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

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

# global (alias: \_G)

CONTEXTLMTXMODE	number	dir	table
FFISUPPORTED	function	dircodes	data table
INITEXMODE	boolean	directives	table
LUAMAJORVERSION	number	document	table
LUAMINORVERSION	number	documentdata	table
LUATEXENGINE	string	dofile	function
LUATEXFORMATID	number	drivers	table
LUATEXFUNCTIONALITY	number	environment	table
LUATEXVERSION	number	error	function
LUAVERSION	number	experiments	table
MP	function	ffi	table
anywhere	function	ffilib	function
arg	table	figures	table
assert	function	file	table
attributes	table	fio	table
backends	table	flate	table
basexx	table	floats	table
bit32	table	flushsimplerule	function
blobs	table	font	table
blockrequire	function	fonts	table
boolean	table	frozen	boolean
buffers	table	functions	table
builders	table	getmetatable	function
caches	table	global	table
callback	table	<pre>grammar_parsed_text_one_nop</pre>	userdata
callbacks	table	<pre>grammar_parsed_text_one_yes</pre>	userdata
catcodes	table	<pre>grammar_parsed_text_two_nop</pre>	userdata
characters	table	<pre>grammar_parsed_text_two_yes</pre>	userdata
checkimage	function	<pre>grammar_unparsed_text_nop</pre>	userdata
chemistry	table	<pre>grammar_unparsed_text_yes</pre>	userdata
collectgarbage	function	graphics	table
commands	table	gregorian_to_jalali	function
containers	table	gzip	table
context	function	images	table
converters	table	inspect	function
coroutine	table	interactions	table
createmask	function	interfaces	table
ctxrunner	table	io	table
data	table	ipairs	function
debug	table	jalali_to_gregorian	function
dimen	function	job	table

lang	table	print	function
languages	table	publications	table
layouts	table	pushorientation	function
lfs	table	rawequal	function
libraries	table	rawget	function
lmx	table	rawlen	function
load	function	rawset	function
loadfile	function	readarray	function
loadstring	function	regimes	table
logs	table	require	function
lpdf	table	required	function
lpeg	table	requireswiglib	function
lua	table	resolvers	table
luatex	table	ruledspace	function
lxml	table	sandbox	table
math	table	scanarray	function
mathematics	table	scanhash	function
md5	table	scripts	table
metapost	table	select	function
mime	table	set	table
moduledata	table	setinspector	function
modules	table	setmetatable	function
mp	function	sha2	table
mplib	table	shipbox_ref_h	number
next	function	shipbox_ref_v	number
noads	table	sio	table
node	table	socket	table
nodes	table	sorters	table
number	table	statistics	table
objects	table	status	table
optionalrequire	function	storage	table
0S	table	streams	table
package	table	string	table
pagebuilders	table	structures	table
pairs	function	swiglib	function
parametersets	table	table	table
pcall	function	tex	table
pdf	table	texconditionals	data table
pdfdecode	table	texconfig	table
pdfe	table	texconstants	data table
pdfscanner	table	texifs	data table
physics	table	texio	table
pngdecode	table	texisdefined	data table
poporientation	function	texmodes	data table

texsystemmodes
thirddata
toboolean
token
tokens
tonumber
tostring
tracers
trackers
type
typesetters
unpack
updaters
url

data table
table
function
table
table
function
function
table
table
function
table
table
function
table

userdata
utf
utf8
utilities
v
visualizers
warn
xcomplex
xmath
xml
xpcall
zip
zlib

table
table
table
string
table
function
table
table
table
table
table

#### attributes (context)

applyoverloads	function	N	main	
colorintents	table		main	
	table		model	
N attribute			models	
D data			mpcolor	
F enable			mpnamedcolor 	
F handler			mpoptions	
F register			namedcolorattr	'ibutes
D registered	table		none .	
colors	table		popset	
N attribute			processcolorco	omponents
F cmyk			pushset	
F cmyktogray			register	
F cmyktorgb			registered	
F colorcomponent	S		registerspotco	olor
D counts			rgb	
B couple			rgbtocmyk	
F currentmodel			rgbtogray	
F currentnamedmo	del		rgbtohsv	
D data			selector	
N default			setlist	
F defineintermed			setmodel	
F definemultiton			setpagecolormo	odel
F defineprocessc			sets	
F definesimplegr	•		spec	
F definespotcolo			spot	
F definetranspar	ency		spotcolorname	
F enable			spotcolorparer	
F filter			spotcolorvalue	2
N forced			supported	
F forcedmodel		·	toattributes	
F forcesupport			transparencyco	omponents
F formatcolor			triggering	
F formatgray			usecolors	
F getpagecolormo	del		valid	
F gray			value	
F graytohsv			values	
F handler			weightgray	
F hsvtogray		defi		function
F hsvtorgb		effe		table
F iccprofile			attribute	
F isblack		D	data	

F enable		N colordodge	
F handler		N darken	
F register		N difference	
D registered		N exclusion	
D values		N hardlight	
handlers	table	N hue	
list	data table	N lighten	
markasoverload	function	N luminosity	
names	data table	N multiply	
negatives	table	N none	
N attribute		N normal	
D data		N overlay	
F enable		N saturation	
F handler		N screen	
F register		N softlight	
D registered		N none	
F set		F register	
numbers	data table	D registered	
ofnode	function	B supported	
private	function	F toattribute	
public	function	B triggering	
restore	function	F value	
save	function	D values	
showcurrent	function	<b>unsetvalue</b> number	
states	table	<b>viewerlayers</b> table	
F disabletrigger	ing	N attribute	
F enabletriggeri	ng	F cleanup	
F finalize		D data	
F initialize		F define	
F process		F definedlayoutcomponent	
F selective		F enable	
F stacked		F forcesupport	
F stacker		F handler	
system	function	B hasorder	
tooverloads	function	D listwise	
transparencies	table	F register	
N attribute		D registered	
D data		F resolve_begin	
F enable		F resolve_end	
F forcesupport		F resolve_reset	
F handler		F resolve_step	
T names		D scopes	
N color		F setfeatures	
N colorburn		F start	

B supported

#### backends (context)

F enabletags

closeout function F exportformdata codeinjections table F fieldsurrounding F boxresourcedimensions F flushmergelayer F registerboxresource F getbookmarks F restoreboxresource F getdefaultfieldvalue current strina F getfieldcategory defaults table F getfieldset T codeiniections F getformatoption F getidentityvariable F getpagedimensions F lmtxmode F getinfo F setpagedimensions F getpreviewfigure T nodeinjections F insertrenderingwindow T registrations F mergebookmarks D tables F mergecomments included table F meraefields B context F mergereferences B date F mergeviewerlayers B id F newimage B metadata F prerollreference B pdf F presetsymbol install function F presetsymbollist latelua function F processrendering nodeiniections table F registerdocumentcloseaction noflatelua function F registerdocumentopenaction nothina function F registeredsymbol function openout F registerpagecloseaction pdf table F registerpageopenaction T codeinjections F registersymbol F addbookmarks F scanimgage F analyzenormalsymbol F setfieldcalculationset F analyzesymbol F setfigurealternative F attachmentid F setfigurecolorspace F bitmap F setfiguremask F clonefield F setformat F copyimage F setformsmethod F definefield F setpagetransition F definefieldset F setupcanvas F defineviewerlayer F setupidentity F embedfile F setxmpfile F embedimage F startlaver

F startunicodetoactualtext

F startunicodetoactualtextdirect F negative F stoplayer F overprint F stopunicodetoactualtext F positive F reference F stopunicodetoactualtextdirect F supportedformats F rgbcolor F unicodetoactualtext F spotcolor F useviewerlaver F startlayer F validfield F startstackedlayer F validfieldcategory F stoplayer F validfieldset F stopstackedlayer F wrapimage F transparency S comment F typesetfield T nodeinjections T registrations F addtags F cmykindexcolor F cmykspotcolor F annotation F attachfile F getspotcolorreference F changestackedlayer F grayindexcolor F cmykcolor F grayspotcolor F comment F rgbindexcolor F destination F rgbspotcolor F effect F spotcolorname F graycolor F transparency F injectbitmap T tables F insertmovie D vfspecials

F insertsound F insertswf

F insertu3d

F knockout

registrations table tables table timestamp function writeout function

#### basexx (context)

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)

checksidefloat	function	F start	
kernel	table	F stop	
F cleanup		F tag	
F hyphenating		profiling	table
F hyphenation		F add	
F kerning		F distance	
F ligaturing		F fixedprofile	
F mlist_to_hlist		F get	
paragraphs	table	F list	
T constructors		F pagehandler	
N attribute		F profilebox	
F define		F set	
F disable		vspacing	table
F enable		F analyze	
F handler		D categories	
T methods		F collapsevbox	
F basic		T data	
F default		D map	
F hpack		D skip	
F oneline	F oneline D snapmethods		
D names		F definesnapmetho	d
D numbers		B fixed	
F set		F forcepageflush	
F start		F forcestrutdepth	
F stop		F getnofpreviousl	ines
T expansion		F pagehandler	
F trace		F pageoverflow	
F keeptogether		F popatsame	
F registertogeth	er	F pushatsame	
T solutions		F setmap	
T splitters		F setskip	
F define		F snapbox	
F optimize		F synchronizepage	
T registered		F tocategories	
F reset		F tocategory	
F set		F vboxhandler	
F split			

#### caches (context)

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

#### callback (basic tex)

find function
list function

register overloaded function

#### callbacks (context)

freeze function
functions table

F process\_rule

F start\_page\_number

F stop\_page\_number

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

B append\_to\_vlist\_filter

B build page insert

B buildpage\_filter

B contribute filter

B define\_font

supported table

B find data file

B find\_format\_file

B find log file

B handle\_error\_hook

B hpack\_filter

B hpack\_quality

B hyphenate

B insert\_local\_par

B kerning

B ligaturing

B linebreak filter

B make extensible

B mlist to hlist

B new graf

B open data file

B post linebreak filter

B pre dump

B pre linebreak filter

B pre\_output\_filter

B process\_jobname

B read\_data\_file

B show error hook

B show error message

B show\_lua\_error\_hook

B show\_warning\_message

B show whatsit

B start file

B start\_run

B stop\_file

B stop\_run

B terminal input

B vpack filter

B vpack quality

B wrapup run

#### catcodes (context)

 register function

#### characters (context)

activeoffset	number	T anudatta	
adobename	function	T before_half	
bidi	data table	T before_main	
blockrange	function	T before_postscript	
blocks	data table	T before_subscript	
casemap	table	T below_mark	
categories	data table	T consonant	
category	function	T dependent_vowel	
categorytags	data table	T halant	
classifiers	table	T independent_vowel	
collapsed	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_letter	data table
F known		is_mark	data table
F resolve		is_punctuation	data table
emojized	function	is_spacing	data table
enccodes	data table	is_symbol	data table
entities	data table	lcchars	data table
fallbacks	data table	lccode	function
filters	data table	lccodes	data table
fractions	table	lettered	function
fromnumber	function	lhash	data table
fschars	data table	linebreaks	data table
fscodes	data table	lower	function
getrange	function	mathlists	data table
graphemes	data table	mirrors	table
hangul	data table	otfscripts	data table
indicgroups	table	private	table
T above_mark		ranges	data table
T after_half		registerentities	function
T after_main		remap_hangul_syllabe	function
T after_postscript		setactivecatcodes	function
T after_subscript		setlettercatcodes	function

shape function shaped function shash data table data table shchars shcodes data table function showstring **specialchars** data table specials data table splits table

T char T compat

subscripts superscripts synonyms tex

table table data table table

D accentmapping D commandmapping F defineaccents F safechar

F toutf

upper

F toutfpattern textclasses tonumber ucchars uccode uccodes uhash unicodechar

table function data table function data table data table function function

#### chemistry (context)

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

molecule
moleculeparser
start
stop
structures
undefine
function
function
number
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	helpers	table
Alphabetic	function	hexstringtonumber	function
Alphabetic:es	function	hour	function
Alphabetic:ru	function	i	function
Alphabetic:sl	function	isleapyear	function
Character	function	lchexnumber	function
Characters	function	lchexnumbers	function
I	function	leapyear	function
KA	function	lower	function
KR	function	max	function
R	function	maxchrs	function
RK	function	minute	function
Romannumerals	function	month	function
Russiannumerals	function	nicenumber	function
Sloveniannumerals	function	nofdays	function
Spanishnumerals	function	number	function
Word	function	numbers	function
Words	function	octnumber	function
a	function	octstringtonumber	function
a:es	function	ordinal	function
a:ru	function	r	function
a:sl	function	rawcharacter	function
abjadnodotnumerals	function	romannumerals	function
abjadnumerals	function	russiannumerals	function
alphabetic	function	second	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	toroman	function
chrs	function	totime	function
cn	function	uchexnumber	function
cn-a	function	uchexnumbers	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

## dir (context)

collectpattern	function
current	function
expandname	function
found	function
glob	function
globdirs	function
alobfiles	function

globpattern	function
ls	function
makedirs	function
mkdirs	function
pop	function
push	function

#### directives (context)

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

#### document (context)

arguments files **functions** getargument getfilename options

data table table table function function table

D modes D modules

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 convert	
converters	table	F finalize	
F engine		F initialize	
F lmtx		F outputfilename	
enable	function	F prepare	
gethpos	function	F wrapup	
getpos	function	T flushers	
getvpos	function	F character	
helpers	table	F rule	
F tomatrix		F updatefontstate	
install	function	S name	
instances	table	T lua	
T default		T actions	
T actions		F cleanup	
F convert		F convert	
F outputfilen	ame	F finalize	
T flushers		F initialize	
S name		F outputfilename	
T empty		F prepare	
T actions		F wrapup	
F convert		T flushers	
F prepare		F character	
T flushers F ru		F rule	
S name		F updatefontstate	
T js		S name	
T actions		T mps	
F cleanup		T actions	
F convert		F cleanup	
F finalize		F convert	
F initialize		F finalize	
F outputfilen	ame	F initialize	
F prepare		F outputfilename	
F wrapup		F prepare	
T flushers		F wrapup	
F character		T flushers	
F rule		F character	
F updatefonts	tate	F rule	
S name		F simplerule	
T json		F updatefontstate	
T actions		S name	
F cleanup		T none	

T actions F image T flushers F literal S name F poporientation T pdf F pushorientation T actions F restore F cleanup F rule F convert F save F finalize F setmatrix F initialize F simplerule F outputfilename F updatefontstate

F prepare
F wrapup
T flushers
F character

S name

## 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	originalarguments	data table
filename	string	outputfilename	string
filenames	table	ownbin	string
files	table	ownmain	string
filesynonyms	data table	ownname	string
forcedruns	number	ownpath	string
getargument	function	prerollrun	boolean
homedir	string	rawarguments	data table
initex	boolean	reconstructcommandline	function
initexmode	boolean	relativepath	function
initializearguments	function	setargument	function
initializefilenames	function	splitarguments	function
inputfilebarename	string	suffix	string
inputfilename	string	texfile	function
inputfilesuffix	string	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	
enable	function	
list	function	
name	string	

register function report function reset function show function value function

#### figures (context)

T sizes

B art

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

setmemstream

function

setorder

# 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
read2dot14	function
readbytes	function
readbytetable	function
readcardinal1	function
readcardinal1le	function
readcardinal2	function
readcardinal2le	function
readcardinal3	function
readcardinal3le	function
readcardinal4	function
readcardinal4le	function
readcardinaltable	function
readfixed2	function
readfixed4	function
readinteger1	function
readinteger1le	function
readinteger2	function

readinteger2le	function
readinteger3	function
readinteger3le	function
readinteger4	function
readinteger4le	function
readintegertable	function
readline	function
setposition	function
skipposition	function
writecardinal1	function
writecardinal1le	function
writecardinal2	function
writecardinal2le	function
writecardinal3	function
writecardinal3le	function
writecardinal4	function
writecardinal4le	function

# flate (context)

flate_compress	function	update_adler32	function
flate_decompress	function	update_crc32	function
gz_compress	function	zip_compress	function
gz_decompress	function	zip_decompress	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)

addcharacte	<b>rs</b> function	id	function
current	function	max	function
define	function	nextid	function
each	function	setfont	function
aetfont	function		

# fonts (context)

<b>analyzers</b> table	F collectprocessors
D features	F currentfonthasfeature
D initializers	D designsizes
D methods	D dontembed
F setstate	F enhanceparameters
D states	T enhancers
B useunicodemarks	T afm
<b>checkers</b> table	F apply
F getmissing	F patch
F missing	T patches
F placeholder	F register
<b>cid</b> table	F report
F getmap	F register
F loadfile	F report
collections table	T otf
F checkenabled	F addfeature
F clonevector	F apply
F define	F enhance
T definitions	F patch
F found	T patches
F prepare	F register
F process	F report
F registermain	F register
F report	F report
F reset	T tfm
T vectors	F apply
<pre>constructors table</pre>	F patch
F addcharacters	T patches
F addcoreunicodes	F register
B addtounicode	F report
F aftercopyingcharacters	F register
F applymanipulators	F report
F assignmathparameters	N factor
B autocleanup	T features
F beforecopyingcharacters	D afm
D cache	D otf
B cacheintex	D tfm
F calculatescale	F finalize
F checkedfeatures	F getfeatureaction
F checkedfilename	F getmathparameter
F cleanuptable	F getprivate

T handlers	F featuresprocessor
T afm	F getactualtext
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 pdfcache
F dataset	F plugininitializer
F datasetpositionprocessor	F pluginprocessor
S defaultbasealternate	T plugins
S defaultnodealternate	T png
D features	F topdf
F featuresinitializer	D pngcache

B pngenabled	F reversechainedcontextsingle
T readers	F single
F addunicodetable	Fgvar
Favar	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
Fcolr	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 readbytetable	F writeinteger2
F readcardinal	F writeinteger2le
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	F storepdfdata
F readtag	T svg
F setposition	F filterglyph
F size	F topdf
F skip	D svgcache
F skiplong	B svgenabled
F skipposition	T tables
F skipshort	D baselines
F writebyte	D features
F writecardinal1	D featuretypes
F writecardinal1le	D languages
F writecardinal2	D scripts
F writecardinal2le	N version
F writecardinal3	T pfb
F writecardinal3le	F loadvector
F writecardinal4	T tfm
F writecardinal4le	D cache
F writeintegerl	D features
F writeinteger1le	N maxnestingdepth

N maxnestingsize	T protrusion
T readers	S auto
F loadpk	
F loadtfm	S quad
	S scaledpoints
Floadtfmvf	S scriptpercentage
Floadvf	S scriptscriptpercentage
F pktopdf	S size
F showpk	S slantfactor
F reencode	S slantperpoint
F setfeatures	T spacing
N version	S extra
T vf	S shrink
T combinations	S stretch
F combine	S width
T combiner	S units
D commands	S vfactor
D helpers	S width
D math	S xheight
D predefined	T properties
N version	S autoitalicamount
D whatever	S cidinfo
F hashfeatures	T effect
F hashinstance	S ddelta
T hashmethods	S effect
F normal	S factor
F virtual	S hdelta
F initializefeatures	S hfactor
T keys	S vfactor
T characters	S wdelta
T descriptions	S width
T parameters	S embedding
S ascender	S encodingbytes
S descender	S filename
S designsize	S finalized
T expansion	S fontname
S auto	S format
S shrink	S fullname
S step	S hasitalics
S stretch	S hasmath
S extendfactor	S mathitalics
S factor	S mode
S hfactor	S name
S mathsize	S nostackmath
S mode	S psname

S textitalics		F registersplit	
S virtualized		F resetnullfont	
D loadedfonts		F resolve	
S namemode		T resolvers	
N noffontsloaded		F file	
N nofsharedfonts		F name	
N nofsharedhashes		F spec	
N nofsharedvector	s	definetypeface	function
N privateoffset		encodings	table
D privateslots		T agl	
F readanddefine		D ctxcodes	
F registerfeature		D extras	
F resetfeature		D names	
B resolvevirtualt	00	D synonyms	
F scale		D unicodes	
F scaled		D cache	
F setfactor		F is_known	
F setfeature		D known	
F setmathparamete	r	F load	
F setname		F make_unicode_ve	ctor
B sharefonts		D math	
F trytosharefont		N version	
N version		enhanceid	function
N version current	function	enhanceid expansions	function data table
	function function		
current		expansions	data table
current currentid	function	expansions formats	data table data table
current currentid definers	function	expansions formats getalternate	data table data table function function function
current currentid definers F addlookup	function table	expansions formats getalternate getkern	data table data table function function
current currentid definers F addlookup F analyze	function table	expansions formats getalternate getkern getmultiple	data table data table function function function
current currentid definers F addlookup F analyze F applypostproces	function table	expansions formats getalternate getkern getmultiple getsubstitution	data table data table function function function
current currentid definers  F addlookup F analyze F applypostproces F checkedmode	function table	expansions formats getalternate getkern getmultiple getsubstitution getters	data table data table function function function
current currentid definers  F addlookup F analyze F applypostproces F checkedmode F checkedscript	function table	expansions formats getalternate getkern getmultiple getsubstitution getters T alternate	data table data table function function function
current currentid definers F addlookup F analyze F applypostproces F checkedmode F checkedscript F current	function table	expansions formats getalternate getkern getmultiple getsubstitution getters  T alternate F opentype	data table data table function function function
current currentid definers  F addlookup F analyze F applypostproces F checkedmode F checkedscript F current S defaultlookup	function table	expansions formats getalternate getkern getmultiple getsubstitution getters  T alternate F opentype T kern	data table data table function function function
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current currentid definers  F addlookup F analyze F applypostproces F checkedmode F checkedscript F current S defaultlookup F define F getspecification	function table	expansions formats getalternate getkern getmultiple getsubstitution getters  T alternate F opentype T kern F opentype F type1	data table data table function function function
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current currentid definers  F addlookup F analyze F applypostproces F checkedmode F checkedscript F current S defaultlookup F define F getspecification F internal F loadfont F makespecification T methods F install	function table sors	expansions formats getalternate getkern getmultiple getsubstitution getters  T alternate F opentype T kern F opentype F type1 F type3 T multiple F opentype T substitution F opentype	data table data table function function function tunction table
current currentid definers  F addlookup F analyze F applypostproces F checkedmode F checkedscript F current S defaultlookup F define F getspecification F internal F loadfont F makespecification T methods F install D variants	function table sors	expansions formats getalternate getkern getmultiple getsubstitution getters  T alternate F opentype T kern F opentype F type1 F type3 T multiple F opentype T substitution F opentype Goodies	data table data table function function function tunction table

S author		D emwidths	
S comment		D exheights	
S copyright		D extensibles	
B initialized		D features	
T mathematics		D identifiers	
T alternates		D italics	
T dotless		D lastmathids	
S comment	•	D marks	
S feature	2	D mathparameters	
N value		D modes	
T kerns		D originals	
S name		D parameters	
S version		T processes	
T schola-math		D properties	
S author		D quads	
S comment		D resources	
S copyright		T setdynamics	
B initialized		T shapes	
T mathematics		D spaces	
T alternates		D spacings	
T dotless		T streams	
S comment		D unicodes	
S feature	2	D variants	
S feature N value	2	D variants D xheights	
	2		
N value	9	D xheights	
N value T kerns	3	D xheights <b>helpers</b> table	
N value T kerns S name	<b>.</b>	D xheights <b>helpers</b> table F addextraprivate	
N value T kerns S name S version	3	D xheights <b>helpers</b> table  F addextraprivate  F addprivate	
N value T kerns S name S version D designsizes		D xheights  helpers table  F addextraprivate  F addprivate  F appendcommands	
N value T kerns S name S version D designsizes D filenames		D xheights helpers table F addextraprivate F addprivate F appendcommands F appendcommandtable	
N value T kerns S name S version D designsizes D filenames F getcompositions		D xheights helpers table F addextraprivate F addprivate F appendcommands F appendcommandtable F checkflags	
N value T kerns S name S version D designsizes D filenames F getcompositions T list		D xheights helpers table F addextraprivate F addprivate F appendcommands F appendcommandtable F checkflags F checkmerge	
N value T kerns S name S version D designsizes D filenames F getcompositions T list F load		D xheights  helpers table  F addextraprivate  F addprivate  F appendcommands  F appendcommandtable  F checkflags  F checkmerge  F checksteps	
N value T kerns S name S version D designsizes D filenames F getcompositions T list F load F prepare_feature	s	D xheights  helpers table  F addextraprivate  F addprivate  F appendcommands  F appendcommandtable  F checkflags  F checkmerge  F checksteps  F collectanchors	
N value T kerns S name S version D designsizes D filenames F getcompositions T list F load F prepare_feature F register	s	D xheights helpers table  F addextraprivate  F addprivate  F appendcommands  F appendcommandtable  F checkflags  F checkmerge  F checksteps  F collectanchors  D commands	
N value T kerns S name S version D designsizes D filenames F getcompositions T list F load F prepare_feature F register F registerpostpro	s	D xheights helpers table  F addextraprivate  F addprivate  F appendcommands  F appendcommandtable  F checkflags  F checkmerge  F checksteps  F collectanchors  D commands  F descriptiontoslot	
N value T kerns S name S version D designsizes D filenames F getcompositions T list F load F prepare_feature F register F registerpostpro F report	s	D xheights helpers table  F addextraprivate  F addprivate  F appendcommands  F appendcommandtable  F checkflags  F checkmerge  F checksteps  F collectanchors  D commands  F descriptiontoslot  F dimenfactor	
N value T kerns S name S version D designsizes D filenames F getcompositions T list F load F prepare_feature F register F registerpostpro F report T suffixes	s cessor	D xheights helpers table  F addextraprivate  F addprivate  F appendcommands  F appendcommandtable  F checkflags  F checkmerge  F checksteps  F collectanchors  D commands  F descriptiontoslot  F dimenfactor  F expandglyph	
N value T kerns S name S version D designsizes D filenames F getcompositions T list F load F prepare_feature F register F registerpostpro F report T suffixes handlers	s cessor table	D xheights  helpers table  F addextraprivate  F addprivate  F appendcommands  F appendcommandtable  F checkflags  F checkmerge  F checksteps  F collectanchors  D commands  F descriptiontoslot  F dimenfactor  F expandglyph  T extraprivates	
N value T kerns S name S version D designsizes D filenames F getcompositions T list F load F prepare_feature F register F register F registerpostpro F report T suffixes handlers hashes	s cessor table	D xheights  helpers table  F addextraprivate  F addprivate  F appendcommands  F appendcommandtable  F checkflags  F checksteps  F collectanchors  D commands  F descriptiontoslot  F dimenfactor  F expandglyph  T extraprivates  F fontpatternhassize	
N value T kerns S name S version D designsizes D filenames F getcompositions T list F load F prepare_feature F register F register F registerpostpro F report T suffixes handlers hashes D characters	s cessor table	D xheights  helpers table  F addextraprivate  F addprivate  F appendcommands  F appendcommandtable  F checkflags  F checkmerge  F checksteps  F collectanchors  D commands  F descriptiontoslot  F dimenfactor  F expandglyph  T extraprivates  F fontpatternhassize  F getcoloredglyphs	
N value T kerns S name S version D designsizes D filenames F getcompositions T list F load F prepare_feature F register F registerpostpro F report T suffixes handlers hashes D characters D classes	s cessor table	D xheights  helpers table  F addextraprivate  F addprivate  F appendcommands  F appendcommandtable  F checkflags  F checkmerge  F checksteps  F collectanchors  D commands  F descriptiontoslot  F dimenfactor  F expandglyph  T extraprivates  F fontpatternhassize  F getcoloredglyphs  F getdigitwidth	
N value T kerns S name S version D designsizes D filenames F getcompositions T list F load F prepare_feature F register F register F registerpostpro F report T suffixes handlers hashes D characters D classes D csnames	s cessor table	D xheights  helpers table  F addextraprivate  F addprivate  F appendcommands  F appendcommandtable  F checkflags  F checkmerge  F checksteps  F collectanchors  D commands  F descriptiontoslot  F dimenfactor  F expandglyph  T extraprivates  F fontpatternhassize  F getcoloredglyphs  F getdigitwidth  F getinstancespec	

F getprivatenode		F paths	
F getprivates		F widthline	
F getprivateslot		F zeroline	
F hasprivate		mp	table
F indextoslot		D cache	
F name		B inline	
F nametoslot		N version	
F prependcommand	S	names	data table
F prependcommand	table	nulldata	data table
F privateslot		privateoffsets	table
F setdigitwidth		B keepnames	
F splitfontpatte	rn	N mathbase	
F tochar		N mathextrabase	
infofont	function	N textbase	
iterators	table	N textextrabase	
F characters		protrusions	data table
F descriptions		readers	table
F glyphs		F afm	
loggers	table	F check_lua	
F add_placeholde	rs	F check_tfm	
D category_to_pla	aceholder	F lua	
F format		F ofm	
F onetimemessage		F opentype	
F register		F otf	
F reportdefinedfo	onts	F pfb	
F reportusedfeat	ures	D sequence	
mappings	table	F tfm	
F addtounicode		F ttc	
F fromunicode16		F ttf	
F loadfile		F woff	
F loadline		reserveid	function
F makenameparser		select	table
D overloads		D alternatives	
F reset		F bodyfont	
F tounicode		D data	
F tounicode16		F default	
F tounicode16seq	uence	D defaults	
metapost	table	F definefallbackf	amily
F boundingbox		F definefontfamil	У
F boxtomp		F definefontfamil	ypreset
F draw		D extras	
F fill		F fallback	
F maxbounds		D fallbacks	
F output		F features	

F presetcontext	
F registercontext	
F showcontext	
F splitcontext	
D synonyms	
D variants	
<b>symbols</b> tabl	e
T emoji	
F checked	
F resolved	
F uselibrary	
F uselibrary <b>tables</b> tabl	e
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tables tabl D data F savefont	•
tables tabl D data F savefont F saveoriginal	e
tables tabl D data F savefont F saveoriginal tracers tabl	e
tables tabl D data F savefont F saveoriginal tracers tabl treatments tabl	e
tables tabl D data F savefont F saveoriginal tracers tabl treatments tabl F applyfixes	e
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	F registercontext F showcontext F splitcontext D synonyms D variants  symbols tabl T emoji F checked

F mergecontext

typefaces

table

### functions (context)

**dummy** function

# graphics (context)

backgrounds table	F placeholder
F fetchmultipar	F tocontext
F pair	<b>identifiers</b> table
F path	F bitmap
F point	F jp2
<pre>bitmaps table</pre>	F jpg
F flush	F png
F new	<pre>identify function</pre>

# gzip (extra lua)

close	function	open	function
lines	function	save	function
load	function	suffix	function

# images (context)

check	function	B none	
checksize	function	B trim	
сору	function	totable	function
create	function	types	table
embed	function	N jbig2	
keys	table	N jp2	
print	function	N jpg	
scan	function	N memstr	eam
serialize	function	N none	
sizes	table	N pdf	
B art		N png	
B bleed		N stream	
В сгор		wrap	function
B media			

#### interactions (context)

attachments data table D functions fields table D preambles F clone F setpreamble F storecode F define 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)

data table function addvalidkeys cachedsetups function cachesetup checkedspecification function complete constants corenamespaces currentinterface string currentresponse string definecommand function defined function **doifelsemessage** function elements formats getcheckedparameters function function getmessage getnamespace function getsetupstring function hashedsetups function implement interfacedcommand function interfaces table invalidkey function function message namespaces table

F define

data table data table data table data table data table data table data table

F list

registernamespace registerscanner scanners setconstant setcount setdimen setelement setformat setmacro setmessage setmessages settranslation setupstrings setuserinterface setvalidkevs setvariable showmessage storedscanners strings syntax tolist translations usednamespaces variables

writestatus

function function data table function function function function function function function function function data table function function function function data table table data table function data table data table data table

function

### io (basic lua)

ask	function	output	overloaded function
bytes	function	pathseparator	string
characters	function	popen	overloaded function
close	function	read	function
copydata	function	readall	function
exists	function	readnumber	function
fileseparator	string	readstring	function
flush	function	savedata	function
input	overloaded function	size	function
lines	overloaded function	stderr	userdata
loadchunk	function	stdin	userdata
loaddata	function	stdout	userdata
loadlines	function	tmpfile	function
noflines	function	type	function
open	overloaded function	write	function

# job (context)

comment	function	D	tobesaved	
datasets	table	pass	es	table
D collected		F	check	
F extend		D	collected	
F getdata		F	count	
F setdata		F	define	
D tobesaved		F	find	
disablesave	function	F	first	
embedded	table	F	get	
D collected		F	getcollected	
D tobesaved		F	getdata	
fileobjreferences	table	F	getfield	
D collected		F	gettobesaved	
D tobesaved		F	inlist	
files	table	F	last	
D collected		F	list	
F context		F	save	
B forcerun		F	savetagged	
F run		D	tobesaved	
D tobesaved		posi	tions	table
getrandomseed	function	F	b_column	
initialize	function	F	b_region	
load	function	F	С	
loadother	function	D	collected	
objects	table	F	column	
D collected		F	сору	
F get		F	depth	
F number		F	e_column	
F page		F	e_region	
F save		F	enhance	
F set		F	extra	
D tobesaved		Т	free	
pack	boolean	F	get	
packversion	number	F	gethpos	
pagestates	table	F	getpos	
D collected			getreserved	
F countervalue			gettobesaved	
F extend			getvpos	
F realpage			hangafter	
F realpageorder			hangindent	
F setstate		F	height	

F hsize	S used	
F leftskip	F whd	
F lowerleft	F width	
F lowerright	Fx	
F markregionbox	F xy	
Fn	F y	
F onsamepage	prepare	function
F overlapping	register	function
F p	save	function
T page	structure	table
F paragraph	D collected	
F parindent	T components	
F position	T tobesaved	
Fr	T branches	
F region	S name	
F registerhandlers	S type	
F replace	variables	table
F rightskip	D checksums	
F set	D collected	
F setall	F getchecksum	
F setregionbox	F makechecksum	
F setspec	F restore	
F settobesaved	F save	
D tobesaved	F setchecksum	

F upperleft

F upperright

D tobesaved

number

version

# lang (basic tex)

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

# languages (context)

associate	function	E	
associated	data table	F registerpattern	
association	function	F setfeatures installed	function
counters	data table	labels	table
current	function	F define	table
data	data table		
decimals	data table	F split <b>loadable</b>	function
define	function	loadwords	function
explicithyphen	function	logger	table
flatten	function	F report	table
frequencies	table	nofflattened	function
F averagecharwidth	tabte	numbers	data table
F getdata		postexhyphenchar	function
getdata	function	posthyphenchar	function
getnumber	function	preexhyphenchar	function
hjcounts	table	prehyphenchar	function
hyphenate	function	registered	data table
hyphenators	table	replacements	table
T dictionaries		Fadd	
D featuresets		F addlist	
F handler		F handler	
T methods		F set	
F expanded		serializediscretionary	function
B none		setexceptions	function
F original		setsynonym	function
F tex		showdiscretionaries	function
F traditional		unload	function
F popmethod		urls	table
F pushmethod		D characters	
F setmethod		N lefthyphenmin	
F setup		D mapping	
F showhyphenationtrace		B packslashes	
T traditional		N righthyphenmin	
F definefeatures		F setcharacters	
F gettrace		version	number
F hyphenate		visualizediscretionaries	function
F injecthyphens		words	table
F installmethod		F check	
F lasttrace		T data	
F loadpatterns		F disable	
F registerexception		F enable	

T enablers F load B enables T methods F found N threshold

### layouts (context)

status table
 F isleftpage

F leftorrightpageaction

#### lfs (extra lua)

attributes overloaded function chdir overloaded function currentdir function

isfound function
isreadabledir function
isreadablefile function
iswriteabledir function

iswriteablefile function

mkdirs function
readlink function

setexecutable function
symlink function

touch overloaded function

### libraries (context)

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

extratex data table
functions data table
globals data table

### lmx (context)

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

ınıtıalıze	function
inject	function
lmxfile	function

loadedfile	function
make	function
new	function
overloaderror	function
popupfile	function
print	function
pv	function
report	function
reset	function
result	function
set	function
show	function
showdebuginfo	function
showerror	function
stripcss	function
tv	function
type	function
urlescape	function
variable	function
variables	table

- S color-background-blue
- S color-background-body
- S color-background-green
- S color-background-main
- S color-background-purple
- S color-background-yellow
- S title-default

# logs (context)

application	function	setformats	function
categories	function	setformatters	function
direct	function	setlogfile	function
disable	function	setmessenger	function
enable	function	setprocessor	function
exporters	table	setprogram	function
extendbanner	function	settarget	function
finalactions	function	settimedlog	function
flush	function	settranslations	function
help	function	show	function
loggingerrors	function	show_close	function
messenger	function	show_load	function
new	function	show_open	function
newline	function	simple	function
poptarget	function	simpleline	function
pushtarget	function	simplelines	function
registerfinalactions	function	start_page_number	function
report	function	starterrorlogging	function
reportbanner	function	startfilelogging	function
reporter	function	status	function
reporters	table	stop_page_number	function
F banner		stoperrorlogging	function
F export		stopfilelogging	function
F help		subdirect	function
F info		subreport	function
F lines		system	function
F version		texerrormessage	function
reportline	function	writer	function
reportlines	function		

# lpdf (context)

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

N NoView		fromsixteen	function
N NoZoom		getcatalog	function
N Print		getcompression	function
N Printable		getfontname	function
N ReadOnly		getfontobjnumber	function
N ToggleNoView		getinfo	function
N auto		getmetadata	function
N hidden		getpageproperties	function
N printable		getversion	function
T widgets		getxformname	function
N Comb		graycode	function
N CommitOnSelChange		id	function
N DoNotScroll		immediateobj	function
N DoNotSpellCheck		includechar	function
N Edit		includecharlist	function
N FileSelect		includefont	function
N MultiLine		includeimage	function
N NoExport		injectors	table
N NoToggleToOff		F bitmap	
N Password		F jp2	
N PopUp		F jpg	
N PushButton		F png	
N Radio		injectxmpinfo	function
N RadiosInUnison		insertxmpinfo	function
N ReadOnly		layerreference	function
N Required		limited	function
N RichText		linearshade	function
N Sort		literal	function
N file		majorversion	function
N fixed		minorversion	function
N nocheck		nametree	function
N protected		nofpages	function
N readonly		null	function
N required		number	function
N sorted		obj	function
N unavailable		objectcompresslevel	function
flushfonts	function	pagereference	function
flushobject	function	patternstream	function
flushstreamfileobject	function	pdfcolor	function
flushstreamobject	function	pdftimestamp	function
formats	data table	permitdetail	function
frombytes	function	print	function
fromeight	function	procset	function
frompdfdoc	function	protectresources	boolean

rectangle	function	settrailerid	function
reference	function	setversion	function
registerannotation	function	shareobject	function
registerdestination	function	shareobjectreference	function
registerdocumentfinalizer	function	spotcode	function
registerfont	function	stream	function
registerpagefinalizer	function	string	function
registerpattern	function	toeight	function
reserveobject	function	topdfdoc	function
rgbcode	function	tosixteen	function
rotationcm	function	transparency	function
setcompression	function	transparencycode	function
setdates	function	transparencygroups	table
setmapfile	function	B none	
setmapline	function	transparencyvalue	function
setomitcharset	function	unicode	function
setomitcidset	function	usedcharacters	table
setsuppressoptionalinfo	function	verbose	function
settime	function	vfimage	function

# lpeg (basic lua)

В	function	firstofsplit	function
C	function	frontstripper	function
Carg	function	instringchecker	function
Cb	function	is_lpeg	function
Сс	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)

lastbytecode

macros

bytecode table data table bytedata bytedone table collectgarbage function delav function finalize function firstbytecode number function flush flushdelayed function get\_functions table overloaded function getbytecode function **getcurrenttime** function overloaded function **getfunctionstable** getpreciseseconds function getpreciseticks function **getruntime** function getstacktop function getstartupfile function getversion function

number

table

B enabled
F loaded
F required
F reset
F resolvestring
F resolving
F showdefinitions

mask string messages data table newindex function newtable function numbers data table registercode function registeredcodes function registerfinalizer function registername function setbytecode function setexitcode function startupfile string version string

#### luatex (context)

F disable

F enable

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

wrapup

function

# lxml (context)

- 442 - 4	for this a	£1h	£ +
addindex	function	flush	function
all	function	flushlinewise	function
applyfunction	function	flushsetups	function
applyselectors	function	flushspacewise	function
att	function	get_id	function
attribute	function	getid	function
badinclusions	function	getindex	function
chainattribute	function	id	function
checkindex	function	idsplitter	userdata
collected	function	include	function
command	function	inclusion	function
concat	function	inclusions	function
concatrange	function	index	function
content	function	inlineverbatim	function
context	function	installsetup	function
convert	function	last	function
count	function	lastatt	function
delete	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
filter	function	rawroot	function
filterlist	function	rawtex	function
first	function	refatt	function

register	function
registerentity	function
removesetup	function
replace	function
resetcdata	function
resetsetups	function
resolvedentity	function
root	function
save	function
serialize	function
setaction	function
setatt	function
setattribute	function
setcdata	function
${\tt setcommandtonone}$	function
setcommand to text	function
setpar	function
setparam	function
setparameter	function
setsetup	function
snippet	function
sorters	table

F reset F show F sort function splitid startraw function function startunescaped function stopraw function stopunescaped store function strip function stripped function tag function function text tobuffer function tofile function function toparameters toverbatim function verbatim function withindex function xmltexhandler data table

F compare F flush

## math (basic lua)

abs	function
acos	function
asin	function
atan	function
atan2	function
ceil	function
ceiling	function
cos	function
cosd	function
cosh	function
deg	function
div	function
even	function
exp	function
floor	function
fmod	function
huge	number
initialseed	number
ldexp	function
log	function
log10	function
max	function
maxinteger	number

function	
number	
function	
function	
function	
number	
function	
function	
overloaded	function
function	
	number function function function number function function overloaded function

function

ult

## mathematics (context)

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

# md5 (extra lua)

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

#### metapost (context)

checkformat cm codes

function function table

N addto N ampersand

N and

N assignment N atleast N begingroup

N btex N capsule N colon N comma N controls

N curl N cycle N declare N def

N definedmacro N delimiters N endgroup N equals N etex N everyjob N exitif N expandafter

Nif N input N interim N internal N iteration N join

N fi or else

N leftbrace N leftbracket N leftdelimiter

N let

N macrospecial N maketext N message N mode

N ofbinary N outertag N parametertype N plus or minus N primarybinary N primarydef N randomseed N relax N repeat loop N rightbrace N rightbracket N rightdelimiter

N newinternal

N nullary

N numeric

N of

N scantokens N scope N secondarybinary N secondarydef N semicolon N setbounds N shipout N show N skip N slash N special N step N stop N str N string N tag N tension

N runscript

N save

N tertiarydef N thingstoadd N to N unary

N undefinedcs

N tertiarybinary

N until		getparameters	function
N void		getparametersetentry	function
N with		getstatistics	function
N within		gettext	function
N write		graphic	function
colorinitializer	function	graphic_base_pass	function
comment	function	installplugin	function
convert	function	isobject	function
currentmpx	function	lastlog	string
defaultformat	string	load	function
defaultinstance	string	maketext	function
defaultmethod	string	metafun	table
directrun	function	F interpolate	
escaped	function	F topath	
exectime	table	mptopdf	table
extensiondata	data table	F convertmpstopdf	
filterclippath	function	N nofconverted	
flush	function	n	number
flushers	table	nofscriptruns	function
T pdf		nvformat	function
F comment		pdfliterals	function
F flushfigure		pluginactions	function
F startfigure		popformat	function
F stopfigure		popscriptrunner	function
F textfigure		popvariable	function
flushliteral	function	popvariables	function
flushnormalpath	function	preparetextextsdata	function
flushreset	function	presetparameters	function
fonts	table	process	function
F define		processplugins	function
T flusher		processspecial	function
F flushfigure		properties	table
F startfigure		pushformat	function
F stopfigure		pushscriptrunner	function
N instances		pushvariable	function
F process		pushvariables	function
format_number	function	quickanddirty	function
format_string	function	reducetogray	boolean
formatnumber	function	registerscript	function
getclippath	function	reporterror	function
getextensions	function	reset	function
getextradata	function	resetlastlog	function
getjobdata	function	resetplugins	function
getparameter	function	run	function

runscript	function	N boolean
scanparameters	function	N cmykcolor
scripterror	function	N color
scriptindex	function	N dependent
setextensions	function	N independent
setoutercolor	function	N known
settext	function	N numeric
setvariable	function	N pair
showlog	boolean	N path
simple	function	N pen
splitprescript	function	N picture
startgraphic	function	N protodependent
stopgraphic	function	N string
svformat	function	N structured
sxsy	function	N suffixedmacro
tex	table	N tokenlist
F get		N transform
F reset		N unknownboolean
F set		N unknownpath
F setfrombuffer		N unknownpen
texerrors	boolean	N unknownpicture
texexp	function	N unknownstring
theclippath	function	N unsuffixedmacro
theparameter	function	N vacuous
tographic	function	unload

#### mime (extra lua)

b64 function
decode function
decodet table
 F base64
 F quoted-printable

dot function encode function encodet table

F base64

F quoted-printable

eol function
normalize function
qp function

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

F default

F quoted-printable

F text

wrp function

# mp (context)

BackSpace	function	OuterMarginWidth	function
BaseLineSkip	function	OverlayDepth	function
BodyFontSize	function	OverlayHeight	function
BottomDistance	function	OverlayLineWidth	function
BottomHeight	function	OverlayOffset	function
BottomSpace	function	OverlayRegion	function
CurrentColumn	function	OverlayWidth	function
CurrentHeight	function	•	function
CurrentWidth	function	PageDepth	function
CutSpace	function	PageFraction PageNumber	function
EmWidth	function	PageOffset	function
ExHeight	function	PaperBleed	function
FooterDistance	function	PaperHeight	function
FooterHeight	function	PaperWidth	function
HSize	function	PrintPaperHeight	function
HeaderDistance	function	PrintPaperWidth	function
HeaderHeight	function	RealPageNumber	function
InPageBody	function	RightEdgeDistance	function
InnerEdgeDistance	function	RightEdgeWidth	function
InnerEdgeWidth	function	RightMarginDistance	function
InnerMarginDistance	function	RightMarginWidth	function
InnerMarginWidth	function	SpineWidth	function
LastPageNumber	function	StrutDepth	function
LayoutColumnDistance	function	StrutHeight	function
LayoutColumnWidth	function	SubPageNumber	function
LayoutColumns	function	TextHeight	function
LeftEdgeDistance	function	TextWidth	function
LeftEdgeWidth	function	TopDistance	function
LeftMarginDistance	function	TopHeight	function
LeftMarginWidth	function	TopSkip	function
LineHeight	function	TopSpace	function
MakeupHeight	function	VSize	function
MakeupWidth	function	_f_	function
NOfColumns	function	_get_count_	function
NOfPages	function	_get_dimen_	function
NOfSubPages	function	_get_macro_	function
OnOddPage	function	_get_toks_	function
OnRightPage	function	set count	function
OuterEdgeDistance	function	_set_dimen_	function
OuterEdgeWidth	function	set macro	function
OuterMarginDistance	function	_set_toks_	function
-			

aux	table	inhash	function
F boolean		integer	function
F flush		isarray	function
F fprint		isobject	function
F integer		mf_blob_add	function
F number		mf_blob_dimensions	function
F numeric		mf_blob_index	function
F pair		mf_blob_new	function
F pairpoints		mf_blob_raw_content	function
F path		mf_blob_raw_dimensions	function
F pathpoints		mf_blob_raw_reset	function
F points		mf_blob_raw_toutf	function
F print		mf_blob_raw_wipe	function
F quadruple		mf_blob_size	function
F quadruplepoints		mf_blob_width	function
F quoted		mf_default_color_model	function
F size		mf_external_figure	function
F string		mf_finish_saving_data	function
F triplet		mf_formatted_text	function
F tripletpoints		mf_get_outline_text	function
F vprint		mf_graphic_text	function
boolean	function	mf_inject_blob	function
cleaned	function	mf_made_text	function
dataset	function	mf_named_color	function
datasets	function	mf_outline_text	function
F load		mf_save_data	function
dimension	function	mf_script_index	function
disposehash	function	mf_some_text	function
flush	function	mf_start_saving_data	function
format	function	mf_stop_saving_data	function
formatted	function	mf_tb_dimensions	function
fprint	function	mf_tt_dimensions	function
fromhash	function	mf_tt_initialize	function
get	table	mode	function
F boolean		n 	function
F number		newhash	function
F numeric		number	function
F path		numeric	function
F string		pair 	function
getcount	function	pairpoints	function
getdimen	function function	path	function
getmacro		pathpoints	function
gettoks	function	points	function
graphformat	function	positionanchor	function

positionbox	function	F path	
positioncurve	function	F string	
positionpage	function	F symbol	
positionpath	function	F token	
positionpxy	function	F transform	
positionregion	function	set	table
positionwhd	function	F path	
positionxy	function	setcount	function
prefix	function	setdimen	function
print	function	setmacro	function
processingmode	function	settoks	function
quadruple	function	size	function
quadruplepoints	function	string	function
quoted	function	systemmode	function
report	function	texstr	function
scan	table	textextanchor	function
F boolean		texvar	function
F cmykcolor		tohash	function
F color		triplet	function
F expression		tripletpoints	function
F next		utflen	function
F number		utfsub	function
F numeric		vprint	function

F pair

# mplib (extra tex)

codes	function	scan_cmykcolor	function
execute	function	scan_color	function
fields	function	scan_expression	function
finder	function	scan_next	function
finders	table	scan_number	function
F file		scan_numeric	function
F mpstemplate		scan_pair	function
finish	function	scan_path	function
get_boolean	function	scan_string	function
get_number	function	scan_symbol	function
get_numeric	function	scan_token	function
get_path	function	scan_transform	function
get_string	function	solve_path	function
new	overloaded function	statistics	function
pen_info	function	types	function
scan boolean	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		proc	ess	function
F families		proc	essnested	function
F fixscripts		proc	essors	table
F italics		F	mlist_to_hlis	t
F kernpairs		Т	unscript	
F makeup		Т	unstack	
F relocate		proc	essouter	function

#### node (basic tex)

F getfam

F getfield

check discretionaries function F getfont check discretionary function F getglue copy function F getglyphdata copy list function F aetheiaht function count F getid function current attr F getkern dimensions function F getlang direct table F getleader F check discretionaries F getlist F check discretionary F getnext F copy F getnucleus F copy\_list F getoffsets F copy only F getorientation F count F getpenalty F current attr F getpost F dimensions F getpre F effective glue F getprev F end of math F getproperty F find attribute F getreplace F find attribute range F getshift F first glyph F getsub F flatten discretionaries F getsubtype F flush components F getsup F getwhd F flush list F flush node F getwidth F free F has attribute F has dimensions F get attribute F has field F get properties table F get\_synctex\_fields F has glyph F getattributelist F hpack F getboth F hyphenating F insert after F getbox F getchar F insert before F getcomponents F is char F getdata F is direct F getdepth F is glyph F getdirection F is node F getdisc F is valid F getexpansion F is zero glue

F kerning

F last node

F length	F setshift	
F ligaturing	F setsplit	
F mlist_to_hlist	F setsub	
F naturalwidth	F setsubtype	
F new	F setsup	
F prepend_prevdepth	F setwhd	
F protect_glyph	F setwidth	
F protect_glyphs	F slide	
F protrusion_skippable	F tail	
F rangedimensions	F todirect	
F remove	F tonode	
F set_attribute	F tostring	
F set_synctex_fields	F traverse	
F setattributelist	F traverse_char	
F setboth	F traverse_glyph	
F setbox	F traverse_id	
F setchar	F traverse_list	
F setcomponents	F unprotect_glyph	
F setdata	F unprotect_glyphs	
F setdepth	F unset_attribute	
F setdirection	F usedlist	
F setdisc	F uses_font	
F setexpansion	F vpack	
F setfam	F write	
F setfield	effective_glue	function
F setfont	end_of_math	function
F setglue	family_font	function
F setglyphdata	fields	function
F setheight	find_attribute	function
F setkern	first_glyph	function
F setlang	fix_node_lists	function
F setleader	flatten_discretionaries	function
F setlink	flush_list	function
F setlist	flush_node	function
F setnext	free	function
F setnucleus	get_attribute	function
F setoffsets	get_properties_table	function
F setorientation	getfield	function
F setpenalty	getglue	function
F setpost	getproperty	function
F setpre	has_attribute	function
F setprev	has_field	function
F setproperty	has_glyph	function
F setreplace	hpack	function

humbonotina	function	cotaluo	function
hyphenating		setglue	
id	function	setproperty	function
insert_after	function	slide	function
insert_before	function	subtypes	function
is_node	function	tail	function
is_zero_glue	function	tostring	function
kerning	function	traverse	function
last_node	function	traverse_char	function
length	function	traverse_glyph	function
ligaturing	function	traverse_id	function
make_extensible	function	traverse_list	function
mlist_to_hlist	function	type	function
new	function	types	function
prepend_prevdepth	function	unprotect_glyph	function
protect_glyph	function	unprotect_glyphs	function
protect_glyphs	function	unset_attribute	function
protrusion_skippable	function	usedlist	function
rangedimensions	function	uses_font	function
remove	function	values	function
set_attribute	function	vpack	function
setfield	function	write	function

## nodes (context)

accentcodes	data table	effective glue	function
aligned	function	end of math	function
append	function	fencecodes	data table
apply	function	fields	function
applyvisuals	function	fillcodes	data table
astable	function	find_attribute	function
basepoints	function	first_glyph	function
boundarycodes	data table	firstcharacter	function
boxes	table	firstcharinbox	function
F dimensions		firstdirinbox	function
F direct		firstglyph	function
F found		flatten_discretionaries	function
F reset		flush	function
F restore		flush_list	function
F save		flush_node	function
builders	table	free	function
F buildpage_filter		fullhpack	function
F vpack_filter		getattr	function
<pre>check_discretionaries</pre>	function	getattribute	function
codes	data table	getboth	function
concat	function	getbox	function
сору	function	getchar	function
copy_list	function	getfield	function
copy_node	function	getfont	function
count	function	getglue	function
countall	function	getid	function
current_attr	function	getleader	function
delete	function	getlist	function
destinations	table	getnext	function
N attribute		getprev	function
T done		getsubtype	function
F handler		gluecodes	data table
T stack		gluevalues	data table
dimensionfields	data table	glyphcodes	data table
dimensions	function	handlers	table
dircodes	data table	F accessibility	
directioncodes	data table	F backgrounds	
directionvalues	data table	F backgroundspage	
dirvalues	data table	F backgroundsvbox	
disccodes	data table	F characters	
discretionarycodes	data table	F checkforleaks	

F checkglyphs		is_display_math	function
F checkparcounter		is node	function
F cleanupbox		is_nut	function
F cleanuppage		is_zero_glue	function
F export		kerncodes	data table
F finalizebox		kerning	function
F flatten		keys	table
F flattenline		T whatsit	
F migrate		last_node	function
F protectglyphs		leadercodes	data table
F stripping		leftmarginwidth	function
F textbackgrounds		length	function
F unprotectglyphs		ligaturing	function
has_attribute	function	linefillers	table
has_field	function	D data	
has_glyph	function	F define	
hpack	function	F enable	
hyphenating	function	F filler	
idsandsubtypes	function	F handler	
idstostring	function	lines	table
ignorablefields	data table	T boxed	
injections	table	F register	
F copy		F setup	
F getligaindex		F stage_one	
F getthreshold		F stage_two	
F handler		D data	
F installgetspaceboth		F finalize	
F installnewkern		F number	
F isspace		N scratchbox	
F keepcounts		link	function
F reset		linked	function
F resetcounts		list	function
F setcursive		listablefields	data table
F setkern		listcodes	data table
F setligaindex		listtoutf	function
F setmark		literalvalues	data table
F setmove		load	function
F setposition		locate	function
F setspacekerns		margincodes	data table
insert_after	function	marginkerncodes	data table
insert_before	function	markers	table
<pre>insert_list_after</pre>	function	F get	
installattributehandler		mathcodes	data table
is_direct	function	maxboxwidth	function

mlist to hlist function F flush list new function F flush node noadcodes data table F free table noadoptions F fullhpack N axis F get synctex fields N exact F getattr N left F getattribute N middle F getattributelist N no axis F getattrlist N right F getboth N set F getbox N unused 1 F getboxglue N unused 2 F getchar nodecodes data table F getcomponents nopts function F getdata table nuts F getdepth F append F getdirection F getdisc F apply F applyvisuals F getdiscretionary F check discretionaries F getexpansion F concat F getfam F copy F getfield F copy list F getfont F getglue F copy no components F copy node F getglyphdata F copy\_only F getheight F getid F copy only glyphs F copy properties F getkern F copyvisual F getlang F count F getlanguage F countall F getleader F current\_attr F getlist F delete F getnext F dimensions F getnucleus F effective glue F getoffsets F end of math F getorientation F find attribute F getpenalty F first glyph F getpost F firstcharacter F getpre F firstcharinbox F getprev F firstglyph F getprop F flatten discretionaries F getreplace F getruledata F flush

F flush components

F getshift

F directliteral F getsub F getsubtype F disc F emptyrule F getsup F getsurround F fence F getvalue F fontkern F fraction F getwhd F getwidth F glue F has attribute F glyph F hlist F has dimensions F has field F italickern F kern F has glyph F latelua F hpack F hyphenating F leader F insert after F leftmarginkern F insert before F leftskip F insert list after F lineskip F is direct F literal F mathchar F is display math F mathtextchar F is node F is nut F negatedglue F is\_zero\_glue F noad F ischar F originliteral F isdone F outlinerule F isglyph F pageliteral F kerning F penalty F last node F radical F leftmarginwidth F rawliteral F length F register F ligaturing F restore F link F rightmarginkern F linked F rightskip F locate Frule F mlist to hlist F save F nestedtracedslide F savepos F new F setmatrix T pool F shrink F stretch F accent F baselineskip F subbox F boundary F submlist F choice F temp F cleanup F textdir F delim F usage F delimiter T userids

N margins.inline

F direction

N splitters.one F setdiscretionary N splitters.two F setexpansion F usernode F setfam F userrule F setfield F vlist F setfont F wordboundary F setglue F prepend F setglyphdata F setheight F processranges F processwords F setkern F protect glyph F setlang F protect glyphs F setlanguage F protrusion skippable F setleader F rangedimensions F setlink F rawprop F setlist F reference F setnext F rehpack F setnucleus F remove F setoffsets F repackhlist F setorientation F replace F setpenalty F rightmarginwidth F setpost T rules F setpre T ruleactions F setprev F box F setprop F draw F setreplace F fill F setruledata F mp F setshift F stroke F setsplit F userrule F setsub F set attribute F setsubtype F set synctex fields F setsup F setattr F setsurround F setunsetattributes E setattribute F setattributelist F setvalue F setattributes F setvisual F setattrlist F setvisuals F setboth F setwhd F setwidth F setbox F slide F setboxglue F setchar F somepenalty F setcomponents F somespace F setdata F splitbox F setdepth F striprange F tail F setdirection

F takeattr

F setdisc

- · · · ·		
F takebox	F vpack	
F takelist	F write	function
F theprop	packlist	function
F tonode	penaltycodes	data table
F tonodes	plugindata	table
F tonut	F finalizer	
F tosequence	F initializer	
F tostring	S name	
F tracedslide	T namespace	
F traverse	N attribute	
F traverse_char	D data	
F traverse_glyph	F enable	
F traverse_id	F handler	
F traverse_list	F register	
T traversers	D registered	
F boundary	D values	
F char	F processor	
F dir	points	function
F disc	pool	table
F glue	F baselineskip	
F glyph	F cleanup	
F hlist	F directliteral	
F list	F glyph	
F next	F hlist	
F node	F latelua	
F vlist	F lineskip	
F whatsit	F literal	
T typesetters	F originliteral	
F tohbox	F register	
F tohpack	F restore	
F tonodes	F rule	
F tovbox	F save	
F tovpack	F savepos	
F unprotect_glyph	F setmatrix	
F unprotect_glyphs	F special	
F unset_attribute	F usage	
F unsetattribute	F vlist	
F unsetattributes	prepend	function
F untracedslide	print	function
F use_components	processors	table
F usedlist	F contribute_filter	
F uses_font	B enabled	
F vianodes	F hpack_filter	
F vianuts	F post_linebreak_filter	

F pre_linebreak_filter		setlink	function
F tracer		setlist	function
properties	table	setnext	function
T data		setprev	function
protect_glyph	function	setunsetattributes	function
protect_glyphs	function	shifts	table
protrusion_skippable	function	D data	
pts	function	F define	
radicalcodes	data table	F enable	
rangedimensions	function	F handler	
reference	function	show	function
references	table	showboxes	function
N attribute		showcodes	function
T done		showlist	function
F handler		showsimplelist	function
T stack		skipcodes	data table
rehpack	function	skipvalues	data table
remove	function	slide	function
repackhlist	function	snapshots	table
replace	function	F getparameters	
report	function	F getsamples	
rightmarginwidth	function	F resetsamples	
rulecodes	data table	F takesample	
rules	table	somepenalty	function
D data		somespace	function
F define		splitbox	function
F enable		stripdiscretionaries	function
F handler		stripping	table
F userrule		T glyphs	
save	function	F set	
serialize	function	subtypes	data table
serializebox	function	tail	function
set_attribute	function	takeattr	function
setattr	function	takebox	function
setattribute	function	tasks	table
setattributes	function	F actions	
setboth	function	F appendaction	
setbox	function	F disableaction	
setboxtonaturalwd	function	F disablegroup	
setchar	function	F enableaction	
setfield	function	F enablegroup	
setfont	function	F freeze	
setglue	function	F freezegroup	
setleader	function	F new	

r prependaction		I HULS	
F removeaction		F rule	
F replaceaction		F resetproperties	
F restart		F rule	
F setaction		F setlist	
F showactions		F setproperties	
F table		F start	
tobasepoints	function	T steppers	
tocentimeters	function	F check	
tociceros	function	F codes	
todidots	function	F features	
todimen	function	F font	
toinches	function	F glyphs	
tomillimeters	function	F message	
tonewciceros	function	F messages	
tonewdidots	function	F nofsteps	
tonode	function	F register	
tonodes	function	F reset	
tonut	function	F start	
topicas	function	F stop	
topoints	function	F stop	
toscaledpoints	function	T transparencies F reset F set F setlist <b>traverse</b> fu	
tosequence	function		
tostring	function		
totable	function		
totree	function		
toutf	function	traverse_char	function
tracers	table	traverse_glyph	function
T characters		traverse_id	function
F collect		traverse_list	function
F equal		traversers	table
F start		F char	
F string		F glyph	
F unicodes		F list	
T colors		F node	
F reset		typesetters	table
F set		F hbox	
F setlist		F hpack	
F fontchar		F tohbox	
T frequencies		F tohpack	
F register		F tonodes	
T pool		F tovbox	
T nodes		F tovpack	
F rule		F vpack	

F prependaction

T nuts

function	T attributes
function	F box
function	F handler
function	F markfonts
function	F register
function	F setfont
data table	F setlayer
function	F setruledglyph
function	F setvisual
	function function function function function data table function

vianutsfunctionvpackfunctionvisualizeboxfunctionwhatcodesdata tablevisualizerstablewhatsitcodesdata tableF attributewritefunction

## number (context)

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

# objects (context)

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

# os (basic lua)

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

<pre>columnsets table</pre>	F sethsize
F add	F sethspan
F block	F setlines
F check	F setproperties
F currentcolumn	F setstart
F define	F setvsize
F finishflush	<b>injections</b> table
F flushareas	F flushafter
F flushcolumn	F flushbefore
F flushrest	F save
F goto	mixedcolumns table
F noto	F cleanup
F prepareflush	F finalize
F put	F getlist
F registerarea	F getrest
F reset	F getsplit
F setarea	F setsplit

## pdf (basic tex)

immediateobj function

# pdfe (extra tex)

arraytotable	function	getnofpages	function
close	function	getnumber	function
closestream	function	getpage	function
dictionarytotable	function	getpages	function
encryptioncodes	data table	getsize	function
getarray	function	getstatus	function
getboolean	function	getstream	function
getbox	function	getstring	function
getcatalog	function	gettrailer	function
getdictionary	function	getversion	function
getfromarray	function	new	function
getfromdictionary	function	objectcodes	data table
getfromreference	function	open	function
getfromstream	function	openstream	function
getinfo	function	pagestotable	function
getinteger	function	readfromstream	function
getmemoryusage	function	readwholestream	function
getname	function	type	function
getnofobjects	function	unencrypt	function

## pdfscanner (context)

scan function

## physics (context)

units table

F registerunit

D tables

#### pngdecode (context)

applyfilter function
expand function

interlace function
splitmask 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 showdatasetfields F keyword

F showdatasetcompleteness
F showdatasetfields
F showentry
F showfields
F showhashedauthors

## 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	findpath	function
appendhash	function	findpk	function
automount	function	findtexfile	function
automounted	table	findwildcardfile	function
booleanvariable	function	findwildcardfiles	function
		formatofsuffix	
cacheversion checkedvariable	string function	formatofsuffix formatofvariable	function function
cleanedpathlist	function	formats	data table
cleanpath	function	foundintree	function
cleanpathlist	function	foundintrees	function
concatinators	data table	generators	data table
configbanner	string	get_from_content	function
configurationfiles	function	getenv	function
criticalvars	data table	getextrapaths	function
dangerous	data table	getfilehashes	function
datastate	function	gethashes	function
defaultsuffixes	table	getownpath	function
dowithfilesandreport	function	getreadfilename	function
dowithfilesintree	function	hashers	data table
dowithpath	function	homedir	string
dowithvariable	function	initialized	function
env	function	inputstack	table
executers	table	installinputfilehandler	function
expandbraces	function	installinputlinehandler	function
expandedpathfromlist	function	jobpath	function
expandedpathlist	function	jobs	table
${\it expanded path list from variable}$	function	F currentcomponent	
expandpath	function	F currentenvironment	
expandpathfromvariable	function	F currentproduct	
expansion	function	F currentproject	
extendtexmfvariable	function	F justacomponent	
filtered_from_content	function	D processors	
find_file	<del>function</del>	F productcomponent	
find_files	function	F usefile	
findbinfile	function	joinpath	function
findctxfile	function	knownvariables	function
finders	data table	load	function
findfile	function	loadbinfile	function
findfiles	function	loaders	data table
findgivenfile	function	loadlualib	function
findgivenfiles	function	loadtexfile	function

loadtime function function resolve locateformat function savers data table locators data table scandata function luacnffallback scanfiles function strina luacnfname schemes table string luacnfspec string T cleaners luacnfstate strina F md5 table macros F none F convertfile F strip F decodecomment F cleanname F enablecomment F fetchstring F encodecomment F fetchtable F preprocessed F install setdynamic function F processmk setenv function F processmkli function F processmkvi setmemstream 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 function popextrapath function stoptimina poppath function suffixes data table prefixes data table suffixmap data table suffixofformat prependhash function function pushextrapath function texdatablob function pushpath function function toppath registerextrapath function unexpandedpath function registerfile function unexpandedpathlist function registerfilehash function unresolve function registerintrees function updaterelations function registermethod function updatescript function registerzipfile function uselibrary function relations data table usertypes data table renew function usezipfile function function validatedpath function renewcache function variable function repath reset function variableofformat function function variableofformatorsuffix function resetextrapaths

wildcardpattern

function

function

function

resetmemstream

resetresolve

### 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	hash	table
F disable		injectors	data table
F enable		inserters	table
F handler		F nobreakspace_aft	er
categorytonumber	data table	F nobreakspace_bef	ore
colors	data table	F space_after	
decomposehangul	function	F space_before	
defaults	table	F zerowidthspace_a	fter
N inter_char_half_shrink_factor		F zerowidthspace_before	
N inter_char_half_	stretch_factor	installdataset	function
N inter_char_hangu	l_penalty	installmethod	function
N inter_char_quart	er_shrink_factor	numbertocategory	data table
N inter_char_quart	er_stretch_factor	numbertodataset	data table
N inter_char_shrin	k_factor	numbertohandler	data table
N inter_char_stret	ch_factor	reset	function
N inter_word_stret	ch_factor	set	function
handlers	data table	splitters	data table

### set (context)

contains function
create function
tolist function

tonumber function
totable function

## sha2 (context)

HASH256	function	digest512	function
HASH384	function	hash256	function
HASH512	function	hash384	function
digest256	function	hash512	function
digest384	function		

## sio (context)

read2dot14	function	readfixed2	function
readbytes	function	readfixed4	function
readbytetable	function	readinteger1	function
readcardinal1	function	readinteger1_le	function
readcardinal1le	function	readinteger2	function
readcardinal2	function	readinteger2_le	function
readcardinal2le	function	readinteger3	function
readcardinal3	function	readinteger3_le	function
readcardinal3le	function	readinteger4	function
readcardinal4	function	readinteger4_le	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	B pm	
comparers	table	В ис	
F basic		B zc	
constants	table	B zm	
S defaultdigit	S	definitions	data table
S defaultlangu	age	firstofsplit	function
S defaultmetho	d	packch	function
N digitsmaximu	m	packuc	function
N digitsoffset		replacementlist	function
N ignoredoffse	t	setlanguage	function
N replacemento	ffset	sort	function
T validmethods		splitters	table
B ch		F utf	
B mc		strip	function
B mm		tracers	data table
Врс		update	function

### statistics (context)

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

### status (basic tex)

list function
resetmessages function

## storage (context)

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

noftables	number	
register	function	
shared	data table	
storedfunctions	data tabl	
strip	boolean	
tofmodules	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	quote	function
autosingle	function	quoted	function
booleanstring	function	rep	function
byte	function	replacenewlines	function
bytepairs	function	reverse	function
bytes	function	split	function
bytetable	function	splitlines	function
char	function	splitup	function
characterpairs	function	strip	function
characters	function	sub	function
checkedsplit	function	tformat	function
collapsespaces	function	toHEX	function
containsws	function	toboolean	function
count	function	tobytes	function
dump	function	tocontext	function
escapedpattern	function	todec	function
explode	function	todimen	function
find	function	tohex	function
format	function	tonodes	function
formatter	function	topattern	function
formatters	function	totable	function
fullstrip	function	toutf	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
longtostring	function	utfcharacters	function
lower	function	utflength	function
match	function	utfpadd	function
nospaces	function	utfpadding	function
nspaces	table	utfvalue	function
optionalquoted	function	utfvalues	function
pack	function	valid	function
packsize	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		notes 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		T data
T numbers		F define
F ordered		F found
F postpone		F get
F resetpostponed		F filter
F restore		F filterdefault
F save		D filters
F setstate		D flaginternals
D states		F from
F store		D functions
pages	table	F get
F allmarked		F getcurrentmetadata
F analyze		F getcurrentprefixspec
D collected		F getinnermethod
F in_body		F getinternalcachedlistreference
F is_odd		F getinternallistreference
F mark		F getinternalreference
F marked		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
references F analyze	table	D internals F load
	table	
F analyze F checkedfile F checkedfileorurl	table	F load F loadpresets F mark
F analyze F checkedfile	table	F load F loadpresets
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage	table	F load F loadpresets F mark S outermethod D pages
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl	table	F load F loadpresets F mark S outermethod D pages U prefixsplitter
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected	table	F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter	table	F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter F currentmetadata	table	F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter F currentmetadata F currentorder	table	F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset	table	F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedralpage F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset F define	table	F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get F realpageofpage
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset F define D defined	table	F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get F realpageofpage U referencesplitter
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset F define D defined D derived	table	F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get F realpageofpage U referencesplitter D referred
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset F define D defined D derived F enhance	table	F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get F realpageofpage U referencesplitter D referred F referredpage
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset F define D defined D derived F enhance D executers	table	F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get F realpageofpage U referencesplitter D referred F referredpage F registerfinalizer
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedralpage F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset F define D defined D derived F enhance D executers F expandcurrent	table	F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get F realpageofpage U referencesplitter D referred F referredpage F registerfinalizer F registerinitializer
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset F define D defined D derived F enhance D executers	table	F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get F realpageofpage U referencesplitter D referred F referredpage F registerfinalizer

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	
Finner	F userdata	
F special	<b>sections</b> table	
F special operation	F autodepth	
F special operation with arguments	F cct	
T testspecials	D collected	
F deltapage	F current	
Fi	F currentblock	
F internal	F currentid	
F page	F currentlevel	
F realpage	F currentsectionindex	
F section	F depthnumber	
F userpage	F finddata	
D tobereferred	F findnumber	
D tobesaved	F fullnumber	
D tracedpages	F getcurrentlevel	
T urls	F getlevel	
T data	F getnumber	
F define	F internalreference	
F found	D levelmap	
F get	D levels	
F untex	F matchingtilldepth	
D usedinternals	F numberatdepth	
D usedviews	F numbers	
F valid	F popblock	
registers table	F prefixedconverted	
F analyze	F pushblock	
D collected	F register	
F compare	D registered	
F define	F reportstructure	

F save		F	resetshown	
T sectionblockdata			resetused	
T bodypart			sort	
S bookmark			synonym	
F set			tobesaved	
F setblock		tags		table
F setchecker		_	current	
F setentry		F	elementtag	
F setinitialblock		F	finishexport	
F setlevel		F	getextradata	
F setnumber		F	getid	
F showstructure		F	getmetadata	
F structuredata		F	handler	
F title		F	initializeexport	
D tobesaved		D	labels	
F typesetnumber		F	last	
F userdata		F	lastinchain	
B verbose		F	locatedtag	
sets	table	Т	patterns	
F define			U splitter	
F get		D	properties	
F getall		F	registerextradata	
D setlist		F	registermetadata	
specials	table	F	restart	
D collected		F	setaspect	
F retrieve		F	setattributehash	
F store			setcombination	
D tobesaved			setconstruct	
synonyms	table		setfigure	
F analyzed			setfloat	
D collected			setformulacontent	
F compare			sethighlight	
F define			setitem	
F filter F finalize			setitemgroup setlist	
F flush			setnotation	
F isshown F isused			setnotationsymbol setparagraph	
F meaning			setproperty	
F prepare			setpublication	
F process			setregister	
F register			setsorting	
F registershown			setsynonym	
			,	

F registerused

F settablecell

F settabulatecell	F start
F settagdelimitedsymbol	F stop
F settagsubsentencesymbol	F strip
F setupexport	D taglist
F setuserproperties	T usewithcare
D specifications	T images

### 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	getdelcodes	function
badness	function	getdimen	function
box	table	getglue	function
boxresources	table	getglyphdata	function
F getbox		gethelptext	function
F getdimensions		getinteraction	function
F save		getlccode	function
F use		getlist	function
catcode	table	getlocallevel	function
chardef	function	getmath	function
conditionals	data table	getmathcode	function
constants	data table	getmathcodes	function
count	table	getmuglue	function
cprint	function	getmuskip	function
ctdcatcodes	number	getnest	function
ctxcatcodes	number	getpagestate	function
definefont	function	getsfcode	function
delcode	table	getskip	function
dimen	table	gettoks	function
directives	data table	getuccode	function
enableprimitives	function	glue	table
error	function	hashtokens	function
extraprimitives	function	ifs	data table
fatalerror	function	inicatcodes	number
fontidentifier	function	isattribute	function
fontname	function	isbox	function
force_synctex_line	function	iscount	overloaded function
force_synctex_tag	function	isdefined	function
forcehmode	function	isdimen	overloaded function
fprint	function	isglue	function
get	function	ismuglue	function
get_synctex_line	function	ismuskip	overloaded function
get_synctex_mode	function	isskip	overloaded function
get_synctex_tag	function	istoken	function
getattribute	function	istoks	function
getbox	function	lastnodetype	function
getboxresourcebox	function	lccode	table
getboxresourcedimensions	function	linebreak	function
getcatcode	function function	lists luacatcodes	table number
getcount			
getdelcode	function	magicconstants	table

setlinedir function N maxdimen setlist N runnina function setmath function N trueinch mathchardef function setmathcode function mathcode table setmathdir function function modes data table setmuqlue table function mualue setmuskip table function muskip setnest nest table setpardir function nilcatcodes number setsfcode function notcatcodes number setskip function number function settextdir function primitives function settoks function print function setuccode function prtcatcodes number sfcode table resetparagraph function shipout function function romannumeral function show context round function skip table runtoks function function sp saveboxresource function splitbox function function scale function sprint scantoks function systemmodes data table function function set takebox texcatcodes number set synctex line function function table set synctex mode toks set\_synctex\_no\_files function tpacatcodes number function tpbcatcodes number set synctex tag setattribute function tprint function setbox function trackers data table setboxdir function triggerbuildpage function setcatcode function txtcatcodes number function setcount function type setdelcode table function uccode setdimen function uprint function setglue function useboxresource function setglyphdata vrbcatcodes number function setinteraction function write function

function

setlccode

# texconfig (basic tex)

error_line	number	max_in_open	number
expand_depth	number	max_print_line	number
fix_mem_init	number	max_strings	number
formatname	string	nest_size	number
function_size	number	param_size	number
half_error_line	number	<pre>properties_size</pre>	number
hash_extra	number	save_size	number
init	overloaded function	shell_escape	string
kpse_init	boolean	stack_size	overloaded number

### texio (basic tex)

closeinput function
write function

write\_nl function

## token (basic tex)

biggest_char	function	put_next	function
command_id	function	scan_argument	function
commands	function	scan_char	function
create	function	scan_code	function
expand	function	scan_csname	function
future_expand	function	scan_dimen	function
get_active	function	scan_float	function
get_cmdname	function	scan_glue	function
get_command	function	scan_int	function
get_csname	function	scan_key	function
get_expandable	function	scan_keyword	function
get_frozen	function	scan_keyword_cs	function
get_id	function	scan_list	function
get_index	function	scan_real	function
get_macro	function	scan_skip	function
get_meaning	function	scan_string	function
get_mode	function	scan_token	function
get_next	function	scan_token_code	function
get_next_token	function	scan_tokenlist	function
get_protected	function	scan_toks	function
get_tok	function	scan_value	function
gobble_dimen	function	scan_word	function
gobble_int	function	set_char	function
is_defined	function	set_lua	function
is_next_char	function	set_macro	function
is_token	function	skip_next	function
new	function	to_string	function
peek_next_char	function	type	function

### tokens (context)

astal	ble	function				U loadfou	ndtypescriptfile	
bgrou	ир	userdata				U resetct	resetctxscanner	
bits		table				U rlap		
N	active					U scratch	counter	
N	N alignment				U scratchdimen			
N	begingrou	р				U scratchmuskip		
N	character				U scratchskip			
N	close				U scratchtoken			
N	comment				U secondoftwoarguments			
N	endgroup				U setfalsevalue			
N	endofline	!			U setsectionblock			
N	escape				U setupsystem			
N	ignore				U startcolumns			
N	invalid					U startta	bulate	
N letter			U starttitle					
N	N mathshift			U startxtitle				
N	open					U stopcolumns		
N	other					U stoptab	stoptabulate	
N	parameter					U stoptit	stoptitle	
N	space					U stopxti	stopxtitle	
N	subscript					U texsetu	texsetup	
N	superscri	pt				U xmlw	xmlw	
N	whitespac	е			co	llectors	<b>s</b> table	
<pre>cache table</pre>			T data					
U	NC					F default	words	
U	NR					F dowithw	ords	
U	bf					F flush		
U	color					F install		
U	colordefa	lc				F registe	r	
U	colordeff	lc				T registe	red	
U	colordeff	lt				F show		
U	colordefr	lt				F test		
U	dofinishr	eference			COI	mmands	data table	
U	dostartte	xt				mpile	function	
U	finishjob	1			COI	nstant	function	
U	firstofon	eargument			COI	nverters	<b>s</b> table	
U	firstoftw	oarguments				S toboole	an	
U	gobbleone	argument				S todimen	ı	
	goto					S toglue		
U	iftrue					S tonumbe	er	
U	input					S tostrin	g	

create	function	F	integer	
defined	function		ischar	
egroup	userdata		key	
getters	table		keyword	
F box	cabic		keywordo	
F count			list	3
F dimen			lxmlid	
F glue			number	
F macro			peek	
F meaning			real	
F skip			scanclos	۵
F token			scanopen	
hbox	userdata		skip	
isdefined	function		string	
istoken	function		table	
letter	function		token	
letters	function	-	tokencod	e
new	function	F	tokenlis	t
other	function		tokens	
pickup	function	F	toks	
presets	table	F	value	
T 1 string		F	verbatim	
T 2 strings		F	whd	
T 3 strings		F	word	
T 4 strings		sett	ers	table
T 5 strings		F	box	
T 6 strings		F	char	
T 7 strings		F	count	
T 8 strings		F	dimen	
printlist	function	F	glue	
scanners	table	F	lua	
F argument		F	macro	
F array		F	skip	
F boolean		shor	tcuts	table
F char		Т	bits	
F code			N active	
F condition	al		N alignm	ent
F count			N beging	roup
F csname			N charac	ter
F dimen			N close	
F dimension			N commen	t
F float			N endgro	up
F glue			N endofl	ine
F hash			N escape	

N ignore	F ischar
N invalid	F key
N letter	F keyword
N mathshift	F keywordcs
N open	F list
N other	F lxmlid
N parameter	F number
N space	F peek
N subscript	F real
N superscript	F scanclose
N whitespace	F scanopen
N close	F skip
F inspect	F string
N open	F table
F report	F token
F scanargument	F tokencode
F scanarray	F tokenlist
F scanboolean	F tokens
F scanclose	F toks
F scancode	F value
F scanconditional	F verbatim
F scancsname	F whd
F scandimen	F word
F scandimension	F scannumber
F scanhash	F scanopen
F scaninteger	F scanstring
F scankeyword	F scantable
F scankeywordcs	F scantokenlist
F scanlist	F scanverbatim
T scanners	F scanword
F argument	F toboolean
F array	F todimen
F boolean	T tokens
F char	F astable
F code	U bgroup
F conditional	T cache
F count	U NC
F csname	U NR
F dimen	U bf
F dimension	U color
F float	U colordefalc
F glue	U colordefflc
F hash	U colordefflt
F integer	U colordefrlt

U dofinishreference S todimen U dostarttext S toglue U finishjob S tonumber U firstofoneargument S tostrina U firstoftwoarguments F create F defined U gobbleoneargument U aoto U egroup U iftrue T getters U input F box U loadfoundtypescriptfile F count U resetctxscanner F dimen U rlap F alue U scratchcounter F macro U scratchdimen F meaning U scratchmuskip F skip U scratchskip F token U scratchtoken U hbox U secondoftwoarguments F isdefined U setfalsevalue F istoken F letter U setsectionblock U setupsystem F letters U startcolumns F new U starttabulate F other U starttitle F pickup U startxtitle T presets U stopcolumns F printlist U stoptabulate T setters U stoptitle F box U stopxtitle F char U texsetup F count U xmlw F dimen T collectors F glue F defaultwords F lua F dowithwords F macro F flush F skip F install T shortcuts F register N close F show F inspect F test N open D commands F report F compile F scanargument F constant F scanarray T converters F scanboolean S toboolean F scanclose

F scancode F scantokenlist F scanconditional F scanverbatim F scancsname F scanword F scandimen F toboolean F scandimension F todimen F scanhash F tonumber F scaninteger F tostring F scankeyword U vbox F scankeywordcs U vtop F scanlist F tonumber F scannumber F tostring vbox userdata F scanopen userdata vtop F scanstring

F scantable

#### tracers (context)

count function
cs function
dimen function
knownlist function
lists table

T context
T internals
T scratch

name function

primitive function
printerror function
printwarning function
showlines function
strings table

S undefined

toks function
type function

# trackers (context)

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

# typesetters (context)

-14	4-11-		
alignments	table	T handlers	
F handler		F installhandler	
F set	+-h1-	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	ign	F addanchortolin	е
characters	table	F addtoline	
F handler		F calculatedelta	
T methods		F checkline	
F replacenbsp		F handler	
F replacenbspace	s	F moveinline	
checkers	table	F normalize	
F handler		F set	
F reset		injectors	table
F set		F check	
cleaners	table	T list	
F handler		F mark	
F set		F reset	
digits	table	F set	
T actions		F show	
F handler		italics	table
F set		F enablemath	
directions	table	F enabletext	
F getfences		F forcevariant	
F getglobal		F handler	
F getmethod		F reset	
F handler		F set	

kerns	table	F apply	
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	ation	rubies	table
T methods	301011	F attach	cabic
F Word		F check	
F Words		showsuspects	function
F abbreviated	iournal	spacings	table
F expandedjou		F define	
F lowercase		F handler	
F stripperiod		D mapping	
F uppercase		T numbers	
T patterns		T frenchpunctu	ation
U list		T characters	
U pair		S name	
F splitspecific	ation	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	ne	F construct	
F addtoline		F create	
F calculatedelt	a	F finish_row	
F checkline		F flush	
F handler		F initialize_cor	nstruct
F moveinline		F initialize_ref	flow_height
F normalize		F initialize_ref	flow_width
F set		F next_row	
periodkerns	table	F reflow_height	
D factors		F reflow_width	
F handler		F set_construct	
F handler D mapping		F set_construct F set_reflow_hei	ight
	table	<del>-</del>	-

#### updaters (context)

apply function
register function

# url (context)

function	hashed	function
function	hasscheme	function
function	query	function
function	split	function
function	toquery	function
function	unescape	function
function	unescapeget	function
	function function function function function	function hasscheme function query function split function toquery function unescape

# utf8 (context)

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

# utilities (context)

debugger	table	Fr	readtag	
F disable		Fs	setposition	
F enable		Fs	size	
F savestats		Fs	skip	
F showstats		Fs	skiplong	
F showtraceback		Fs	skipposition	
files	table	Fs	skipshort	
F close		F w	ritebyte	
F getposition		Fw	ritecardinal1	
F getsize		Fw	ritecardinal1le	
F look		Fw	ritecardinal2	
F open		Fw	ritecardinal2le	
F read2dot14		Fw	ritecardinal3	
F readbyte		Fw	ritecardinal3le	
F readbytes		Fw	ritecardinal4	
F readbytetable		Fw	ritecardinal4le	
F readcardinal		F w	riteinteger1	
F readcardinal1		Fw	riteinteger1le	
F readcardinal1le		F w	riteinteger2	
F readcardinal2		F w	riteinteger2le	
F readcardinal2le		F w	riteinteger3	
F readcardinal3		F w	riteinteger3le	
F readcardinal3le		F w	riteinteger4	
F readcardinal4		F w	riteinteger4le	
F readcardinal4le		F w	ritestring	
F readcardinaltable	2	forma	tters	table
F readchar		F f	ormatcolumns	
F readfixed2		F۱	.ist	
F readfixed4		Fs	stripzeros	
F readinteger		garba	gecollector	table
F readinteger1		Fo	check	
F readinteger1le		N c	riterium	
F readinteger2		Ве	enabled	
F readinteger2le		lua		table
F readinteger3		Ва	alwaysstripcode	
F readinteger3le		Fo	checkmemory	
F readinteger4		Fo	compile	
F readinteger4le		F۱	oadedluacode	
F readintegertable		Fι	oadstring.	
F readsignedbyte		F۱	oadstripped.	
F readstring		N n	nofstrippedbytes	

N nofstrippedchunks	B rightpage
F registerfinalizer	B text
B stripcode	F iterator
T strippedchunks	F keq to hash
F strippedloadstring	F listitem
T suffixes	F make settings to hash pattern
S lua	F mergehashes
S luc	F options to array
S lui	F options to hash
S luj	T patterns
S luv	U settings to array
S tma	U settings_to_hash_a
S tmc	U settings_to_hash_b
S tua	U settings to hash c
S tuc	U settings_to_hash_d
packers table	U unittotex
F hashed	F process_stripped_settings
F new	F rfc4180splitter
F pack	F runtime
F simplehashed	F settings to array
F strip	F settings to array obey fences
F unpack	F settings to array with repeat
N version	F settings to hash
<pre>parsers table</pre>	F settings_to_hash_colon_too
F add_settings_to_array	F settings_to_hash_strict
F arguments_to_table	F settings_to_hash_tolerant
F array_to_string	F settings_to_numbers
F csvsplitter	F settings_to_set
F getparameters	F simple_hash_to_string
F groupedsplitat	F splitmethod
F hash_to_string	F splitthousands
T hashes	F stepper
T settings_to_set	F stripped_settings_to_array
T min,max,fit,broad,auto	F totime
B auto	F unittotex
B broad	F unittoxml
B fit	<b>randomizer</b> table
B max	F get
B min	F getnumber
T text,hidden,paper,page,leftpage,rightpage	F getseed
B hidden	F popseed
B hidden B leftpage	F popseed F pushseed

F setseedi		F ope	n
report	function	F ope	nstring
sequencers	table	F rea	d2dot14
F appendaction		F read	d2dot4
F appendgroup		F read	dbyte
F compile		F rea	dbytes
F disableaction		F rea	dbytetable
F disablegroup		F rea	dcardinal
F enableaction		F rea	dcardinal1
F enablegroup		F rea	dcardinal2
D functions		F rea	dcardinal2le
F localize		F read	dcardinal3
F new		F rea	dcardinal3le
F nodeprocessor		F read	dcardinal4
F prependaction		F read	dcardinal4le
F prependgroup		F read	dcardinaltable
F removeaction		F rea	dchar
F replaceaction		F rea	dfixed2
F setkind		F rea	dfixed4
F tostring		F rea	dinteger
setters	table	F rea	dinteger1
F disable		F rea	dinteger2
F enable		F rea	dinteger2le
F initialize		F rea	dinteger3
F list		F rea	dinteger3le
F new		F rea	dinteger4
F register		F rea	dinteger4le
F report		F rea	dintegertable
F reset		F read	dsignedbyte
F show		F rea	dstring
stacker	table	F set	position
F new		Fsiz	е
storage	table	F ski	ρ
F allocate		F ski	pbytes
F checked		F ski	plong
F mark			pshort
F marked		strings	table
F setinitializer		F col	
F sparse			lapsecrlf
streams	table		matters
F close		Fac	
F getposition		F ne	
F getstring			collector
F look		F new	repeater

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

F zipdir

F encapsulate

F insertaftervalue

# 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 (context)

I	userdata	F pow
add	function	F proj
div	function	F real
eq	function	F sin
inde	ex table	F sinh
UI		F sqrt
F	_add	F tan
F	-	F tanh
F		F topair
Т_	_index	F tostring
U		F voigt
	add	F voigt_hwhm
	div	Fmul
	eq	Sname
F	mul	Fpow
S	name	Fsub
	pow	Ftostring
	sub	Funm
F	tostring	F abs
F	unm	F acos
F	abs	F acosh
F	acos	F arg
F	acosh	F asin
F	arg	F asinh
	asin	F atan
	asinh	F atanh
	atan	F conj
	atanh	F cos
	conj	F cosh
	COS	F dawson
	cosh	F erf
	dawson	F erfc
	erf	F erfcx
	erfc	F erfi
	erfcx	F exp
	erfi	Ui
	exp	F imag
U		F log
	imag	F new
	log	F pow
F	new	F proj

F real		cos	function
F sin		cosh	function
F sinh		dawson	function
F sqrt		erf	function
F tan		erfc	function
F tanh		erfcx	function
F topair		erfi	function
F tostring		exp	function
F voigt		i	userdata
F voigt_hwh	nm	imag	function
mul	function	log	function
name	string	new	function
pow	function	pow	function
sub	function	proj	function
tostring	function	real	function
unm	function	sin	function
abs	function	sinh	function
acos	function	sqrt	function
acosh	function	tan	function
arg	function	tanh	function
asin	function	topair	function
asinh	function	tostring	function
atan	function	voigt	function

function

function

atanh conj voigt\_hwhm function

# xmath (context)

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	рi	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	E modding	
addspecialcode	function	F padding	
after	function	F stylevalue	
all	function	F todimension  defaulthandlers	table
acc applylpath	function	D file	table
applyselector	function		
assign	function	D parsedxml D string	
attribute	function	D string D tex	
badinclusions	function	D tex D texline	
before	function	D textine D texpace	
body	function	D verbose	
builtinentities	table	defaultprotocol	string
B amp	tubte	delete	function
B apos		<del>delete element</del>	function
B gt		despecialized	function
B lt		each	function
B quot		each element	function
cdata	function	elements	function
cdatatotext	function	elementtocdata	function
checkbom	function	empty	function
checkerror	function	entities	data table
checknamespace	function	erase	function
checkns	function	errorhandler	function
cleansed	function	escaped	function
collect	function	expressions	table
collect elements	function	• F boolean	
collect tags	function	F child	
collect_texts	<del>function</del>	F contains	
collected	function	F count	
collecttexts	function	F error	
content	function	F find	
convert	function	F hasclass	
сору	function	F idstring	
count	function	F lower	
cprint	function	F name	
CSS	table	F number	
F applyselector		F oneof	
F colorspecification		F print	
F dimension		F quit	
F fontspecification		F tag	
F mappedstylevalue		F text	

F undefined		F chainattribute	
F upper		F count	
fillin	function	F default	
filter	function	F elements	
finalizers	table	F empty	
F paragraphs		F first	
T tex		F function	
F all		F index	
F attribute		F last	
F chainattribute		F lowerall	
F chainpath		F match	
F command		F name	
F concat		F position	
F concatrange		F reverse	
F context		F table	
F count		F tag	
F ctxtext		F tags	
F default		F text	
F first		F texts	
F function		F upperall	
F index		first	function
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		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		inheritedconvert	function
F upper		inject	function
F upperall		inject_element	function
F xml		<pre>inject_element_after</pre>	function
T xml		<pre>inject_element_before</pre>	function
F all		injectafter	function
F att		injectbefore	function
F attribute		insert	function
F attributes		insert_element	function
F cdata		<u>insert_element_after</u>	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	remap_tag remapname	function
is_valid	function	•	function
kind	function	remapnamespace remaptag	function
last	function	•	function
lastmatch	function	rename	function
load	function	renamespace	userdata
lpath	function	reparsedentitylpeg	function
•		replace	
lpathcached	function	replace_element	function
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 <	
process	function	S >	
<pre>process_attributes</pre>	function	S \	
<del>process_elements</del>	<del>function</del>	S {	
processattributes	function	S	
profiled	table	S }	
pure	function	S ~	
pushmatch	function	specialhandler	table
raw	function	sprint	function
registerentity	function	string	function

strip	function	toxml	function
strip_whitespace	<del>function</del>	tprint	function
stripelement	function	traverse	function
stripleadingspaces	function	unescaped	function
table	function	unescapedentitylpeg	userdata
text	function	unprivatized	function
textonly	function	unspecialized	function
texttocdata	function	withelement	function
tocdata	function	withelements	function
toelement	function	wrap	function
tostring	function	xmlns	table
totable	function		

#### zip (extra lua)

archives table
closearchive function

openarchive function
registeredfiles table

#### zlib (extra lua)

adler32 function
compress function
compressobj function
crc32 function

decompress function
decompressobj function
version function