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

ConT_EXt LMTX

global (alias: _G)

		_	
CONTEXTLMTXMODE	number	ctxrunner	table
LUAFORMAT	number	debug	table
LUAMAJORVERSION	number	dimen	function
LUAMINORVERSION	number	dir	table
LUATEXENGINE	string	directives	table
LUATEXFORMATID	number	document	table
LUATEXFUNCTIONALITY	number	documentdata	table
LUATEXVERBOSE	string	dofile	function
LUATEXVERSION	number	drivers	table
LUAVERSION	number	environment	table
MP	function	error	function
SAVEDREQUIRE	function	experiments	table
aes	table	figures	table
arg	table	file	table
asnumber_p	function	fio	table
assert	function	floats	table
attributes	table	flushsimplerule	function
backends	table	flushspecialrule	function
basexx	table	font	table
bit32	table	fonts	table
blobs	table	functions	table
blockrequire	function	getdepthprofile	function
boolean	table	getheightprofile	function
buffers	table	gethvrpos	function
builders	table	getmetatable	function
caches	table	getscriptstatus	function
callback	table	graphics	table
callbacks	table	gzip	table
catcodes	table	handledefinitions	function
characters	table	handletransformstring	function
checkimage	function	helper	table
chemistry	table	images	table
collectgarbage	function	inspect	function
collectstructure	function	interactions	table
combine	function	interfaces	table
commands	table	io	table
containers	table	ipairs	function
context	function	job	table
converters	table	kpse	table
coroutine	table	language	table
createmask	function	languages	table

last ndf	number	pdfdecode	table
last_pdf	table	•	table
layouts lfs	table	pdfe	table
libraries	table	physics	table
	table	pngdecode	
lmx	10010	popleaderlevel	function
load	function	posit	table
loaders	data table	potrace	table
loadfile	function	potracefrompng	function
loadstring	function	print	function
logs	table	profilelines	function
longestcommon	function	publications	table
lpdf -	table	pushleaderlevel	function
lpeg	table	qrcodegen	table
lua -	table	rawequal	function
luac	table	rawget	function
luatex	table	rawlen	function
lxml	table	rawset	function
math	table	recolor	function
mathematics	table	regimes	table
mathshapekern	function	require	function
md5	table	resolvers	table
metapost	table	ruledspace	function
mime	table	sandbox	table
moduledata	table	scripts	table
modules	table	select	function
mp	function	serial	table
mplib	table	set	table
next	function	setinspector	function
noads	table	setmathparameters	function
node	table	setmetatable	function
nodes	table	sha2	table
number	table	shipbox_ref_h	number
objects	table	shipbox_ref_v	number
optional	table	sio	table
optionalrequire	function	socket	table
os	table	sorters	table
p_number_p	userdata	sparse	table
p_number_u	userdata	statistics	table
package	table	status	table
pagebuilders	table	storage	table
pairs	function	streams	table
parametersets	table	string	table
pcall	function	structures	table
pdf	table	table	table

tex	table	unpack	function
texconditionals	data table	updaters	table
texconfig	table	url	table
texconstants	data table	userdata	table
texifs	data table	utf	table
texio	table	utf8	table
texisdefined	data table	utilities	table
texmodes	data table	vector	table
texsystemmodes	data table	visualizers	table
thirddata	table	warn	function
toboolean	function	width	number
todecimal	function	xcomplex	table
token	table	xdecimal	table
tokens	table	xmath	table
tonumber	function	xml	table
tostring	function	xpcall	function
tracers	table	xshift	number
trackers	table	xzip	table
type	function	zip	table
typesetters	table	zlib	table

aes (extra lua)

decode function
encode function

random function

attributes (context)

alternates	table	F	formatcolor
N attribute		F	formatgray
D data		F	formatluminance
F enable		F	formatluminanceratio
F handler		F	getpagecolormodel
F register		F	gray
D registered		F	graytohsv
D values		F	handler
applyoverloads	function	Т	helpers
checkvalues	function		F complement
colorintents	table		F inbetween
N attribute			F justone
D data		F	hsvtogray
F enable		F	hsvtorgb
F handler		F	hwbtorgb
F register		F	iccprofile
D registered		F	isblack
colors	table	F	labtolch
N attribute		F	labtorgb
F cmyk		F	labtoxyz
F cmyktogray		F	lchtolab
F cmyktorgb		F	lchtorgb
F colorcomponent	ts	N	main
D counts		S	model
B couple		D	models
F currentmodel		F	mpcolor
F currentnamedmo	odel	F	mpnamedcolor
D data		F	mpoptions
N default		F	namedcolorattributes
F defineintermed	diatecolor	N	none
F definemultitor	necolor	F	popset
F defineprocesso	color	F	processcolorcomponents
F defineprocesso	colordirect	F	pushset
F definesimpleg	ray	F	register
F definespotcolo	or	D	registered
F definetranspar	rency	F	registerspotcolor
F enable		F	rgb
F filter		F	rgbbytes
N forced		F	rgbtocmyk
F forcedmodel		F	rgbtogray
F forcesupport		F	rgbtohsv

F rgbtoxyz		F register	
N selector		D registered	
F setlist		F set	
F setmodel		numbers	data table
F setpagecolormo	odel	ofnode	function
D sets		private	function
F spec		public	function
F spot		registervalue	function
F spotcolorname		restore	function
F spotcolorparer	t	save	function
F spotcolorvalue	2	setcleaner	function
B supported		showcurrent	function
F toattributes		states	table
F transparencyco	omponents	F disabletrigg	ering
B triggering		F enabletrigge	ring
F usecolors		F finalize	
D valid		F initialize	
F value		F process	
D values		F selective	
B weightgray		F simple	
F xyztolab		F stacked	
F xyztorgb		F stacker	
counts	data table	system	function
define	function	tooverloads	function
define effects		tooverloads transparencies	function
define effects N attribute	function	tooverloads transparencies N attribute	function
define effects N attribute D data	function	tooverloads transparencie: N attribute D data	function
define effects N attribute D data F enable	function	tooverloads transparencie: N attribute D data F enable	function s table
define effects N attribute D data F enable F handler	function	tooverloads transparencie: N attribute D data F enable F forcesupport	function s table
define effects N attribute D data F enable F handler F register	function	tooverloads transparencies N attribute D data F enable F forcesupport F handler	function s table
define effects N attribute D data F enable F handler F register D registered	function	tooverloads transparencies N attribute D data F enable F forcesupport F handler T names	function s table
define effects Nattribute D data F enable F handler F register D registered D values	function table	tooverloads transparencies N attribute D data F enable F forcesupport F handler T names N color	function s table
define effects N attribute D data F enable F handler F register D registered D values getvalue	function table	tooverloads transparencies N attribute D data F enable F forcesupport F handler T names N color N colorburn	function s table
define effects N attribute D data F enable F handler F register D registered D values getvalue getvalues	function table	tooverloads transparencies N attribute D data F enable F forcesupport F handler T names N color N colorburn N colordodge	function s table
define effects N attribute D data F enable F handler F register D registered D values getvalue getvalues handlers	function table function function function table	tooverloads transparencies N attribute D data F enable F forcesupport F handler T names N color N colorburn N colordodge N darken	function s table
define effects Nattribute D data F enable F handler F register D registered D values getvalue getvalues handlers hasvalues	function table function function function table function	tooverloads transparencies N attribute D data F enable F forcesupport F handler T names N color N colorburn N colordodge N darken N difference	function s table
define effects Nattribute D data F enable F handler F register D registered D values getvalue getvalues handlers hasvalues list	function table function function function table function data table	tooverloads transparencies N attribute D data F enable F forcesupport F handler T names N color N colorburn N colordodge N darken N difference N exclusion	function s table
define effects Nattribute D data F enable F handler F register D registered D values getvalue getvalues handlers hasvalues list markasoverload	function table function function table function table function data table function	tooverloads transparencies N attribute D data F enable F forcesupport F handler T names N color N colorburn N colordodge N darken N difference N exclusion N hardlight	function s table
define effects Nattribute D data F enable F handler F register D registered D values getvalue getvalues handlers hasvalues list markasoverload names	function table function function table function table function data table function data table	tooverloads transparencies N attribute D data F enable F forcesupport F handler T names N color N colorburn N colordodge N darken N difference N exclusion N hardlight N hue	function s table
define effects Nattribute D data F enable F handler F register D registered D values getvalue getvalues handlers hasvalues list markasoverload names negatives	function table function function table function table function data table function	tooverloads transparencies N attribute D data F enable F forcesupport F handler T names N color N colorburn N colordodge N darken N difference N exclusion N hardlight N hue N lighten	function s table
define effects Nattribute D data F enable F handler F register D registered D values getvalue getvalues handlers hasvalues list markasoverload names negatives N attribute	function table function function table function table function data table function data table	tooverloads transparencies N attribute D data F enable F forcesupport F handler T names N color N colorburn N colordodge N darken N difference N exclusion N hardlight N hue N lighten N luminosity	function s table
define effects Nattribute D data F enable F handler F register D registered D values getvalue getvalues handlers hasvalues list markasoverload names negatives Nattribute D data	function table function function table function table function data table function data table	tooverloads transparencies N attribute D data F enable F forcesupport F handler T names N color N colorburn N colordodge N darken N difference N exclusion N hardlight N hue N lighten N luminosity N multiply	function s table
define effects Nattribute D data F enable F handler F register D registered D values getvalue getvalues handlers hasvalues list markasoverload names negatives N attribute	function table function function table function table function data table function data table	tooverloads transparencies N attribute D data F enable F forcesupport F handler T names N color N colorburn N colordodge N darken N difference N exclusion N hardlight N hue N lighten N luminosity	function s table

N overlay F definedlayoutcomponent N saturation F enable N screen F forcesupport N softlight F handler N none B hasorder F register D listwise D registered F register B supported D registered F toattribute F resolve begin B triggering F resolve end F value F resolve_reset D values F resolve_step unsetvalue number D scopes data table values F setfeatures viewerlayers table F setup F start F stop

B supported

D values

backends (context)

F addbookmarks

closeout function F analyzenormalsymbol codeinjections table F analyzesymbol F registerboxresource F attachmentid F registerfont F bitmap F restoreboxresource F clonefield current strina F copyimage defaults table F defaultprofile F definefield T codeinjections F definefieldset F prerollreference F setautoprefix F defineviewerlayer F vfstartcolor F discardpages F vfstopcolor F embedfile T nodeinjections F embedimage F cmvkcolor F enabletags F destination F exportformdata F gravcolor F fieldsurrounding F injectknockout F flushmergelayer F injectoverprint F getbookmarks F reference F getboxresourcebox F rqbcolor F getdefaultfieldvalue F spotcolor F getfieldcategory F transparency F getfieldset T registrations F getformatoption F getinfo F transparency D tables F getlinkstructureparent getcallbackstate function F getreferencestructureobject included table F getrefobi B context F insertrenderingwindow B date F ip2 B id F jpg B metadata F maptag B pdf F mergebookmarks initialize function F mergecomments latelua function F mergefields nodeinjections table F mergereferences nothing function F mergerenditions function openout F mergeviewerlayers registered table F newimage T pdf F pnq T codeinjections F prerollreference

F presetsymbol

F presetsymbollist F useviewerlaver F processrendering F validcompactor F registerdocumentcloseaction F validfield F registerdocumentopenaction F validfieldcategory F registeredsymbol F validfieldset F registerfiguremask F vfstartcolor F registerfigurerange F vfstopcolor F registerpagecloseaction F wrapimage F registerpageopenaction S name F registerpattern T nodeinjections F registersymbol F addtags F ruleactionbox F annotation F ruleactiondraw F attachfile F ruleactionfill F changestackedlayer F ruleactionmp F cmykcolor F ruleactionstroke F comment F saveboxresource F destination F effect F scanimage F setattachmentsupport F getboxresourcedimensions F setautoprefix F graycolor F setencryption F injectbitmap F setfieldcalculationset F insertu3d F setfigurecolorspace F knockout F setfiguremask F negative F setformat F overprint F setformsmethod F positive F reference F setjobcomment F setpagetransition F rgbcolor F settaggingsupport F spotcolor F setupviewerlayer F startalternate F setuserdata F startlayer F setxmpfile F startstackedlayer E startactualtext F stopalternate F startalternativetext F stoplayer F startlayer F stopstackedlayer F startunicodetoactualtext F transparency F typesetfield F startunicodetoactualtextdirect F stopactualtext F useboxresource F stopalternativetext T registrations F stoplayer F cmykindexcolor

F supportedformats F grayindexcolor
F unicodetoactualtext F grayspotcolor

F stopunicodetoactualtext

F stopunicodetoactualtextdirect

F cmykspotcolor

F getspotcolorreference

F rgbindexcolorF rgbspotcolorF spotcolornameF transparency

T tables

registrations setencryption tables writeout table
function
table
function

basexx (extra lua)

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

bit32 (context)

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

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	parallel	table
assign	function	F define	
collectcontent	function	F hassomecontent	
empty	function	F next	
erase	function	F place	
exists	function	F reset	
get	function	F save	
getcontent	function	prepend	function
getctxlua	function	raw	function
getlines	function	run	function
getmkvi	function	samplefile	function
gettex	function	splitsamplefile	function
loadcontent	function	undent	function

builders (context)

checkparcontext	function	F start	
checksidefloat	function	F stop	
hpack	table	F tag	
F qualityactions		parpassidentifier	function
F report		passnames	data table
F show		profiling	table
kernel	table	F add	
F collapsing		F addrivers	
F hyphenating		F boxlinehandler	
F kerning		F distance	
F ligaturing		F fixedprofile	
F mlisttohlist		F get	
paragraphs	table	F getrivers	
T constructors		F list	
N attribute		F pagehandler	
F define		F pagelinehandler	
F disable		F profilebox	
F enable		F profilelines	
F handler		F set	
T methods		F setlines	
F basic		registerpaspasscallback	function
F default		vpack	table
F hpack		F qualityactions	
F oneline		F report	
D names		vspacing	table
D numbers		D categories	
F set		F checkstrutdepth	
F start		F collapsevbox	
F stop		T data	
T expansion		D map	
F trace		D skip	
F keeptogether		D snapmethods	
F registertogether		F definesnapmethod	
T solutions		B fixed	
T splitters		F flushcontributions	
F define		F forcepageflush	
F optimize		F forcestrutdepth	
T registered		F getnofpreviouslines	
F reset		F inject	
F set		F injectdisable	
F split		F injectpenalty	

F injectskip
F interceptsamepagecontent
F pagehandler

F pageoverflow
F popatsame
F pushatsame

F setmap

F setskip F snapbox

F synchronizepage
F tocategories
F tocategory

F vboxhandler

caches (context)

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

callback (basic tex)

find	function	list	function
getindex	function	names	function
getoptions	function	register	overloaded function
getoptionvalues	function	setoptions	function
getstate	function	setstate	function
getstatevalues	function	testonly	function
known	function	usage	function

callbacks (context)

freeze function N local box functions table N make extensible F start page number N math rule F stop page number N missing character aetcomment function N mlist to hlist getstates function N open data file known function N packed vbox list table N paragraph context N alignment N paragraph pass N append adjust N post linebreak N append line N pre dump N append migrate N pre linebreak N append to vlist N pre output N balance boundary N process character N balance check N process jobname N balance insert N quality font N begin paragraph N register extensible N buildpage N show build N define font N show error message N find format file N show loners N find log file N show lua call N get attribute N show vsplit N get math dictionary N show warning message N get noad class N show whatsit N glyph run N start file N handle overload N start run N handle uinsert N stop file N handle uleader N stop run N hpack N tail append N hpack_quality N test only N hyphenate N trace memory N insert distance N vpack N insert par N vpack quality N intercept lua error N wrapup run table N intercept tex error names optimizer function N italic correction N kerning optionbits table optioncodes table N ligaturing N linebreak N direct N linebreak check N trace N linebreak quality pop function push function
register function
report function
statebits table
statecodes table

N disabled N frozen N fundamental
N private
N selective
N set

N touched N tracing

catcodes (context)

names data table
numbers data table

register function

characters (context)

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

remap_hangul_syllabe function table tex scripthash table D accentmapping setactivecatcodes function D commandmapping setlettercatcodes function F defineaccents setothercatcodes function F safechar shape function F strtextoutf function shaped F strtoutfpattern data table shash F toutf shchars data table F toutfpattern shcodes data table textclasses table showstring function tonumber function specialchars data table ucchars data table data table specials uccode function splits table uccodes data table uhash data table T char unicodechar function T compat function subscripts table upper data table superscripts table verbosemarks

data table

synonyms

chemistry (context)

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

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

containers (context)

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

converters (context)

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

uchexnumber uchexnumbers upper verbose function function function table F translate
weekday
word
words

function
function

D data

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

debug (basic lua)

getinfo function
sethook function

traceback function

dir (context)

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

directives (context)

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

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

document (context)

arguments	data table	pdf_cleanup_procsets	function
files	table	pdf_identify_content	function
functions	table	pdf_serialize_content	function
getargument	function	pdf_strip_content	function
getfilename	function	pdf_strip_page	function
options	table	setargument	function
T commandline		setcommandline	function
D environments		setdefaultargument	function
D modes		setenvironments	function
D modules		setfilename	function
T ctxfile		setfilenames	function
D environments		setmodes	function
D modes		setmodules	function
D modules		variables	data table
pdf_cleanup_cidsets	function		

documentdata (context)

variable function

drivers (context)

applyanchor	function	F rule
applyorientation	function	F simplerule
convert	function	F specialrule
converters	table	F updatefontstate
F analyze		T whatsit
F engine		S name
F lmtx		T json
F resyncbox		T actions
enable	function	F cleanup
finalize	function	F convert
gethpos	function	F finalize
gethvrpos	function	F initialize
getpos	function	F outputfilename
getrpos	function	F prepare
getvpos	function	F wrapup
helpers	table	T flushers
initialize	function	F character
install	function	F popleaderlevel
instances	table	F pushleaderlevel
T empty		F rule
T actions		F setstate
F convert		F simplerule
F prepare		F specialrule
T flushers		F updatefontstate
F popleaderleve	l	T whatsit
F pushleaderleve	el	S name
T whatsit		T lua
S name		T actions
T js		F cleanup
T actions		F convert
F cleanup		F finalize
F convert		F initialize
F finalize		F outputfilename
F initialize		F prepare
F outputfilename	e	F wrapup
F prepare		T flushers
F wrapup		F character
T flushers		F popleaderlevel
F character		F pushleaderlevel
F popleaderleve	ι	F rule
F pushleaderleve	el	F simplerule

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

environment (context)

argument	function	luafilechunk	function
arguments	data table	luatexengine	string
basicengines	data table	luatexfunctionality	number
currentrun	number	luatexverbose	string
definefilefallback	function	luatexversion	number
definefilesynonym	function	maxnofruns	number
engineflags	data table	oldhome	string
filename	string	originalarguments	data table
filenames	table	outputfilename	string
files	table	ownbin	string
filesynonyms	data table	ownmain	string
forcedruns	number	ownname	string
getargument	function	ownpath	string
globfiles	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
kindofrun	number	useluamodule	function
lmtxmode	number	usemodules	function
loadexamodes	function	validengines	data table
loadluafile	function	version	string
luafile	function		

experiments (context)

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

figures (context)

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

remappers	data table	setlookups	function
resources	data table	setorder	function
scale	function	setpaths	function
set	function	suffixes	data table
setconversion	function	used	data table

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
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	readinteger1le	function
read2dot14	function	readinteger2	function
readbytes	function	readinteger2le	function
readbytetable	function	readinteger3	function
readcardinal1	function	readinteger3le	function
readcardinal1le	function	readinteger4	function
readcardinal2	function	readinteger4le	function
readcardinal2le	function	readintegertable	function
readcardinal3	function	setposition	function
readcardinal3le	function	skipposition	function
readcardinal4	function	writecardinal1	function
readcardinal4le	function	writecardinal1le	function
${\it readcardinal table}$	function	writecardinal2	function
readcline	function	writecardinal2le	function
readcstring	function	writecardinal3	function
readfixed2	function	writecardinal3le	function
readfixed4	function	writecardinal4	function
readinteger1	function	writecardinal4le	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)

addcharacters	function	getmathspec	function
addquality	function	getparameterfields	function
current	function	gettextcharacterfields	function
define	function	id	function
getfont	function	max	function
getfontdimen	function	nextid	function
getfontfields	function	setfont	function
getfontspec	function	setfontdimen	function
getmathcharacterfields	function	xscaled	function
getmathindex	function	yscaled	function

fonts (context)

analyzers	table	E hoforonassingfonttotov
D features	table	F beforepassingfonttotex D cache
D initializers		F calculatescale
D methods		F checkedfeatures
F setstate		F checkedfilename
D states B useunicodemarks		F collectprocessors F currentfonthasfeature
callbacks	table	
	table	D designsizes
F compile F devirtualize		F enhanceparameters T enhancers
checkers	table	T afm
F getmissing	table	
		F apply
D mapping		F patch
F missing		T patches
F placeholder cid	table	F register
	table	F report
F getmap		F register
F loadfile collections	table	F report
	table	T otf
F checkenabled		F addfeature
F clonevector		F apply
F define		F enhance
T definitions		F patch
F direct		T patches
F found		F register
F prepare		F report
F process		F register
F register		F report
F registermain		T tfm
F report		F apply
F reset		F patch
T rscales		T patches
T vectors	+	F register
constructors	table	F report
F addcharacters		F register
F addcoreunicodes		F report
F aftercopyingchara	cters	N factor
F applyfinalizers		T features
F applymanipulators		D afm
F assignmathparamete		D otf
F beforecopyingchara	acters	D tfm

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

Dadfaak	T. acadebased lane
D pdfcache	T gsubhandlers
F plugininitializer	F alternate
F pluginprocessor	F chainedcontext
T plugins	F context
T text	F extension
D pngcache	F ligature
B pngenabled	F multiple
T readers	F reversechainedcontextsingle
F addunicodetable	F single
F avar	F gvar
F cbdt	F head
F cblc	T helpers
F cff	F axistofactors
F cff2	F cleanname
T cffencoder	F getaxisscale
F checkhash	F getfactors
F cmap	F getscales
F colr	F gotodatatable
F compact	F normalizedaxis
F condense	T normalizedaxishash
F cpal	F readvariationdata
F dsig	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 potracetocff
F marktoligature	F registerextender
F marktomark	F rehash
F pair	F sbix
F single	F stat
F gsub	T streamreader
•	

F close F writecardinal1 F getposition F writecardinal1le F getsize F writecardinal2 F look F writecardinal2le F open F writecardinal3 F read2dot14 F writecardinal3le F readbyte F writecardinal4 F writecardinal4le F readbytes F readbytetable F writeinteger1 F readcardinal F writeinteger1le F readcardinal1 F writeinteger2 F readcardinal1le F writeinteger2le F readcardinal2 F writeinteger3 F readcardinal2le F writeinteger3le F readcardinal3 F writeinteger4 F readcardinal3le F writeinteger4le F readcardinal4 F writestring F readcardinal4le F stripredundant F readcardinaltable F svg F readchar N tableversion F readcline F unifvmissina F readcstring F unpack F readfixed2 F vhea F readfixed4 F vmtx F readinteger F vora 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 T statistics F readintegertable D usedfeatures F readsignedbyte F readstring D sygcache B sygenabled F readtag T tables F setposition F size D baselines F skip D features D featuretypes F skiplong F skipposition D languages F skipshort D scripts F writebyte F texthandler

T vectors	F combine	
T arab	T combiner	
T gpos	D commands	
N curs	D helpers	
N kern	D math	
N mark	D predefined	
N mkmk	N version	
T gsub	D whatever	
N calt	F hashfeatures	
N ccmp	F hashinstance	
N cswh	T hashmethods	
N dlig	F normal	
N fina	F virtual	
N init	F initializefeature	S
N isol	D loadedfonts	
N liga	N noffontsloaded	
N medi	N nofsharedfonts	
N mset	N nofsharedhashes	
N rclt	N nofsharedvectors	
N rlig	N privateoffset	
N version	D privateslots	
pfb	F readanddefine	
F filterencoding	F registerfeature	
F filtermetadata	F registerscriptset	
F loadvector	F resetfeature	
N version	B resolvevirtualtoo	
tfm	F scale	
D cache	F scaled	
D features	F setfactor	
N maxnestingdepth	F setfeature	
N maxnestingsize	F setmathparameter	
T readers	F setname	
F loadpk	B sharefonts	
F loadtfm	F trytosharefont	
F loadtfmvf	N version	
F loadvf	current	function
F pktopdf	currentid	function
F potracedtopdf	definers	table
F showpk	F addlookup	
F reencode	F analyze	
F setfeatures	F applypostprocesso	rs
N version	F checkedmode	
vf	F checkedscript	
T combinations	S defaultlookup	
	•	

Т

Т

Т

F define		enhanceid	function
F getspecification		expansions	data table
F internal		formats	data table
F loadfont		getalternate	function
F makespecification		getindices	function
T methods		getkern	function
F install		getmultiple	function
D variants		getsubstitution	function
F read		getters	table
F register		T alternate	
F registered		F opentype	
F registerfallbackf	ont	T kern	
F registersplit		F opentype	
F resetnullfont		F type1	
F resolve		F type3	
T resolvers		T multiple	
F file		F opentype	
F name		T substitution	
F spec		F opentype	
definetypeface	function	goodies	table
dropins	table	D colorschemes	
F clone		T data	
F getshape		T common-math.lf	9
F getshapes		S author	
F nextid		S comment	
F provide		S copyright	
F registerglyph		B initialized	
F registerglyphs		T mathematics	
F swap		T tweaks	
F swapone		T presets	
effects	table	F addmathk	erns
encodings	table	F braille	
T agl		F eulertoc	alligraphic
D ctxcodes		F fallback	S
D extras		F modernto	calligraphic
D synonyms		F moveinte	grals
D unicodes		F moveital	ics
D cache		F pagellar	adical
F is_known		F rsfstoso	ript
D known		F rsfsupri	ghttoscript
F load		F scriptto	calligraphic
F make_unicode_vect	or	F smalldig	its
D math		F wipeanch	ors
N version		F wipeital	ics

F xitsarabic	D filenames	
S name	F getcompositions	
S version	T list	
T dejavu-math	F load	
S author	F prepare features	
S comment	F register	
S copyright	F registerpostproces	sor
B initialized	F report	
T mathematics	T suffixes	
T alternates	handlers	table
T dotless	hashes	table
S comment	D characters	
S feature	D classes	
N value	D csnames	
T bigslots	D descriptions	
T parameters	D dynamics	
N AccentBaseDepth	D emwidths	
N AccentTopShiftUp	D exheights	
N DelimiterDisplayPercent	D features	
N DelimiterDisplayShortfall	D identifiers	
N DelimiterPercent	D italics	
N DelimiterShortfall	D lastmathids	
N DisplayOperatorMinHeight	D marks	
N FlattenedAccentTopShiftUp	D mathparameters	
N FractionRuleThickness	D modes	
S PrimeBaselineDropMax	D originals	
S PrimeShiftUp	D parameters	
S PrimeShiftUpCramped	T processes	
N SubscriptShiftDown	D properties	
S SubscriptShiftDownWithSuperscript	D quads	
N SuperscriptShiftUp	D resources	
T tweaks	T setdynamics	
T aftercopying	T shapes	
S name	D spaces	
S version	D spacings	
T dejavu-text	T streams	
S author	D unicodes	
S comment	D unislots	
S copyright	D variants	
T extensions	D xheights	
B initialized	helpers	table
S name	F addextraprivate	
S version	F addprivate	
D designsizes	F appendcommands	

F	appendcommandtable	F startcolor	
	checkflags	F stopcolor	
	checkmerge	T vfspecials	
	checksteps	T backgrounds	
	collectanchors	T outlines	
	combineglyphs	infofont	function
	commands	iterators	table
	composecharacters	F characters	cabic
	descriptiontoslot	F descriptions	
	dimenfactor	F glyphs	
	expandglyph	loggers	table
	extraprivates	F format	cabic
	fontpatternhassize	F onetimemessage	
	getcoloredglyphs	F register	
	getdigitwidth	F reportdefinedfonts	
	getinstancespec	F reportusedfeatures	
	getparameters	mappings	table
	getprivatecharornode	F addtounicode	
	getprivatenode	F fromunicode16	
F	getprivates	F getentry	
F	getprivateslot	F loadfile	
	glyphdimenfactor	F loadline	
F	hasprivate	F makenameparser	
F	indextoslot	D overloads	
F	isprivate	F reset	
F	mathscriptslots	F tounicode	
F	name	F tounicode16	
F	nametoslot	F tounicode16sequence	e
F	newprivateslot	metapost	table
F	prependcommands	F baseline	
F	prependcommandtable	F boundingbox	
F	privateslot	F boxtomp	
F	registerglyphbox	F draw	
F	scalecommands	F fill	
F	setboxdirectly	F glyph	
F	setboxglyph	F maxbounds	
F	setboxglyphs	F paths	
F	setdigitwidth	F widthline	
F	setmetaglyph	F zeroline	
F	setmetaglyphs	mode	function
D	sharedprivates	names	data table
F	splitfontpattern	nulldata	data table
F	tochar	privateoffsets	table
Т	vfinjectors	B keepnames	

N mathbase		F registerfontalternative	
N mathextrabase		F registerfontfamily	
N textbase		F textfallback	
N textextrabase		F typeface	
orotrusions	data table	F typescript	
readers	table	F userdata	
Fafm		specifiers table	
F check_lua		D contextmerged	
F check_tfm		F contextnumber	
F lua		D contextnumbers	
F ofm		D contextsetups	
F opentype		F contexttostring	
F otf		F definecontext	
F pfb		F mergecontext	
D sequence		F presetcontext	
F tfm		F registercontext	
F ttc		T scriptsets	
F ttf		T af	
F woff		S language	
registersanitizer	function	N number	
reserveid	function	S script	
select	table	T always	
D alternatives		S autolanguage	
F bodyfont		S autoscript	
D data		B checkmissing	
F default		B curs	
D defaults		B kern	
F definefallbackfami	ly	B mark	
F definefontfamily		B mkmk	
F definefontfamilypr	eset	S mode	
D extras		N number	
F fallback		S script	
D fallbacks		S textcontrol	
F features		B wipemath	
F filefallback		T arabic	
F fontdata		B analyze	
F fontfallback		S autolanguage	
F fontsynonym		S autoscript	
F goodies		B calt	
F mathfallback		В сстр	
D methods		B clig	
D presets		B curs	
F registerfallback		B dlig	
F registerfiles		B fina	

B init	S script
B isol	B vatu
B kern	T bengali-two
S language	B abvm
B liga	B abvs
B mark	B akhn
B medi	B blwf
B mkmk	B blwm
S mode	B blws
N number	B calt
B rlig	B cjct
S script	B dist
T ba	B half
S language	B haln
N number	S indic
S script	B init
T bandw:overlay	B kern
В сстр	S language
B dist	B locl
N number	S mode
T bengali-one	B nukt
B abvm	N number
B abvs	B pres
B akhn	B pstf
B blwf	B psts
B blwm	B rphf
B blws	S script
B calt	B vatu
B cjct	T boldened
B dist	S effect
B half	N number
B haln	T boldened-10
S indic	S effect
B init	N number
B kern	T boldened-15
S language	S effect
B locl	N number
S mode	T boldened-20
B nukt	S effect
N number	N number
B pres	T boldened-25
B pstf	S effect
B psts	N number
B rphf	T boldened-30

S effect	N number
N number	S script
T ca	S textcontrol
S language	B wipemath
N number	Тсу
S script	S language
T camelcasing	N number
B camelcasing	S script
N number	T cz
T cn	S language
S language	N number
N number	S script
S script	T de
T color	S language
В сстр	N number
S color	S script
B dist	T default
N number	S autolanguage
T color:bitmap	S autoscript
В сстр	B checkmissing
B dist	B curs
N number	B itlc
B sbix	B kern
T color:overlay	B liga
B ccmp	B mark
B colr	B mkmk
B dist	S mode
N number	N number
T color:svg	S script
B ccmp	S textcontrol
B dist	B wipemath
N number	T deo
B svg	S language
T complete	N number
S autolanguage	S script
S autoscript	T devanagari-one
B checkmissing	B abvm
B compose	B abvs
B curs	B akhn
B kern	B blwf
B liga	B blwm
B mark	B blws
B mkmk	B calt
S mode	B cjct

В	dist		N number
В	half		B unicoding
В	haln	Т	es
S	indic		S language
В	kern		N number
S	language		S script
В	locl	Т	et
S	mode		S language
В	nukt		N number
N	number		S script
В	pres	Т	f:fractions
В	psts		B frac
В	rkrf		N number
В	rphf	Т	f:inferiors
S	script		N number
В	vatu		B subs
Τc	levanagari-two	Т	f:kern
В	abvm		B kern
В	abvs		N number
В	akhn	Т	f:kerns
В	blwf		B kern
В	blwm		N number
В	blws	Т	f:oldstyle
В	calt		N number
В	cjct		B onum
В	dist	Т	f:smallcaps
В	half		N number
В	haln		B smcp
S	indic	Т	f:superiors
В	kern		N number
S	language		B sups
В	locl	Т	f:tabular
S	mode		N number
В	nukt		B tnum
N	number	Т	fi
В	pres		S language
В	psts		N number
В	rkrf		S script
В	rphf	Т	followtext
S	script		B liga
В	vatu		N number
T c	lingbats	Т	fr
S	goodies		S language
S	mode		N number

Carrint	D. cict
S script	B cjct
T fullprotrusion	B dist
N number	B half
S protrusion	B haln
T gr	S indic
S language	B kern
N number	S language
S script	B locl
T grek	S mode
N number	B nukt
S script	N number
Γ gujarati-one	B pres
B abvm	B psts
B abvs	B rkrf
B akhn	B rphf
B blwf	S script
B blwm	B vatu
B blws	T gurmukhi-one
B calt	B abvm
B cjct	B abvs
B dist	B akhn
B half	B blwf
B haln	B blwm
S indic	B blws
B kern	B calt
S language	B cjct
B locl	B dist
S mode	B half
B nukt	B haln
N number	S indic
B pres	B kern
B psts	S language
B rkrf	B locl
B rphf	S mode
S script	B nukt
B vatu	N number
T gujarati-two	B pres
B abvm	B pstf
B abvs	B psts
B akhn	B rphf
B blwf	S script
B blwm	B vatu
B blws	T gurmukhi-two
B calt	B abvm

	В	abvs		В	rlig
	В	akhn		S	script
	В	blwf	Т	h	r
	В	blwm		S	language
	В	blws		N	number
	В	calt		S	script
	В	cjct	Т	h	u
	В	dist		S	language
	В	half		N	number
	В	haln		S	script
	S	indic	Т	i	ndic-common
	В	kern		В	abvm
	S	language		В	abvs
	В	locl		В	akhn
	S	mode		В	blwm
	В	nukt		В	blws
	N	number		В	calt
	В	pres		В	dist
	В	pstf		В	haln
	В	psts		S	indic
	В	rphf		В	kern
	S	script		S	language
	В	vatu		В	locl
Т	h	ebrew		S	mode
	В	analyze		В	nukt
	S	autolanguage		N	number
	S	autoscript		В	pres
	В	calt		В	psts
	В	сстр		В	rphf
	В	clig	Т	i	nlinenumbers
	В	curs		N	number
	В	dlig		В	pnum
	В	fina		В	tnum
	В	init	Т	i	S
	В	isol		S	language
	В	kern		N	number
	S	language		S	script
	В	liga	Т	i	
		mark			language
		medi			number
		mkmk			script
		mode	Т	j	
		number			language
	В	reordercombining		N	number

S script	B dist
T jamoforms	B half
B ljmo	B haln
N number	S indic
B tjmo	B kern
B vjmo	S language
T just-os	B locl
S mode	S mode
N number	B nukt
B onum	N number
T kannada-one	B pref
B abvm	B pres
B abvs	B pstf
B akhn	B psts
B blwf	B rphf
B blwm	S script
B blws	T la
B calt	S language
B cjct	N number
B dist	S script
B half	T latn
B haln	N number
S indic	S script
B kern	T letterspacing
S language	В сстр
B locl	B clig
S mode	B dlig
B nukt	S keepligatures
N number	B liga
B pref	N number
B pres	B rlig
B pstf	T ligatures
B psts	S autolanguage
B rphf	S autoscript
S script	B checkmissing
T kannada-two	B curs
B abvm	B kern
B abvs	B liga
B akhn	B mark
B blwf	B mkmk
B blwm	S mode
B blws	N number
B calt	S script
B cjct	S textcontrol

B wipemath	S indic
T lm-math-bold	B kern
S effect	S language
N number	B locl
T lowercasing	S mode
B lowercasing	B nukt
N number	N number
T malayalam-one	B pref
B abvm	B pres
B abvs	B pstf
B akhn	B psts
B blwf	B rphf
B blwm	S script
B blws	T math
B calt	B compactmath
B cjct	B flattenaccents
B dist	B kern
B half	S language
B haln	B mathalternates
S indic	S mathexpansion
B kern	S mode
S language	N number
B locl	S script
S mode	B ssty
B nukt	B wipemath
N number	T math-script
B pref	B compactmath
B pres	B flattenaccents
B pstf	B kern
B psts	S language
B rphf	B mathalternates
S script	S mathexpansion
「malayalam-two	S mode
B abvm	N number
B abvs	S script
B akhn	N ssty
B blwf	B wipemath
B blwm	T math-scriptscript
B blws	B compactmath
B calt	B flattenaccents
B cjct	B kern
B dist	S language
B half	B mathalternates
B haln	S mathexpansion
	,

S mode	S mode
N number	S mset
S script	N number
N ssty	B rclt
B wipemath	B rlig
T math-text	S script
B compactmath	S textcontrol
B flattenaccents	B wipemath
B kern	T nl
S language	S language
B mathalternates	N number
S mathexpansion	S script
S mode	T none
N number	B features
S script	S mode
B ssty	N number
B wipemath	T oldstyle
T mathematics	S autolanguage
B compactmath	S autoscript
B flattenaccents	B checkmissing
B kern	B curs
S language	B kern
B mathalternates	B liga
S mathexpansion	B mark
S mode	B mkmk
N number	S mode
S script	N number
B wipemath	B onum
T mixed	S script
T mongolian	S textcontrol
S autolanguage	B wipemath
S autoscript	T oldstylenumbers
B calt	N number
B checkmissing	B onum
B curs	T original
B fina	S autolanguage
B init	S autoscript
B isol	B checkmissing
B itlc	B curs
B kern	B itlc
B liga	B kern
B mark	B liga
B medi	B mark
B mkmk	B mkmk

9	5 mode	B nukt
Ν	I number	N number
9	script	B pres
9	5 textcontrol	B pstf
Е	B wipemath	B psts
Т	oriya-one	B rphf
Е	3 abvm	S script
Е	3 abvs	T pl
Е	3 akhn	S language
Е	3 blwf	N number
Е	3 blwm	S script
Е	3 blws	T primes
Е	3 calt	N number
Е	3 cjct	B primes
Е	3 dist	T pt
Е	3 haln	S language
9	indic	N number
Е	3 kern	S script
9	i language	T quality
Е	3 locl	S expansion
9	5 mode	N number
Е	3 nukt	S protrusion
Ν	I number	T reordercombining
Е	B pres	N number
Е	B pstf	B reordercombining
Е	B psts	T ro
Е	3 rphf	S language
9	script	N number
Т	priya-two	S script
Е	3 abvm	T ru
Е	3 abvs	S language
Е	3 akhn	N number
Е	3 blwf	S script
Е	3 blwm	T semitic-complete
Е	3 blws	B analyze
	3 calt	S autolanguage
	3 cjct	S autoscript
	3 dist	B calt
	3 haln	В сстр
	indic :	B clig
	3 kern	B curs
	Slanguage	B dlig
	3 locl	B fina
9	5 mode	B init

B isol	N number
B kern	B rlig
S language	S script
B liga	T simplehebrew
B mark	B analyze
B medi	S autolanguage
B mkmk	S autoscript
S mode	B calt
N number	B ccmp
B rlig	B curs
T semitic-simple	B fina
B analyze	B init
S autolanguage	B isol
S autoscript	B kern
B calt	S language
В сстр	B mark
B curs	B medi
B fina	B mkmk
B init	S mode
B isol	N number
B kern	B rlig
S language	S script
B mark	T sk
B medi	S language
B mkmk	N number
S mode	S script
N number	T sl
B rlig	S language
B rlig T simplearabic	S language N number
T simplearabic	N number
T simplearabic B analyze	N number S script
T simplearabic B analyze S autolanguage	N number S script T slanted
T simplearabic B analyze S autolanguage S autoscript	N number S script T slanted N number
T simplearabic B analyze S autolanguage S autoscript B calt	N number S script T slanted N number N slant
T simplearabic B analyze S autolanguage S autoscript B calt B ccmp	N number S script T slanted N number N slant T smallcaps
T simplearabic B analyze S autolanguage S autoscript B calt B ccmp B curs	N number S script T slanted N number N slant T smallcaps S autolanguage
T simplearabic B analyze S autolanguage S autoscript B calt B ccmp B curs B fina	N number S script T slanted N number N slant T smallcaps S autolanguage S autoscript
T simplearabic B analyze S autolanguage S autoscript B calt B ccmp B curs B fina B init	N number S script T slanted N number N slant T smallcaps S autolanguage S autoscript B checkmissing
T simplearabic B analyze S autolanguage S autoscript B calt B ccmp B curs B fina B init B isol	N number S script T slanted N number N slant T smallcaps S autolanguage S autoscript B checkmissing B curs
T simplearabic B analyze S autolanguage S autoscript B calt B ccmp B curs B fina B init B isol B kern	N number S script T slanted N number N slant T smallcaps S autolanguage S autoscript B checkmissing B curs B kern
T simplearabic B analyze S autolanguage S autoscript B calt B ccmp B curs B fina B init B isol B kern S language	N number S script T slanted N number N slant T smallcaps S autolanguage S autoscript B checkmissing B curs B kern B mark
T simplearabic B analyze S autolanguage S autoscript B calt B ccmp B curs B fina B init B isol B kern S language B mark	N number S script T slanted N number N slant T smallcaps S autolanguage S autoscript B checkmissing B curs B kern B mark B mkmk
T simplearabic B analyze S autolanguage S autoscript B calt B ccmp B curs B fina B init B isol B kern S language B mark B medi	N number S script T slanted N number N slant T smallcaps S autolanguage S autoscript B checkmissing B curs B kern B mark B mkmk S mode

B smcp	T tamil-one
S textcontrol	B abvm
B wipemath	B abvs
T sv	B akhn
S language	B blwm
N number	B blws
S script	B calt
T syriac	B dist
B analyze	B half
S autolanguage	B haln
S autoscript	S indic
B calt	B kern
В сстр	S language
B clig	B locl
B curs	S mode
B dlig	B nukt
B fin2	N number
B fin3	B pref
B fina	B pres
B init	B psts
B isol	B rphf
B kern	S script
S language	T tamil-two
B liga	B abvm
B mark	B abvs
B med2	B akhn
B medi	B blwm
B mkmk	B blws
S mode	B calt
N number	B dist
B rlig	B half
S script	B haln
T system:tabnum	S indic
B lnum	B kern
N number	S language
B tnum	B locl
T tabledigits	S mode
N number	B nukt
B tabledigits	N number
B tnum	B pref
T tabularnumbers	
	B pres
N number	B pres B psts
N number	B psts

T telugu-one	B pref
B abvm	B pres
B abvs	B pstf
B akhn	B psts
B blwf	B rphf
B blwm	S script
B blws	T th
B calt	S language
B cjct	N number
B dist	S script
B half	T tibetan
B haln	B abvm
S indic	B abvs
B kern	S autolanguage
S language	S autoscript
B locl	B blwm
S mode	B blws
B nukt	B calt
N number	В сстр
B pref	B checkmissing
B pres	B curs
B pstf	B kern
B psts	S language
B rphf	B liga
S script	B locl
T telugu-two	B mark
B abvm	B mkmk
B abvs	S mode
B akhn	N number
B blwf	S script
B blwm	S textcontrol
B blws	B wipemath
B calt	T tr
B cjct	S language
B dist	N number
B half	S script
B haln	T uk
S indic	S language
B kern	N number
S language	S script
B locl	T uppercasing
S mode	N number
B nukt	B uppercasing
N number	T us

S language	F showcontext	
N number	F splitcontext	
S script	D synonyms	
T virtualmath	D variants	
B compactmath	symbols	table
B flattenaccents	T emoji	
B kern	F checked	
S language	F resolved	
B mathalternates	F uselibrary	
S mathexpansion	tables	table
S mathexpansion S mode	tables toeffect	table function
•		
S mode	toeffect	function
S mode N number	toeffect tracers	function table
S mode N number S script	toeffect tracers treatments	function table
S mode N number S script B wipemath	toeffect tracers treatments F applyfixes	function table
S mode N number S script B wipemath T vn	toeffect tracers treatments F applyfixes D data	function table
S mode N number S script B wipemath T vn S language	toeffect tracers treatments F applyfixes D data S filename	function table

N number B zero

functions (context)

dummy function

graphics (context)

backgrounds F fetchmultipar F pair F path	table	identify registerpdfcompactor registerpdffont synchronizers	function function function table
F point bitmaps	table	F collapse F collect	
F flush		F extend	
F new		F getbottom	
F placeholder		F getd	
F tocontext		F geth	
bpsize	function	F getkind	
colorspaces	table	F getsize	
identifiers	table	F gettask	
F bitmap		F gettop	
F jp2		F getw	
F jpeg		F getx	
F jpg		F gety	
F png		F prune	

gzip (context)

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

helper (context)

getprofile	function	snaplist	function
mathnested	function	traversecharmethod	function
mathprocess	function	traverseglyphmethod	function
mathstep	function	traversehorizontal	function
snapindeed	function	traversevertical	function

images (context)

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

interactions (context)

attachments data table fields table F clone F define F defineset F insert general table F getidentity F getidentityvariable help table F collect F reference F register javascripts table

F addtopreamble

F flushpreambles

F code

D codes

D functions D preambles F setpreamble F storecode F storepreamble F usepreamblenow F usescripts linkedlists data table pages table F setpagetransition F setupcanvas table references F setclosedocumentaction F setclosepageaction F setopendocumentaction F setopenpageaction

interfaces (context)

arrays	table	namesofscanners	table
cachedsetups	data table	namespaces	table
cachesetup	function	F define	table
cardinals	table	r derine F list	
		numbers	table
checkedspecification			20020
complete	data table	registernamespace	function
constants	data table	registerscanner	function
corenamespaces	data table	scanners	data table
currentinterface	string	setconstant	function
currentresponse	string	setcount	function
definecommand	function	setdimen	function
defined	function	setelement	function
doifelsemessage	function	setformat	function
elements	data table	setmacro	function
floats	table	setmessage	function
formats	data table	setmessages	function
getmessage	function	settranslation	function
getnamespace	function	setupstrings	data table
getsetupstring	function	setvariable	function
hashedsetups	data table	showmessage	function
implement	function	storedscanners	data table
integers	table	tolist	function
interfacedcommand	function	translations	data table
interfaces	table	usednamespaces	data table
knownscanner	function	variables	data table
message	function	writestatus	function
nameofscanner	function		

io (basic lua)

ask	function	open	overloaded function
bytes	function	output	overloaded function
characters	function	pathseparator	string
close	function	popen	overloaded function
copydata	function	read	function
exists	function	readall	function
fileseparator	string	readnumber	function
flush	function	readstring	function
gobble	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
newreader	function	type	function
noflines	function	write	function

job (context)

comment	function	D collected	
datasets	table	F countervalue	
D collected		F extend	
F extend		F realpage	
F getdata		F realpageorder	
F setdata		F setstate	
D tobesaved		D tobesaved	
disablesave	function	parwrappers	table
embedded	table	D collected	
D collected		D tobesaved	
D tobesaved		positions	table
fileobjreferences	table	F b_column	
D collected		F b_region	
D tobesaved		Fc	
files	table	D collected	
D collected		F column	
F context		F columnofpos	
B forcerun		F copy	
F run		F depth	
D tobesaved		F e_column	
getrandomseed	function	F e_region	
initialize	function	F enhance	
linkedlists	table	F extra	
D collected		F get	
D tobesaved		F getcolumndata	
load	function	F getfree	
loadother	function	F gethpos	
meshedup	table	F gethvrpos	
D collected		F getpos	
D tobesaved		F getreserved	
objects	table	F getrpos	
D collected		F getsync	
F get		F gettobesaved	
F number		F getvpos	
F page		F hangafter	
F save		F hangindent	
F set		F height	
D tobesaved		F hsize	
pack	boolean	N lastr	
packversion	number	N lastx	
pagestates	table	N lasty	

F leftskip	F whd	
F lowerleft	F width	
F lowerright	F x	
F markregionbox	F xy	
Fn	Fy	
F onsamepage	register	function
F overlapping	save	function
F p	structure	table
F page	D collected	
F paragraph	T components	
F parindent	T namestack	
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	D tobesaved	

F upperright

F used

version

number

language (basic tex)

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

languages (context)

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

transliteration F exception F handler	table	version visualizediscretionaries words	number function table
F register		F check	
F set		T data	
F use		F disable	
unload	function	F enable	
urls	table	T enablers	
D characters		B enables	
N lefthyphenmin		F found	
D mapping		F load	
B packslashes		T methods	

N threshold

N righthyphenmin

F setcharacters

layouts (context)

function getcanvas status getpagedimensions function F isleftpage setupcanvas function

table

F leftorrightpageaction

lfs (extra lua)

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

libraries (context)

basiclua	data table	extratex	data table
basictex	data table	functions	data table
builtin	data table	globals	data table
extralua	data table	optional	data table

lmx (context)

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

F a F td F th

include function
inherited table

S color-background-four

S color-background-one

S color-background-three

S color-background-two

S title

initialize function
inject function

lmxfile function loadedfile function make function new function popupfile function function print pν function function report reset function result function set function show function stripcss function tν 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
finalactions	function	settarget	function
flush	function	settimedlog	function
loggingerrors	function	settranslations	function
messenger	function	show	function
new	function	start_page_number	function
newline	function	start_run	function
poplogfile	function	starterrorlogging	function
poptarget	function	startfilelogging	function
private	table	status	function
F enablepagetiming		stop_page_number	function
F getpagetiming		stoperrorlogging	function
pushlogfile	function	stopfilelogging	function
pushtarget	function	subdirect	function
registerfinalactions	function	subreport	function
report	function	system	function
reporter	function	texerrormessage	function
resetlogfile	function	writer	function

lpdf (context)

action	function	copystring	function
adddocumentcolorspace	function	copyunicode	function
adddocumentextgstate	function	deferredobject	function
adddocumentpattern	function	delayedobject	function
adddocumentshade	function	destinationspecification	function
addtocatalog	function	dictionary	function
addtoinfo	function	docstring	function
addtonames	function	encodingvalues	table
addtopageattributes	function	N base16	
addtopageresources	function	N base85	
addtopagesattributes	function	N decoded	
addxmpinfo	function	N encoded	
annotationspecification	function	N plain	
array	function	N utf16be	
attachmentsymbols	function	N utf16le	
boolean	function	epdf	table
border	function	F allcontent	
checkedkey	function	F analyzefonts	
checkedresources	function	F contentplugin	
checkedvalue	function	F contenttostring	
circularshade	function	F contenttotext	
close	function	D encryptioncodes	
cmykcode	function	F expanded	
collectedresources	function	F expandwidths	
color	function	F fontplugin	
colorspace	function	F getpagecontent	
colorspaceconstants	data table	F getstructure	
colorspec	function	T helpers	
colorvalue	function	F tounicodetable	
colorvalues	function	T image	
commentsymbols	function	F close	
compressdata	function	F copy	
compresslevel	function	F new	
constant	function	F open	
copyarray	function	F query	
copyboolean	function	F load	
copyconstant	function	F mergewidths	
copydictionary	function	D objectcodes	
copyfloat	function	F objectrange	
copyinteger	function	F objecttype	
copynumber	function	F pageplugin	

F parsecontent		N Password	
F producer		N PopUp	
T resolvers		N PushButton	
F destinations		N Radio	
F embeddedfiles		N RadiosInUnison	
F javascripts		N ReadOnly	
F layers		N Required	
F pages		N RichText	
F structure		N Sort	
F widgets		N file	
F unload		N fixed	
F verboseobject		N nocheck	
escaped	function	N protected	
finalizedocument	function	N readonly	
finalizepage	function	N required	
finalizesignature	function	N sorted	
finishtransparencycode	function	N unavailable	
flags	table	flushfonts	function
T annotations		flushgroup	function
N AutoView		flushobject	function
N Hidden		flushstreamfileobject	function
N Invisible		flushstreamobject	function
N Locked		fonts	table
N LockedContents		F color_direct	
N NoRotate		F color_indirect	
N NoView		formats	data table
N NoZoom		frombytes	function
N Print		fromeight	function
N Printable		frompdfdoc	function
N ReadOnly		fromsixteen	function
N ToggleNoView		getcatalog	function
N auto		getcompression	function
N hidden		getfontname	function
N printable		getfontobjectnumber	function
T widgets		getformatoption	function
N Comb		getinfo	function
N CommitOnSelChange		getmatrix	function
N DoNotScroll		getnofpages	function
N DoNotSpellCheck		getpageproperties	function
N Edit		getpagereference	function
N FileSelect		getpagetags	function
N MultiLine		getpos	function
N NoExport		gettrailerid	function
			£ 1

N NoToggleToOff

getversion

function

getxformname	function	N assemble	
graycode	function	N extract	
h_hex_2	table	N fillin	
S		N modify	
S		N print	
S		N quality	
S		preparesignature	function
S		print	function
S (procset	function
S)		protectresources	boolean
S \		quads	function
h_hex_4	table	rectangle	function
hasmatrix	function	reference	function
immediateobject	function	registerannotation	function
includeimage	function	registerdestination	function
initialize	function	registerdocumentfinalizer	function
injectors	table	registerfontmethod	function
F bitmap		registerinitializer	function
F jp2		registerpagefinalizer	function
F jpg		registerpattern	function
F png		registersignature	function
injectxmpinfo	function	replacexmpinfo	function
insertxmpinfo	function	reserveobject	function
lastreferredpage	function	rgbcode	function
layerreference	function	rotationcm	function
limited	function	setcompression	function
linearshade	function	setencryption	function
literal	function	setpageorder	function
majorversion	function	setpagestate	function
makenametree	function	setpagetag	function
minorversion	function	setversion	function
noffontregistries	function	sharedobject	function
nofpages	function	shareobject	function
null	function	shareobjectreference	function
number	function	spotcode	function
object	function	stream	function
objectcompresslevel	function	string	function
pagereference	function	supportedformats	function
patternstream	function	tocidset	function
pdfcolor	function	toeight	function
pdftimestamp	function	topdfdoc	function
permissions	table	topermissions	function
N access		tosixteen	function
N add		transparency	function

ble
n

lpeg (basic lua)

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

lua (basic tex)

addnibble	function	getruntime	function
bytecode	table	getstacktop	function
bytedata	data table	getstartupfile	function
bytedone	table	getstringkeys	function
callbytecode	function	getversion	function
comparekeys	function	lastbytecode	number
finalizeinitex	function	messages	data table
firstbytecode	number	newindex	function
get_functions_table	function	newtable	function
getallkeys	function	numbers	data table
getbytecode	function	registercode	function
getcheckedkeys	function	registeredcodes	function
getcurrenttime	function	registerinitexfinalizer	function
getdebuginfo	function	registername	function
getexitcode	function	setbytecode	function
getfunctionstable	overloaded function	setexitcode	function
getnibble	function	setnibble	function
getnumerickeys	function	startupfile	string
getpreciseseconds	function	subnibble	function
getpreciseticks	function	version	string

luac (extra lua)

inspect function
print function

luatex (context)

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

F blockfilename wrapup function

F collect

lxml (context)

		-1	
addindex	function	filter	function
all	function	filterlist	function
applyfunction	function	first	function
applyselectors	function	flush	function
att	function	flushlinewise	function
attribute	function	flushsetups	function
badinclusions	function	flushspacewise	function
chainattribute	function	get_id	function
checkindex	function	getid	function
collected	function	getindex	function
command	function	id	function
concat	function	idsplitter	userdata
concatrange	function	ifatt	function
content	function	ifattempty	function
context	function	include	function
convert	function	inclusion	function
count	function	inclusions	function
delete	function	index	function
depth	function	inlineverbatim	function
direct	function	installsetup	function
directives	table	last	function
F after		lastatt	function
F before		lastmatch	function
F handle		lastpar	function
F load		load	function
F setup		loadbuffer	function
displayverbatim	function	loaddata	function
doif	function	loaded	table
doifelse	function	main	function
doifelseempty	function	match	function
doifelsetext	function	name	function
doifempty	function	namespace	function
doifnot	function	nonspace	function
doifnotempty	function	par	function
doifnottext	function	param	function
doiftext	function	parameter	function
element	function	path	function
elements	function	popmatch	function
entities	data table	pos	function
fileline	function	position	function

pushmatch	function	sorters	table
raw	function	F add	
rawroot	function	F compare	
rawtex	function	F flush	
refatt	function	F reset	
register	function	F show	
registerentity	function	F sort	
removesetup	function	splitid	function
replace	function	startraw	function
resetcdata	function	startunescaped	function
resetsetups	function	stopraw	function
resolvedentity	function	stopunescaped	function
root	function	store	function
save	function	strip	function
serialize	function	stripped	function
setaction	function	tag	function
setatt	function	texatt	function
setattribute	function	text	function
setcdata	function	tobuffer	function
setcommandtonone	function	tofile	function
setcommandtotext	function	toparameters	function
setpar	function	toverbatim	function
setparam	function	verbatim	function
setparameter	function	withindex	function
setsetup	function	xmltexhandler	data table
snippet	function		

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

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

function

ult

mathematics (context)

addfallbacks	function	familyname	function
addvariant	function	functiontype	function
alphabets	data table	gaps	data table
alternatives	data table	getblobindex	function
beforepassingfonttotex	function	getboth	function
big	function	getdomainname	function
boldmap	data table	getextensibledata	function
categories	table	getmathblob	function
D functions		getoptionallabel	function
charactersets	data table	getstyle	function
checkaftercopyingfont	function	gettextblob	function
classes	data table	getverboselabel	function
classnames	data table	horizontalcode	function
codes	data table	initializeparameters	function
define	function	makefont	function
dictionaries	table	mapremap	data table
D data		markblobindexdone	function
D defaults		overloadparameters	function
D groups		preset	function
F groupset		presets	table
F groupsetgroup		T less	
F name		T more	
D names		T zero	
F registercharacter		privatebase	number
F registergroup		registerextensible	function
F registergroupset		registersimplematrix	function
D sets		registerverboselabel	function
D variants		remapalphabets	function
dimensions	function	renderextensible	function
disablecollecting	function	renderings	table
domainlabels	table	D mappings	
domainnames	table	D numbers	
N default		D sets	
enablecollecting	function	renderset	function
extensiblecode	function	resetattributes	function
extensibles	data table	scaleparameters	function
extrabase	number	setextensibledata	function
fallbacks	table	setmathsymbol	function
F apply		sets	data table
F install		setsnapping	function
fallbackstyleattr	function	setvariant	function

data table styles F fixaccents syncboth function F fixellipses function synchame F fixintegrals function syncstyle F fixoldschool tagging table F fixprimes B mfenced F fixradicals toengineclass function F fixslashes function toname F fixvariants tostyle function F flattenaccents tweakaftercopyingfont function F fontname tweakbeforecopyingfont function F inspect tweaks table F keepbases F accentdimensions F kernpairs F action F kerns F addactuarian T kernsets F addarrows т.. F addbars F margins F addcomposites F message F moveitalics F addequals F movelimits F addfourier F addmirrors F parameters F addparts F radicalbodymargins F addprivates F radicaldegreeanchors F addrules F replace F addscripts F replacealphabets F bigslots F replacerules F checkaccents F setoptions F checkspacing F setovershoots F copyaccents F showinfo T datasets F simplifykerns F sortvariants T accentdimensions T accent F staircase Tover T subsets T under T acenorsuvxz T addarrows T bhklt T addscripts T d T checkspacing T dotless Τf T copyaccents T fixprimes T gjqy T fixslashes T horizontalfences T wipecues Τi F dimensions T integrals F extendaccents T letterlike F fallbacks T mw

Тр	utfmathaccent	function
F substitute	utfmathclass	function
F topanchors	utfmathcommand	function
F tweaks	utfmathfiller	function
F version	utfmathstretch	function
F wipeanchors	variantcode	function
F wipecues	variantcount	function
F wipeitalics	virtualize	function
F wipevariants	virtualized	data table

md5 (extra lua)

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

metapost (context)

checkformat for checktracingonline for cm for codes

function function function table

N addto

N ampersand

N and

N assignment N atleast

N begingroup

N btex

N capsule

N comma

N controls

N curl N cycle

N definedmacro

N delimiters

N endgroup

N equals

N etex

N everyjob

N exittest

N expandafter
N fiorelse

Nif

N input

N interim

N internal

N iteration

N leftbrace

N leftbracket

N leftdelimiter

N let

N macrodef

N macrospecial

N maketext

N message

N mode

N newbytemap

N newinternal

N nullary

N numeric

N of

N ofbinary

N onlyset

N parametertype

N pathconnect

N pathjoin

N plusorminus

N primarybinary

N primarydef

N property

..

N protection

N relax

N repeatloop

N rightbrace

N rightbracket

N rightdelimiter

N runscript

N save

N scantokens

N secondarybinary

N secondarydef

N semicolon

N setbounds

N shipout

N show

N slash

N step

. .

N stop

N str

N string

N tag

N tension

N tertiarybinary

N tertiarydef

N thingstoadd

N to

N typename

N unary

N undefinedcs		getparameter	function
N until		getparameterpreset	function
N void		getparameterset	function
N with		getrecord	function
N within		getstatistics	function
N write		gettext	function
colorinitializer	function	gettolerance	function
convert	function	graphic	function
currentmpx	function	graphic_base_pass	function
currentmpxstatus	function	hascurvature	function
defaultformat	string	includesvgbuffer	function
defaultinstance	string	includesvgfile	function
defaultmethod	string	installplugin	function
directrun	function	isobject	function
escaped	function	knownparameters	table
exectime	table	lastlog	string
extensiondata	data table	load	function
filterclippath	function	maketext	function
flush	function	mesh	function
flushers	table	metafonts	table
T pdf		metafun	table
F flushfigure		F interpolate	
F startfigure		F topath	
F stopfigure		mptopdf	table
F textfigure		F convertmpstopdf	
F tocomment		N nofconverted	
flushnormalpath	function	n	number
fonts	table	newlogger	function
F define		nofruns	number
format_number	function	nofscriptruns	function
format_string	function	nvformat	function
formatnumber	function	pdfliterals	function
getbackendoption	function	pluginactions	function
getbendtolerance	function	popformat	function
getbuffer	function	popscriptrunner	function
getclippath	function	popvariable	function
getextensions	function	popvariables	function
getextradata	function	preparetextextsdata	function
gethashentries	function	process	function
getinstancebyname	function	processing 	function
getinstanceinfo	function	processplugins	function
antinctanconamoc			
getinstancenames	function	properties	table
getinstantenames getjobdata getmovetolerance	function function function	properties pushformat pushscriptrunner	function function

pushvariable	function	N %	
pushvariables	function	N bp	
quitonerror	boolean	N cm	
reducetogray	boolean	N em	
registerdirect	function	N ex	
registerscript	function	N in	
registertokens	function	N mm	
remappedtext	function	N pc	
remaptext	function	N pt	
reporterror	function	N px	
reportsvgfonts	function	svgglyphtomp	function
reset	function	svgshapestomp	function
resetbackendoptions	function	svgshapestopdf	function
resetlastlog	function	svgsplitcolor	function
resetplugins	function	svgtomp	function
run	function	svgtopdf	function
runinternal	function	sxsy	function
runscript	function	tex	table
scanparameters	function	F get	
scriptindex	function	F reset	
setbendtolerance	function	F set	
setbuffer	function	F setfrombuffer	
setextensions	function	texerrors	boolean
setlogging	function	texexp	function
setmovetolerance	function	theclippath	function
setoutercolor	function	tographic	function
setparameter	function	totable	function
setparameterset	function	types	table
setrecord	function	N boolean	
settext	function	N cmykcolor	
settolerance	function	N color	
setvariable	function	N dependent	
showlog	boolean	N independent	
showsvgpage	function	N known	
simple	function	N nep	
splitprescript	function	N numeric	
startgraphic	function	N pair	
startsvghashing	function	N path	
stopgraphic	function	N pen	
stopsvghashing	function	N picture	
svformat	function	N protodependent	
svgcachefile	boolean	N string	
svgcolorremapper	function	N structured	
svgfactors	table	N suffixedmacro	

N tokenlist
N transform
N unknownboolean

N unknownnep

N unknownpen
N unknownpicture

N unknownstring
N unsuffixedmacro

N vacuous

typesvgpage unload untagvariable variables function function function table

mime (context)

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)

autoinject	function	format	function
aux	function	formatted	function
F boolean		fprint	function
F color		get	table
F direct		F hashentry	
F draw		getbytemap	function
F fill		getbytemapdata	function
F flush		getlastaddtype	function
F fprint		graphformat	function
F integer		inject	function
F number		F boolean	
F numeric		F cmykcolor	
F pair		F color	
F pairpoints		F integer	
F path		F number	
F pathpoints		F numeric	
F points		F pair	
F print		F path	
F quadruple		F pt	
F quadruplepoints		F quadruplet	
F quoted		F string	
F size		F transform	
F string		F triplet	
F transform		F vector	
F triplet		F vectors	
F tripletpoints		F whatever	
F vprint		F whd	
boolean	function	F xy	
<pre>bytemap_load_from_file</pre>	function	integer	function
cleaned	function	<pre>lmt_color_functions</pre>	table
color	function	F shade	
dataset	function	F step	
datasets	function	lmt_contours_bitmap_get	function
F load		<pre>lmt_contours_bitmap_set</pre>	function
direct	function	lmt_contours_cleanup	function
draw	function	lmt_contours_color	function
expandtex	function	lmt_contours_edge_get_band	function
fill	function	<pre>lmt_contours_edge_get_cell -</pre>	function
fillbytemap	function	lmt_contours_edge_paths	function
flatten	function	<pre>lmt_contours_edge_set</pre>	function
flush	function	<pre>lmt_contours_edge_set_by_band</pre>	function

<pre>lmt_contours_edge_set_by_cell</pre>	function	mf_blob_dimensions	function
lmt contours format	function	mf blob index	function
lmt_contours_function	function	mf blob new	function
lmt_contours_maxmean	function	mf_blob_raw_content	function
lmt contours maxz	function	mf_blob_raw_dimensions	function
lmt contours minmean	function	mf_blob_raw_reset	function
lmt_contours_minz	function	mf blob raw toutf	function
lmt_contours_nofvalues	function	mf_blob_raw_wipe	function
lmt contours nx	function	mf blob size	function
lmt contours ny	function	mf_blob_width	function
 lmt_contours_range	function	mf_external_figure	function
lmt_contours_shade_paths	function	mf_finish_saving_data	function
lmt_contours_shade_set	function	mf formatted text	function
lmt_contours_shape_paths	function	 mf_get_outline_text	function
lmt_contours_start	function	mf_graphic_text	function
lmt_contours_stop	function	mf_inject_blob	function
lmt_contours_value	function	mf_map_move	function
lmt_contours_xrange	function	mf_map_text	function
lmt_contours_yrange	function	mf_named_color	function
lmt_function_x	function	mf_outline_text	function
lmt_glyphshape_accent	function	mf_save_data	function
<pre>lmt_glyphshape_baseline</pre>	function	mf_script_index	function
<pre>lmt_glyphshape_boundingbox</pre>	function	mf_start_saving_data	function
lmt_glyphshape_depth	function	mf_stop_saving_data	function
lmt_glyphshape_height	function	mode	function
lmt_glyphshape_italic	function	n	function
lmt_glyphshape_llx	function	newbytemap	function
lmt_glyphshape_n	function	number	function
lmt_glyphshape_path	function	numeric	function
lmt_glyphshape_start	function	pair	function
lmt_glyphshape_stop	function	pairpoints	function
lmt_glyphshape_usedbox	function	path	function
<pre>lmt_glyphshape_usedline</pre>	function	pathpoints	function
lmt_glyphshape_width	function	points	function
lmt_mesh_set	function	print	function
lmt_mesh_update	function	F boolean	
<pre>lmt_poisson_generate</pre>	function	F color	
<pre>lmt_start_potrace</pre>	function	F direct	
<pre>lmt_step_potrace</pre>	function	F draw	
lmt_stop_potrace	function	F fill	
lmt_surface_do	function	F flush	
lmt_svg_include	function	F fprint	
mesh_register	function	F integer	
mf_blob_add	function	F number	

F numeric		F next	
F pair		F number	
F pairpoints		F numeric	
F path		F pair	
F pathpoints		F path	
F points		F pen	
F print		F property	
F quadruple		F string	
F quadruplepoints		F symbol	
F quoted		F token	
F size		T tokenscanners	
F string		F transform	
F transform		T typescanners	
F triplet		F whatever	
F tripletpoints		set	table
F vprint		setbytemap	function
processingmode	function	size	function
quadruple	function	skip	table
quadruplepoints	function	F token	
quoted	function	solve	function
report	function	string	function
scan	table	systemmode	function
F boolean		transform	function
F cmykcolor		triplet	function
F color		tripletpoints	function
F expression		vprint	function

F integer

mplib (extra tex)

execute	function	injectpair	function
expandtex	function	injectpath	function
fillbytemap	function	injectstring	function
finder	function	injecttransform	function
finders	table	injectvector	function
F file		injectvectors	function
F mpstemplate		injectwhatever	function
finish	function	new	overloaded function
getbytemap	function	newbytemap	function
getbytemapdata	function	peninfo	function
getcallbackstate	function	propertycodes	table
getcodes	function	realtimelogging	boolean
getcolormodels	function	scanboolean	function
getfields	function	scancmykcolor	function
gethashentries	function	scancolor	function
gethashentry	function	scanexpression	function
getinternalactions	function	scaninteger	function
getknotstates	function	scannext	function
getlastaddtype	function	scannumber	function
getlogtargets	function	scannumeric	function
getobjecttypes	function	scanpair	function
getresultstatus	function	scanpath	function
getscantypes	function	scanpen	function
getstates	function	scanproperty	function
getstatistics	function	scanstring	function
getstatus	function	scansymbol	function
gettolerance	function	scantoken	function
gettype	function	scantransform	function
gettypes	function	setbytemap	function
injectboolean	function	settolerance	function
injectcmykcolor	function	showcontext	function
injectcolor	function	skiptoken	function
injectinteger	function	solvepath	function
injectnumber	function	version	function
injectnumeric	function		

noads (context)

	for all an	_		
getmathmode	function	F	showtree	
handlers	table	F	snap	
F alternates		F	spacing	
F autofences		F	suspicious	
F classes		F	tags	
F collapse		F	unscript	
F dictionaries		F	unstack	
F export		F	variants	
F families		proc	ess	function
F families F fencing		•	ess essnested	
		proc		
F fencing		proc	essnested	function
F fencing F intervals		proc	essnested essors	function
F fencing F intervals F kernpairs		proc proc	essnested essors dictionaries	function
F fencing F intervals F kernpairs F makeup		proc proc T	essnested essors dictionaries intervals	function
F fencing F intervals F kernpairs F makeup F normalize		proc proc T T	essnested essors dictionaries intervals suspicious	function

node (basic tex)

checkdiscretionaries checkdiscretionary copy copylist count currentattributes

dimensions

direct

F addmargins
F addxoffset
F addxymargins
F addyoffset
F appendaftertail
F appendcurrenttail
F beginofmath

F checkdiscretionaries
F checkdiscretionary

F collapsing
F copy
F copylist
F copyonly
F count

F currentattributes
F dimensions
F effectiveglue
F endofmath
F exchange
F fields

F findattribute
F findattributerange
F findnode

F findnode
F firstchar
F firstglyph
F firstglyphnode
F firstitalicglyph
F flattendiscretionaries

F flattenleaders
F flushlist
F flushnode
F free
F freeze

function function

function function

function

F getanchors
F getattribute
F getattributelist
F getattributes

F getboth
F getbottom

F getbottomdelimiter

F getbox

F getcachestate
F getchar
F getchardict
F getcharspec
F getchoice
F getclass
F getcontrol
F getcornerkerns
F getcurrenttail

F getdata
F getdegree
F getdelimiter
F getdenominator
F getdepth
F getdirection
F getdisc
F getdiscpart
F getexcept
F getexpansion
F getfam
F getfield

F getfirstdirectioninlist

F getgeometry
F getglue
F getglyphdata
F getqlyphdimensions

F getfielderror

F getheight
F getid

F getidsubtype
F getidsubtypenext

F getindex

F getinputfields F getusage F getkern F getusedattributes F getkerndimension F getweight F getlanguage F getwhd F getleader F getwidth F getleftdelimiter F getwordrange F aetlist F getxscale F getlistdimensions F getxyscales F getmvllist F getyscale F getnext F gluetostring F getnodes F hasattribute F hasdimensions F getnormalizedline F getnucleus F hasdiscoption F hasfield F getnumerator F getoffsets F hasgeometry F getoptions F hasglyph F getorientation F hasglyphoption F getparstate F hasidsubtype F getpenalty F hasusage F getpost F hpack F getpre F hyphenating F getprev F id F ignoremathskip F getprime F getpropertiestable F insertafter F getproperty F inserthefore F getreplace F insertcurrenthead F getrightdelimiter F isboth F getruledimensions F ischar F getscale F isdirect F getscales F isqlyph F getscript F isitalicqlyph F getscripts F isloop F getshift F isnext F isnextchar F getslant F getspeciallist F isnextqlyph F isnode F getstate F getsub F isprev F getsubpre F isprevchar F isprevglyph F getsubtype F getsup F issimilarglyph F getsuppre F isspeciallist F isvalid F gettop F gettopdelimiter F iszeroglue

F kerning

F gettotal

F lastnode F setdenominator F setdepth F length F setdirection F ligaturing F makeextensible F setdisc F migrate F setdiscpart F mlisttohlist F setexcept F naturalhsize F setexpansion F naturalwidth F setfam F new F setfield F newcontinuationatom F setfielderror F newmathglyph F setfont F newtextglyph F setgeometry F patchattributes F setglue F patchparshape F setglyphdata F prependbeforehead F setheight F prependcurrenttail F setindex F protectglyph F setinputfields F protectglyphs F setkern F protectglyphsbase F setlanguage F protectglyphsnone F setleader F protrusionskippable F setleftdelimiter F rangedimensions F setlink F setlist F remove F removefromlist F setnext F repack F setnucleus F reverse F setnumerator F serialized F setoffsets F setanchors F setoptions F setattribute F setorientation F setattributelist F setpenalty F setattributes F setpost F sethoth F setpre F sethottom F setprev F setbottomdelimiter F setprime F setbox F setproperty F setchar F setreplace F setchardict F setrightdelimiter F setchoice F setruledimensions F setclass F setscale F setcontrol F setscales F setcurrenttail F setscript F setdata F setscripts F setshift F setdegree

F setslant

F setdelimiter

F setspeciallist	F usesfont	
F setsplit	F vbalance	
F setstate	F verticalbreak	
F setsub	F vpack	
F setsubpre	F write	
F setsubtype	F xscaled	
F setsup	F yscaled	
F setsuppre	effectiveglue	function
F settop	endofmath	function
F settopdelimiter	family_font	function
F settotal	fields	function
F setweight	findattribute	function
F setwhd	flattendiscretionaries	function
F setwidth	flushlist	function
F show	flushnode	function
F size	free	function
F slide	getattribute	function
F softenhyphens	getcachestate	function
F startofpar	getfield	function
F subtypes	getfielderror	function
F tail	getglue	function
F todirect	getpropertiestable	function
F tonode	getproperty	function
F tostring	gluetostring	function
F tovaliddirect	hasattribute	function
F traverse	hasfield	function
F traversechar	hasglyph	function
F traversecontent	hpack	function
F traverseglyph	hyphenating	function
F traverseid	id	function
F traverseitalic	insertafter	function
F traverseleader	insertbefore	function
F traverselist	instock	function
F type	inuse	function
F types	isnode	function
F unprotectglyph	iszeroglue	function
F unprotectglyphs	kerning	function
F unsetattribute	lastnode	function
F unsetattributes	length	function
F updatefirstandbotmark	ligaturing	function
F updatefirstmarks	makeextensible	function
F updatemarks	mlisttohlist	function
F updatetopmarks	new	function
F usedlist	protectglyph	function

protectglyphs	function	todirect	function
protrusionskippable	function	tonode	function
rangedimensions	function	tostring	function
remove	function	traverse	function
serialized	function	traverseid	function
setattribute	function	type	function
setfield	function	types	function
setfielderror	function	unprotectglyph	function
setglue	function	unprotectglyphs	function
setproperty	function	unsetattribute	function
show	function	usedlist	function
size	function	usesfont	function
slide	function	vpack	function
subtypes	function	write	function
tail	function		

nodes (context)

directioncodes

accentcodes	data table	directionvalues	data table
adaptive	table	dirvalues	data table
F handlehorizontal	tabte	discodes	data table
F handlevertical		discretionarycodes	data table
T methods		fencecodes	data table
F set		fields	function
aligned	function	fieldtypes	table
append	function	fillcodes	data table
apply	function	fillvalues	data table
applyvisuals	function	firstdirinbox	function
astable	function	flush	function
attributecodes	data table	flushlist	function
basepoints	function	flushnode	function
boundarycodes	data table	fractioncodes	data table
boxes	table	fullhpack	function
F count		getattr	function
F dimensions		getattribute	function
F direct		getboth	function
F dispose		getbox	function
F found		getchar	function
F prune		getfield	function
F reset		getfont	function
F restore		getid	function
F save		getleader	function
F savenode		getlist	function
builders	table	getnext	function
choicecodes	data table	getprev	function
concat	function	getproperty	function
сору	function	getsubtype	function
copy_node	function	gluecodes	data table
copylist	function	glyphcodes	data table
countall	function	handlers	table
currentattributes	function	F adjusters	
delete	function	F aligncharacter	
destinations	table	F backgrounds	
N attribute		F backgroundspage	
T done		F backgroundsvbox	
F handler		F characters	
T stack		F checkglyphs	
dircodes	data table	F checkparcounter	

F cleanupbox

data table

F cleanuppage		F setspacekerns	
F export		insertafter	function
F finalizebox		insertbefore	function
F finalizelist		insertlistafter	function
F flatten		installattributehandler	function
F flattenline		is_display_math	function
T linebreakchecks		isdirect	function
F mathalignrelocate		isnode	function
F mathmatrixornaments		isnut	function
F mathmatrixrules		kerncodes	data table
F migrate		leftmarginwidth	function
F protectglyphs		linefillers	table
F recolor		F filler	
F show		F handler	
F showhyphenation		F set	
F showpreamble		lines	table
F stripping		T boxed	
F tabulateskip		F addlinenumbers	
F textbackgrounds		F register	
F unprotectglyphs		F setup	
F visualizehyphenation		D data	
F wipe		F finalize	
hasattribute	function	F number	
hasfield	function	link	function
hpack	function	linked	function
idsandsubtypes	function	list	function
idstostring	function	listcodes	data table
injections	table	listtoutf	function
F copy		literalvalues	data table
F getligaindex		locate	function
F getthreshold		markcodes	data table
F handler		markers	table
F installgetspaceboth		F get	
F installnewkern		F set	
F isspace		mathcodes	data table
F keepcounts		mathvalues	data table
F reset		maxboxwidth	function
F resetcounts		migrations	table
F setcursive		F setinserts	
F setkern		F setmarks	
F setligaindex		new	function
F setmark		noadcodes	data table
F setmove		nodecodes	data table
F setposition		nopts	function

table nuts F firstglyphnode F addmargins F firstitalicglyph F addxoffset F flattendiscretionaries F addxymargins F flattenleaders F addyoffset F flush F append F flushlist F appendaftertail F flushnode F free F apply F applyvisuals F freeze F beginofmath F fullhpack F checkdiscretionaries F getanchors F checkdiscretionary F getattr F checkslide F getattribute F collapsing F getattributelist T colors F getattributes F set F getattrlist T components F getattrs F copynocomponents F getboth F copyonlyglyphs F getbottom F count F getbottomdelimiter F flush F aetbox F get F getboxglue F set F getchar F getchardict F concat F copy F getcharspec F copy_properties F getchoice F getclass F copylist F copynode F getcomponents F getcornerkerns F copyonly F copyvisual F getdata F count F getdegree F countall F getdelimiter F currentattributes F getdenominator F delete F getdepth F dimensions F getdirection F dirdimensions F getdisc F effectiveglue F getdiscpart F endofmath F getdiscretionary F exchange F getexcept F findattribute F getexpansion F findattributerange F getfam F findnode F getfield F firstchar F getfirstdirectioninlist

F getfont

F firstqlyph

F getgeometry F getslant F getglue F getspeciallist F getglyphdata F getstate F getglyphdimensions F getsub F getheight F getsubpre F getid F getsubtype F getidsubtype F getsup F getidsubtypenext F getsuppre F getindex F getsurround F getinputfields F gettop F getkern F gettopdelimiter F getkerndimension F gettotal F getlang F getusedattributes F getlanguage F getvalue F getleader F getweight F getwhd F getleftdelimiter F getlist F getwidth F getlistdimensions F getwordrange F getmiddle F getxscale F getmiddledelimiter F getxyscales F aetmyllist F getyscale F getnext F gluetostring F getnormalizedline F hasattribute F getnucleus F hasdimensions F getnumerator F hasdiscoption F getoffsets F hasfield F hasgeometry F getoptions F getorientation F hasglyph F hasglyphoption F getparstate F getpenalty F hasidsubtype F getpost F hpack F getpre F hyphenating F getprev F ignoremathskip F insertafter F getprime F insertbefore F getprop F getreplace F insertlistafter F is display_math F getrightdelimiter F isboth F getruledata F getruledimensions F ischar F getscale F isdirect F getscales F isdone F getscript F isglyph

F getscripts F getshift F isitalicglyph

F isnext

F isnextchar F glue F isnextqlyph F gluespec F isnode F glyph F isnut F hlist F isprev F imagerule F isprevchar F indentskip F isprevglyph F italiccorrection F issimilarglyph F italickern F kern F iszeroglue F kerning F latelua F leader F lastnode F lenath F lefthangskip F ligaturing F leftmarginkern F link F leftskip F linked F lineskip F locate F literal F migrate F luaboundary F mathchar F migratebox F mlisttohlist F mathtextchar F naturalhsize F negatedglue F naturalwidth F noad F nestedtracedslide F originliteral F outlinerule F new F newcontinuationatom F pageliteral F newmathglyph F penalty F openup F radical F patchattributes F rawliteral F patchparshape F register T pool F restore F accent F righthangskip F baselineskip F rightmarginkern F boundary F rightskip F boxrule F rule F choice F save F cleanup F savepos F delim F setmatrix F delimiter F setstate F direction F shrink F directliteral F spacefontkern F disc F spacingrule F emptyrule F startrotation F fence F startscaling F fontkern F stock

F stoprotation

F fraction

F stopscaling F setattribute F stretch F setattributelist F strutrule F setattributes F subbox F setattrlist F submlist F setattrs F temp F setboth F usage F setbottom F userdefined F setbox Tuserids F setboxglue F usernode F setchar F userrule F setchardict F virtualrule F setchoice F vlist F setclass F wordboundary F setcomponents F prepend F setdata F prependbeforehead F setdegree F processranges F setdelimiter F processwords F setdenominator F setdepth F protectglyph F setdirection F protectalyphs F protectglyphsbase F setdisc F protectglyphsnone F setdiscpart F setdiscretionary F protrusionskippable F rangedimensions F setexcept F rawprop F setexpansion F reference F setfam F setfield F rehpack F remove F setfont F removefromlist F setgeometry F repack F setglue F repackhlist F setqlyphdata F replace F setheight F reverse F setinputfields F setkern T rules T ruleactions F setlang F box F setlanguage F setleader F draw F fill F setleftdelimiter F setlink F mp F stroke F setlist F userrule F setmiddledelimiter F serialized F setnext F setanchors F setnucleus

F setnumerator

F setattr

F setoffsets F tail F setoptions F takeattr F setorientation F takebox F setparproperty F takelist F setpenalty F theprop F setpost F tonode F setpre F tonodes F tonut F setprev F setprime F tosequence F tostring F setprop F setreplace F tracedslide F setrightdelimiter F traverse F setruledata F traversechar F setruledimensions F traversecontent F setscale F traverseglyph F setscales F traverseid F setscript F traverseitalic F traverseleader F setscripts F setshift F traverselist T traversers F setslant F setspeciallist F alignrecord F setsplit F boundary F setstate F char F setsub F content F setsubpre F dir F setsubtype F disc F glue F setsup F setsuppre F glyph F setsurround F hlist F settop F leader F list F setvalue F setvisual F mark F setvisuals F next F setweight F node F setwhd F penalty F setwidth F rule F unset F show F vlist F slide F softenhyphens F whatsit F somepenalty T treversers F somespace F char F splitbox F content F startofpar F glyph F striprange F leader

F list		F baselineskip	
F node		F cleanup	
T typesetters		F directliteral	
F tohbox		F glyph	
F tohpack		F hlist	
F tonodes		F latelua	
F tovbox		F leader	
F tovpack		F lineskip	
F unprotectglyph		F literal	
F unprotectglyphs		F originliteral	
F unsetattribute		F register	
F unsetattributes		F restore	
F untracedslide		F save	
F updatefirstandbotmar	k	F savepos	
F updatefirstmarks		F setmatrix	
F updatemarks		F stock	
F updatetopmarks		F usage	
F usedlist		F usernode	
F usesfont		F vlist	
F verticalbreak		prepend	function
F vianodes		print	function
F vianuts		processors	table
F vpack		F trace_glyph_run_a	
F write		F trace_glyph_run_b	
F xscaled		properties	table
F yscaled		T data	
packlist	function	pts	function
parcodes	data table	radicalcodes	data table
penaltycodes	data table	references	table
plugindata	table	N attribute	
F finalizer		T done	
F initializer		F handler	
S name		T stack	
T namespace		rehpack	function
N attribute		remove	function
D data		repackhlist	function
F enable		replace	function
F handler		report	function
F register		rightmarginwidth	function
D registered		rulecodes	data table
D values		rules	table
F processor		F handler	
points -	function	F process	
pool	table	F set	

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

vianodes T frequencies vianuts F register visualizebox T pool visualizers T nodes F rule F attribute T nuts T attributes F rule F box F resetproperties F definelaver F enable F rule F setlist T filters F setproperties N continuation F start N halue T steppers N hkern F check N hpenalty F codes N toddler F features N vqlue F font N vkern F glyphs N vpenalty F getusedfont F message F handler F messages F nofsteps F markfonts F register T modes F reset N boundary F start N depth F stop N dir F stop N discretionary T transparencies N expansion F reset N fontkern F set N glue F setlist N glyph function traverse N hbox traverseid function N hglue typesetters table N hkern N hpenalty F hbox F hpack N insert F tohbox N italic N kern F tohpack F tonodes N line F tovbox N marginkern F tovpack N mark F vpack N math function unsetattribute N mathglue upcomingproperties function N mathkern

function

usedlist

function

function

function

table

N origin

N par
N penalty
N simple
N simplehbox
N simplevbox
N simplevtop

N simplevtop
N space
N strut
N toddler
N user
N vbox

N vglue N vkern N vpenalty
N vtop
N whatsit
F register
F registercache

F setfont
F setlayer
F setruledglyph
F setvisual

vpack function
whatsitcodes data table
write function

number (context)

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

objects (context)

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

optional (context)

curl	table	library	table
F escape		F load	
F fetch		loaded	table
F getversion		lz4	table
F initialize		F compress	
F unescape		F decompresssize	
foreign	table	F framecompress	
F abivalues		F framedecompres	s
F getbuffer		F initialize	
F initialize		lzma	table
F load		F compress	
F newbuffer		F decompress	
F totable		F initialize	
F types		lzo	table
ghostscript	table	F compress	
F execute		F decompresssize	
F initialize		F initialize	
graphicsmagick	table	mujs	table
F execute		F dofile	
F getnoisetypes		F execute	
F initialize		F initialize	
hb	table	F reset	
F getshapers		F setclosefile	
F getversion		F setconsole	
F initialize		F setfindfile	
F loadfont		F setopenfile	
F shapestring		F setreadfile	
imagemagick	table	F setseekfile	
F execute		mysql	table
F initialize		F close	
kpse	table	F execute	
F expand_braces		F getmessage	
F expand_path		F initialize	
F expand_var		F open	
F find_file		openssl	table
F find_files		F getversion	
F get_file_types		F initialize	
F initialize		F sign	
F readable_file		F verify	
F set_program_na	me	postgress	table
F var_value		F close	

F execute F open zint table F getmessage F initialize F execute F initialize F open sqlite table zstd table F close F compress F execute F decompress F initialize F getmessage

F initialize

os (basic lua)

pipeto

function

getenv	function		platform	string	
setenv	function		remove	overloaded	function
binsuffix	string		rename	overloaded	function
binsuffixes	table		resultof	function	
bits	number		runtime	function	
clock	function		selfarg	table	
converttime	function		selfbin	string	
date	overloaded	function	selfcore	string	
difftime	function		selfdir	string	
enableansi	function		selflink	string	
env	data table		selfname	string	
execute	overloaded	function	selfpath	string	
exit	overloaded	function	serialwrite	function	
fulltime	function		setenv	overloaded	function
getcodepage	function		setexitcode	function	
getenv	overloaded	function	setlocale	overloaded	function
getnamevalues	function		sleep	function	
gettimeofday	function		startuptime	function	
gettypevalues	function		time	function	
getunamefields	function		timezone	function	
isleapyear	function		tmpname	function	
launch	function		today	function	
libsuffix	string		type	string	
localtime	function		uname	function	
name	string		uuid	function	
newline	string		validdate	function	
nofdays	function		weekday	function	
now	function		where	function	

which

function

package (basic lua)

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

pagebuilders (context)

columnsets	table
F add	
F addmvl	
F block	
F blockrows	
F check	
F clean	
T data	
F define	
F definesub	
F delayedshe	et
F finishflus	h
F flushareas	
F flushcolum	n
F goto	
F gotoslot	
F limit	
F noto	
F prepareflu	sh
F presetshee	
F presetsprea	adsheets
F put	
F putdirect	
F registerare	ea
F registersh	
F registersp	readsheets
F reset	
F resetdirec	t

```
F reshape
   F setarea
   F setextra
   F sethsize
   F sethspan
   F setlines
   F setmyl
   F setpresent
   F setproperties
   F setstart
   F shape
   F showshape
   F state
   F status
   F submvl
   F submvlbalance
injections
                 table
   F flushafter
   F flushbefore
   F save
mixedcolumns table
   F cleanup
   F finalize
   F getlist
   F getrest
   F getsplit
   F setsplit
```

pdf (context)

immediateobj function

pdfe (extra tex)

arraytotable	function
close	function
closestream	function
dictionarytotable	function
getarray	function
getboolean	function
getbox	function
getcatalog	function
getdictionary	function
getencodingvalues	function
getfieldtypes	function
getfromarray	function
getfromdictionary	function
getfromobject	function
getfromreference	function
getfromstream	function
getinfo	function
getinteger	function
getmemoryusage	function
getname	function
getnofobjects	function
getnofpages	function

getnumber	function
getobjectrange	function
getpage	function
getpages	function
getpermissions	function
getsize	function
getstatus	function
getstatusvalues	function
getstream	function
getstring	function
gettrailer	function
getversion	function
new	function
open	function
openfile	function
openstream	function
pagestotable	function
readfromstream	function
readwholestream	function
type	function
unencrypt	function

physics (context)

units table

F registershortcut

F registerunit

D tables

pngdecode (extra tex)

applyfilter function
expand function
interlace function
makemask function

splitmask function
tocmyk function
tomask function

posit (extra lua)

NaN	function
NaR	function
add	function
band	function
bor	function
bxor	function
div	function
eq	function
le	function
lt	function
mul	function
name	string
pow	function
shl	function
shr	function
sub	function
tostring	function
unm	function
abs	function
acos	function
asin	function
atan	function
band	function
bor	function
bxor	function
ceil	function
conj	function
сору	function
cos	function
exp	function

function
function

potrace (extra tex)

checked	function	getnewfields	function
concat	function	getpolicyvalues	function
contourplot	function	getprocessfields	function
convert	function	new	function
count	function	process	function
flush	function	setbitmap	function
free	function	stripped	function
fromfile	function	totable	function
getbitmap	function	trace	function

publications (context)

addtexentry	function	concatstate	function
analyze	function	converttoxml	function
anywhere	function	currentspecification	table
authorcache	data table	S author	
authorcollapsers	data table	T categories	
authorhashers	table	T article	
F invertedshort		S category	
F normal		T extra	
F normalinverted		T fields	
F normalshort		S author	
F sequential		S editor	
F sequentialshort		S journal	
F short		S keywords	
authormap	data table	S note	
authortoregister	function	S number	
btx	table	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		T optional	

T required	S page	
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
S comment	getfaster	function
S copyright	getfield	function
T fields	getfuzzy	function
S name	getindex	function
T types	inspectors	data table
S author	journals	table
S editor	F abbreviated	
S keywords	F add	
S number	F expanded	

S

S T

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

splitoneauthor function F showdatasetcompleteness statistics table F showdatasetfields N nofbytes F showentry N nofdatasets F showfields N nofdefinitions F showhashedauthors N nofshortcuts F showtables tables table F showvariants table D implicits typesetters D origins F author D privates F string usedataset function D sets function usedentries D specials writers table D types D virtuals F author function F keyword

F pagenumber

F range

tags function
tracers table

F showdatasetauthors

qrcodegen (context)

bitmap function
generate function

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	findfiles
appendhash	function	findgivenfile
automount	function	findgivenfiles
booleanvariable	function	findlib
cacheversion	string	findpath
checkedvariable	function	findpk
cleanedpathlist	function	findtexfile
cleaners	data table	findwildcardfile
cleanpath	function	findwildcardfiles
cleanpathlist	function	formatofsuffix
cleanupbinfile	function	formatofvariable
concatinators	data table	formats
configbanner	string	foundintree
configurationfiles	function	foundintrees
dangerous	data table	generators
datastate	function	get_from_content
decompressors	table	getenv
F register		getextrapaths
F unregister		getfilehashes
defaultsuffixes	table	gethashes
dirstatus	function	getownpath
dowithfilesandreport	function	getreadfilename
dowithfilesintree	function	hashers
dowithpath	function	homedir
dowithvariable	function	ignorelibrary
executers	table	initialized
expandbraces	function	installinputfilehandler
expandedpathfromlist	function	installinputlinehandler
expandedpathlist	function	jobpath
expandedpathlistfromvariable	function	jobs
expandpath	function	F collectstructure
expandpathfromvariable	function	F currentcomponent
expansion	function	F currentenvironment
extendtexmfvariable	function	F currentproduct
filtered_from_content	function	F currentproject
find_file	function	F currentstructure
find_files	function	F justacomponent
findbinfile	function	F namelist
findctxfile	function	D processors
finders	data table	F productcomponent
findfile	function	F usefile

function data table function function data table function function function function function function function data table string function function function function function table

ioinpath function registerfile function knownvariables function registerfilehash function libraries table registerintrees function registermethod F optionalloaded function registerzipfile function F validoptional load function relations data table loadbinfile function function renew data table loaders renewcache function loadlualib function repath function loadtexfile function reset function loadtime function resetextrapaths function locateformat function resetresolve function locators data table resolve function luacnffallback strina savers data table luacnfname string scandata function scanfiles luacnfspec function strina luacnfstate schemes table string macros table T cleaners F convertfile F md5 F decodecomment F none F enablecomment F strip F encodecomment F cleanname F preprocessed F fetchstring F processmk F fetchtable F processmklx F install setdvnamic function F processmkvi function F version setenv maxreadlevel number showpath function methodhandler function simplescanfiles function missinglibrary function **splitconfigurationpath** function openbinfile function splitexpansions function data table splitmethod function openers function openfile splitpath function opentexfile function stackpath function ownpath starttiming function string popextrapath function stoptimina function popinputname function suffixes data table function suffixmap data table poppath suffixofformat prefixes data table function prependhash function texdatablob function pushextrapath function toppath function function data table pushinputname tracers

unexpandedpath

unexpandedpathlist

function

function

function

function

pushpath

registerextrapath

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

sandbox (context)

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

scripts (context)

autofontfeature table F disable F enable F handler colors data table decomposehangul function defaults table N inter char half shrink factor N inter char half stretch factor N inter char hangul penalty N inter_char_quarter_shrink_factor N inter_char_quarter_stretch_factor N inter char shrink factor N inter char stretch factor N inter_word_stretch_factor getdata function getinjector function

function

function

getsplitter

getstatus

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

splitters

data table

serial (context)

gc	function	open	function
name	string	send	function
tostring	function	tostring	function
close	function	write	function

set (context)

contains function
create function
tolist function

tonumber function
totable function

sha2 (extra lua)

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

sio (extra lua)

function
function

readinteger1le	function
readinteger2	function
readinteger2le	function
readinteger3	function
readinteger3le	function
readinteger4	function
readinteger4le	function
readintegertable	function
tocardinal1	function
tocardinal1le	function
tocardinal2	function
tocardinal2le	function
tocardinal3	function
tocardinal3le	function
tocardinal4	function
tocardinal4le	function

socket (extra lua)

S content-md5

BLOCKSIZE number S content-range SETSIZE number S content-transfer-encoding **SOCKETINVALID** number S content-type bind function S cookie function choose S date function connect S diagnostic-code connect4 function S dsn-gateway function connect6 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 accept-ranges S last-attempt-date S last-modified S action 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 content-language S remote-mta S content-length S reply-to S content-location S reporting-mta

S resent-bcc

S resent-cc	newtry	function
S resent-date	protect	function
S resent-from	report	function
S resent-message-id	select	function
S resent-reply-to	sink	function
S resent-sender	sinkt	table
S resent-to	F close-when-do	one
S retry-after	F default	
S return-path	F http-chunked	
S sender	F keep-open	
S server	skip	function
S smtp-remote-recipient	sleep	function
S status	source	function
S subject	sourcet	table
S te	F by-length	
S to	F default	
S trailer	F http-chunked	
S transfer-encoding	F until-closed	
S upgrade	tcp	function
S user-agent	tcp4	function
S vary	tcp6	function
S via	tp	table
S warning	N TIMEOUT	
S will-retry-until	F connect	
S www-authenticate	try	function
S x-mailer	url	table
F lower	F absolute	
F normalize	F build	
http table	F build_path	
N TIMEOUT	F escape	
S USERAGENT	F parse	
F genericform	F parse_path	
F open	F unescape	

F request

sorters (context)

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

sparse (extra lua)

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

statistics (context)

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

status (basic tex)

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

storage (context)

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

streams (context)

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

string (basic lua)

autodouble	function	octtointeger	function
autosingle	function	optionalquoted	function
booleanstring	function	pack	function
byte	function	packrowscolumns	function
bytepairs	function	packsize	function
bytes	function	quote	function
bytetable	function	quoted	function
char	function	rep	function
characterpairs	function	replacenewlines	function
characters	function	reverse	function
checkedsplit	function	split	function
chrtointeger	function	splitlines	function
collapsespaces	function	splitup	function
containsws	function	strip	function
count	function	sub	function
dectointeger	function	texhashed	function
dump	function	texnewlines	function
escapedpattern	function	tformat	function
escapedquotes	function	toHEX	function
explode	function	toboolean	function
f6	function	tobytes	function
find	function	tocontext	function
format	function	todec	function
formatter	function	todimen	function
formatters	function	tohex	function
fullstrip	function	tonodes	function
gmatch	function	topattern	function
gsub	function	totable	function
hextocharacters	function	tounicode16	function
hextointeger	function	toutf	function
is_boolean	function	toutf32	function
is_empty	function	toutf8	function
itself	function	tracedchar	function
len	function	tracedchars	table
limit	function	unescapedquotes	function
linetable	function	unpack	function
longtostring	function	unquote	function
lower	function	unquoted	function
match	function	upper	function
nospaces	function	utf16toutf8	function
nspaces	table	utfcharacter	function

utfcharacters	function	utfvalue	function
utfcharactertable	function	utfvalues	function
utflength	function	utfvaluetable	function
utfpadd	function	valid	function
utfpadding	function	wordsplitter	function

structures (context)

atlocation	function	F last	
blocks	table	F next	
D collected		F prev	
F define		F previous	
F empty		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 title		F prefix	
F touserdata		F prefixednumber	
inserts	table	F prefixedpage	
F attach		F process	
D data		D pushed	
F define		F pushnesting	
F detach		F rawnumber	
F getdata		F rawrealpage	
F getlocation		F rawuserpage	
F getname		F realpage	
F getnumber		F reorder	
F nofdetached		F reordered	
F setlocation		T result	
F setup		F savedlistnumber	
D stored		F savedlistprefixednumber	
itemgroups	table	F savedlisttitle	
D collected		D sectionblocks	
D tobesaved		F sectionnumber	
lists	table	F size	
F addto		F title	
F analyze		D tobesaved	
D cached		F use	
D collected		F userdata	
F discard		F userpage	
F enhance		F uservalue	
T enhancers		marks tab	le
F external		F number	
F filter		F title	
F formulanumber		notes tabl	le
F getresult		F check_spacing	
F groupindex		F checkpagechange	
F hasnumberdata		F define	
F haspagedata		F doifonsamepageasprevious	
F hastitledata		F flushrange	
F integrate		F get	
F iscached		F getdeltapage	
D kinds		F getinternal	
F label		F getn	
F location		F getstate	
D names		F hascontent	
F number		F internal	
D ordered		F internalid	
F page		F listindex	
F popnesting		D numbers	

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

F referredpage	registers	table
F registerfinalizer	F analyze	
F registerinitializer	D collected	
F registerpage	F compare	
F reset	F define	
D runners	F enhance	
F set	F extend	
F setandgetattribute	F filter	
F setinternalreference	F filtercollected	
F setlinkmethod	F finalize	
F setnextinternal	F findinternal	
F setnextorder	F flush	
F setreferencerealpage	F get	
F setstructure	F integrate	
D specials	F prepare	
F splitcomponent	F process	
F splitprefix	F setmethod	
F splitreference	F sort	
F synchronizepage	F store	
T testrunners	D tobesaved	
Finner	F tweak	
F special	F unique	
F special operation	F use	
F special operation with arguments	F userdata	
T testspecials	sections	table
F deltapage	F autodepth	
Fi	F cct	
F internal	D collected	
F page	F current	
F realpage	F currentblock	
F section	F currentid	
F userpage	F currentlevel	
D tobereferred	F currentsectionindex	
D tobesaved	F depthnumber	
D tracedpages	F finddata	
T urls	F findnumber	
T data	F fullnumber	
F define	F getcurrentlevel	
F found	F getlevel	
F get	F getnumber	
F untex	F internalreference	
D usedinternals	D levelmap	
D usedviews	D levels	
F valid	F matchingtilldepth	

F numberatdepth		F flush	
F numbers		F isshown	
F popblock		F isused	
F prefixedconverted		F meaning	
F pushblock		F pages	
F register		F prepare	
D registered		F process	
F reportstructure		F register	
F save		F registershown	
T sectionblockdata		F registerused	
T bodypart		F reset	
S bookmark		F resetall	
F set		F resetlist	
F setblock		F resetshown	
F setchecker		F resetused	
F setentry		F sort	
F setinitialblock		F synonym	
F setlevel		D tobesaved	
F setnumber		tags	table
F showstructure		T backend	
F structuredata		T checks	
F title		F marginanchor	
D tobesaved		F margintext	
F typesetnumber		F math	
F userdata		F mrow	
B verbose		F mtable	
sets	table	T destinationhash	
F define		T extras	
F get		F adddestination	
F getall		F addimplicit	
D setlist	+2612	F addinternal	
specials	table	F addreference	
D collected		F combination	
F retrieve F store		F combinationpair	
		F delimitedsymbol	
D tobesaved	table.	F description	
synonyms F analyzed	table	F descriptionsymbol F document	
D collected		F float	
F compare		F formulacontent	
F define		F image	
F enhance			
		F itom	
		F item	
F filter F finalize		F item F itemgroup F link	

F listitem F gettablecell F mmultiscripts F gettabulatecell F mover F handler F msub T ignored F msubsup F initializeexport F msup D labels F munder F last F munderover F lastinchain F paragraph F localexport F publication F locatedtag F reference D overloads F registerlocation T patterns F registerpages U splitter F registerseparator F pop F section D properties F sorting F push F subsentencesymbol F registerextradata F registermetadata F synonym F tablecell F restart F tabulate F setaspect F tabulatecell F setattributehash T finalizers F setcodepoint F descriptions F setcombination T fixes F setcombinationpair F linenumber F setconstruct F fontfaced F setfigure T listdata F setfloat T referencehash F setformulacontent F setattribute F sethighlight F tofontface F setitem T usedimages F setitemgroup T image F setlist T usedstyles F setnotation F setnotationsymbol T construct T highlight F setparagraph F current F setproperty F setpublication F elementtag F enabled F setregister F exportbox F setsorting F finishexport F setsynonym F getextradata F settablecell

F settabulatecell
F settagdelimitedsymbol

F settagsubsentencesymbol

F getid

F getitemgroup F getmetadata F setuserproperties
D specifications
F start

F stop
F strip
D taglist

table (basic lua)

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

tex (basic tex)

amcode	table	discpartcodes	data table
attribute	table	dontcomplain	function
automigrationcodes	data table	doublescriptoptioncodes	data table
autoparagraphcodes	data table	enableprimitives	function
badness	function	error	function
badnessmodecodes	data table	expandasvalue	function
balance	function	experiments	data table
balancecallbackcodes	data table	extraprimitives	function
boundaries	table	fatalerror	function
D names		fillcodes	data table
D numbers		flagcodes	data table
F system		fontidentifier	function
box	table	fontname	function
boxoptioncodes	data table	forcehmode	function
boxresources	table	forceinputstatefile	function
F getbox		forceinputstateline	function
F getdimensions		fprint	function
F save		frozenparcodes	data table
F use		get	function
breakcodes	data table	getadjustoptionvalues	function
buildcodes	data table	getalignmentcontextvalues	function
catcode	table	getamcode	function
cccode	table	getappendadjustcontextvalues	function
charactercontrolcodes	data table	getappendmigratecontextvalues	function
charactertagcodes	data table	getattribute	function
chardef	function	getautomigrationvalues	function
classoptioncodes	data table	getautoparagraphvalues	function
codes	table	getbadnessmodevalues	function
conditionals	data table	getbalancecallbackvalues	function
constants	data table	getbalanceparameterfields	function
count	table	getbalanceresultfields	function
cprint	function	getbalancestepoptionvalues	function
ctdcatcodes	number	getbox	function
ctxcatcodes	number	getboxdir	function
definefont	function	getboxoptionvalues	function
delcode	table	getboxresourcebox	function
dimen	table	getboxresourcedimensions	function
dimensiondef	function	getbreakcontextvalues	function
directioncodes	data table	getbuildcontextvalues	function
directives	data table	getcardinalvalue	function
discoptioncodes	data table	getcatcode	function

getcccode	function	getinsertwidth	function
getcharactercontrolvalues	function	getintegervalue	function
getcharactertagvalues	function	getinteraction	function
getcount	function	getinteractionmodes	function
getcurrentmvl	function	getiovalues	function
getdelcode	function	getkerneloptionvalues	function
getdelcodes	function	getkernoptionvalues	function
getdimen	function	getlargestusedmark	function
getdimensionvalue	function	getlccode	function
getdirectionvalues	function	getlinebreakparameterfields	function
getdiscoptionvalues	function	getlinebreakresultfields	function
getdiscpartvalues	function	getlinebreakstatevalues	function
getdoublescriptoptionvalues	function	getlinedir	function
getemptyparagraphmodevalues	function	getlist	function
geterrorvalues	function	getlistanchorvalues	function
getfillvalues	function	getlistfields	function
getflagvalues	function	getlistgeometryvalues	function
getfloat	function	getlistsignvalues	function
getfontoffamily	function	getlocalbox	function
getfrozenparvalues	function	getlocalboxlocations	function
getglue	function	getlocallevel	function
getglueoptionvalues	function	getmark	function
getglyphdata	function	getmarknames	function
getglyphdiscvalues	function	getmath	function
getglyphoptionvalues	function	getmathclassoptionvalues	function
getglyphprotectionvalues	function	getmathcode	function
getglyphscales	function	getmathcodes	function
getglyphscript	function	getmathcontrolvalues	function
getglyphstate	function	getmathdir	function
getgroupvalues	function	getmathgluevalues	function
gethccode	function	getmathoptionvalues	function
gethelptext	function	getmathparametervalues	function
gethmcode	function	getmathscriptordervalues	function
gethyphenationvalues	function	getmathscriptsmodevalues	function
getiftypes	function	getmathstylenamevalues	function
getinputstatefile	function	getmathstylevalues	function
getinputstateline	function	getmathstylevariant	function
getinputstatemode	function	getmathsurroundvalues	function
getinsertcontent	function	getmathvariantpresets	function
getinsertdepth	function	getmathvariantvalues	function
getinsertdistance	function	getmeasure	function
getinsertheight	function	getmissingcharactervalues	function
getinsertlimit	function	getmode	function
getinsertmultiplier	function	getmodevalues	function

getmuglue	function	getunitclassvalues	function
getmuskip	function	getusedmarks	function
getmvloptionvalues	function	getvsplitcontextvalues	function
getnest	function	glue	table
getnestfields	function	glueoptioncodes	data table
getnestlevel	function	glyphdisccodes	data table
getnoadoptionvalues	function	glyphoptioncodes	data table
getnormalizelinevalues	function	groupcodes	data table
getnormalizeparvalues	function	hashtokens	function
getoutputactive	function	hccode	table
getpacktypevalues	function	hmcode	table
getpagecontextvalues	function	hshcatcodes	number
getpagestate	function	hyphenationcodes	data table
getpagestatevalues	function	ifs	data table
getparametermodevalues	function	inicatcodes	number
getparcontextvalues	function	integerdef	function
getpardataspecifications	function	interactioncodes	data table
getpardir	function	isattribute	function
getparmodevalues	function	isbox	function
getparstate	function	iscount	function
getparstatefields	function	<pre>isdefined functio</pre>	
getpartriggervalues	function	isdimen function	
getpenaltyoptionvalues	function	<pre>isfloat functio</pre>	
getpositvalue	function	isglue function	
getprepoststatevalues	function	ismuglue function	
getprimitivelegacies	function	<pre>ismuskip function</pre>	
getprimitiveorigins	function	<pre>isprintable function</pre>	
getprotrusionboundaryvalues	function	isskip function	
getregisterindex	function	istoks	function
getruleoptionvalues	function	lastnodetype	function
getrunstate	function	lccode	table
getrunstatevalues	function	linebreak	function
getsfcode	function	linebreakstatecodes	data table
getshapingpenaltiesvalues	function	listanchorcodes	data table
getskip	function	listgeometrycodes	data table
getsnappingvalues	function	lists	table
getspecialmathclassvalues	function	listsigncodes data table	
getspecification	function	luacatcodes number	
getspecificationoptionvalues	function	magicconstants table	
gettextcontrolvalues	function	S activecharacternamespace	
gettextdir	function	N allfitnessvalues	
gettoks	function	N assumedmathcontrol	
getuccode	function	N awfulbad	

N decentcriterion

function

getuleaderlocationvalues

N defaultcatcodetable N maxinteger N defaultcharactercontrol N maxintegerregisterindex N defaultdeadcycles N maxintregisterindex N maxlimitedscale N defaulteqnogapstep N defaulthangafter N maxmarkindex N defaultoutputbox N maxmathclasscode N defaultpredisplaygap N maxmathfamilvindex N defaultrule N maxmathscalingfactor N defaultspacefactor N maxmathstylescale N defaulttolerance N maxmuglueregisterindex N deplorable N maxmvlindex N ejectpenalty N maxnewlinecharacter N ignoredepth N maxnofbytecodes N infinitebad N maxnofcatcodetables N infinitepenalty N maxnoffitnessvalues N infinity N maxnoffonts N largewidthexcess N maxnoflanguages N maxnofmarks N loosecriterion N mathallclass N maxnofmathfamilies N mathbeginclass N maxquarterword N mathdefaultpenalty N maxscalefactor N mathendclass N maxsizeofword N mathfirstuserclass N maxspacefactor N mathlastuserclass N maxtoksregisterindex N maxattributeregisterindex N maxtwinlength N maxboxregisterindex N mincardinal N mindatavalue N maxbytecodeindex N maxcalculatedbadness N mindimen N maxcardinal N mindimension N maxcharactercode N minhalfword N maxdatavalue N mininfinity N maxdimen N mininteger N maxdimenregisterindex N minmylindex N minnoffitnessvalues N maxdimension N maxdimensionregisterindex N minguarterword N maxendlinecharacter N minscalefactor N maxfloatregisterindex N minspacefactor N maxfontadjustshrinkfactor N nocatcodetable N maxfontadjuststep N null N maxfontadjuststretchfactor N nullflag N maxfunctionreference N nullfont N maxglueregisterindex N onebp N maxhalfvalue N presetrulethickness N maxhalfword N runningrule

N smallstretchability		positdef	function
N specialspacefactor		preparelinebreak	function
N texeqtbsize		primitives	function
N texhashprime		print	function
N texhashsize		protrusionboundarycodes	data table
N two		prtcatcodes	number
N undefinedmathparameter		pushlocal	function
N unity		pushsavelevel	function
N unusedattributevalue		quitlocal	function
N unusedmathfamily		quittoks	function
N unusedmathstyle		resetparagraph	function
N unusedscriptvalue		rlncatcodes	number
N unusedstatevalue		romannumeral	function
N zeroglue		round	function
mathchardef	function	ruleoptioncodes	data table
mathcode	table	runlocal	function
mathcontrolcodes	data table	runstatecodes	data table
mathoptioncodes	data table	runstring	function
mathparametercodes	data table	runtoks	function
mathscriptordercodes	data table	saveboxresource	function
mathscriptsmodecodes	data table	scale	function
modelevels	table	scantoks	function
N horizontal		set	function
N math		setamcode	function
N unset		setattribute	function
N vertical		setbalanceshape	function
modes	data table	setbox	function
mprint	function	setboxdir	function
muglue	table	setcardinalvalue	function
muskip	table	setcatcode	function
mvloptioncodes	data table	setcccode	function
nest	table	setconditional	function
nilcatcodes	number	setcount	function
noadoptioncodes	data table	setdelcode	function
normalizelinecodes	data table	setdimen	function
normalizeparcodes	data table	setdimensionvalue	function
notcatcodes	number	setfloat	function
number	function	setglue	function
parcontextcodes	data table	setglyphdata	function
partriggercodes	data table	setglyphscript	function
penaltyoptioncodes	data table	setglyphstate	function
poplocal	function	sethccode	function
popsavelevel	function	sethmcode	function
posit	table	setinputstatefile	function

setinputstateline	function	skip	table
setinputstatemode	function	snappingcodes	data table
setinsertcontent	function	snapshotpar	function
setinsertdistance	function	sp	function
setinsertlimit	function	specialmathclasscodes	data table
setinsertmultiplier	function	specificationoptioncodes	data table
setintegervalue	function	splitbox	function
setinteraction	function	splitcodes	data table
setlccode	function	sprint	function
setlinedir	function	stringtocodesbitmap	function
setlist	function	systemmodes	data table
setlocalbox	function	takebox	function
setmath	function	texcatcodes	number
setmathcode	function	textcontrolcodes	data table
setmathdir	function	toks	table
setmuglue	function	tonumber	function
setmuskip	function	toscaled	function
setnest	function	tpacatcodes	number
setpardir	function	tpbcatcodes	number
setpositvalue	function	tprint	function
setrunstate	overloaded fu	n ctrack ers	data table
setsfcode	function	triggerbuildpage	function
setskip	function	txtcatcodes	number
settextdir	function	uccode	table
settoks	function	uprint	function
setuccode	function	useboxresource	function
sfcode	table	userdiscoptioncodes	data table
shapingpenaltiescodes	data table	userglyphoptioncodes	data table
shiftparshape	function	vrbcatcodes	number
shipout	function	write	function
_			

function

showcontext

texconfig (basic tex)

buffersize	table	1	+-bl-
	table	languagesize	table
N size		N size	
N step		N step	
errorlinesize	table	marksize	table
N size		N size	
expandsize	table	N step	
N size		nestsize	table
filesize	table	N size	
N size		N step	
N step		nodesize	table
firstline	string	N size	
fontsize	table	N step	
N size		parametersize	table
N step		N size	
formatname	string	N step	
functionsize	number	poolsize	table
halferrorlinesize	table	N size	
N size		N step	
hashsize	table	propertiessize	number
N size		savesize	table
N step		N size	
init	overloaded function	N step	
inputsize	table	shell_escape	string
N size		stringsize	table
N step		N size	
insertsize	table	N step	
N size		tokensize	table
N step		N size	
kpse_init	boolean	N step	

texio (basic tex)

closeinput	function	write	function
forceendoffile	function	write_nl	function
getinputindex	function	writenl	function
getselectorvalues	function	writeselector	function
getsourcefilename	function	writeselectorlf	function
setlogfile	function	writeselectornl	function
terminal	function		

token (basic tex)

create	function	getexpandable	function
expand	function	getexpansion	function
expand macro	function	getfields	function
expandmacro	function	getflags	function
future expand	function	getfrozen	function
futureexpand	function	getfunctionvalues	function
get_active	function	getid	function
get cmdchrcs	function	getimmutable	function
get cmdname	function	getindex	function
get command	function	getinstance	function
get csname	function	getinteger	function
get_cstoken	function	getlength	function
get dimension	function	getmacro	function
get expandable	function	getmeaning	function
get fields	function	getnoaligned	function
get_flags	function	getparameters	function
get_frozen	function	getpermanent	function
get_id	function	getprimitive	function
get_immutable	function	getprimitives	function
get_index	function	getprotected	function
get_instance	function	getrange	function
get_integer	function	gettok	function
get_macro	function	gettolerant	function
get_meaning	function	gobble	function
get_noaligned	function	<pre>gobble_dimension</pre>	function
<pre>get_parameters</pre>	function	gobble_integer	function
get_permanent	function	gobbledimension	function
get_primitive	function	gobbleinteger	function
get_protected	function	grab	function
get_range	function	inhibit	function
get_tok	function	is_defined	function
get_tolerant	function	is_next_char	function
getactive	function	is_token	function
getcmdchrcs	function	isactivestring	function
getcmdname	function	isdefined	function
getcommand	function	isnextchar	function
getcommandvalues	function	istoken	function
getconstant	function	locatemacro	function
getcsname	function	new	function
getcstoken	function	peek_next	function
getdimension	function	peek_next_char	function

peek_next_expanded	function	scan_toks	function
peeknext	function	scan_value	function
peeknextchar	function	scan_word	function
peeknextexpanded	function	scanargument	function
pop_macro	function	scanbox	function
popmacro	function	scancardinal	function
push_macro	function	scanchar	function
pushmacro	function	scancmdchr	function
put_back	function	scancmdchrexpanded	function
put_next	function	scancode	function
putback	function	scancsname	function
putnext	function	scancstoken	function
save_lua	function	scandelimited	function
savelua	function	scandetokened	function
scan_argument	function	scandimen	function
scan_box	function	scandimenargument	function
scan_cardinal	function	scandimension	function
scan_char	function	scandimensionargument	function
scan_cmdchr	function	scanfloat	function
scan_cmdchr_expanded	function	scanglue	function
scan_code	function	scanint	function
scan_csname	function	scaninteger	function
scan_delimited	function	scanintegerargument	function
scan_dimen	function	scankey	function
scan_float	function	scankeyword	function
scan_glue	function	scankeywordcs	function
scan_integer	function	scanletters	function
scan_key	function	scanluacardinal	function
scan_keyword	function	scanluainteger	function
scan_keyword_cs	function	scanluanumber	function
scan_letters	function	scannext	function
scan_luacardinal	function	scannextchar	function
scan_luainteger	function	scannextexpanded	function
scan_luanumber	function	scanposit	function
scan_next	function	scanreal	function
scan_next_char	function	scanscale	function
scan_next_expanded	function	scanskip	function
scan_real	function	scanstring	function
scan_scale	function	scantoken	function
scan_skip	function	scantokencode	function
scan_string	function	scantokenlist	function
scan_token	function	scantokenstring	function
scan_token_code	function	scantoks	function
scan_tokenlist	function	scanvalue	function

scanword	function	setmacrofrommark	function
serialize	function	setmacrotonothing	function
set_dimension	function	skip_next	function
set_integer	function	skip_next_expanded	function
set_lua	function	skipnext	function
set_macro	function	skipnextexpanded	function
setdimension	function	type	function
setinteger	function	undefine_macro	function
setlua	function	undefinemacro	function
setmacro	function		

tokens (context)

	+ahla		
accessors	table	S todimen	
F active		S toglue	
F cmd		S tonumber	
F cmdchrcs		S tostring	£
F cmdname		create	function
F command		defined	function
F csname		flags	function
F expandable		getinteger	function
F frozen		getters	table
F index		F box	
F name		F count	
F protected		F cstoken	
F range		F dimen	
astable	function	F glue	
bits	table	F macro	
N active		F meaning	
N alignment		F skip	
N begingroup		F token	
N character		gobble	function
N close		isactivestring	function
N comment		isdefined	function
N endgroup		istoken	function
N endofline		new	function
N escape		pickup	function
N ignore		popmacro	function
N invalid		presets	table
N letter		T 1 argument	
N mathshift		T 1 integer	
N open		T 1 optional	
N other		T 1 string	
N parameter		T 2 arguments	
N space		T 2 integers	
N subscript		T 2 optionals	
N superscript		T 2 strings	
N whitespace		T 3 arguments	
cache	data table	T 3 integers	
commands	data table	T 3 optionals	
compile	function	T 3 strings	
constant	function	T 4 arguments	
converters	table	T 4 integers	
S toboolean		T 4 optionals	

T 4 strings	F luainteger	
T 5 strings	F luanumber	
T 6 strings	F lxmlid	
T 7 strings	F next	
T 8 strings	F nextchar	
<pre>pushmacro function</pre>	F nextexpanded	
scanners table	F number	
F argument	F optional	
F argumentasis	F peek	
F array	F peekchar	
F boolean	F peekexpanded	
F box	F posit	
F bracketed	F real	
F bracketedasis	F scanclose	
F cardinal	F scanopen	
F char	F skip	
F cmdchr	F skipexpanded	
F cmdchrexpanded	F string	
F code	F table	
F conditional	F token	
F count	F tokencode	
F csname	F tokenlist	
F csnameunchecked	F tokens	
F delimited	F tokenstring	
F detokened	F toks	
F dimen	F value	
F dimension	F vbox	
F dimensionargument	F verbatim	
F float	F vtop	
F glue	F whd	
F gluespec	F word	
F gluevalues	setinteger	function
F hash	setters	table
F hbox	F box	
F integer	F char	
F integerargument	F count	
F ischar	F dimen	
F key	F glue	
F keyword	F lua	
F keywordcs	F macro	
F letters	F skip	
F list	shortcuts	table
F lua	T bits	
F luacardinal	N active	

N alignment	F atan
N begingroup	F band
N character	F bor
N close	F bxor
N comment	F ceil
N endgroup	F conj
N endofline	F copy
N escape	F cos
N ignore	F exp
N invalid	F exp2
N letter	F expand
N mathshift	F floor
N open	F frombyte
N other	F fromchar
N parameter	F fromposit
N space	F integer
N subscript	F log
N superscript	F log10
N whitespace	F log1p
N close	F log2
F inspect	F logb
N open	F max
T posit	F min
F NaN	F modf
F NaR	F new
Fadd	F pow
Fband	F rotate
Fbor	F round
Fbxor	F rounded
Fdiv	F shift
Feq	F sin
Fle	F sqrt
Flt	F tan
Fmul	F tobyte
Sname	F tochar
Fpow	F tonumber
Fshl	F toposit
Fshr	F tostring
Fsub	F report
Ftostring	F scanargument
Funm	F scanargumentasis
F abs	F scanarray
F acos	F scanboolean
F asin	F scanbox

F detokened F scanbracketed F scanbracketedasis F dimen F scancardinal F dimension F scanclose F dimensionargument F scancode F float F scanconditional F glue F scancsname F gluespec F scancsnameunchecked F gluevalues F scandelimited F hash F scandetokened F hhox F scandimen F integer F scandimension F integerargument F scandimensionargument F ischar F scanfloat F key F scanglue F keyword F scangluespec F keywordcs F scangluevalues F letters F scanhash F list F lua F scanhbox F scaninteger F luacardinal F scanintegerargument F luainteger F scankeyword F luanumber F scankeywordcs F lxmlid F scanletters F next F scanlist F nextchar F scanlua F nextexpanded F number T scanners F argument F optional F argumentasis F peek F array F peekchar F boolean F peekexpanded F hox F posit F bracketed F real F bracketedasis F scanclose F cardinal F scanopen F char F skip F cmdchr F skipexpanded F cmdchrexpanded F string F code F table F conditional F token F count F tokencode F csname F tokenlist

F csnameunchecked

F delimited

F tokens

F tokenstring

F toks	S toglue
F value	S tonumber
F vbox	S tostring
F verbatim	F create
F vtop	F defined
F whd	F flags
F word	F getinteger
F scannumber	T getters
F scanopen	F box
F scanoptional	F count
F scanposit	F cstoken
F scanstring	F dimen
F scantable	F glue
F scantokenlist	F macro
F scantokenstring	F meaning
F scantoks	F skip
F scanvbox	F token
F scanverbatim	F gobble
F scanvtop	F isactivestring
F scanword	F isdefined
F toboolean	F istoken
F todimen	F new
T tokens	F pickup
T accessors	F popmacro
F active	T presets
F cmd	F pushmacro
F cmdchrcs	F setinteger
F cmdname	T setters
F command	F box
F csname	F char
F expandable	F count
F frozen	F dimen
F index	F glue
F name	F lua
F protected	F macro
F range	F skip
F astable	T shortcuts
D cache	N close
D commands	F inspect
F compile	N open
F constant	F report
T converters	F scanargument
S toboolean	F scanargumentasis
S todimen	F scanarray

F scanboolean F scanletters F scanbox F scanlist F scanbracketed F scanlua F scanbracketedasis F scannumber F scancardinal F scanopen F scanoptional F scanclose F scancode F scanposit F scanconditional F scanstring F scancsname F scantable F scancsnameunchecked F scantokenlist F scandelimited F scantokenstring F scandetokened F scantoks F scanvbox F scanverbatim

F scandimen F scandimension F scandimensionargument F scanvtop F scanfloat F scanword F scanglue F toboolean F scangluespec F todimen F scangluevalues F tonumber F scanhash F tostring F scanhbox D values F scaninteger F tonumber F scanintegerargument F tostring

F scankeyword values data table

F scankeywordcs

tracers (context)

printerror function printwarning function

showlines function

trackers (context)

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

typesetters (context)

alignments	table	T actions	
F handler		F handler	
F set		F set	
breakpoints	table	directions	table
F define		F getfences	
F handler		F getglobal	
D mapping		F getmethod	
T methods		F handler	
T numbers		T handlers	
F set		F installhandler	
F setreplacement		F set	
cases	table	F setcolor	
T actions		F tomode	
F handler		firstlines	table
F register		T actions	
F set		F default	
characteralign	table	F line	
F handler		F word	
F resetcharacter	align	F handler	
F setcharacteral	ign	F set	
characters	table	fontkerns	table
F handler		F handler	
T methods		initials	table
F replacenbsp		T actions	
F replacenbspace	S	F default	
checkers	table	F handler	
F handler		F set	
F reset		injectors	table
F set		F check	
cleaners	table	T list	
F handler		F mark	
F set		F reset	
compare	table	F set	
F handler		F show	
F reset		italics	table
F set		F enablemath	
F setpair		F enabletext	
F setup		F handler	
corrections	table	kerns	table
F handler		D factors	
digits	table	F handler	
urgrid	cabic	i ildilatei	

F keepligature F stripped D mapping F tostring rubies table F set localboxes table F attach F handler F check manipulators table showinvisibles function function showsuspects F apply table F applyspecification spacings T methods F define F Word F handler F Words D mapping F abbreviatedjournal T numbers F expandedjournal T frenchpunctuation F lowercase T characters F stripperiod S name F uppercase N number T patterns F reset II list F set U pair F setup stacking table F splitspecification margins table F getindex F finalhandler F getselection F globalhandler F handler F localhandler swapping table F save F handler marksuspects function svnchronize table table paragraphs F handler tighten table F addanchortoline F addtoline F handler table wrappers F calculatedelta **xtables** table F checkline F moveinline F cleanup periodkerns table F construct D factors F create F handler F finish row D mapping F flush F set F initialize construct processors table F initialize reflow height F apply F initialize reflow width F register F next row F reset F reflow height F reflow width F split F set construct F startapply

F stopapply

F set_reflow_height
F set reflow width

updaters (context)

apply function
register function

url (context)

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

utf8 (basic lua)

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

utilities (context)

dah	+-h1-	_		
debugger	table		readsignedbyte	
F disable			readstring	
F enable			readtag	
F savestats			setposition	
F showstats			size	
F showtraceback			skip	
files	table		skiplong	
F close			skipposition	
F getposition			skipshort	
F getsize			writebyte	
F look			writecardinal1	
F open			writecardinal1	
F read2dot14			writecardinal2	
F readbyte			writecardinal2	
F readbytes			writecardinal3	
F readbytetable	e		writecardinal3	
F readcardinal		F	writecardinal4	
F readcardinal1	1	F	writecardinal4	le
F readcardinal1	lle	F	writeinteger1	
F readcardinal2	2	F	writeinteger1l	е
F readcardinal2	2le	F	writeinteger2	
F readcardinal3	3	F	writeinteger2l	е
F readcardinal3	3le	F	writeinteger3	
F readcardinal	4	F writeinteger3le		
F readcardinal	4le	F writeinteger4		
F readcardinal	table	F	writeinteger4l	е
F readchar		F	writestring	
F readcline		form	natters	table
F readcstring		F	formatcolumns	
F readfixed2		F	list	
F readfixed4		F	stripzeros	
F readinteger		ghos	stscript	table
F readinteger1		F	convert	
F readinteger1	le	F	statistics	
F readinteger2		grap	ohicmagick	table
F readinteger2	le	F	convert	
F readinteger3		F	statistics	
F readinteger3	le	grap	ohicsmagick	table
F readinteger4		F	convert	
F readinteger4	le	F	statistics	
F readintegerta	able	jsor	1	table

F load	T hashes
F tojson	T settings_to_list
F tolua	T settings_to_set
F tostring	T min,max,fit,broad,auto
lua table	B auto
B alwaysstripcode	B broad
F checkmemory	B fit
F compile	B max
F loadedluacode	B min
F loadstring	T text,hidden,paper,page,leftpage,rightpage
F loadstripped	B hidden
N nofstrippedbytes	B leftpage
N nofstrippedchunks	B page
F registerfinalizer	B paper
B stripcode	B rightpage
T strippedchunks	B text
F strippedloadstring	F iterator
T suffixes	F keq_to_hash
S lmt	F listitem
S lua	F make_settings_to_hash_pattern
S luc	F mergehashes
S lui	F options_to_array
S luj	F options_to_hash
S luv	T patterns
S tma	U settings_to_array
S tmc	U settings_to_hash_a
S tua	U settings_to_hash_b
S tuc	U settings_to_hash_c
packers table	U settings_to_hash_d
F hashed	U unittotex
F new	F process_stripped_settings
F pack	F rfc4180splitter
F simplehashed	F runtime
F strip	F settings_to_array
F unpack	F settings_to_array_obey_fences
N version	F settings_to_array_with_repeat
parsers table	F settings_to_hash
F add_settings_to_array	F settings_to_hash_colon_too
F arguments_to_table	F settings_to_hash_strict
F array_to_string	F settings_to_hash_tolerant
F csvsplitter	F settings_to_numbers
F getparameters	F settings_to_set
F groupedsplitat	F simple_hash_to_string
F hash_to_string	F splitmethod

F splitthousands	F new
F stepper	F register
F stripped_settings_to_array	F report
F totime	Freset
F unittotex	F show
F unittoxml	signals table
randomizer table	S configuration
F get	F initialize
F getnumber	F loadstate
F getrepeatable	F report
F getrepeatableseed	F savestate
F getseed	F serialclose
F newrepeatable	F serialfast
F popseed	F serialopen
F pushseed	F serialsend
F repeatable	F serialwrite
F reuseseed	N version
F setseed	stacker table
F setseedi	F new
randomizers table	storage table
F poisson	F allocate
sequencers table	F checked
• F appendaction	F mark
F appendgroup	F marked
F compile	F setinitializer
F disableaction	F sparse
F disablegroup	streams table
F enableaction	F close
F enablegroup	F getposition
D functions	F getsize
F localize	F getstring
F new	F look
F nodeprocessor	F open
F prependaction	F openstring
F prependgroup	F read2dot14
F removeaction	F readbyte
F replaceaction	F readbytes
F setkind	F readbytetable
F tostring	F readcardinal
setters table	F readcardinal1
F disable	F readcardinal1le
F enable	F readcardinal2
F enable F initialize	

F readcardinal3le	T striplingpattorns	
F readcardinal4	T striplinepatterns U collapse	
F readcardinal4le	U collapse all	
F readcardinaltable	U prune	
F readchar	·	
F readcline	U prune and collapse	
	U prune and no empty	
F readcstring	U prune and to space	
F readfixed2	U retain	
F readfixed4	U retain and collapse	
F readinteger	U retain and no empty	
F readinteger1	F striplines	
F readinteger1le	F striplong	
F readinteger2	F tabtospace	
F readinteger2le	T tracers	
F readinteger3	tables table	
F readinteger3le	F accesstable	
F readinteger4	F definedtable	
F readinteger4le	F definetable	
F readintegertable	F encapsulate	
F readsignedbyte	F insertaftervalue	
F readstring	F insertbeforevalue	
F setposition	F migratetable	
	•	
F size	F removevalue	
F size F skip	F removevalue F replacevalue	
F size F skip F skipbytes	F removevalue F replacevalue tar table	
F size F skip F skipbytes F skiplong	F removevalue F replacevalue tar table T archives	
F size F skip F skipbytes F skiplong F skipshort	F removevalue F replacevalue tar table T archives F closearchive	
F size F skip F skipbytes F skiplong F skipshort F tocardinal1	F removevalue F replacevalue tar table T archives F closearchive T files	
F size F skip F skipbytes F skiplong F skipshort F tocardinal1 F tocardinal1	F removevalue F replacevalue tar table T archives F closearchive T files F fetch	
F size F skip F skipbytes F skiplong F skipshort F tocardinal1 F tocardinal1e F tocardinal2	F removevalue F replacevalue tar table T archives F closearchive T files F fetch F hash	
F size F skip F skipbytes F skiplong F skipshort F tocardinal1 F tocardinal2 F tocardinal2le	F removevalue F replacevalue tar table T archives F closearchive T files F fetch F hash F list	
F size F skip F skipbytes F skiplong F skipshort F tocardinal1 F tocardinal2 F tocardinal2le F tocardinal3	F removevalue F replacevalue tar table T archives F closearchive T files F fetch F hash F list F pack	
F size F skip F skipbytes F skiplong F skipshort F tocardinal1 F tocardinal2 F tocardinal2le F tocardinal3 F tocardinal3le	F removevalue F replacevalue tar table T archives F closearchive T files F fetch F hash F list F pack F unpack	
F size F skip F skipbytes F skiplong F skipshort F tocardinal1 F tocardinal2le F tocardinal2le F tocardinal3 F tocardinal3le F tocardinal4	F removevalue F replacevalue tar table T archives F closearchive T files F fetch F hash F list F pack F unpack F openarchive	
F size F skip F skipbytes F skiplong F skipshort F tocardinal1 F tocardinal2le F tocardinal2le F tocardinal3 F tocardinal3le F tocardinal4 F tocardinal4	F removevalue F replacevalue tar table T archives F closearchive T files F fetch F hash F list F pack F unpack F openarchive T registeredfiles	
F size F skip F skipbytes F skipbytes F skipshort F tocardinal1 F tocardinal1le F tocardinal2 F tocardinal2le F tocardinal3 F tocardinal3le F tocardinal4 F tocardinal4le strings table	F removevalue F replacevalue tar table T archives F closearchive T files F fetch F hash F list F pack F unpack F openarchive T registeredfiles T streams	
F size F skip F skipbytes F skipbytes F skipshort F tocardinal1 F tocardinal2 F tocardinal2 F tocardinal3 F tocardinal3 F tocardinal4 F tocardinal4 F tocardinal4 F tocardinal4 F tocardinal5 Strings table F collapse	F removevalue F replacevalue tar table T archives F closearchive T files F fetch F hash F list F pack F unpack F openarchive T registeredfiles T streams F fetch	
F size F skip F skipbytes F skipbytes F skipshort F tocardinal1 F tocardinal2le F tocardinal2le F tocardinal3le F tocardinal4 F tocardinal4 F tocardinal4le Strings F collapse F collapse	F removevalue F replacevalue tar table T archives F closearchive T files F fetch F hash F list F pack F unpack F openarchive T registeredfiles T streams F fetch F hash	
F size F skip F skipbytes F skipbytes F skiplong F skipshort F tocardinal1 F tocardinal2le F tocardinal2le F tocardinal3le F tocardinal3le F tocardinal4le Strings F collapse F collapsecrlf T formatters	F removevalue F replacevalue tar table T archives F closearchive T files F fetch F hash F list F pack F unpack F openarchive T registeredfiles T streams F fetch F hash F list	
F size F skip F skipbytes F skipbytes F skiplong F skipshort F tocardinal1 F tocardinal2le F tocardinal2le F tocardinal3 F tocardinal3le F tocardinal4 F toc	F removevalue F replacevalue tar table T archives F closearchive T files F fetch F hash F list F pack F unpack F openarchive T registeredfiles T streams F fetch F hash F list F pack	
F size F skip F skipbytes F skipbytes F skipshort F tocardinal1 F tocardinal2le F tocardinal2le F tocardinal3 F tocardinal3le F tocardinal4le Strings table F collapse F collapse F collapsecrlf T formatters F add F new	F removevalue F replacevalue tar table T archives F closearchive T files F fetch F hash F list F pack F unpack F openarchive T registeredfiles T streams F fetch F hash F list F pack F unpack F openarchive	
F size F skip F skipbytes F skipbytes F skipshort F tocardinal1 F tocardinal2 F tocardinal2le F tocardinal3 F tocardinal3le F tocardinal4 F tocardinal4 F tocardinal4 F tocardinal4 F tocardinal4 F tocardinal4 F tocardinal5 F tocardinal6 F rollapse F collapse F collapse F collapsecrlf T formatters F add F new F newcollector	F removevalue F replacevalue tar table T archives F closearchive T files F fetch F hash F list F pack F unpack F openarchive T registeredfiles T streams F fetch F hash F list F pack T streams F fetch F hash F list F pack F unpack F unpack F openarchive T registeredfiles	
F size F skip F skipbytes F skipbytes F skipshort F tocardinal1 F tocardinal2le F tocardinal2le F tocardinal3 F tocardinal3le F tocardinal4le Strings table F collapse F collapse F collapsecrlf T formatters F add F new	F removevalue F replacevalue tar table T archives F closearchive T files F fetch F hash F list F pack F unpack F openarchive T registeredfiles T streams F fetch F hash F list F pack F unpack F openarchive	

F list F close F pack F found F unpack F hash table templates F list F load F open F replace F unzip F replacer F unzipdir F zipdir F resolve

vector (context)

add	function	homogenize	function
append	function	identity	function
average	function	inner	function
ceiling	function	insert	function
checkoverlap	function	inverse	function
collectoverlap	function	ismesh	function
concat	function	issingular	function
contour	table	isvector	function
F average		iszero	function
F bounds		mesh	table
F checkoverlap		F get	
F collectoverlap		F getdimensions	
F getarea		Fismesh	
F getmesh		F new	
F makemesh		F set	
F overlapping		F tostring	
F show		F totable	
F sort		F type	
сору	function	meshname	function
crossproduct	function	mul	function
delete	function	negate	function
determinant	function	new	function
div	function	normalize	function
equal	function	onecolumn	function
exchange	function	onerow	function
floor	function	product	function
get	function	remove	function
getdimensions	function	replace	function
getepsilon	function	round	function
getmesh	function	rowechelon	function
getrc	function	set	function
getrow	function	setepsilon	function
getstacking	function	setnext	function
gettype	function	setrc	function
helpers	table	setstacking	function
F points		slice	function
F transform		sort	function
F xrotation		sub	function
F xyzscale		swap	function
F yrotation		tostring	function
F zrotation		totable	function

transposefunctiontruncatefunctiontriangulatefunctiontypefunction

visualizers (context)

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

xcomplex (extra lua)

I	function	erf	function
add	function	erfc	function
div	function	erfcx	function
eq	function	erfi	function
mul	function	exp	function
name	string	i	function
pow	function	imag	function
sub	function	log	function
tostring	function	new	function
unm	function	pow	function
abs	function	proj	function
acos	function	real	function
acosh	function	sin	function
arg	function	sinh	function
asin	function	sqrt	function
asinh	function	tan	function
atan	function	tanh	function
atanh	function	topair	function
conj	function	tostring	function
cos	function	totable	function
cosh	function	voigt	function
dawson	function	voigt_hwhm	function

xdecimal (extra lua)

add	function	bxor	function
band	function	conj	function
bor	function	сору	function
bxor	function	exp	function
div	function	getprecision	function
eq	function	ln	function
idiv	function	log	function
le	function	max	function
lt	function	min	function
mod	function	minus	function
mul	function	new	function
name	string	plus	function
pow	function	pow	function
shl	function	rotate	function
shr	function	setprecision	function
sub	function	shift	function
tostring	function	sqrt	function
unm	function	toengstring	function
abs	function	tonumber	function
band	function	tostring	function
bor	function	trim	function

xmath (extra lua)

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

xml (context)

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

F idstring		F tags	
F lower		F text	
F name		F upper	
F number		F upperall	
F oneof		F url	
F print		F xml	
F quit		T xml	
F tag		F all	
F text		F att	
F undefined		F attribute	
F upper		F attributes	
fillin	function	F cdata	
filter	function	F chainattribute	
finalizers	table	F count	
F paragraphs		F default	
T tex		F elements	
F all		F empty	
F attribute		F first	
F chainattribute		F function	
F chainpath		F index	
F collapsed		F last	
F command		F lowerall	
F concat		F match	
F concatrange		F name	
F context		F position	
F count		F reverse	
F ctxtext		F table	
F default		F tag	
F depth		F tags	
F first		F text	
F function		F texts	
F index		F tomacro	
F last		F upperall	
F lettered		F url	
Flower		first	function
F lowerall		found	function
F match		functions	table
F name		F classes	
F param		F hasclass	
F parameter		getbuffer	function
F position		gethandlers	function
F reverse		gethandlersfunction	function
F stripped		helpers	table
F tag		F recursetext	

include	function	F tex	
inclusion	function	placeholders	table
inclusions	function	F unknown_any_entity	
index	function	F unknown_dec_entity	
inheritattributes	function	F unknown_hex_entity	
inheritedconvert	function	popmatch	function
inject	function	position	function
<pre>inject_element</pre>	function	privatecodes	data table
<pre>inject_element_after</pre>	function	privatetoken	function
<pre>inject_element_before</pre>	function	process	function
injectafter	function	<pre>process_attributes</pre>	function
injectbefore	function	process_elements	function
insert	function	processattributes	function
insert_element	function	profiled	table
<pre>insert_element_after</pre>	function	pure	function
<pre>insert_element_before</pre>	function	pushmatch	function
insertafter	function	raw	function
insertbefore	function	registerentity	function
insertcdata	function	registerns	function
insertcomment	function	reindex	function
inspect	function	remap_name	function
is_valid	function	remap_namespace	function
kind	function	remap_tag	function
last	function	remapname	function
lastmatch	function	remapnamespace	function
load	function	remaptag	function
lpath	function	rename	function
lpathcached	function	renamespace	function
lpathcalls	function	reparsedentitylpeg	userdata
lshow	function	replace	function
makestandalone	function	replace_element	function
match	function	resetinjectors	function
mml	table	resolvens	function
F stripped		root	function
F verbose		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

settings	function
specialcodes	data table
specialhandler	table
sprint	function
string	function
strip	function
strip_whitespace	function
stripelement	function
stripleadingspaces	function
table	function
text	function
textonly	function
texttocdata	function
tocdata	function
toelement	function

function
function
userdata
function
table

xzip (extra lua)

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

zip (context)

archives table
closearchive function

openarchive function
registeredfiles table

zlib (context)

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