtomp function svgsqlyphtomp function svgshapestopp function svgshapestopp function svgshapestopp function svgshapestopp function svgshapestopp function svgshapestopp function svgsplitcolor function svgstopdf	run	function	F get	
scripterror function texerors boolean setbendtolerance function texexp function setextensions function totable function setartsensions function totable function setparameterset function totable function setvariable function types table setvariable function Noclor simple function Noclor simple function Noclor startsynashing function Noclor startsynashing function Noclor Noclor Stopgraphic function Noclor N	runscript	function	F reset	
scriptindex         function         texerrors         boolean           setbendtolerance         function         texexp         function           setextensions         function         theclippath         function           setoutercolor         function         tographic         function           setparameterset         function         types         table           settext         function         N boolean         Soolean           showlog         boolean         N color         stolean           simple         function         N independent         stolean           story         function         N pair         stolean           story         function         N pair <th>scanparameters</th> <th>function</th> <th>F set</th> <th></th>	scanparameters	function	F set	
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setoutercolor function tographic function setparameterset function totable function settext function types table setvariable function N boolean N cmykcolor showsvgpage function N color simple function N dependent splitprescript function N independent function N independent startgraphic function N independent startgraphic function N independent stopgraphic function N pair stopsydhashing function N pair stopsydhashing function N path syformat function N pen sygolorremapper function N pen sygolorremapper function N pen Syformat N bp N string N bp N string N bp N string N string N bp N string N suffixedmacro N em N tokenlist N em N tokenlist N em N tokenlist N em N tokenlist N in N nunknownpen N nunknownpen N nunknownpen N nunknownpen N nunknownpen N nunknownpen N pc N nunknownpen N nunknownpe	setbendtolerance	function	texexp	function
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settext function types table  setvariable function N boolean  showlog boolean N cmykcolor  showsvgpage function N dependent  splitprescript function N independent  startgraphic function N numeric  startsvghashing function N pair  stopsryghashing function N pair  stopsryghashing function N path  svformat function N pen  svgcolorremapper function N pen  svgcolorremapper function N picture  svgfactors table N protodependent  N % N string  N bp  N structured  N suffixedmacro  N em  N tokenlist  N ex  N in  N mm  N unknownpath  N pc  N pt  N pc  N n unknownpen  N pc  N pt  N px  Svglyphtomp function  svgshapestomp function  svgshapestodf function  svgtomp function  variables table  N color  N dependent  N independent  N pair  N pair  N pen  N pen  N protodependent  N protodependen	setoutercolor	function	tographic	function
setvariable function N boolean showlog boolean N cmykcolor showsvgpage function N color simple function N dependent splitprescript function N independent startgraphic function N m numeric stopgraphic function N pair stopsyghashing function N pair svformat function N pen svgcolorremapper function N picture svgfactors table N protodependent N % N string N bp N structured N s m N suffixedmacro N em N tokenlist N ex N in N mm N unknownpoolean N mm N pc N pt N px Svglyphtomp function N unsuffixedmacro svgshapestomp function N unsuffixedmacro svgshapestopd function N unsuffixedmacro svgsplitcolor function Unload function svgtomp function unload function svgtopdf function variables table	setparameterset	function	totable	function
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showsygage function N color  simple function N dependent  splitprescript function N independent  startgraphic function N known  startsvghashing function N pair  stopsvghashing function N pair  stopsvghashing function N path  svformat function N pen  svgcolorremapper function N picture  svgfactors table N protodependent  N % N string N bp N structured N suffixedmacro N em N tokenlist N ex N in N transform N in N mm N unknownpath N pc N pt N pc N pt N px Svgglyphtomp function N unknownpicture N px Svgglyphtomp function N vacuous  svgshapestopf function typesvgpage function svgtomp function unload function svgtopdf function untagvariable function svgtopdf	setvariable	function	N boolean	
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svgcolorremapperfunctionN picturesvgfactorstableN protodependentN %N stringN bpN structuredN cmN suffixedmacroN emN tokenlistN exN transformN inN unknownbooleanN mmN unknownpathN pcN unknownpenN ptN unknownpictureN pxN unknownstringsvgglyphtompfunctionN unsuffixedmacrosvgshapestompfunctionN vacuoussvgshapestopdffunctiontypesvgpagefunctionsvgsplitcolorfunctionunloadfunctionsvgtompfunctionuntagvariablefunctionsvgtopdffunctionvariablestable	stopsvghashing	function	N path	
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N % N bp N string N structured N cm N suffixedmacro N em N tokenlist N ex N transform N in N unknownboolean N mm N pc N unknownpen N pt N px N unknownpicture N px Svgglyphtomp function Svgshapestomp svgshapestomp function typesvgpage function svgsplitcolor function unload function svgtomp function variables function svgtopdf function variables function table	svgcolorremapper	function	N picture	
N bp N structured N cm N suffixedmacro N em N tokenlist N ex N transform N in N unknownboolean N mm N unknownpath N pc N unknownpen N pt N pt N unknownpicture N px N unknownstring svgglyphtomp function svgshapestomp function svgshapestopdf function typesvgpage function svgsplitcolor function unload function svgtomp function unload function svgtomp function variables table	svgfactors	table	N protodependent	
N cm N suffixedmacro N em N tokenlist N ex N transform N in N unknownboolean N mm N unknownpath N pc N pt N pt N px N unknownpicture N px N unknownstring svgglyphtomp function svgshapestomp function svgshapestopdf function typesvgpage function svgsplitcolor function unload function svgtomp function untagvariable function svgtopdf function variables table	N %		N string	
N em N tokenlist N ex N transform N in N unknownboolean N mm N unknownpath N pc N unknownpen N pt N px N unknownpicture N px N unknownstring svgglyphtomp function svgshapestomp function svgshapestopdf function typesvgpage function svgsplitcolor function unload function svgtomp function untagvariable function svgtopdf function variables table	N bp		N structured	
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N in N unknownboolean N mm N unknownpath N pc N unknownpen N pt N unknownpicture N px N unknownstring svgglyphtomp function N unsuffixedmacro svgshapestomp function N vacuous svgshapestopdf function typesvgpage function svgsplitcolor function unload function svgtomp function untagvariable function svgtopdf function variables table	N em		N tokenlist	
N mm N unknownpath N pc N pt N pt N unknownpicture N px N unknownstring svgglyphtomp function svgshapestomp function svgshapestopdf function svgsplitcolor function svgtomp function unload function svgtomp function variables table	N ex		N transform	
N pc N pt N pt N unknownpicture N px N unknownstring  svgglyphtomp function svgshapestomp function N vacuous svgshapestopdf function svgsplitcolor function svgtomp function unload function svgtomp function untagvariable function svgtopdf function variables table	N in		N unknownboolean	
N pt N px N unknownpicture N px N unknownstring  svgglyphtomp function svgshapestomp function svgshapestopdf function svgsplitcolor function svgtomp function unload function svgtomp function untagvariable function svgtopdf function variables table	N mm		N unknownpath	
N px  svgglyphtomp function svgshapestomp function svgshapestopdf function svgsplitcolor svgtomp function svgtomp function svgtopdf function	N pc		N unknownpen	
svgglyphtompfunctionN unsuffixedmacrosvgshapestompfunctionN vacuoussvgshapestopdffunctiontypesvgpagefunctionsvgsplitcolorfunctionunloadfunctionsvgtompfunctionuntagvariablefunctionsvgtopdffunctionvariablestable	N pt		N unknownpicture	
svgshapestompfunctionN vacuoussvgshapestopdffunctiontypesvgpagefunctionsvgsplitcolorfunctionunloadfunctionsvgtompfunctionuntagvariablefunctionsvgtopdffunctionvariablestable	N px		N unknownstring	
svgshapestopdffunctiontypesvgpagefunctionsvgsplitcolorfunctionunloadfunctionsvgtompfunctionuntagvariablefunctionsvgtopdffunctionvariablestable	svgglyphtomp	function	N unsuffixedmacro	
svgsplitcolorfunctionunloadfunctionsvgtompfunctionuntagvariablefunctionsvgtopdffunctionvariablestable	svgshapestomp	function	N vacuous	
svgtompfunctionuntagvariablefunctionsvgtopdffunctionvariablestable	svgshapestopdf	function	typesvgpage	function
svgtopdf function variables table	svgsplitcolor	function		function
3.3.4.	svgtomp	function	untagvariable	function
sxsy function	svgtopdf	function	variables	table
	sxsy	function		

#### mime (extra lua)

b64 function decode function decodet table F base64 F quoted-printable function dot function encode encodet table

F base64

F quoted-printable

eol function normalize function function qр

qpwrp function function report stuff function unb64 function unqp function function wrap table wrapt F base64

F default

F quoted-printable

F text

function wrp

# mp (context)

autoinject	function	direct3	function
aux	table	direct4	function
F boolean		disposehash	function
F color		draw	function
F direct		expandtex	function
F direct1		fill	function
F direct2		flatten	function
F direct3		flush	function
F direct4		format	function
F draw		formatted	function
F fill		fprint	function
F flush		fromhash	function
F fprint		get	table
F integer		F hashentry	
F number		graphformat	function
F numeric		inhash	function
F pair		inject	function
F pairpoints		F boolean	
F path		F cmykcolor	
F pathpoints		F color	
F points		F integer	
F print		F number	
F quadruple		F numeric	
F quadruplepoints		F pair	
F quoted		F path	
F size		F quadruplet	
F string		F string	
F transform		F transform	
F triplet		F triplet	
F tripletpoints		F whatever	
F vprint		integer	function
boolean	function	isarray	function
cleaned	function	isobject	function
color	function	lmt_color_functions	table
dataset	function	F shade	
datasets	function	F step	
F load		<pre>lmt_contours_bitmap_get</pre>	function
dimension	function	<pre>lmt_contours_bitmap_set</pre>	function
direct	function	lmt_contours_cleanup	function
direct1	function	lmt_contours_color	function
direct2	function	<pre>lmt_contours_edge_get_band</pre>	function

lmt_contours_edge_get_cell	function	mf_graphic_text	function
lmt_contours_edge_paths	function	mf_inject_blob	function
lmt_contours_edge_set	function	mf_map_move	function
<pre>lmt_contours_edge_set_by_band</pre>	function	mf_map_text	function
<pre>lmt_contours_edge_set_by_cell</pre>	function	mf_named_color	function
lmt_contours_format	function	mf_outline_text	function
<pre>lmt_contours_function</pre>	function	mf_save_data	function
lmt_contours_maxmean	function	mf_script_index	function
lmt_contours_maxz	function	mf_start_saving_data	function
lmt_contours_minmean	function	mf_stop_saving_data	function
lmt_contours_minz	function	mf_tb_dimensions	function
<pre>lmt_contours_nofvalues</pre>	function	mf_tt_dimensions	function
lmt_contours_nx	function	mf_tt_initialize	function
lmt_contours_ny	function	mode	function
lmt_contours_range	function	n	function
lmt_contours_shade_paths	function	newhash	function
<pre>lmt_contours_shade_set</pre>	function	number	function
lmt_contours_shape_paths	function	numeric	function
<pre>lmt_contours_start</pre>	function	pair	function
lmt_contours_stop	function	pairpoints	function
lmt_contours_value	function	path	function
<pre>lmt_contours_xrange</pre>	function	pathpoints	function
<pre>lmt_contours_yrange</pre>	function	points	function
lmt_function_x	function	positionanchor	function
<pre>lmt_mesh_set</pre>	function	positionbox	function
lmt_mesh_update	function	positioncurve	function
<pre>lmt_poisson_generate</pre>	function	positionpage	function
lmt_surface_do	function	positionpath	function
lmt_svg_include	function	positionpxy	function
mf_blob_add	function	positionregion	function
mf_blob_dimensions	function	positionwhd	function
mf_blob_index	function	positionxy	function
mf_blob_new	function	prefix	function
mf_blob_raw_content	function	print	function
mf_blob_raw_dimensions	function	processingmode	function
mf_blob_raw_reset	function	quadruple	function
mf_blob_raw_toutf	function	quadruplepoints	function
mf_blob_raw_wipe	function	quoted	function
mf_blob_size	function	report	function
mf_blob_width	function	scan	table
mf_external_figure	function	F boolean	
mf_finish_saving_data	function	F cmykcolor	
mf_formatted_text	function	F color	
mf_get_outline_text	function	F expression	

F integer		size	function
F next		skip	table
F number		F token	
F numeric		solve	function
F pair		string	function
F path		systemmode	function
F pen		texstr	function
F property		texvar	function
F string		tohash	function
F symbol		transform	function
F token		triplet	function
F transform		tripletpoints	function
set	table	vprint	function

# mplib (extra tex)

execute	function	injecttransform	function
expandtex	function	injectwhatever	function
finder	function	new	overloaded function
finders	table	peninfo	function
F file	cubic	propertycodes	table
F mpstemplate		realtimelogging	boolean
finish	function	scanboolean	function
getcallbackstate	function	scancmykcolor	function
getcattbackstate	function	scancolor	function
getfields	function	scanexpression	function
gethashentries	function	scaninteger	function
•		scaninteger	function
gethashentry	function		
getstates	function	scannumber	function
getstatistics	function	scannumeric	function
getstatus	function	scanpair	function
gettolerance	function	scanpath	function
gettype	function	scanpen	function
gettypes	function	scanproperty	function
injectboolean	function	scanstring	function
injectcmykcolor	function	scansymbol	function
injectcolor	function	scantoken	function
injectinteger	function	scantransform	function
injectnumber	function	settolerance	function
injectnumeric	function	showcontext	function
injectpair	function	skiptoken	function
injectpath	function	solvepath	function
injectstring	function	version	function

## noads (context)

F render

handlers	table	F resize	
F align		F showtree	
F alternates		F tags	
F autofences		F unscript	
F classes		F unstack	
F collapse		F variants	
F domains		process	function
F families		processnested	function
F fixscripts		processors	table
F italics		F mlisttohlist	
F kernpairs		T unscript	
F makeup		T unstack	
F relocate		processouter	function

#### node (basic tex)

F flush list

F flush node

checkdiscretionaries function F flushlist checkdiscretionary function F flushnode copy function F free copy list function F get attribute function copylist F get attributes function count F getattribute current attributes function F qetattributelist currentattributes function F getattributes dimensions function F getboth direct table F getbox F addmargins F getchar F addxoffset F getcharspec F addxymargins F getdata F addyoffset F getdepth F appendaftertail F getdirection F checkdiscretionaries F aetdisc F checkdiscretionary F getdiscpart F collapsing F getexpansion F getfam F copy F copy list F getfield F copylist F getfont F copyonly F getglue F count F getglyphdata F getglyphdimensions F current attributes F currentattributes F getheight F dimensions F getid F effective glue F getindex F effectiveglue F getkern F end of math F getkerndimension F endofmath F getlanguage F exchange F getleader F fields F getlist F find node F getnext F findattribute F getnormalizedline F findattributerange F getnucleus F findnode F getoffsets F first glyph F getoptions F getorientation F firstqlyph F flattendiscretionaries F getparstate

F getpenalty

F getpost

F getpre F isglyph F isnextchar F getprev F getpropertiestable F isnextqlyph F getproperty F isnode F getreplace F isprevchar F getscale F isprevglyph F getscales F isvalid F iszeroalue F getscript F getshift F kerning F getstate F length F getsub F ligaturing F makeextensible F getsubpre F getsubtype F migrate F getsup F mlist to hlist F getsuppre F mlisttohlist F getsynctexfields F naturalhsize F gettotal F naturalwidth F getwhd F new F getwidth F prependbeforehead F getxscale F protect glyph F getxyscales F protect\_glyphs F getyscale F protectglyph F has attribute F protectglyphs F has field F protrusionskippable F has glyph F rangedimensions F hasattribute F remove F hasdimensions F reverse F hasfield F set attribute F hasglyph F set attributes F hasqlyphoption F setattribute F setattributelist F hpack F hyphenating F setattributes Fid F setboth F ignoremathskip F setbox F setchar F insert after F insert before F setdata F insertafter F setdepth F insertbefore F setdirection F is char F setdisc F is\_glyph F setdiscpart F is node F setexpansion F is valid F setfam F is zero glue F setfield

F setfont

F ischar

F setglue	F traverse	
F setglyphdata	F traverse_char	
F setheight	F traverse_content	
F setindex	F traverse_glyph	
F setkern	F traverse_id	
F setlanguage	F traverse_list	
F setleader	F traversechar	
F setlink	F traversecontent	
F setlist	F traverseglyph	
F setnext	F traverseid	
F setnucleus	F traverselist	
F setoffsets	F type	
F setoptions	F types	
F setorientation	F unprotect_glyph	
F setpenalty	F unprotect_glyphs	
F setpost	F unprotectglyph	
F setpre	F unprotectglyphs	
F setprev	F unset_attribute	
F setproperty	F unset_attributes	
F setreplace	F unsetattribute	
F setscales	F unsetattributes	
F setscript	F usedlist	
F setshift	F uses_font	
F setsplit	F usesfont	
F setstate	F values	
F setsub	F verticalbreak	
F setsubpre	F vpack	
F setsubtype	F write	
F setsup	F xscaled	
F setsuppre	F yscaled	
F setsynctexfields	effective_glue	function
F settotal	effectiveglue	function
F setwhd	end_of_math	function
F setwidth	endofmath	function
F show	family_font	function
F slide	fields	function
F start_of_par	findattribute	function
F startofpar	first_glyph	function
F subtypes	firstglyph	function
F tail	flattendiscretionaries	function
F todirect	flush_list	function
F tonode	flush_node	function
F tostring	flushlist	function
F tovaliddirect	flushnode	function

free	function	new	function
get_attribute	function	protect_glyph	function
getattribute	function	protect_glyphs	function
getfield	function	protectglyph	function
getglue	function	protectglyphs	function
getpropertiestable	function	protrusionskippable	function
getproperty	function	rangedimensions	function
has_attribute	function	remove	function
has_field	function	set_attribute	function
has_glyph	function	setattribute	function
hasattribute	function	setfield	function
hasfield	function	setglue	function
hasglyph	function	setproperty	function
hpack	function	show	function
hyphenating	function	slide	function
id	function	subtypes	function
insert_after	function	tail	function
insert_before	function	tostring	function
insertafter	function	traverse	function
insertbefore	function	traverse_id	function
instock	function	traverseid	function
inuse	function	type	function
is_node	function	types	function
is_zero_glue	function	unprotect_glyph	function
isnode	function	unprotect_glyphs	function
iszeroglue	function	unprotectglyph	function
kerning	function	unprotectglyphs	function
last_node	function	unset_attribute	function
lastnode	function	unsetattribute	function
length	function	usedlist	function
ligaturing	function	usesfont	function
makeextensible	function	values	function
mlist_to_hlist	function	vpack	function
mlisttohlist	function	write	function

#### nodes (context)

_		
accentcodes	data table	fillcodes
aligned	function	fillvalues
append -	function	firstcharacter
apply	function	firstcharinbox
applyvisuals	function	firstdirinbox
astable	function	flush
basepoints	function	flush_list
boundarycodes	data table	flush_node
boxes	table	flushlist
F dimensions		flushnode
F direct		fullhpack
F found		getattr
F reset		getattribute
F restore		getboth
F save		getbox
F savenode		getchar
builders	table	getfield
F buildpage_filter		getfont
F vpack_filter		getid
concat	function	getleader
сору	function	getlist
copy_list	function	getnext
copylist	function	getprev
countall	function	getproperty
current_attributes	function	getsubtype
currentattributes	function	gluecodes
delete	function	glyphcodes
destinations	table	handlers
N attribute		F accessibility
T done		F backgrounds
F handler		F backgroundspage
T stack		F backgroundsvbox
dircodes	data table	F characters
directioncodes	data table	F checkglyphs
directionvalues	data table	F checkparcounter
dirvalues	data table	F cleanuppage
disccodes	data table	F export
discretionarycodes	data table	F finalizebox
fencecodes	data table	F flatten
fields	function	F flattenline
fieldtypes	table	F migrate

data table data table function data table data table table

F protectglyphs		linefillers	table
F show		D data	cabic
F showhyphenation		F define	
F stripping		F enable	
F textbackgrounds		F filler	
F unprotectglyphs		F handler	
F visualizehyphenation		lines	table
F wipe		T boxed	tubte
has attribute	function	F addlinenumbers	
has field	function	F register	
hasattribute	function	F setup	
hasfield	function	D data	
hpack	function	F finalize	
idsandsubtypes	function	F number	
idstostring	function	link	function
injections	table	linked	function
F copy	tabte	list	function
F getligaindex		listcodes	data table
F getthreshold		listtoutf	function
F handler		literalvalues	data table
F installgetspaceboth		locate	function
F installnewkern		markers	table
F isspace		F get	cabte
F keepcounts		mathcodes	data table
F reset		mathvalues	data table
F resetcounts		maxboxwidth	function
F setcursive		migrations	table
F setkern		F setinserts	cabic
F setligaindex		F setmarks	
F setmark		new	function
F setmove		noadcodes	data table
F setposition		noadoptions	table
F setspacekerns		N axis	
insert_after	function	N exact	
insert_before	function	N left	
insertafter	function	N middle	
insertbefore	function	N no axis	
insertlistafter	function	_ N right	
installattributehandler	function	N set	
is_display_math	function	N unused 1	
is_node	function	N unused 2	
isnode	function	nodecodes	data table
kerncodes	data table	nopts	function
leftmarginwidth	function	nuts	table
· <b>J</b>		-	

F addmargins F first glyph F addxoffset F firstcharacter F addxymargins F firstcharinbox F addyoffset F firstglyph F append F flattendiscretionaries F appendaftertail F flush F apply F flush list F applyvisuals F flush node F checkdiscretionaries F flushlist F collapsing F flushnode T colors F free F set F fullhpack T components F get attribute F copynocomponents F get synctex fields F copyonlyglyphs F getattr F count F getattribute F flush F getattributelist F get F getattributes F set F getattrlist F concat F getattrs F copy F aetboth F copy\_list F aetbox F getboxglue F copy node F getchar F copy only F copy properties F getcharspec F copylist F getcomponents F getdata F copynode F copyonly F getdepth F copyvisual F getdirection F count F getdisc F countall F getdiscpart F current attr F getdiscretionary F currentattributes F getexpansion F delete F getfam F dimensions F getfield F dirdimensions F getfont F effective glue F getglue F effectiveglue F getglyphdata F end of math F getglyphdimensions F endofmath F getheight F exchange F getid F find attribute F getindex F findattribute F getkern

previous 94 next

F getkerndimension

F findnode

F getlang F hasglyphoption F getlanguage F hpack F getleader F hyphenating F getlist F ignoremathskip F getnext F insert after F insert before F getnormalizedline F getnucleus F insertafter F getoffsets F inserthefore F insertlistafter F getoptions F getorientation F is display math F getpenalty F is node F getpost F is zero glue F getpre F ischar F getprev F isdone F getprop F isglyph F getreplace F isnextchar F getruledata F isnextqlyph F isnode F getscale F isprevchar F getscales F getscript F isprevglyph F getshift F iszeroalue F getstate F kernina F getsub F length F ligaturing F getsubpre F getsubtype F link F getsup F linked F locate F getsuppre F getsurround F migrate F getsynctexfields F mlist to hlist F gettotal F mlisttohlist F naturalhsize F getvalue F getwhd F naturalwidth F getwidth E nestedtracedslide F getxscale F new T pool F getxyscales F accent F getyscale F baselineskip F has attribute F boundary F has dimensions F has\_field F choice F has\_glyph F cleanup F hasattribute F delim F hasdimensions F delimiter F hasfield F direction F hasglyph F directliteral

F disc F submlist F emptyrule F temp F fence F usage F fontkern F userdefined F fraction T userids F usernode F glue F gluespec F userrule F glyph F vlist F hlist F wordboundary F indentskip F prepend F italickern F prependbeforehead F kern F processranges F latelua F processwords F leader F protect glyph F lefthangskip F protect\_glyphs F leftmarginkern F protectglyph F leftskip F protectglyphs F lineskip F protrusionskippable F literal F rangedimensions F mathchar F rawprop F mathtextchar F reference F negatedglue F rehpack F noad F remove F originliteral F repackhlist F outlinerule F replace F pageliteral F reverse F penalty T rules F radical T ruleactions F rawliteral F box F register F draw F fill F restore F righthangskip F mp F rightmarginkern F stroke F rightskip F userrule F rule F set attribute F save F setattr F setattribute F savepos F setmatrix F setattributelist F setstate F setattrlist F shrink F setattrs F startrotation F setboth F stock F setbox F stretch F setboxglue

F setchar

F subbox

F setcomponents F setsurround F setdata F setsynctexfields F setdepth F setvalue F setvisual F setdirection F setdisc F setvisuals F setwhd F setdiscpart F setdiscretionary F setwidth F setexpansion F show F setfam F slide F setfield F somepenalty F setfont F somespace F setglue F splitbox F setglyphdata F start of par F setheight F startofpar F setkern F striprange F setlang F tail F setlanguage F takeattr F setleader F takebox F setlink F takelist F setlist F theprop F setnext F tonode F setnucleus F tonodes F setoffsets F tonut F setoptions F tosequence F setorientation F tostrina F setparproperty F tracedslide F setpenalty F traverse F setpost F traverse char F traverse glyph F setpre F setprev F traverse id F setprop F traverse list F setreplace F traversechar F setruledata F traversecontent F setscale F traverseglyph F traverseid F setscales F setscript F traverselist F setshift T traversers F setsplit F boundary F setstate F char F setsub F content F setsubpre F dir F setsubtype F disc F glue F setsup F setsuppre F glyph

F hlist		D values	
F list		F processor	
F next		points	function
F node		pool	table
F vlist		F baselineskip	
F whatsit		F cleanup	
T typesetters		F directliteral	
F tohbox		F glyph	
F tohpack		F hlist	
F tonodes		F latelua	
F tovbox		F lineskip	
F tovpack		F literal	
F unprotect_glyph		F originliteral	
F unprotect glyphs		F register	
F unprotectglyph		F restore	
F unprotectglyphs		F rule	
F unset_attribute		F save	
F unsetattribute		F savepos	
F unsetattributes		F setmatrix	
F untracedslide		F stock	
F usedlist		F usage	
F uses_font		F vlist	
F usesfont		prepend	function
F verticalbreak		print	function
F vianodes		processors	table
F vianuts		F contribute_filter	
F vpack		F glyph_run	
F write		F post_linebreak_filter	
F xscaled		F pre_linebreak_filter	
F yscaled		F trace_glyph_run_a	
packlist	function	F trace_glyph_run_b	
parcodes	data table	properties	table
penaltycodes	data table	T data	
plugindata	table	pts	function
F finalizer		radicalcodes	data table
F initializer		references	table
S name		N attribute	
T namespace		T done	
N attribute		F handler	
D data		T stack	
F enable		rehpack	function
F handler		remove	function
F register		repackhlist	function
D registered		replace	function

report	function	startofpar	function
rightmarginwidth	function	stripdiscretionaries	function
rulecodes	data table	stripping	table
rules	table	T glyphs	
D data		F set	
F define		subtypes	data table
F enable		tail	function
F handler		takeattr	function
F process		takebox	function
F userrule		tasks	table
serialize	function	F actions	
serializebox	function	F appendaction	
set_attribute	function	F disableaction	
setattr	function	F disablegroup	
setattribute	function	F enableaction	
setboth	function	F enablegroup	
setbox	function	F freeze	
setboxtonaturalwd	function	F freezegroup	
setchar	function	F new	
setfield	function	F prependaction	
setfont	function	F removeaction	
setleader	function	F replaceaction	
setlink	function	F restart	
setlist	function	F setaction	
setnext	function	F showactions	
setprev	function	F table	
setproperty	function	tobasepoints	function
shifts	table	tocentimeters	function
D data		tociceros	function
F define		todidots	function
F enable		todimen	function
F handler		toinches	function
showboxes	function	tomillimeters	function
showlist	function	tonode	function
showsimplelist	function	tonodes	function
skipcodes	data table	tonut	function
snapshots	table	topicas	function
F getsamples		topoints	function
F resetsamples		toscaledpoints	function
F takesample		tosequence	function
somepenalty	function	tostring	function
somespace	function	totable	function
specialskipcodes	table	totree	function
splitbox	function	toutf	function

tracers	table	F set	
T colors		F setlist	
F reset		traverse	function
F set		traverse_id	function
F setlist		traverseid	function
F directions		typesetters	table
F fontchar		F hbox	
T frequencies		F hpack	
F register		F tohbox	
T pool		F tohpack	
T nodes		F tonodes	
F rule		F tovbox	
T nuts		F tovpack	
F rule		F vpack	
F resetproperties		unset_attribute	function
F rule		unsetattribute	function
F setlist		usedlist	function
F setproperties		vianodes	function
F start		vianuts	function
T steppers		visualizebox	function
F check		visualizers	table
F codes		F attribute	
F features		T attributes	
F font		F box	
F glyphs		F handler	
F message		F markfonts	
F messages		F register	
F nofsteps		F setfont	
F register		F setlayer	
F reset		F setruledglyph	
F start		F setvisual	
F stop		vpack	function

F stop

T transparencies F reset whatsitcodes

write

data table

function

### number (context)

basepoints	function function	to16dot16 tobasepoints	function function
bytetodecimal	function	tobitstring	function
compactfloat	function	tocentimeters	function
decimaltobyte	function	tociceros	function
dimenfactors	data table	tocontext	function
formatted	function	todidots	function
${\tt formattedfloat}$	function	todimen	function
idiv	function	toevenhex	function
maxdimen	number	toinches	function
nopts	function	tomillimeters	function
nubasepoints	function	tonumberf	function
nupoints	function	tonumberg	function
percent	function	topicas	function
points	function	topoints	function
pts	function	toscaled	function
signed	function	toscaledpoints	function
sparseexponent	function	valid	function
splitdimen	function		

### objects (context)

datatablepagefunctiondimensionsfunctionreferencefunctionfoundfunctionregisterfunctionnnumberrestorefunction

# optional (context)

curl	table	F framecompress	
F escape		F framedecompre	SS
F fetch		F initialize	
F getversion		lzo	table
F initialize		F compress	
F unescape		F decompresssize	е
foreign	table	F initialize	
F abivalues		mujs	table
F getbuffer		F dofile	
F initialize		F execute	
F load		F initialize	
F newbuffer		F reset	
F totable		F setclosefile	
F types		F setconsole	
ghostscript	table	F setfindfile	
F execute		F setopenfile	
F initialize		F setreadfile	
graphicsmagick	table	F setseekfile	
F execute		mysql	table
F initialize		F close	
hb	table	F execute	
F getshapers		F getmessage	
F getversion		F initialize	
F initialize		F open	
F loadfont		postgress	table
F shapestring		F close	
kpse	table	F execute	
F expand_braces		F getmessage	
F expand_path		F initialize	
F expand_var		F open	
F find_file		sqlite	table
F find_files		F close	
F get_file_type	S	F execute	
F initialize		F getmessage	
F readable_file		F initialize	
F set_program_n	ame	F open	
F var_value		zint	table
loaded	table	F execute	
lz4	table	F initialize	
F compress		zstd	table
F decompresssiz	e	F compress	

F initialize

### os (basic lua)

overloaded function

remove

getenv	function	rename	overloaded function
getenv		resolvers	table
setenv	string	F bits	tabte
binsuffixes	table	resultof	function
clock	function	runtime	function
converttime	function		table
		selfarg	
date	overloaded function	selfbase	string
difftime	function	selfbin	string
enableansi	function	selfcore	string
env	data table	selfdir	string
execute	overloaded function	selfname	string
exit	overloaded function	selfpath	string
fulltime	function	setenv	overloaded function
getcodepage	function	setexitcode	function
getenv	overloaded function	setlocale	overloaded function
gettimeofday	function	sleep	function
isleapyear	function	time	function
launch	function	timezone	function
libsuffix	string	tmpname	function
localtime	function	today	function
name	string	type	string
newline	string	uname	function
nofdays	function	uuid	function
now	function	validdate	function
pipeto	function	weekday	function
platform	string	where	function
-	-		

which

function

# package (basic lua)

config	string	loadlib	function
cpath	string	luapaths	function
extralibpath	function	path	string
extralibpaths	function	poplibpath	function
extraluapath	function	popluapath	function
extraluapaths	function	preload	table
helpers	table	pushlibpath	function
libpaths	function	pushluapath	function
loaded	table	searchers	table
loaders	table	searchpath	function

# pagebuilders (context)

columnsets	table	F	sethsize	
F add		F	sethspan	
F block		F	setlines	
F check		F	setpropertie	es
F currentcolum	nn	F	setstart	
F define		F	setvsize	
F finishflush		inje	ections	table
F flushareas		F	flushafter	
F flushcolumn		F	flushbefore	
F flushrest		F	save	
F goto		mixe	edcolumns	table
F noto		F	cleanup	
F prepareflush	h	F	finalize	
F put		F	getlist	
F registerarea	а	F	getrest	
F reset		F	getsplit	
F setarea		F	setsplit	

### pdf (basic tex)

immediateobj function

# pdfe (extra tex)

function
function
function
function
data table
function

function
function
data table
function

# physics (context)

units table

D tables

# pngdecode (extra tex)

applyfilter	function	splitmask	function
expand	function	tocmyk	function
interlace	function	tomask	function

# publications (context)

addtexentry	function	converttoxml	function
analyze	function	currentspecification	table
anywhere	function	S author	
authorcache	data table	T categories	
authorcollapsers	data table	T article	
authorhashers	table	S category	
F invertedshort		T extra	
F normal		T fields	
F normalinverted		S author	
F normalshort		S editor	
F sequential		S journal	
F sequentialshort		S keywords	
F short		S note	
authormap	data table	S number	
authortoregister	function	S pages	
casters	table	S title	
F author		S volume	
F keyword		S year	
F pagenumber		T optional	
F range		T required	
checkeddataset	function	T sets	
citevariants	table	T author	
F author		T virtual	
F authornum		T book	
F authoryear		S category	
F authoryears		T extra	
F category		T fields	
F default		S address	
F entry		S author	
F index		S edition	
F keywords		S editor	
F num		S keywords	
F page		S note	
F short		S number	
F tag		S publisher	
F textnum		S subtitle	
F year	d-4- 4-61-	S title	
collected	data table	S volume	
components	table	S year	
F author	function	T optional	
concatstate	function	T required	

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

S S

S T

F save		F lua	
lastofrange	function	F refman	
lists	table	F registercleaner	
F collectentries		F xml	
F combiinlist		loadreplacementfile	function
F fetchentries		new	function
F filterall		okay	function
F flushcombi		oneorrange	function
F flushentry		parenttag	function
F flushtag		permitted	function
T methods		prerollcmdstring	function
F dataset		refman_to_btx	function
F force		resolvedname	function
F global		save	function
F local		savers	table
F nofregistered		F bib	
F prepareentries		F lua	
F register		F xml	
F sameasprevious		search	function
T sorters		setcategory	function
F cite		setspecification	function
F dataset		singularorplural	function
F default		sortedentries	function
F index		sortmethods	table
F list		T authoryear	
F reference		T sequence	
F short		specifications	table
F used		T default	
F uservariable		S author	
listvariants	table	S comment	
F default		S copyright	
F index		S name	
F num		S version	
F short		D virtual	
F tag		splitauthor	function
load	function	splitoneauthor	function
loadbibdata	function	statistics	table
loaddefinitionfile	function	N nofbytes	
loaders	table	N nofdatasets	
F bbl		N nofdefinitions	
F bib		N nofshortcuts	
F buffer		tables	table
F endnote		D implicits	
F json		D origins	

D privates F showtables D sets F showvariants typesetters table D specials F author D types F string D virtuals function function tags usedataset table usedentries function tracers writers table F showdatasetauthors F showdatasetcompleteness F author

F showdatasetcompleteness
F showdatasetfields
F showentry
F showfields
F showhashedauthors

F author
F keyword
F pagenumber
F range

# regimes (context)

backmapping	data table	mapping	data table
cleanup	function	pop	function
disable	function	process	function
enable	function	push	function
fromregime	function	toregime	function
list	function	translate	function

### resolvers (context)

allprefixes	function	findtexfile	function
appendhash	function	findwildcardfile	function
automount	function	findwildcardfiles	function
booleanvariable	function	formatofsuffix	function
cacheversion	string	formatofyariable	function
checkedvariable	function	formats	data table
cleanedpathlist	function	foundintree	function
cleanpath	function	foundintrees	function
cleanpathlist	function	generators	data table
concatinators	data table		function
configbanner	string	get_from_content getenv	function
configurationfiles	function	getextrapaths	function
dangerous	data table	getfilehashes	function
datastate	function	gethashes	function
defaultsuffixes	table	•	function
dirstatus	function	getownpath getreadfilename	function
dowithfilesandreport	function	hashers	data table
dowithfilesintree	function	homedir	
dowithpath	function	initialized	string function
dowithvariable	function	installinputfilehandler	function
executers	table	installinputlinehandler	function
expandbraces	function	jobpath	function
expandedpathfromlist	function	jobs	table
expandedpathlist	function	F currentcomponent	table
expandedpathlistfromvariable	function	•	
expandpath	function	F currentenvironment F currentproduct	
expandpathfromvariable	function	F currentproduct  F currentproject	
expansion	function	F justacomponent	
extendtexmfvariable	function	D processors	
filtered_from_content	function	F productcomponent	
find file	function	F usefile	
find_files	function	joinpath	function
findbinfile	function	knownvariables	function
findctxfile	function	libraries	table
finders	data table	F optionalloaded	tabte
findfile	function	F validoptional	
findfiles	function	load	function
findgivenfile	function	loadbinfile	function
findgivenfiles	function	loaders	data table
findlib	function	loadlualib	function
findpath	function	loadtexfile	function
ι πιωρατιι	TUILCETOIL	COUNTEVITE	i unc citon

loadtime function resetresolve function locateformat function resol ve function locators data table data table savers luacnffallback strina scandata function luacnfname string scanfiles function luacnfspec string schemes table luacnfstate strina T cleaners table macros F md5 F convertfile F none F decodecomment F strip F enablecomment F cleanname F encodecomment F fetchstring F preprocessed F fetchtable F install F processmk setdynamic function F processmklx setenv function F processmkvi function F version showpath maxreadlevel number simplescanfiles function methodhandler function splitconfigurationpath function openbinfile function splitexpansions function data table splitmethod openers function openfile function splitpath function function opentexfile stackpath function ownpath string starttiming function stoptimina function popextrapath function popinputname function suffixes data table function suffixmap data table poppath suffixofformat prefixes data table function prependhash function texdatablob function pushextrapath function function toppath pushinputname function unexpandedpath function pushpath function unexpandedpathlist function registerextrapath function unresolve function registerfile function updaterelations function registerfilehash function updatescript function registerintrees function uselibrary function registermethod function usertypes data table registerzipfile function usezipfile function validatedpath relations data table function function variable function renew renewcache function variableofformat function function variableofformatorsuffix function repath

wildcardpattern

function

function

function

reset

resetextrapaths

# sandbox (context)

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

### scripts (context)

#### autofontfeature table F disable F enable F handler 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 getdata function getinjector function getsplitter function

function

getstatus

```
handlers
                  data table
                  data table
helpers
injectors
                  data table
inserters
                  table
   F nobreakspace after
   F nobreakspace before
   F space after
   F space before
   F zerowidthspace after
   F zerowidthspace before
installdataset
                  function
installmethod
                  function
numbertodataset
                  data table
numbertohandler
                  data table
reset
                  function
                  function
set
setstatus
                  function
```

splitters

data table

### set (context)

contains function
create function
tolist function

tonumber function
totable function

# sha2 (extra lua)

HASH256	function	hash256	function
HASH384	function	hash384	function
HASH512	function	hash512	function
HEX256	function	hex256	function
HEX384	function	hex384	function
HEX512	function	hex512	function
digest256	function	sum256	function
digest384	function	sum384	function
digest512	function	sum512	function

# sio (extra lua)

read2dot14	function	readfixed2	function
Teauzuot14	Tunction	1 edu 1 1 x eu 2	Tunction
readbytes	function	readfixed4	function
readbytetable	function	readinteger1	function
readcardinal1	function	readinteger1le	function
readcardinal1le	function	readinteger2	function
readcardinal2	function	readinteger2le	function
readcardinal2le	function	readinteger3	function
readcardinal3	function	readinteger3le	function
readcardinal3le	function	readinteger4	function
readcardinal4	function	readinteger4le	function
readcardinal4le	function	readintegertable	function
readcardinaltable	function		

#### socket (extra lua)

S content-location

**BLOCKSIZE** number S content-md5 DATAGRAMSIZE number S content-range SETSIZE number S content-transfer-encoding **SOCKETINVALID** number S content-type bind function S cookie function choose S date connect function S diagnostic-code function connect4 S dsn-gateway connect6 function S etag dns table S expect F getaddrinfo S expires F gethostname S final-log-id F getnameinfo S final-recipient F tohostname S from F toip S host aettime function S if-match headers table S if-modified-since T canonic S if-none-match S if-range S accept S accept-charset S if-unmodified-since S accept-encoding S in-reply-to S accept-language S keywords S last-attempt-date S accept-ranges S action S last-modified S age S location S allow S max-forwards S alternate-recipient S message-id S arrival-date S mime-version S authorization S original-envelope-id S bcc S original-recipient S cache-control S pragma S cc S proxy-authenticate S comments S proxy-authorization S connection S range S content-description S received S content-disposition S received-from-mta S content-encoding S references S content-id S referer S remote-mta S content-language S content-length S reply-to

S reporting-mta

S resent-	bcc	protect	function
S resent-	сс	report	function
S resent-	date	select	function
S resent-	from	sink	function
S resent-	message-id	sinkt	table
S resent-	reply-to	F close-when-d	one
S resent-	sender	F default	
S resent-	to	F http-chunked	
S retry-a	fter	F keep-open	
S return-	path	skip	function
S sender		sleep	function
S server		source	function
S smtp-re	mote-recipient	sourcet	table
S status		F by-length	
S subject		F default	
S te		F http-chunked	
S to		F until-closed	
S trailer		tcp	function
S transfe	r-encoding	tcp4	function
S upgrade		tcp6	function
S user-ago	ent	tp	table
S vary		N TIMEOUT	
S via		F connect	
S warning		try	function
S will-re	try-until	udp	function
S www-autl	henticate	udp4	function
S x-maile	r	udp6	function
F lower		url	table
F normalize	!	F absolute	
http	table	F build	
N TIMEOUT		F build_path	
S USERAGENT	•	F escape	
F genericfo	rm	F parse	
F open		F parse_path	
F request		F unescape	
newtry	function		

### sorters (context)

basicsorter	function	D	
pasicsol rei	TullCtIon	B pm	
comparers	table	B uc	
F basic		B zc	
constants	table	B zm	
S defaultdigits		definitions	data table
S defaultlanguage		firstofsplit	function
S defaultmethod		packch	function
N digitsmaximum		packuc	function
N digitsoffset		replacementlist	function
N ignoredoffset		setlanguage	function
N replacementoffs	et	sort	function
T validmethods		splitters	table
B ch		F utf	
B mc		strip	function
B mm		tracers	data table
В рс		update	function

# sparse (context)

concat	function	range	function
get	function	restore	function
max	function	set	function
min	function	traverse	function
new	function	wipe	function

### statistics (context)

benchmarktimer	function	resettiming	function
checkfmtstatus	function	runtime	function
CHECKIIICS Latus	TullCtion	runtine	Tunction
currenttime	function	savefmtstatus	function
elapsed	function	show	function
elapsedindeed	function	showmemory	function
elapsedseconds	function	showusage	function
elapsedtime	function	starttiming	function
enable	boolean	stoptiming	function
formatruntime	function	threshold	number
hastiming	function	timed	function
memused	function	tracefunction	function
register	function		

# status (basic tex)

getbufferstate	function	getmarkstate	function
getcallbackstate	function	getneststate	function
getconstants	function	getnodestate	function
geterrorlinestate	function	getparameterstate	function
geterrorstate	function	getpoolstate	function
getexpandstate	function	getreadstate	function
getextrastate	function	getsavestate	function
getfilestate	function	getsparsestate	function
getfontstate	function	getstringstate	function
gethalferrorlinestate	function	gettexstate	function
gethashstate	function	gettokenstate	function
getinputstate	function	getwarningstate	function
getinsertstate	function	iocodes	table
getlanguagestate	function	list	function
getlookupstate	function	resetmessages	function
getluastate	function		

# storage (context)

allocate	function	noftables	number
data	table	register	function
mark	function	shared	data table
marked	function	storedfunctions	data table
max	number	strip	boolean
min	number	tofmodules	number
nofmodules	number	toftables	number

# streams (context)

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

# string (basic lua)

autodouble	function	nspaces	table
autosingle	function	optionalquoted	function
booleanstring	function	pack	function
byte	function	packsize	function
bytepairs	function	quote	function
bytes	function	quoted	function
bytetable	function	rep	function
char	function	replacenewlines	function
characterpairs	function	reverse	function
characters	function	split	function
checkedsplit	function	splitlines	function
collapsespaces	function	splitup	function
containsws	function	strip	function
count	function	sub	function
dawson	function	tformat	function
dump	function	toHEX	function
erf	function	toboolean	function
erfc	function	tobytes	function
erfcx	function	tocontext	function
erfi	function	todec	function
escapedpattern	function	todimen	function
escapedquotes	function	tohex	function
explode	function	tonodes	function
f6	function	topattern	function
find	function	totable	function
format	function	tounicode16	function
formatter	function	toutf	function
formatters	function	toutf32	function
fullstrip	function	toutf8	function
gmatch	function	tracedchar	function
gsub	function	tracedchars	table
is_boolean	function	unpack	function
is_empty	function	unquote	function
itself	function	unquoted	function
len	function	upper	function
limit	function	utfcharacter	function
linetable	function	utfcharacters	function
longtostring	function	utfcharactertable	function
lower	function	utflength	function
match	function	utfpadd	function
nospaces	function	utfpadding	function

utfvalue	function	valid	function
utfvalues	function	voigt	function
utfvaluetable	function	voigt_hwhm	function

### structures (context)

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

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

F listindex		F expandcurrent
D numbers		F export
F ordered		T files
F postpone		T data
F resetpostponed		F define
F restore		F found
F save		F get
F setstate		F filter
D states		F filterdefault
F store		D filters
pages	table	D flaginternals
F allmarked		F from
F analyze		D functions
D collected		F get
F fraction		F getcurrentmetadata
F has_changed		F getcurrentprefixspec
F in_body		F getinnermethod
F is_odd		F getinternalcachedlistreference
F mark		F getinternallistreference
F marked		F getinternalreference
F markedlist		F getoutermethod
N nofpages		D handlers
F number		F identify
F on_right		F import
F save		F inject
D tobesaved		F injectcurrentset
F toranges		S innermethod
references	table	D internals
F analyze		F load
F checkedfile		F loadpresets
F checkedfileorurl		F mark
F checkedprogram		S outermethod
F checkedrealpage		D pages
F checkedurl		U prefixsplitter
D collected		D productdata
U componentsplitter		T programs
F currentmetadata		T data
F currentorder		F define
D currentset		F get
F define		F realpageofpage
D defined		U referencesplitter
D derived		D referred
F enhance		F referredpage
D executers		F registerfinalizer

F registerinitializer		D	collected	
F registerpage		F	compare	
F reset		F	define	
D runners		F	enhance	
F set		F	extend	
F setandgetattribute		F	filter	
F setcomponent		F	filtercollected	
F setinternalreference		F	finalize	
F setlinkmethod		F	findinternal	
F setnextinternal		F	flush	
F setnextorder		F	get	
F setreferencerealpage		F	prepare	
D specials		F	process	
F splitcomponent		F	setmethod	
F splitprefix		F	sort	
F splitreference		F	store	
F synchronizepage		D	tobesaved	
T testrunners		F	unique	
F inner		F	userdata	
F special	S	ect	ions	table
F special operation		F	autodepth	
F special operation wi	th arguments	F	cct	
T testspecials		D	collected	
F deltapage		F	current	
Fi		F	currentblock	
F internal			currentid	
F page		F	currentlevel	
F realpage		F	currentsectionindex	
F section				
			depthnumber	
F userpage		F	finddata	
D tobereferred		F F	finddata findnumber	
D tobereferred D tobesaved		F F F	finddata findnumber fullnumber	
D tobereferred D tobesaved D tracedpages		F F F	finddata findnumber fullnumber getcurrentlevel	
D tobereferred D tobesaved D tracedpages T urls		F F F	finddata findnumber fullnumber getcurrentlevel getlevel	
D tobereferred D tobesaved D tracedpages T urls T data		F F F F	finddata findnumber fullnumber getcurrentlevel getlevel getnumber	
D tobereferred D tobesaved D tracedpages T urls T data F define		F F F F	finddata findnumber fullnumber getcurrentlevel getlevel getnumber internalreference	
D tobereferred D tobesaved D tracedpages T urls T data F define F found		F F F F D	finddata findnumber fullnumber getcurrentlevel getlevel getnumber internalreference levelmap	
D tobereferred D tobesaved D tracedpages T urls T data F define F found F get		F F F F D	finddata findnumber fullnumber getcurrentlevel getlevel getnumber internalreference levelmap levels	
D tobereferred D tobesaved D tracedpages T urls T data F define F found F get F untex		F F F F D	finddata findnumber fullnumber getcurrentlevel getlevel getnumber internalreference levelmap levels matchingtilldepth	
D tobereferred D tobesaved D tracedpages T urls T data F define F found F get F untex D usedinternals		F F F F D D F	finddata findnumber fullnumber getcurrentlevel getlevel getnumber internalreference levelmap levels matchingtilldepth numberatdepth	
D tobereferred D tobesaved D tracedpages T urls T data F define F found F get F untex D usedinternals D usedviews		F F F F D D F F	finddata findnumber fullnumber getcurrentlevel getlevel getnumber internalreference levelmap levels matchingtilldepth numberatdepth numbers	
D tobereferred D tobesaved D tracedpages T urls T data F define F found F get F untex D usedinternals D usedviews F valid	tahlo	F F F D D F F F F	finddata findnumber fullnumber getcurrentlevel getlevel getnumber internalreference levelmap levels matchingtilldepth numbers popblock	
D tobereferred D tobesaved D tracedpages T urls T data F define F found F get F untex D usedinternals D usedviews	table	F F F D D F F F F F	finddata findnumber fullnumber getcurrentlevel getlevel getnumber internalreference levelmap levels matchingtilldepth numberatdepth numbers	

F register		E register			
D registered		•	F register		
F reportstructure	-				
F save		F resetshown			
T sectionblockdata		F resetused			
		r resetuseu F sort			
T bodypart					
S bookmark		F synonym			
F set F setblock		D tobesaved	table		
F setchecker		<b>tags</b> T backend	table		
		T checks			
F setentry F setinitialblock					
F setlevel		F marginanchor			
		F margintext			
F setnumber		F math F mrow			
F showstructure F structuredata					
F structuredata F title		F mtable T destinationhash			
D tobesaved					
	F typesetnumber F adddestination				
F userdata		Faddimplicit			
B verbose	table	F addinternal			
sets	table	F addreference			
F define		F combination			
F get		F delimitedsymbol			
F getall			F description		
D setlist	table	F descriptionsymbol			
specials	tabte	F document			
D collected		F float			
F retrieve			F formulacontent		
F store			F image		
D tobesaved	table	F item			
synonyms	table	F itemgroup			
F analyzed		F link			
D collected			F listitem		
F compare			F mi		
F define			F msub		
F filter			F msup		
F finalize		, ,	F paragraph		
F flush		F publication	F publication  F reference		
F isshown					
F isused			F registerlocation		
F meaning			F registerpages		
F prepare		F registerseparator			
F process		F section			

F sorting F registerextradata F subsentencesymbol F registermetadata F synonym F restart F tablecell F setaspect F tabulate F setattributehash F tabulatecell F setcombination T finalizers F setconstruct F descriptions F setfigure T fixes F setfloat F linenumher F setformulacontent T listdata F sethighlight T referencehash F setitem F setattribute F setitemgroup T usedimages F setlist T image F setnotation T usedstyles F setnotationsymbol T construct F setparagraph T highlight F setproperty F setpublication F current F elementtag F setregister F finishexport F setsorting F getextradata F setsynonym F getid F settablecell F getmetadata F settabulatecell F gettablecell F gettabulatecell F handler F initializeexport

D labels

F lastinchain

F locatedtag

U splitter

D properties

T patterns

F last

F settagdelimitedsymbol
F settagsubsentencesymbol
F setupexport
F setuserproperties
D specifications
F start

F stop
F strip
D taglist
T usewithcare

# table (basic lua)

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

# tex (basic tex)

attribute	table	getboxresourcebox	function
badness	function	getboxresourcedimensions	function
box	table	getcatcode	function
boxresources	table	getcount	function
F getbox		getdelcode	function
F getdimensions		getdelcodes	function
F save		getdimen	function
F use		getdimensionvalue	function
catcode	table	getdiscoptionvalues	function
chardef	function	geterrorvalues	function
codes	table	getflagvalues	function
conditionals	data table	getfontoffamily	function
constants	data table	getfrozenparvalues	function
count	table	getglue	function
cprint	function	getglyphdata	function
ctdcatcodes	number	getglyphoptionvalues	function
ctxcatcodes	number	getglyphscript	function
definefont	function	getglyphstate	function
delcode	table	getgroupvalues	function
dimen	table	gethelptext	function
dimensiondef	function	gethyphenationvalues	function
directives	data table	getinsertcontent	function
discoptioncodes	data table	getinsertdepth	function
enableprimitives	function	getinsertdistance	function
error	function	getinsertheight	function
expandasvalue	function	getinsertlimit	function
experiments	data table	getinsertmultiplier	function
extraprimitives	function	getinsertwidth	function
fatalerror	function	getintegervalue	function
flagcodes	data table	getinteraction	function
fontidentifier	function	getiovalues	function
fontname	function	getlargestusedmark	function
forcehmode	function	getlccode	function
forcesynctexline	function	getlinedir	function
forcesynctextag	function	getlist	function
fprint	function	getlocallevel	function
frozenparcodes	data table	getmark	function function
get getattribute	function function	getmath	function
•	function	getmathcode	function
getbox	function	getmathcodes	function
getboxdir	TUNCTION	getmathdir	runction

getmathoptionvalues	function	isprintable	function
getmathparametervalues	function	isskip	overloaded function
getmathstylenamevalues	function	istoken	function
getmathstylevalues	function	istoks	function
getmathvariantvalues	function	lastnodetype	function
getmodevalues	function	lccode	table
getmuglue	function	linebreak	function
getmuskip	function	lists	table
getnest	function	luacatcodes	number
getnormalizevalues	function	magicconstants	table
getoutputactive	function	N maxdimen	
getpacktypevalues	function	N running	
getpagestate	function	N trueinch	
getparbeginvalues	function	mathchardef	function
getparcontextvalues	function	mathcode	table
getpardir	function	mathoptioncodes	data table
getparmodevalues	function	modelevels	table
getprimitiveorigins	function	N horizontal	
getregisterindex	function	N math	
getrunstatevalues	function	N unset	
getsfcode	function	N vertical	
getskip	function	modes	data table
getsynctexline	function	mprint	function
getsynctexmode	function	muglue	table
getsynctextag	function	muskip	table
gettextdir	function	nest	table
gettoks	function	nilcatcodes	number
getuccode	function	normalizecodes	data table
glue	table	notcatcodes	number
glyphoptioncodes	data table	number	function
groupcodes	data table	poplocal	function
hashtokens	function	primitives	function
hyphenationcodes	data table	print	function
ifs	data table	prtcatcodes	number
inicatcodes	number	pushlocal	function
integerdef	function	quitlocal	function
isattribute	function	quittoks	function
isbox	function	resetparagraph	function
iscount	overloaded function	on rlncatcodes	number
isdefined	function	romannumeral	function
isdimen	overloaded function	on <b>round</b>	function
isglue	function	runlocal	function
ismuglue	function	runtoks	function
ismuskip	overloaded function	on saveboxresource	function

scale	function	setskip	function
scantoks	function	setsynctexline	function
set	function	setsynctexmode	function
setattribute	function	setsynctextag	function
setbox	function	settextdir	function
setboxdir	function	settoks	function
setcatcode	function	setuccode	function
setcount	function	sfcode	table
setdelcode	function	shiftparshape	function
setdimen	function	shipout	function
setdimensionvalue	function	showcontext	function
setglue	function	skip	table
setglyphdata	function	sp	function
setglyphscript	function	splitbox	function
setglyphstate	function	sprint	function
setinsertcontent	function	systemmodes	data table
setinsertdistance	function	takebox	function
setinsertlimit	function	texcatcodes	number
setinsertmultiplier	function	toks	table
setintegervalue	function	tonumber	function
setinteraction	function	toscaled	function
setlccode	function	tpacatcodes	number
setlinedir	function	tpbcatcodes	number
setlist	function	tprint	function
setmath	function	trackers	data table
setmathcode	function	triggerbuildpage	function
setmathdir	function	txtcatcodes	number
setmuglue	function	type	function
setmuskip	function	uccode	table
setnest	function	uprint	function
setpardir	function	useboxresource	function
setrunstate	overloaded funct		number
setsfcode	function	write	function

# texconfig (basic tex)

buffersize	table	languagesize	table
N size		N size	
N step		N step	
errorlinesize	table	marksize	table
N size		N size	
expandsize	table	N step	
N size		nestsize	table
filesize	table	N size	
N size		N step	
N step		nodesize	table
firstline	string	N size	
fontsize	table	N step	
N size		parametersize	table
N step		N size	
formatname	string	N step	
functionsize	number	poolsize	table
halferrorlinesize	table	N size	
N size		N step	
hashsize	table	propertiessize	number
N size		savesize	table
N step		N size	
init	overloaded function	N step	
inputsize	table	shell_escape	string
N size		stringsize	table
N step		N size	
insertsize	table	N step	
N size		tokensize	table
N step		N size	
kpse_init	boolean	N step	

# texio (basic tex)

closeinput	function	writenl	function
terminal	function	writeselector	function
write	function	writeselectornl	function
write_nl	function		

# token (basic tex)

create	function	getexpandable	function
expand	function	getfields	function
expand macro	function	getflags	function
expandmacro	function	getfrozen	function
future expand	function	getfunctionvalues	function
futureexpand	function	getid	function
get_active	function	getimmutable	function
get_cmdchrcs	function	getindex	function
get_cmdname	function	getinstance	function
get_command	function	getinteger	function
get_csname	function	getmacro	function
get_cstoken	function	getmeaning	function
get_dimension	function	getnoaligned	function
get_expandable	function	getparameters	function
get_fields	function	getpermanent	function
get_flags	function	getprimitive	function
get_frozen	function	getprimitives	function
get_id	function	getprotected	function
<pre>get_immutable</pre>	function	getrange	function
get_index	function	gettok	function
get_instance	function	gettolerant	function
get_integer	function	gobble	function
get_macro	function	gobble_dimen	function
get_meaning	function	gobble_integer	function
get_noaligned	function	gobbledimen	function
get_parameters	function	gobbleinteger	function
get_permanent	function	is_defined	function
get_primitive	function	is_next_char	function
get_protected	function	is_token	function
get_range	function	isdefined	function
get_tok	function	isnextchar	function
get_tolerant	function	istoken	function
getactive	function	new	function
getcmdchrcs	function	peek_next	function
getcmdname	function	peek_next_char	function
getcommand	function	peek_next_expanded	function
getcommandid	function	peeknext	function
getcommandvalues	function	peeknextchar	function
getcsname	function	peeknextexpanded	function
getcstoken	function	pop_macro	function
getdimension	function	popmacro	function

push_macro	function	scanbox	function
pushmacro	function	scancardinal	function
put_back	function	scanchar	function
put_next	function	scancmdchr	function
putback	function	scancmdchrexpanded	function
putnext	function	scancode	function
save_lua	function	scancsname	function
savelua	function	scandelimited	function
scan_argument	function	scandimen	function
scan_box	function	scandimenargument	function
scan_cardinal	function	scanfloat	function
scan_char	function	scanglue	function
scan_cmdchr	function	scaninteger	function
scan_cmdchr_expanded	function	scanintegerargument	function
scan_code	function	scankey	function
scan_csname	function	scankeyword	function
scan_delimited	function	scankeywordcs	function
scan_dimen	function	scanletters	function
scan_dimen_argument	function	scanluacardinal	function
scan_float	function	scanluainteger	function
scan_glue	function	scanluanumber	function
scan_integer	function	scannext	function
scan_integer_argument	function	scannextchar	function
scan_key	function	scannextexpanded	function
scan_keyword 	function	scanreal -	function
scan_keyword_cs	function	scanscale	function
scan_letters	function	scanskip	function
scan_luacardinal	function	scanstring	function
scan_luainteger	function	scantoken	function
scan_luanumber	function	scantokencode	function
scan_next	function	scantokenlist	function
scan_next_char	function	scantoks	function
scan_next_expanded	function	scanvalue	function function
scan_real	function function	scanword serialize	function
scan_scale	function		function
scan_skip		set_char	
scan_string	function	set_dimension	function
scan_token scan token code	function function	set_integer set lua	function function
		_	
scan_tokenlist scan toks	function function	set_macro setchar	function function
scan_toks scan_value	function	setchar setdimension	function
scan_value scan word	function	setinteger	function
_	function	setinteger setlua	function
scanargument	TUILCTION	Serrid	Tunction

setmacro	function	skipnextexpanded	function
skip_next	function	type	function
skip_next_expanded	function	undefine_macro	function
skipnext	function	undefinemacro	function

# tokens (context)

accessors	table		color	
Factive	table			1 -
			colordefa	
F cmd			colordeff	
F cmdchrcs			colordeff	
F cmdname			colordefr	
F command			dofinishr	
F csname			dostartte	
F expandab	le		finishjob	
F frozen			firstofon	_
F index				oarguments
F name			gobbleone	eargument
F protected	d		goto	
F range			iftrue	
astable	function		input	
bits	table			ltypescriptfile
N active			resetctxs	canner
N alignment			rlap	
N begingro				woarguments
N characte	r		setfalsev	
N close		U	setsectio	nblock
N comment		U	setupsyst	em
N endgroup		U	startcolu	ımns
N endofline	e	U	starttabu	late
N escape		U	starttitl	e
N ignore		U	startxtit	le
N invalid		U	stopcolum	ins
N letter		U	stoptabul	ate
N mathshif	t	U	stoptitle	•
N open		U	stopxtitl	e
N other		U	texsetup	
N paramete	r	U	xmlw	
N space		comm	nands	data table
N subscrip	t	comp	oile	function
N supersor	ipt	cons	stant	function
N whitespa	ce	conv	erters	table
cache	table	S	toboolean	
U NC		S	todimen	
U NR		S	toglue	
U bf		S	tonumber	
U buff_fin	ish	S	tostring	
U c_font_c	ompact	crea	ite	function

	_		
defined	function	F	cmdchrexpanded
flags	function	F	code
getinteger	function	F	conditional
getters	table	F	count
F box		F	csname
F count		F	delimited
F cstoken		F	dimen
F dimen		F	dimenargument
F glue		F	dimension
F macro		F	float
F meaning		F	glue
F skip		F	gluespec
F token		F	gluevalues
gobble	function	F	hash
isdefined	function	F	hbox
istoken	function	F	integer
new	function	F	integerargument
pickup	function	F	ischar
popmacro	function	F	key
presets	table	F	keyword
T 1 argumen	t	F	keywordcs
T 1 string		F	letters
T 2 argumen	ts	F	list
T 2 strings		F	luacardinal
T 3 argumen	ts	F	luainteger
T 3 strings		F	luanumber
T 4 argumen	ts	F	lxmlid
T 4 strings		F	next
T 5 strings		F	nextchar
T 6 strings		F	nextexpanded
T 7 strings		F	number
T 8 strings		F	optional
pushmacro	function	F	peek
scanners	table		peekchar
F argument		F	peekexpanded
F argumenta	sis	F	real
F array		F	scanclose
F boolean		F	scanopen
F box		F	skip
F bracketed		F	skipexpanded
F bracketed	asis		string
F cardinal			table
F char		F	token
F cmdchr		F	tokencode

F tokenlist	F report
F tokens	F scanargument
F toks	F scanargumentasis
F value	F scanarray
F vbox	F scanboolean
F verbatim	F scanbox
F vtop	F scanbracketed
F whd	F scanbracketedasis
F word	F scancardinal
setinteger function	F scanclose
setters table	F scancode
F box	F scanconditional
F char	F scancsname
F count	F scandelimited
F dimen	F scandimen
F glue	F scandimenargument
F lua	F scandimension
F macro	F scanglue
F skip	F scangluespec
shortcuts table	F scangluevalues
T bits	F scanhash
N active	F scanhbox
N alignment	F scaninteger
N begingroup	F scanintegerargument
N character	F scankeyword
N close	F scankeywordcs
N comment	F scanletters
N endgroup	F scanlist
N endofline	T scanners
N escape	F argument
N ignore	F argumentasis
N invalid	F array
N letter	F boolean
N mathshift	F box
N open	F bracketed
N other	F bracketedasis
N parameter	F cardinal
N space	F char
N subscript	F cmdchr
N superscript	F cmdchrexpanded
N whitespace	F code
N close	F conditional
F inspect	F count
N open	F csname

F delimited	F verbatim
F dimen	F vtop
F dimenargument	F whd
F dimension	F word
F float	F scannumber
F glue	F scanopen
F gluespec	F scanoptional
F gluevalues	F scanstring
F hash	F scantable
F hbox	F scantokenlist
F integer	F scantoks
F integerargument	F scanvbox
F ischar	F scanverbatim
F key	F scanvtop
F keyword	F scanword
F keywordcs	F toboolean
F letters	F todimen
F list	T tokens
F luacardinal	T accessors
F luainteger	F active
F luanumber	F cmd
F lxmlid	F cmdchrcs
F next	F cmdname
F nextchar	F command
F nextexpanded	F csname
F number	F expandable
F optional	F frozen
F peek	F index
F peekchar	F name
F peekexpanded	F protected
F real	F range
F scanclose	F astable
F scanopen	T cache
F skip	U NC
F skipexpanded	U NR
F string	U bf
F table	U buff_finish
F token	U c_font_compact
F tokencode	U color
F tokenlist	U colordefalc
F tokens	U colordefflc
F toks	U colordefflt
F value	U colordefrlt
F vbox	U dofinishreference

U dostarttext F macro U finishjob F meaning U firstofoneargument F skip U firstoftwoarguments F token U gobbleoneargument F gobble F isdefined U goto U iftrue F istoken U input F new U loadfoundtypescriptfile F pickup U resetctxscanner F popmacro U rlap T presets U secondoftwoarguments F pushmacro U setfalsevalue F setinteger U setsectionblock T setters U setupsystem F box U startcolumns F char U starttabulate F count U starttitle F dimen U startxtitle F glue U stopcolumns F lua U stoptabulate F macro U stoptitle F skip U stopxtitle T shortcuts U texsetup N close U xmlw F inspect D commands N open F compile F report F scanargument F constant T converters F scanargumentasis S toboolean F scanarray S todimen F scanboolean S toglue F scanbox S tonumber F scanbracketed S tostring F scanbracketedasis F create F scancardinal F defined F scanclose F flags F scancode F scanconditional F getinteger T getters F scancsname F box F scandelimited F count F scandimen F cstoken F scandimenargument F scandimension F dimen F glue F scanglue

F scangluespec F scantokenlist F scangluevalues F scantoks F scanhash F scanvbox F scanhbox F scanverbatim F scaninteger F scanvtop F scanintegerargument F scanword F toboolean F scankeyword F scankeywordcs F todimen F scanletters F tonumber F scanlist F tostring F scannumber D values F scanopen F tonumber F scanoptional F tostring

F scanstring values data table

F scantable

#### tracers (context)

printerror function
printwarning function

showlines function

# trackers (context)

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

# typesetters (context)

alignments	table	T handlers	
F handler		F installhandler	
F set		F processmath	
breakpoints	table	F set	
F define		F setcolor	
F handler		F setmath	
D mapping		F tomode	
T methods		firstlines	table
T numbers		T actions	
F set		F default	
F setreplacement		F line	
cases	table	F word	
T actions		F handler	
F handler		F set	
F register		fontkerns	table
F set		F handler	
characteralign	table	initials	table
F handler		T actions	
F resetcharacter	align	F default	
F setcharacteral	•	F addanchortolin	е
characters	table	F addtoline	
F handler		F calculatedelta	
T methods		F checkline	
F replacenbsp		F handler	
F replacenbspace		F moveinline	
checkers	table	F set	
F handler		injectors	table
F reset		F check	
F set		T list	
cleaners	table	F mark	
F handler		F reset	
F set		F set	
digits	table	F show	
T actions		italics	table
F handler		F enablemath	
F set		F enabletext	
directions	table	F forcevariant	
F getfences		F handler	
F getglobal		F reset	
F getmethod		F set	
F handler		kerns	table

5.6.1				
D factors		F register		
F handler		F reset		
F keepligature		F split		
D mapping		F startapply		
F set		F stopapply		
manipulators	table	F stripped		
F apply		F tostring		
F applyspecific	cation	rubies	table	
T methods		F attach		
F Word		F check		
F Words		showsuspects	function	
F abbreviated	journal	spacings	table	
F expandedjou	rnal	F define		
F lowercase		F handler		
F stripperiod		D mapping		
F uppercase		T numbers		
T patterns		T frenchpunct	tuation	
U list		T character	S	
U pair		S name		
F splitspecific	cation	N number		
margins	table	F reset		
F finalhandler		F set		
F globalhandler	•	F setup		
F localhandler		wrappers	table	
F save		F handler		
marksuspects	function	xtables	table	
paragraphs	table	F cleanup		
F addanchortoli	ine	F construct		
F addtoline		F create		
F calculatedelt	ta	F finish_row		
F checkline		F flush		
F handler		F initialize_c	onstruct	
F moveinline		F initialize_r	eflow_height	
F set		F initialize_r	eflow_width	
periodkerns	table	F next_row		
D factors		F reflow_heigh	t	
F handler		F reflow_width		
D mapping		F set_construc	t	
F set		F set_reflow_h	eight	
processors	table	F set_reflow_w	_	
F apply				

#### updaters (context)

apply function
register function

# url (context)

addscheme	function	hashed	function
barepath	function	hasscheme	function
construct	function	query	function
decode	function	split	function
encode	function	toquery	function
escape	function	unescape	function
filename	function	unescapeget	function

# utf8 (basic lua)

char	function	codes	function
charpattern	string	len	function
codepoint	function	offset	function

# utilities (context)

debugger	table	F readtag
F disable	cabic	F setposition
F enable		F size
F savestats		F skip
F showstats		F skiplong
F showtracebac	k	F skipposition
files	table	F skipshort
F close		F writebyte
F getposition		F writecardinal1
F getsize		F writecardinallle
Flook		F writecardinal2
F open		F writecardinal2le
F read2dot14		F writecardinal3
F readbyte		F writecardinal3le
F readbytes		F writecardinal4
F readbytetable	e	F writecardinal4le
F readcardinal		F writeintegerl
F readcardinal	1	F writeinteger1le
F readcardinal	1le	F writeinteger2
F readcardinal	2	F writeinteger2le
F readcardinal	2le	F writeinteger3
F readcardinal	3	F writeinteger3le
F readcardinal	3le	F writeinteger4
F readcardinal	4	F writeinteger4le
F readcardinal	4le	F writestring
F readcardinal	table	<b>formatters</b> table
F readchar		F formatcolumns
F readfixed2		F list
F readfixed4		F stripzeros
F readinteger		<b>ghostscript</b> table
F readinteger1		F convert
F readinteger1	le	F statistics
F readinteger2		<b>graphicmagick</b> table
F readinteger2	le	F convert
F readinteger3		F statistics
F readinteger3		<b>graphicsmagick</b> table
F readinteger4		F convert
F readinteger4		F statistics
F readintegert		<b>lua</b> table
F readsignedby	te	B alwaysstripcode
F readstring		F checkmemory

F compile	B text
F loadedluacode	F iterator
F loadstring	F keq to hash
F loadstripped	F listitem
N nofstrippedbytes	F make settings to hash pattern
N nofstrippedchunks	F mergehashes
F registerfinalizer	F options_to_array
B stripcode	F options_to_hash
T strippedchunks	T patterns
F strippedloadstring	U settings_to_array
T suffixes	U settings_to_hash_a
S lua	U settings_to_hash_b
S luc	U settings_to_hash_c
S lui	U settings_to_hash_d
S luj	U unittotex
S luv	F process_stripped_settings
S tma	F rfc4180splitter
S tmc	F runtime
S tua	F settings_to_array
S tuc	F settings_to_array_obey_fences
<pre>packers table</pre>	F settings_to_array_with_repeat
F hashed	F settings_to_hash
F new	F settings_to_hash_colon_too
F pack	F settings_to_hash_strict
F simplehashed	F settings_to_hash_tolerant
F strip	F settings_to_numbers
F unpack	F settings_to_set
N version	F simple_hash_to_string
<b>parsers</b> table	F splitmethod
F add_settings_to_array	F splitthousands
F arguments_to_table	F stepper
F array_to_string	F stripped_settings_to_array
F csvsplitter	F totime
F getparameters	F unittotex
F groupedsplitat	F unittoxml
F hash_to_string	<b>randomizer</b> table
T hashes	F get
T settings_to_set	F getnumber
T text,hidden,paper,page,leftpage,rightpage	F getseed
B hidden	F popseed
B leftpage	F pushseed
B page	F reuseseed
B paper	F setseed
B rightpage	F setseedi

randomizers	table	F look
F poisson	tabte	F open
sequencers	table	F openstring
F appendaction	tabte	F read2dot14
F appendgroup		F readbyte
F compile		F readbytes
F disableaction		F readbytetable
F disablegroup		F readcardinal
F enableaction		F readcardinal1
F enablegroup		F readcardinalle
D functions		F readcardinal2
F localize		F readcardinal2le
F new		F readcardinal3
F nodeprocessor		F readcardinal3le
F prependaction		F readcardinal4
F prependgroup		F readcardinal4le
F removeaction		F readcardinaltable
F replaceaction		F readchar
F setkind		F readfixed2
F tostrina		F readfixed4
setters	table	F readinteger
F disable		F readinteger1
F enable		F readinteger1le
F initialize		F readinteger2
F list		F readinteger2le
F new		F readinteger3
F register		F readinteger3le
F report		F readinteger4
F reset		F readinteger4le
F show		F readintegertable
stacker	table	F readsignedbyte
F new		F readstring
storage	table	F setposition
F allocate		F size
F checked		F skip
F mark		F skipbytes
F marked		F skiplong
F setinitializer		F skipshort
F sparse		<pre>strings table</pre>
streams	table	F collapse
F close		F collapsecrlf
F getposition		T formatters
F getsize		F add
F getstring		F new

F newcollector F insertaftervalue F newrepeater F insertbeforevalue F nice F migratetable T striplinepatterns F removevalue U collapse F replacevalue U prune templates table F load U prune and collapse U prune and no empty F replace U prune and to space F replacer U retain F resolve zipfiles table U retain and collapse U retain and no empty F close F striplines F found F gunzipfile F striplong F hash F tabtospace T tracers F list tables table F open F accesstable F unzip F definedtable F unzipdir

F zipdir

F definetable

F encapsulate

#### visualizers (context)

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

# xcomplex (extra lua)

_		
Ι	function	F sqrt
add	function	F tan
div	function	F tanh
eq	function	F topair
inde	<b>ex</b> table	F tostring
FΙ		F totable
F _	_add	Fmul
F _	_div	Sname
F _	_eq	Fpow
Т_	_index	Fsub
F	I	Ftostring
F	add	Funm
F	div	F abs
F	eq	F acos
F	mul	F acosh
S	name	F arg
F	pow	F asin
F	sub	F asinh
F	tostring	F atan
F	unm	F atanh
F	abs	F conj
F	acos	F cos
F	acosh	F cosh
F	arg	F exp
F	asin	Fi
F	asinh	F imag
F	atan	F log
F	atanh	F new
F	conj	F pow
F	cos	F proj
F	cosh	F real
F	exp	F sin
F	i	F sinh
F	imag	F sqrt
F	log	F tan
F	new	F tanh
F	pow	F topair
F	proj	F tostring
F	real	F totable
F	sin	mul function
F	sinh	<b>name</b> string

pow	function	i	function
sub	function	imag	function
tostring	function	log	function
unm	function	new	function
abs	function	pow	function
acos	function	proj	function
acosh	function	real	function
arg	function	sin	function
asin	function	sinh	function
asinh	function	sqrt	function
atan	function	tan	function
atanh	function	tanh	function
conj	function	topair	function
cos	function	tostring	function
cosh	function	totable	function
exp	function		

# xdecimal (extra lua)

add	function		F getprecision
band	function		F ln
bor	function		F log
bxor	function		F max
div	function		F min
eq	function		F minus
idiv	function		F new
index	table		F plus
Fadd			F pow
Fband			F rotate
Fbor			F setprecision
Fbxor			F shift
Fdiv			F sqrt
Feq			F toengstring
Fidiv			F tonumber
Tindex			F tostring
Fadd			F trim
Fband		F	le
Fbor		F	lt
Fbxor		F	mod
Fdiv		F	mul
Feq		S	name
Fidiv		F	pow
Fle		F	shl
Flt		F	shr
Fmod		F	sub
Fmul		F	tostring
Sname		F	unm
Fpow		F	abs
Fshl		F	band
Fshr		F	bor
Fsub		F	bxor
Ftostring		F	conj
Funm		F	сору
F abs		F	exp
F band		F	getprecision
F bor		F	ln
F bxor		F	log
F conj		F	max
F copy		F	min
F exp		F	minus

	F new		band	function
	F plus		bor	function
	F pow		bxor	function
	F rotate		conj	function
	F setprecisio	n	сору	function
	F shift		exp	function
	F sqrt		getprecision	function
	F toengstring		ln	function
	F tonumber		log	function
	F tostring		max	function
	F trim		min	function
_	le	function	minus	function
_	lt	function	new	function
_	mod	function	plus	function
_	mul	function	pow	function
_	name	string	rotate	function
_	pow	function	setprecision	function
_	shl	function	shift	function
_	shr	function	sqrt	function
_	sub	function	toengstring	function
_	tostring	function	tonumber	function
_	unm	function	tostring	function
ě	abs	function	trim	function

#### xmath (extra lua)

acos	function	isnormal	function
acosh	function	j0	function
asin	function	j1	function
asinh	function	jn	function
atan	function	ldexp	function
atan2	function	lgamma	function
atanh	function	log	function
cbrt	function	log10	function
ceil	function	log1p	function
copysign	function	log2	function
cos	function	logb	function
cosh	function	modf	function
deg	function	nan	number
erf	function	nearbyint	function
erfc	function	nextafter	function
exp	function	pi	number
exp2	function	pow	function
expm1	function	rad	function
fabs	function	remainder	function
fdim	function	remquo	function
floor	function	round	function
fma	function	scalbn	function
fmax	function	sin	function
fmin	function	sinh	function
fmod	function	sqrt	function
frexp	function	tan	function
gamma	function	tanh	function
hypot	function	tgamma	function
inf	number	trunc	function
isfinite	function	y0	function
isinf	function	y1	function
isnan	function	yn	function

#### xml (context)

	£		
addentitiesdoctype	function	F fontspecification	
addspecialcode	function	F mappedstylevalue	
after	function	F padding	
all	function	F size	
applylpath	function	F style	
applyselector	function	F stylevalue	
assign	function	F todimension	
attribute	function	F variant	
badinclusions	function	F weight	
before 	function	defaulthandlers	table
body	function	D file	
builtinentities	table	D parsedxml	
B amp		D string	
B apos		D tex	
B gt		D texline	
B lt		D texspace	
B quot		D verbose	
cdata	function	defaultprotocol	string
cdatatotext	function	delete	function
checkbom	function	<del>delete_element</del>	<del>function</del>
checkerror	function	despecialized	function
checknamespace	function	each	function
checkns	function	each_element	<del>function</del>
cleansed	function	elements	function
collect	function	elementtocdata	function
<del>collect_elements</del>	<del>function</del>	empty	function
collect_tags	function	entities	data table
collect_texts	<del>function</del>	erase	function
collected	function	errorhandler	function
collecttexts	function	escaped	function
compactelement	function	expressions	table
content	function	F attribute	
convert	function	F boolean	
сору	function	F child	
count	function	F contains	
cprint	function	F count	
css	table	F error	
F applyselector		F find	
F colorspecification		F hasclass	
F dimension		F idstring	
F family		F lower	

F number F oncorf F oncorf F oncorf F print F print F quit F quit F quit F tag F tag F tattribute F text F text F upper F cata F upper F chainattribute F inalizers F paragraphs T tex F paragraphs T tex F paragraphs F paragraphs F paragraphs F empty T tex F pall F function F chainattribute F chainattribute F chainattribute F chainattribute F first F all F function F empty T tex F first F all F function F concat F c	F name		F upperall	
F print F quit F quit F tag F tat F tag F tatribute F text F undefined F undefined F undefined F unction F unction F default F paragraphs F chainattribute F concat F c	F number		F xml	
F quit F tag F text F text F text F undefined F upper F chainattribute F upper F chainattribute Fillin f unction filter f tunction f function F elements F paragraphs F empty T tex F first F all F attribute F chainattribute F chainattribute F chainattribute F chainattribute F chainattribute F chainattribute F concat F concat F concat F concatrange F concatrange F context F first F count F cotatext F first F default F first F default F text F first F lags F default F first F lags F depth F text F first F first F function F index F first F texts F function F index F first F text F function F index F found f function F index F loweral F loweral F parameter F position F parameter F position F parameter F position F recursetext F reverse F first F reverse F include F inction F stripped inclusions f unction f first f tags inclusions f unction f first F tags F tags inclusions f unction f first f tags inclusions f unction first tiptives	F oneof		T xml	
F text F tundefined F tundefined F undefined F upper F count fillin f unction filter function finalizers F paragraphs F paragraphs T tex F all F attribute F chainattribute F chainapath F command F concat F concex F count F table F ctxtext F fedefault F ctxtext F fag F default F ctxtext F function F lower F first F function F index F function F index F function F index F function F lower F cases F lowerall F cases F lowerall F cound F concat F cases F lowerall F reverse F lowerall F parameter F position F recursetext F reverse F position F parameter F position F recursetext F reverse F reve	F print		F all	
F text F undefined F undefined F upper F upper F chainattribute  fillin function filter function F default finalizers F paragraphs F paragraphs F text F all F all F chainattribute F chainattribute F chainattribute F chainattribute F chainattribute F chainattribute F command F command F comoat F concat F count F cotxext F function F textex F function F textex F function F tags F default F context F function F tags F depth F concat F function F index F function F index F function F index F function F index F function F parameter F loweral F parameter F parameter F position F recurses F counct F parameter F position F recurse F classes F loweral F parameter F parameter F position F recursetext F position F recursetext F recursetext F recursetext F recursetext F recurse F recursetext F recurse F recurse F recurse F recurse F recurse F stripped F recurse F recurse F recurse F tags Inclusions F unction F tags Inclusion F tags Inclu	F quit		F att	
F undefined F upper F upper F chainattribute  fillin function F count filter function F default finalizers  F paragraphs F empty  T tex F all F attribute F chainattribute F concat F concex F count F table F ctxtext F fag F default F tag F default F tags F default F tags F depth F texts F function F index F function F index F function F index F function F index F function F param F lower F classes F lowerall F match F param F perevrse F stripped F tag Include F tunction F tag Inclusions F unction F tag Inclusions F unction F tag Inclusions F unction F tags Index Inclusions F unction F tags Inclusion F unction F tags Inclusion F unction F tags Inclusion F unction F u	F tag		F attribute	
F upper fillin function F count filter function F default finalizers table F elements  F paragraphs F empty  T tex F first F all F function F chainattribute F chainattribute F chainattribute F chainattribute F chainpath F command F lowerall F concat F count F count F first F default F count F first F depth F ctxtext F first F	F text		F attributes	
fillin     function     F count       filter     function     F default       finalizers     table     F elements       F paragraphs     F empty       T tex     F empty       T tex     F first       F all     F function       F all     F function       F all     F function       F all     F function       F all     F index       F chainpath     F lowerall       F chainpath     F lowerall       F connat     F match       F concat     F mame       F concat     F position       F concat     F reverse       F count     F table       F context     F reverse       F count     F table       F context     F tags       F default     F tags       F default     F tags       F default     F text       F furt     F text       F furt     F text       F first     F texts       F function     F texts       F lower     F classes       F lower     F classes       F lower     F classes       F match     gethinders     function       F param     gethinders     function	F undefined		F cdata	
filter       function       F default         finalizers       table       F elements         F paragraphs       F empty         T tex       F first         F all       F function         F all       F function         F activibute       F index         F chainattribute       F lowerall         F chainpath       F lowerall         F command       F match         F concat       F name         F concat       F name         F concat       F position         F context       F reverse         F count       F reverse         F count       F table         F context       F tags         F default       F text         F first       F text         F fountion       F text         F first       F texts         F function       F upperall         F lower       F classes         F lower       F classes         F lowerall       F macch       F macch	F upper		F chainattribute	
Finalizers table F elements F paragraphs F empty T tex F all F first F all F function F attribute F last F chainattribute F chainattribute F concat F concat F concat F concat F concex F position F context F count F count F default F default F first F default F first F first F first F function F index F function F last F function F last F function F last F lowerall F tag F default F tag F default F first F text F first F function F index F function F parametc F loweral F parameter F position F parameter F position F recursetext F reverse F position F reverse F position F stripped F reverse F tag F tag F reverse F loweral F parameter F position F parameter F position F recursetext F reverse F reverse F lowerous function F parameter F position F frecursetext F reverse F reverse F reverse F lowection F tag F inclusion F unction F tag F tags F inclusion F unction F tags F tags F unction F unction F tags F unction F tags F unction F unction F unction F unction F tags F unction F tags F unction	fillin	function	F count	
F paragraphs  T tex F all F all F first F all F first F all F first F index F chainattribute F chainattribute F chainattribute F command F match F concat F name F concat F name F concat F reverse F count F table F ctxtext F tag F default F first F texts F function F index F first F function F last F lowerall F lower F param F parameter F position F recursetext F recursetext F recursetext F rests F recursetext F rests F recursetext F rests F recursetext F rests F rest function F stripped F tags I naclusion F tag I naclusion F function F tag I naclusion F function F tags I naclusion F function I naclusion F function I naclusion F function I naclusion I function I naclusion I function I naclusion I naclusion I function I naclusion	filter	function	F default	
Fall First Findex Fattribute Findex F chainattribute Flowerall F command Fnanch F concat Finame F concat Finame F concat Finame F concat Finame F context Finame F count Findex F tag F default Findex F first Findex F first Findex F function Function F last Found function F lowerall Finame F concat Finame F context Finame F context Finame F reverse F count Finde Findex F tag F default Findex F first Findex F function Function F last Found function F last Found function F last Found Findex F classes F lowerall Findex F reverse F lowerall Findex F reverse F lowerall Findex Findex F reverse F stripped include function F stripped inclusion function F tag inclusion function F tag inclusion function F tag inclusion function F tags function F function F function F function F function F function F tags function F functi	finalizers	table	F elements	
Fall Findex First Findex Finde	F paragraphs		F empty	
F attribute F chainattribute F chainpath F chainpath F command F concat F concat F concat F concat F concat F count F count F count F ctxext F default F default F first F first F first F function F last F found F lower F lower F lower F lower F lower F mame F reverse F count F table F ctxext F first F text F first F function F last F unction F lettered F lower F lower F lower F lower F lower F reverse F lowerall F match F match F match F match F match F param F param F position F param F reverse F lowers F reverse F include F reverse F reverse F inclusion F stripped Inclusion F tag Inclusion F tag Inclusion F tags Inclusion F function F function F function F tags Inclusion F function F function F function F tags Inclusion F function F function F function F function F tags Inclusion F function F funct	T tex		F first	
F chainattribute F chainpath F command F match F concat F name F concat F name F context F count F count F count F ctxtext F tag F default F first F first F function F index F function F last F lower F lower F lowerall F lower F param F param F parameter F position F reverse F function F parameter F position F reverse F inclusion F tag F reverse F function F reverse F function F reverse F first F function F last F match F parameter F position F parameter F position F reverse F fireverse F fire	F all		F function	
F chainpath F command F match F concat F name F concat F name F concat F position F context F reverse F count F table F ctxtext F tag F default F tags F depth F text F first F function F index F function F last F lower F lower F lower F lowerall F match F match F match F match F param F param F param F position F param F position F reverse F reverse F reverse F reverse F reverse F reverse F first F reverse F reverse F resursetext F reverse F tags F returnation F rags F tags F rags F rags F reverse F reverse F reverse F reverse F reverse F rags F rags F rags F rags F rags F rags F recursion F rags F rags F recursion F rags F rags F recursion F rags F racing F raci	F attribute		F index	
F command F concat F	F chainattribute		F last	
F concat F concatrange F concext F context F count F table F ctxtext F tag F default F default F first F first F function F upperall F index F last F dound F last F lower F lower F lowerall F match F mame F mame F pethoders F match F param F param F param F param F param F param F pethoder F position F param F reverse F reverse F reverse F tags F tags F tags F tags F first F recursetext F rags F tags F tags F first F recursetext F recursetext F recurse include F tags F tags F tags F tags F tags F tags F table F tags F tags F tags F taction F tags F	F chainpath		F lowerall	
F context F count F count F ctxtext F table F ctxtext F tag F default F default F first F first F function F upperall F index F lower F lower F lowerall F match F mame F mame F param F precursetext F reverse F reverse F reverse F results F recursion F tag F recursion F tag F recursion F tag F tags F tags F tags F mack F recursion F tags	F command		F match	
F context F count F table F ctxtext F tag F default F default F first F first F function F index F findex F last F found F last F lower F lower F lowerall F match F mame F mame F param F param F parameter F position F reverse F reverse F reverse F tag F red F red F recursetext F reverse F reverse F tag F taction F tag F ta	F concat		F name	
F count F ctxtext F ctxtext F default F default F depth F text F first F first F function F index F index F findex F found F last F lower F lower F lowerall F iname F match F mame F param F param F param F parameter F position F reverse F reverse F tags F redsest F reverse F reverse F reverse F resursetext F rags F tags F taction F tags F tags F tags F taction F tags F tags F tags F taction F tags F tags F taction F tags F tags F taction	F concatrange		F position	
F ctxtext F default F default F depth F text F first F first F function F upperall F index F index F found F last F lower F lower F lowerall F iname F match F param F parameter F position F preverse F reverse F reverse F tags F tags F tags F tags F rag F rag F rag F rag F recursetext F resursetext F rag F recursetext F reverse F reverse F rag F racursetext F reverse F reverse F recursetext F reverse F rag	F context		F reverse	
F default F depth F text F first F first F function F upperall F index F findex F found F last F lower F lower F lowerall F match F mame F mame F param F param F perameter F position F reverse F reverse F tag F tag F tag F regurse function F tag F reas F regurse function F tag F resurse function F tag F tag F inclusion F tag F tag F tag F tag F tag F tag F text F text F text F text F tag	F count		F table	
F depth F first F first F function F upperall F index F last F found F lettered F lower F lower F lowerall F match F mame F mame F param F param F perameter F position F reverse F reverse F regs F rags F r	F ctxtext		F tag	
F first F function F function F index F index F found F last F lower F lower F lowerall F match F mame F mame F param F param F parameter F position F reverse F reverse F reverse F tags F tags F tags F tags F tags F mack F reds F resursetext F resursetex	F default		F tags	
F function F index F index F index F first F function F last F lound F lettered F lower F classes F lowerall F match F mame F mame F param F param F perameter F position F reverse F reverse F reverse F regurse text F rags F rags F include F include F unction F tags F miclusion F tags F inclusion F tags F unction F tags F miclusion F tags F unction F tags F inclusion F tags F inclusion F tags F unction F tags F unction F tags F unction F tags F unction F tags F inclusion F tags F unction F unction F tags F unction F unction F unction F tags F unction F unct	F depth	F depth F text		
Findex  Flast  found  function  Flettered  functions  Flower  Flower  Flowerall  Finatch  Finame  Fina	F first		F texts	
F last found function F lettered functions table F lower F classes F lowerall F hasclass F match getbuffer function F name gethandlers function F param parameter helpers table F position F recursetext F reverse include function F stripped inclusion function F tag inclusions function F tags index function F text	F function		F upperall	
F lettered F lower F lower F lowerall F match F match F name F param F parameter F position F reverse F reverse F reverse F rags F tags F tags F lowerall F tags F classes F cla	F index		first	function
F lowerall F lowerall F hasclass F match F name F param F param F parameter F reverse F reverse F retyped F tag F rext F tags F tags F classes F hasclass F hasclass F unction F parameter F punction F parameter F recursetext F recursetext F recursetext F recursetext F retyped F tags	F last		found	function
F lowerall F match F match F name F param F param F parameter F position F reverse F reverse F tag F tags F tags F tags F hasclass  F hasclass F function F parameter F tags F name F hasclass F function F tags F name F hasclass F function F tags F name F hasclass F function F tagethandlers F unction F recursetext F reverse F reverse F reverse F include F inclusion F tag F inclusion F tag F inclusions F function F tags F tags F name F hasclass F function F tagethandlers F unction F tagethandlers F unction F tagethandlers F unction F tagethandlers F unction F tagethandlers F name F tagethandlers F unction F unction F tagethandlers F unction F unction F tagethandlers F unction F unct	F lettered		functions	table
F match F name  F name  F param  F param  F param  F parameter  F position  F reverse  F reverse  F stripped  F tag  F tags  F text  F text  F text  F text  F match  gethandlers  function  function  F tage  function	F lower		F classes	
F name gethandlers function F param gethandlersfunction function F parameter helpers table F position F recursetext F reverse include function F stripped inclusion function F tag inclusions function F tags index function F text inheritattributes function	F lowerall			
F param  F parameter  F position  F reverse  F reverse  F tag  inclusion  F tag  inclusions  f unction	F match			
F parameter helpers table F position F recursetext F reverse include function F stripped inclusion function F tag inclusions function F tags index function F text inheritattributes function	F name			function
F position F recursetext  F reverse include function F stripped inclusion function F tag inclusions function F tags index function F text inheritattributes function	F param		gethandlersfunction	
F reverse include function F stripped inclusion function F tag inclusions function F tags index function F text inheritattributes function	F parameter		helpers	table
F stripped inclusion function F tag inclusions function F tags index function F text inheritattributes function	F position			
F tag inclusions function F tags index function F text inheritattributes function	F reverse			
F tags index function F text inheritattributes function	F stripped			
F text inheritattributes function	F tag			
	F tags			
F upper inheritedconvert function				
	F upper		inheritedconvert	function

inject	function	process	function
inject element	function	process_attributes	function
inject_element_after	function	process_elements	function
inject element before	function	processattributes	function
injectafter	function	profiled	table
injectbefore	function	pure	function
insert	function	pushmatch	function
insert_element	function	raw	function
insert_element_after	function	registerentity	function
insert element before	function	registerns	function
insertafter	function	reindex	function
insertbefore	function	remap name	function
insertcdata	function	remap namespace	function
insertcomment	function	remap tag	function
inspect	function	remapname	function
is valid	function	remapnamespace	function
_ kind	function	remaptag	function
last	function	rename	function
lastmatch	function	renamespace	function
load	function	reparsedentitylpeg	userdata
lpath	function	replace	function
lpathcached	function	replace_element	<b>function</b>
lpathcalls	function	resetinjectors	function
lshow	function	resolvens	function
makestandalone	function	root	function
match	function	save	function
name	function	selection	function
newhandlers	function	separate	function
nodesettostring	function	serialize	function
originalload	function	serializetotext	function
package	function	setcdata	function
parent	function	setcomment	function
parsedentitylpeg	userdata	sethandlersfunction	function
pihandlers	table	setinjectors	function
F injector		setproperty	function
F tex		settings	function
placeholders	table	specialcodes	table
F unknown_any_entity		S "	
F unknown_dec_entity		S #	
F unknown_hex_entity		S \$	
popmatch	function	S %	
position	function	S &	
privatecodes	table	S '	
privatetoken	function	S <	

S >		tocdata	function
S \		toelement	function
S {		tostring	function
S		totable	function
S }		toxml	function
S ~		tprint	function
specialhandler	table	traverse	function
sprint	function	unescaped	function
string	function	unescapedentitylpeg	userdata
strip	function	unprivatized	function
strip_whitespace	<b>function</b>	unspecialized	function
stripelement	function	wipe	function
stripleadingspaces	function	withelement	function
table	function	withelements	function
text	function	wrap	function
textonly	function	xmlns	table
texttocdata	function		

# xzip (extra lua)

adler32	function	crc32	function
compress	function	decompress	function
compresssize	function	decompresssize	function

#### zip (extra lua)

archives table
closearchive function

openarchive function
registeredfiles table

# zlib (extra lua)

adler32	function	crc32	function
compress	function	decompress	function
compresssize	function	decompresssize	function