

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

global (alias: _G)

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

libraries	table	popleaderlevel	function
lmx	table	print	function
load	function	publications	table
loaders	data table	pushleaderlevel	function
loadfile	function	rawequal	function
loadstring	function	rawget	function
logs	table	rawlen	function
lpdf	table	rawset	function
lpeg	table	recolor	function
lua	table	regimes	table
luac	table	require	function
luatex	table	required	function
lxml	table	resolvers	table
math	table	ruledspace	function
mathematics	table	sandbox	table
mathshapekern	function	scripts	table
md5	table	select	function
metapost	table	set	table
mime	table	setinspector	function
moduledata	table	setmathparameters	function
modules	table	setmetatable	function
mp	function	sha2	table
mplib	table	shipbox_ref_h	number
next	function	shipbox_ref_v	number
noads	table	sio	table
node	table	socket	table
nodes	table	sorters	table
number	table	sparse	table
objects	table	statistics	table
optional	table	status	table
optionalrequire	function	storage	table
os	table	streams	table
p_number_p	userdata	string	table
p_number_u	userdata	structures	table
package	table	table	table
pagebuilders	table	tex	table
pairs	function	texconditionals	data table
parametersets	table	texconfig	table
pcall	function	texconstants	data table
pdf	table	texifs	data table
pdfdecode	table	texio	table
pdfc	table	texisdefined	data table
physics	table	texmodes	data table
pngdecode	table	texsystemmodes	data table

thirddata	table	userdata	table
toboolean	function	utf	table
todecimal	function	utf8	table
token	table	utilities	table
tokens	table	visualizers	table
tonumber	function	warn	function
tostring	function	xcomplex	table
tracers	table	xdecimal	table
trackers	table	xmath	table
type	function	xml	table
typesetters	table	xpcall	function
unpack	function	xzip	table
updaters	table	zip	table
url	table	zlib	table

aes (context)

decode function
encode function

random function

attributes (context)

alternates table

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

applyoverloads function

checkvalues function

colorintents table

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

colors table

N attribute
F cmyk
F cmyktogray
F cmyktorgb
F colorcomponents
D counts
B couple
F currentmodel
F currentnamedmodel
D data
N default
F defineintermediatecolor
F definemultitonecolor
F defineprocesscolor
F defineprocesscolordirect
F definesimplegray
F definespotcolor
F definetransparency
F enable
F filter
N forced
F forcedmodel
F forcesupport

F formatcolor
F formatgray
F getpagecolormodel
F gray
F graytohsv
F handler
T helpers
F complement
F inbetween
F justone
F hsvtogray
F hsvtorgb
F hwbtorgb
F iccprofile
F isblack
F labtorgb
F labtoxyz
N main
S model
D models
F mpcolor
F mpnamedcolor
F mpoptions
F namedcolorattributes
N none
F popset
F processcolorcomponents
F pushset
F register
D registered
F registerspotcolor
F rgb
F rgbtocmyk
F rgbtogray
F rgbtohsv
F rgbtoxyz
N selector
F setlist
F setmodel
F setpagecolormodel
D sets

F spec	
F spot	
F spotcolorname	
F spotcolorparent	
F spotcolorvalue	
B supported	
F toattributes	
F transparencycomponents	
B triggering	
F usecolors	
D valid	
F value	
D values	
B weightgray	
F xyztolab	
F xyztorgb	
counts	data table
define	function
effects	table
N attribute	
D data	
F enable	
F handler	
F register	
D registered	
D values	
getvalue	function
getvalues	function
handlers	table
hasvalues	function
list	data table
markasoverload	function
names	data table
negatives	table
N attribute	
D data	
F enable	
F handler	
F register	
D registered	
F set	
numbers	data table
ofnode	function
private	function

public	function
registervalue	function
restore	function
save	function
setcleaner	function
showcurrent	function
states	table
F disabletriggering	
F enabletriggering	
F finalize	
F initialize	
F process	
F selective	
F simple	
F stacked	
F stacker	
system	function
tooverloads	function
transparencies	table
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	
N none	
N normal	
N overlay	
N saturation	
N screen	
N softlight	
N none	
F register	

D registered	F handler
B supported	B hasorder
F toattribute	D listwise
B triggering	F register
F value	D registered
D values	F resolve_begin
unsetvalue	F resolve_end
values	F resolve_reset
viewerlayers	F resolve_step
N attribute	D scopes
F cleanup	F setfeatures
D data	F start
F define	F stop
F definedlayoutcomponent	B supported
F enable	D values
F forcesupport	

backends (context)

closeout function

codeinjections table

F registerboxresource

F restoreboxresource

current string

defaults table

T codeinjections

F prerollreference

F vfstartcolor

F vfstopcolor

T nodeinjections

F cmykcolor

F destination

F graycolor

F injectknockout

F injectoverprint

F reference

F rgbcolor

F spotcolor

F transparency

T registrations

F transparency

D tables

getcallbackstate function

included table

B context

B date

B id

B metadata

B pdf

initialize function

latelua function

nodeinjections table

nothing function

openout function

registered table

T pdf

T codeinjections

F addbookmarks

F analyzenormalsymbol

F analyzesymbol

F attachmentid

F bitmap

F clonefield

F copyimage

F definefield

F definefieldset

F defineviewerlayer

F embedfile

F embedimage

F enabletags

F exportformdata

F fieldsurrounding

F flushmergelayer

F getbookmarks

F getboxresourcebox

F getdefaultfieldvalue

F getfieldcategory

F getfieldset

F getformatoption

F getinfo

F getpreviewfigure

F getrefobj

F insertrenderingwindow

F jp2

F jpg

F maptag

F mergebookmarks

F mergecomments

F mergefields

F mergereferences

F mergeviewerlayers

F newimage

F png

F prerollreference

F presetsymbol

F presetsymbollist

F processrendering

F registerdocumentcloseaction

F registerdocumentopenaction

F registeredsymbol

F registerpagecloseaction

- F registerpageopenaction
- F registerpattern
- F registersymbol
- F ruleactionbox
- F ruleactiondraw
- F ruleactionfill
- F ruleactionmp
- F ruleactionstroke
- F saveboxresource
- F scanimage
- F setattachmentsupport
- F setencryption
- F setfieldcalculationset
- F setfigurealternative
- F setfigurecolorspace
- F setfiguremask
- F setformat
- F setformsmethod
- F setpagetransition
- F settaggingsupport
- F setxmpfile
- F startlayer
- F startunicodetoactualtext
- F startunicodetoactualtextdirect
- F stoplayer
- F stopunicodetoactualtext
- F stopunicodetoactualtextdirect
- F supportedformats
- F unicodetoactualtext
- F useviewerlayer
- F validfield
- F validfieldcategory
- F validfieldset
- F vfstartcolor
- F vfstopcolor
- F wrapimage

S name

T nodeinjections

- F addtags
- F annotation
- F attachfile

- F changestackedlayer
- F cmykcolor
- F comment
- F destination
- F effect
- F getboxresourcedimensions
- F graycolor
- F injectbitmap
- F insertu3d
- F knockout
- F negative
- F overprint
- F positive
- F reference
- F rgbcolor
- F spotcolor
- F startalternate
- F startlayer
- F startstackedlayer
- F stopalternate
- F stoplayer
- F stopstackedlayer
- F transparency
- F typesetfield
- F useboxresource

T registrations

- F cmykindexcolor
- F cmykspotcolor
- F getspotcolorreference
- F grayindexcolor
- F grayspotcolor
- F rgbindexcolor
- F rgbspotcolor
- F spotcolorname
- F transparency

T tables

registrations	table
setencryption	function
tables	table
writeout	function

basexx (extra lua)

decode16 function

decode64 function

decode85 function

decodeLZW function

decodeRL function

encode16 function

encode64 function

encode85 function

encodeLZW function

encodeRL function

bit32 (basic lua)

arshift function
band function
bnot function
bor function
btest function
bxor function

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

blobs (context)

append	function
dimensions	function
dispose	function
new	function
pack	function
strdp	function
strhd	function

strht	function
strwd	function
tohpack	function
tonodes	function
tovpack	function
write	function

boolean (context)

tocontext function

tonumber function

buffers (context)

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

builders (context)

checkparcontext function

checksidefloat function

kernel table

F collapsing

F hyphenating

F kerning

F ligaturing

F mlisttohlist

local_box_filter function

paragraphs table

T constructors

N attribute

F define

F disable

F enable

F handler

T methods

F basic

F default

F hpack

F oneline

D names

D numbers

F set

F start

F stop

T expansion

F trace

F keptogether

F registertogether

T solutions

T splitters

F define

F optimize

T registered

F reset

F set

F split

F start

F stop

F tag

profiling table

F add

F distance

F fixedprofile

F get

F list

F pagehandler

F profilebox

F set

vspacing table

D categories

F checkstrutdepth

F collapsevbox

T data

D map

D skip

D snapmethods

F definesnapmethod

B fixed

F flushcontributions

F forcepageflush

F forcestrutdepth

F getnofpreviouslines

F inject

F injectdisable

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

cache (context)

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

callback (basic tex)

find function
known function
list function

register overloaded function
usage function

callbacks (context)

freeze function

functions table

F start_page_number

F stop_page_number

known function

list data table

pop function

push function

register function

report function

supported table

B alignment_filter

B append_line_filter

B append_to_vlist_filter

B begin_paragraph

B build_page_insert

B buildpage_filter

B define_font

B find_format_file

B find_log_file

B get_attribute

B get_math_dictionary

B get_noad_class

B glyph_run

B handle_overload

B hpack_filter

B hpack_quality

B hyphenate

B insert_par

B intercept_lua_error

B intercept_tex_error

B kerning

B ligaturing

B linebreak_filter

B local_box_filter

B make_extensible

B math_rule

B missing_character

B mlist_to_hlist

B open_data_file

B packed_vbox_filter

B paragraph_context

B post_linebreak_filter

B pre_dump

B pre_linebreak_filter

B pre_output_filter

B process_jobname

B register_extensible

B show_error_message

B show_lua_call

B show_warning_message

B show_whatsit

B start_file

B start_run

B stop_file

B stop_run

B trace_memory

B vpack_filter

B vpack_quality

B wrapup_run

catcodes (context)

names data table

numbers data table

register function

characters (context)

adobename	function	N nary relation	
bid	data table	N nary set	
blockrange	function	N nary set list	
blocks	data table	N nary set relation	
casemap	table	N nary statistics	
categories	data table	N partial	
category	function	N product	
categorytags	data table	N quantifier	
classifiers	table	N unary arithmetic	
collapsed	data table	N unary elementary	
combined	data table	N unary functional	
contextname	function	N unary linear algebra	
csletters	data table	N unary logical	
data	data table	N unary set	
decomposed	data table	N unary vector	
description	function	directions	table
descriptions	data table	emoji	table
detailtags	data table	F compact	
dictionaries	table	F known	
T data		F resolve	
T groups		emojized	function
T names		encodes	data table
N binary arithmetic		entities	data table
N binary linear algebra		fallbacks	data table
N binary logical		filters	data table
N binary relation		fractions	table
N binary set		fromnumber	function
N constant arithmetic		fschars	data table
N constant set		fscodes	data table
N default		getrange	function
N differential		graphemes	data table
N integral		hangul	data table
N interval		indicgroups	table
N lambda		T above_mark	
N limit		T after_half	
N nary arithmetic		T after_main	
N nary constructor		T after_postscript	
N nary functional		T after_subscript	
N nary linear algebra		T anudatta	
N nary logical		T before_half	
N nary minmax		T before_main	

T before_postscript		scripthash	table
T before_subscript		setactivecatcodes	function
T below_mark		setlettercatcodes	function
T consonant		setothercatcodes	function
T dependent_vowel		shape	function
T halant		shaped	function
T independent_vowel		shash	data table
T nukta		shchars	data table
T post_mark		shcodes	data table
T pre_mark		showstring	function
T ra		specialchars	data table
T stress_tone_mark		specials	data table
T twopart_mark		splits	table
T vowel_modifier		T char	
initialize	function	T compat	
is_character	data table	subscripts	table
is_command	data table	superscripts	table
is_hyphenator	data table	synonyms	data table
is_letter	data table	tex	table
is_mark	data table	D accentmapping	
is_punctuation	data table	D commandmapping	
is_spacing	data table	F defineaccents	
is_symbol	data table	F safechar	
lcchars	data table	F strtoutf	
lccode	function	F strtoutfpattern	
lccodes	data table	F toutf	
lettered	function	F toutfpattern	
lhash	data table	textclasses	table
linebreaks	data table	tonumber	function
lower	function	ucchars	data table
mathlists	data table	uccode	function
mirrors	table	uccodes	data table
otfscripts	data table	uhash	data table
private	table	unicodechar	function
ranges	data table	upper	function
registerentities	function	verbosemarks	data table
remap_hangul_syllabe	function		

chemistry (context)

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

containers (context)

cleanname function
content function
define function
is_usable function

is_valid function
read function
usecache boolean
write function

converters (context)

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

uchexnumbers

upper

verbose

D data

function

function

table

F translate

weekday

word

words

function

function

function

coroutine (basic lua)

close	function
create	function
isyieldable	function
resume	function

running	function
status	function
wrap	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
current	function
expandname	function
found	function
glob	function
globdirs	function
globfiles	function

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

directives (context)

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

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

document (context)

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

documentdata (context)

variable function

drivers (context)

applyanchor	function	F updatefontstate
applyorientation	function	T whatsit
convert	function	S name
converters	table	T json
F analyze		T actions
F engine		F cleanup
F lmtx		F convert
F resyncbox		F finalize
enable	function	F initialize
gethpos	function	F outputfilename
getpos	function	F prepare
getrpos	function	F wrapup
getvpos	function	T flushers
helpers	table	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 popleaderlevel		T whatsit
F pushleaderlevel		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		F wrapup
F prepare		T flushers
F wrapup		F character
T flushers		F popleaderlevel
F character		F pushleaderlevel
F popleaderlevel		F rule
F pushleaderlevel		F simplerule
F rule		F specialrule
F simplerule		F updatefontstate
F specialrule		T whatsit

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

environment (context)

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

experiments (context)

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

figures (context)

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

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

file (basic lua)

addsuffix	function
basename	function
checksum	function
collapsepath	function
copy	function
dirname	function
expandname	function
extname	function
is_qualified_path	function
is_readable	function
is_rootbased_path	function
is_writable	function
isreadable	function
iswritable	function
join	function
joinpath	function
loadchecksum	function
nameonly	function
nametotable	function
needs Updating	function

needsupdating	function
pathpart	function
readdata	function
removesuffix	function
replacesuffix	function
reslash	function
robustname	function
savechecksum	function
savedata	function
size	function
splitbase	function
splitname	function
splitpath	function
strip	function
suffix	function
suffixes	function
suffixesonly	function
suffixonly	function
syncmtimes	function
withinbase	function

fio (extra lua)

getposition	function
read2dot14	function
readbytes	function
readbytetable	function
readcardinal1	function
readcardinal1le	function
readcardinal2	function
readcardinal2le	function
readcardinal3	function
readcardinal3le	function
readcardinal4	function
readcardinal4le	function
readcardinaltable	function
readcline	function
readcstring	function
readfixed2	function
readfixed4	function
readinteger1	function

readinteger1le	function
readinteger2	function
readinteger2le	function
readinteger3	function
readinteger3le	function
readinteger4	function
readinteger4le	function
readintegertable	function
setposition	function
skipposition	function
writecardinal1	function
writecardinal1le	function
writecardinal2	function
writecardinal2le	function
writecardinal3	function
writecardinal3le	function
writecardinal4	function
writecardinal4le	function

floats (context)

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

font (basic tex)

addcharacters	function
current	function
define	function
getfont	function
getfontdimen	function
getfontspec	function
getmathindex	function

getmathspec	function
id	function
max	function
nextid	function
setfont	function
setfontdimen	function

fonts (context)

analyzers

table

- D features
- D initializers
- D methods
- F setstate
- D states
- B useunicodemarks

checkers

table

- F getmissing
- D mapping
- F missing
- F placeholder

cid

table

- F getmap
- F loadfile

collections

table

- F checkenabled
- F clonevector
- F define
- T definitions
- F found
- F prepare
- F process
- F register
- F registermain
- F report
- F reset
- T vectors

constructors

table

- F addcharacters
- F addcoreunicodes
- F aftercopyingcharacters
- F applyfinalizers
- F applymanipulators
- F assignmathparameters
- F beforecopyingcharacters
- F beforepassingfonttotex
- D cache
- F calculatescale
- F checkedfeatures
- F checkedfilename

- F collectprocessors
- F currentfonthasfeature
- D designsizes
- F enhanceparameters
- T enhancers
 - T afm
 - F apply
 - F patch
 - T patches
 - F register
 - F report
 - F register
 - F report
- T otf
 - F addfeature
 - F apply
 - F enhance
 - F patch
 - T patches
 - F register
 - F report
 - F register
 - F report
- T tfm
 - F apply
 - F patch
 - T patches
 - F register
 - F report
 - F register
 - F report
- N factor
- T features
 - D afm
 - D otf
 - D tfm
- F finalize
- F getfeatureaction
- F getmathparameter
- F getprivate
- T handlers

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

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
F cffcheck	F getaxisscale
T cffencoder	F getfactors
F checkhash	F getscales
F cmap	F gotodatatable
F colr	F normalizedaxis
F compact	T normalizedaxisishash
F condense	F readvariationdata
F cpal	F reportskippedtable
F ebdt	F setvariabledata
F eblc	F hhea
F ebsc	F hmtx
F expand	F hvar
F extend	F kern
F fvar	F loadfont
F gdef	F loadshapes
F getcomponents	F loca
F getinfo	F math
F glyf	F maxp
F gpos	F mvar
T gposhandlers	F name
F chainedcontext	F os/2
F context	F pack
F cursive	F parsecharstrings
F extension	F post
F marktobase	F registerextender
F marktoligature	F rehash
F marktomark	F sbix
F pair	F stat
F single	T streamreader
F gsub	F close
T gsubhandlers	F getposition
F alternate	F getsizes
F chainedcontext	F look
F context	F open
F extension	F read2dot14
F ligature	F readbyte

F readbytes	F writecardinal4le
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 unifymissing
F readcstring	F unpack
F readfixed2	F vhea
F readfixed4	F vmtx
F readinteger	F vorg
F readinteger1	F vvar
F readinteger1le	F woff2otf
F readinteger2	F registerpalette
F readinteger2le	F registerplugin
F readinteger3	F reorderlookups
F readinteger3le	F scriptandlanguage
F readinteger4	F setdynamics
F readinteger4le	F setfeatures
F readintegertable	T statistics
F readsignedbyte	D usedfeatures
F readstring	D svgcache
F readtag	B svgenabled
F setposition	T tables
F size	D baselines
F skip	D features
F skiplong	D featuretypes
F skipposition	D languages
F skipshort	D scripts
F writebyte	F texthandler
F writecardinal1	T vectors
F writecardinal1le	T arab
F writecardinal2	T gpos
F writecardinal2le	N curs
F writecardinal3	N kern
F writecardinal3le	N mark
F writecardinal4	N mkmk

- T gsub
- N calt
- N ccmp
- N cswh
- N dlig
- N fina
- N init
- N isol
- N liga
- N medi
- N mset
- N rclt
- N rlig
- N version
- T pfb
- F loadvector
- T tfm
- D cache
- D features
- N maxnestingdepth
- N maxnestingsize
- T readers
- F loadpk
- F loadtfm
- F loadtfmfvf
- F loadvf
- F pktopdf
- F showpk
- F reencode
- F setfeatures
- N version
- T vf
- T combinations
- F combine
- T combiner
- D commands
- D helpers
- D math
- N version
- D whatever
- F hashfeatures
- F hashinstance
- T hashmethods
- F normal

- F virtual
- F initializefeatures
- D loadedfonts
- N noffontsloaded
- N nofsharedfonts
- N nofsharedhashes
- N nofsharedvectors
- N privateoffset
- D privateslots
- F readanddefine
- F registerfeature
- F resetfeature
- B resolvevirtualtoo
- F scale
- F scaled
- F setfactor
- F setfeature
- F setmathparameter
- F setname
- B sharefonts
- F trytosharefont
- N version

current	function
currentid	function
definers	table

- F addlookup
- F analyze
- F applypostprocessors
- F checkedmode
- F checkedscript
- S defaultlookup
- F define
- F getspecification
- F internal
- F loadfont
- F makespecification
- T methods
- F install
- D variants
- F read
- F register
- F registered
- F registerfallbackfont
- F registersplit

F resetnullfont		F opentype	
F resolve		F type1	
T resolvers		F type3	
F file		T multiple	
F name		F opentype	
F spec		T substitution	
definetypface	function	F opentype	
dropins	table	goodies	table
F clone		D colorschemes	
F getshape		T data	
F getshapes		T dejavu-math	
F nextid		S author	
F provide		S comment	
F registerglyph		S copyright	
F registerglyphs		B initialized	
F swap		T mathematics	
F swapone		T alternates	
effects	table	T dotless	
encodings	table	S comment	
T agl		S feature	
D ctxcodes		N value	
D extras		T bigslots	
D names		T parameters	
D synonyms		N AccentBaseDepth	
D unicodes		N DelimiterPercent	
D cache		N DelimiterShortfall	
F is_known		N DisplayOperatorMinHeight	
D known		N FractionRuleThickness	
F load		N NoLimitSubFactor	
F make_unicode_vector		N NoLimitSupFactor	
D math		N PrimeRaiseComposedPercent	
N version		N RadicalDegreeBottomRaisePercent	
enhanceid	function	N RadicalRuleThickness	
expansions	data table	T tweaks	
formats	data table	T aftercopying	
getalternate	function	S name	
getindices	function	S version	
getkern	function	D designsizes	
getmultiple	function	D filenames	
getsubstitution	function	F getcompositions	
getters	table	T list	
T alternate		F load	
F opentype		F prepare_features	
T kern		F register	

F registerpostprocessor
 F report
 T suffixes
handlers table
hashes table
 D characters
 D classes
 D csnames
 D descriptions
 D dynamics
 D emwidths
 D exheights
 D features
 D identifiers
 D italics
 D lastmathids
 D marks
 D mathparameters
 D modes
 D originals
 D parameters
 T processes
 D properties
 D quads
 D resources
 T setdynamics
 T shapes
 D spaces
 D spacings
 T streams
 D unicolors
 D unislots
 D variants
 D xheights

helpers table
 F addextraprivate
 F addprivate
 F appendcommands
 F appendcommandtable
 F checkflags
 F checkmerge
 F checksteps
 F collectanchors
 F combineglyphs

D commands
 F composecharacters
 F descriptiontoslot
 F dimenfactor
 F expandglyph
 T extraprivates
 F fontpatternhassize
 F getcoloredglyphs
 F getdigitwidth
 F getinstancespec
 F getparameters
 F getprivatecharornode
 F getprivatenode
 F getprivates
 F getprivateslot
 F hasprivate
 F indextoslot
 F mathscriptslots
 F name
 F nametoslot
 F newprivateslot
 F prependcommands
 F prependcommandtable
 F privateslot
 F registerglyphbox
 F scalecommands
 F setboxdirectly
 F setboxglyph
 F setboxglyphs
 F setdigitwidth
 F setmetaglyph
 F setmetaglyphs
 F splitfontpattern
 F tochar
 T vfinjectors
 F startcolor
 F stopcolor
 T vfspecials
 T backgrounds
 T outlines

infofont function
iterators table
 F characters
 F descriptions

F glyphs		F opentype	
loggers	table	F otf	
F format		F pfb	
F onetimemessage		D sequence	
F register		F tfm	
F reportdefinedfonts		F ttc	
F reportusedfeatures		F ttf	
mappings	table	F woff	
F addtounicode		registersanitizer	function
F fromunicode16		reserveid	function
F getentry		select	table
F loadfile		D alternatives	
F loadline		F bodyfont	
F makenameparser		D data	
D overloads		F default	
F reset		D defaults	
F tounicode		F definefallbackfamily	
F tounicode16		F definefontfamily	
F tounicode16sequence		F definefontfamilypreset	
metapost	table	D extras	
F boundingbox		F fallback	
F boxtomp		D fallbacks	
F draw		F features	
F fill		F filefallback	
F glyph		F fontdata	
F maxbounds		F fontfallback	
F paths		F fontsynonym	
F widthline		F goodies	
F zeroline		F mathfallback	
names	data table	D methods	
nulldata	data table	D presets	
privateoffsets	table	F registerfallback	
B keepnames		F registerfiles	
N mathbase		F registerfontalternative	
N mathextrabase		F registerfontfamily	
N textbase		F textfallback	
N textextrabase		F typeface	
protrusions	data table	F typescript	
readers	table	F userdata	
F afm		specifiers	table
F check_lua		D contextmerged	
F check_tfm		F contextnumber	
F lua		D contextnumbers	
F ofm		D contextsetups	

F contexttostring		F uselibrary	
F definecontext		tables	table
F mergecontext		toeffect	function
F presetcontext		tracers	table
F registercontext		treatments	table
F showcontext		F applyfixes	
F splitcontext		D data	
D synonyms		S filename	
D variants		F ignoredfile	
symbols	table	F report	
T emoji		F trace	
F checked		typefaces	table
F resolved			

functions (context)

dummy function

graphics (context)

backgrounds table

- F fetchmultipar
- F pair
- F path
- F point

bitmaps table

- F flush
- F new
- F placeholder
- F tocontext

identifiers table

- F bitmap
- F jp2
- F jpg
- F png

identify function

synchronizers table

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

gzip (extra lua)

compress function
compressed function
decompress function

load function
save function
suffix function

images (context)

check	function		B crop	
checksize	function		B media	
copy	function		B none	
create	function		B trim	
embed	function		storedata	function
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 code
- D codes
- F flushpreambles

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

linkedLists data table

pages table

F setpagetransition

F setupcanvas

references table

F setcloseddocumentaction

F setclosepageaction

F setopendocumentaction

F setopenpageaction

renderings data table

interfaces (context)

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

io (basic lua)

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

job (context)

comment	function	D tobesaved	
datasets	table	parwrappers	table
D collected		D collected	
F extend		D tobesaved	
F getdata		passes	table
F setdata		F check	
D tobesaved		D collected	
disablesave	function	F count	
embedded	table	F define	
D collected		F find	
D tobesaved		F first	
fileobjreferences	table	F get	
D collected		F getcollected	
D tobesaved		F getdata	
files	table	F getfield	
D collected		F gettobesaved	
F context		F inlist	
B forcerun		F last	
F run		F list	
D tobesaved		F save	
getrandomseed	function	F savetagged	
initialize	function	D tobesaved	
load	function	positions	table
loadother	function	F b_column	
objects	table	F b_region	
D collected		F c	
F get		D collected	
F number		F column	
F page		F columnofpos	
F save		F copy	
F set		F depth	
D tobesaved		F e_column	
pack	boolean	F e_region	
packversion	number	F enhance	
pagestates	table	F extra	
D collected		F get	
F countervalue		F getcolumndata	
F extend		F getfree	
F realpage		F gethpos	
F realpageorder		F getpos	
F setstate		F getreserved	

F getrpos
F getsync
F gettobesaved
F getvpos
F hangafter
F hangindent
F height
F hsize
N lastx
N lasty
F leftskip
F lowerleft
F lowerright
F markregionbox
F n
F onsamepage
F overlapping
F p
F page
F paragraph
F parindent
F position
F r
F region
F registerhandlers
F replace
F rightskip
F set
F setall
F setregionbox

F setspec
F settobesaved
D tobesaved
F upperleft
F upperright
F used
F whd
F width
F x
F xy
F y

register function
save function
structure table

D collected
T components
T tobesaved
T branches
S name
S type

variables table

D checksums
D collected
F getchecksum
F makechecksum
F restore
F save
F setchecksum
D tobesaved

version number

language (basic tex)

clean	function
clearhyphenation	function
clearpatterns	function
current	function
gethjcode	function
has_language	function
hyphenate	function
hyphenation	function
hyphenationmin	function

id	function
new	function
patterns	function
postexhyphenchar	function
posthyphenchar	function
preexhyphenchar	function
prehyphenchar	function
sethjcode	function
setwordhandler	function

languages (context)

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

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

layouts (context)

getcanvas	function	status	table
getpagedimensions	function	F isleftpage	
setupcanvas	function	F lefttorrightpageaction	

lfs (extra lua)

attributes	overloaded function
chdir	overloaded function
currentdir	function
dir	overloaded function
isdir	overloaded function
isfile	overloaded function
isfound	function
isreadabledir	function
isreadablefile	function
iswriteabledir	function

iswriteablefile	function
link	overloaded function
mkdir	overloaded function
makedirs	function
modification	function
readlink	function
rmdir	overloaded function
setexecutable	function
symlink	function
touch	overloaded function

libraries (context)

basiclua data table

basictex data table

builtin data table

extralua data table

extratex data table

functions data table

globals data table

lmx (context)

color	function
convert	function
convertfile	function
convertstring	function
einject	function
eprint	function
escape	function
finalized	function
finject	function
fprint	function
get	function
getvariables	function
htmfile	function
html	table
F a	
F td	
F th	
include	function
inherited	table
S color-background-four	
S color-background-one	
S color-background-three	
S color-background-two	
S title	
initialize	function
inject	function
lmxfile	function

loadedfile	function
make	function
new	function
overloaderror	function
popupfile	function
print	function
pv	function
report	function
reset	function
result	function
set	function
show	function
showerror	function
stripcss	function
tv	function
type	function
urlescape	function
variable	function
variables	table
S color-background-blue	
S color-background-body	
S color-background-green	
S color-background-main	
S color-background-purple	
S color-background-yellow	
S title-default	

logs (context)

application	function	setformats	function
categories	function	setformatters	function
direct	function	setlogfile	function
disable	function	setmessenger	function
enable	function	setprocessor	function
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	startererrorlogging	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	texerrormessage	function
reporter	function	writer	function
resetlogfile	function		

lpdf (context)

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

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		getinfo	function
N Comb		getmatrix	function
N CommitOnSelChange		getnofpages	function
N DoNotScroll		getpageproperties	function
N DoNotSpellCheck		getpagereference	function
N Edit		getpagetags	function
N FileSelect		getpos	function
N MultiLine		gettrailerid	function
N NoExport		getversion	function
N NoToggleToOff		getxformname	function
N Password		graycode	function
N PopUp		hasmatrix	function
N PushButton		immediateobject	function
N Radio		includeimage	function
N RadiosInUnison		initialize	function
N ReadOnly		injectors	table
N Required		F bitmap	
N RichText		F jp2	
N Sort		F jpg	
N file		F png	
N fixed		injectxmpinfo	function
N nocheck		insertxmpinfo	function
N protected		lastreferredpage	function
N readonly		layerreference	function
N required		limited	function
N sorted		linearshade	function
N unavailable		literal	function
flushfonts	function	majorversion	function
flushgroup	function	makenametree	function
flushobject	function	minorversion	function
flushstreamfileobject	function	nofpages	function
flushstreamobject	function	null	function

number	function	usedcharacters	table
object	function	usedfontnames	table
objectcompresslevel	function	N dejavusansmonoboldttf-1	
pagereference	function	usedfontobjects	table
patternstream	function	N dejavusansmonoboldttf-1	
pdfcolor	function	usedfontstreams	table
pdftimestamp	function	T dejavusansmonoboldttf-1	
print	function	T characters	
procset	function	T descriptions	
protectresources	boolean	T fonts	
rectangle	function	T goodies	
reference	function	S original	
registerannotation	function	T parameters	
registerdestination	function	N ascender	
registerdocumentfinalizer	function	N descender	
registerfont	function	N designsize	
registerinitializer	function	T expansion	
registerpagefinalizer	function	N shrink	
registerpattern	function	N step	
reserveobject	function	N stretch	
rgbcode	function	N extendfactor	
rotationcm	function	N extrafactor	
setcompression	function	N extraspace	
setencryption	function	N factor	
setincludecidset	function	N forcedsize	
setpageorder	function	N hfactor	
setpagestate	function	N mathsize	
setpagetag	function	N maxsize	
setversion	function	N minsize	
sharedobject	function	N mode	
shareobject	function	N quad	
shareobjectreference	function	N scaledpoints	
spotcode	function	N size	
stream	function	N slant	
string	function	N slantfactor	
toeight	function	N space	
topdfdoc	function	N spaceshrink	
tosixteen	function	N spacestretch	
transparency	function	N squeezefactor	
transparencycode	function	N textsize	
transparencygroups	table	N units	
B none		N vfactor	
transparencyvalue	function	N width	
unicode	function	N xheight	

T properties	T arab
S filename	B dflt
B finalized	T gsub
S fontname	T anum
S format	T arab
S fullname	B dflt
S hash	B urd
B hasmath	T camelcasing
N id	T *
S language	B *
S mode	T char-ligatures
S name	T *
S psname	B *
S script	T collapse
S sharedwith	T *
N subfont	B *
S writingmode	T compat-ligatures
T resources	T *
T alreadydone	B *
T classes	T dlig
T duplicates	T latn
T features	B dflt
T gpos	B ism
T mark	B ksm
T arab	B lsm
B dflt	B mol
T cyrl	B nsm
B dflt	B rom
B srb	B sks
T grek	B ssm
B dflt	T locl
T lao	T cyrl
B dflt	B srb
T latn	T latn
B dflt	B ism
B ism	B ksm
B ksm	B lsm
B lsm	B nsm
B mol	B sks
B nsm	B ssm
B rom	T lowercasing
B sks	T *
B ssm	B *
T mkmk	T primes

T *	N Ccircumflex
B *	N Cdotaccent
T tlig	N Chi
T *	N Circumflex
B *	N D
T trep	N Dcaron
T *	N Dcroat
B *	N Delta
T uppercasing	N Dieresis
T *	N E
B *	N Eacute
S filename	N Ebreve
S foundfilename	N Ecaron
T foundtables	N Ecircumflex
T markclasses	N Edieresis
T marks	N Edotaccent
T marksets	N Egrave
N private	N Emacron
T sequences	N Eng
T sublookups	N Eng.alt
T unicodes	N Eogonek
N .null	N Epsilon
N A	N Epsilontonos
N AE	N Eta
N AEacute	N Etatonos
N Aacute	N Eth
N Abreve	N Euro
N Acircumflex	N F
N Acute	N G
N Adieresis	N Gamma
N Agrave	N Gbreve
N Alpha	N Gcaron
N Alphanos	N Gcircumflex
N Amacron	N Gcommaaccent
N Aogonek	N Gdotaccent
N Aring	N Grave
N Atilde	N H
N B	N Hbar
N Beta	N Hcircumflex
N C	N I
N Cacute	N IJ
N Caron	N Iacute
N Ccaron	N Ibreve
N Ccedilla	N Icircumflex

N Idieresis	N Oslashacute
N Idotaccent	N Otilde
N Igrave	N P
N Imacron	N Phi
N Iogonek	N Pi
N Iota	N Psi
N Iotadieresis	N Q
N Iotatonos	N R
N Itilde	N Racute
N J	N Rcaron
N Jcircumflex	N Rcommaaccent
N K	N Rho
N Kappa	N S
N Kcommaaccent	N Sacute
N L	N Scaron
N Lacute	N Scedilla
N Lambda	N Scircumflex
N Lcaron	N Scommaaccent
N Lcommaaccent	N Sigma
N Ldot	N T
N Lslash	N Tau
N M	N Tbar
N Mu	N Tcaron
N N	N Tcommaaccent
N Nacute	N Theta
N Ncaron	N Thorn
N Ncommaaccent	N Tilde
N Ntilde	N U
N Nu	N Ugrave
N O	N Uhorn
N OE	N Uhungarumlaut
N Oacute	N Umacron
N Obreve	N Uogonek
N Ocircumflex	N Upsilon
N Odieresis	N Upsilon1
N Ograve	N Upsilondieresis
N Ohorn	N Upsilontonos
N Ohungarumlaut	N Uring
N Omacron	N Utilde
N Omega	N V
N Omegatonos	N W
N Omicron	N Wacute
N Omicrontonos	N Wcircumflex
N Oslash	N Wdieresis

N Wgrave	N arrowdblleft
N X	N arrowdblright
N Xi	N arrowdblup
N Y	N arrowdown
N Yacute	N arrowleft
N Ycircumflex	N arrowright
N Ydieresis	N arrowup
N Ygrave	N arrowupdn
N Z	N arrowupdnbse
N Zacute	N asciicircum
N Zcaron	N asciitilde
N Zdotaccent	N asterisk
N Zeta	N asteriskmath
N a	N at
N aacute	N atilde
N abreve	N b
N acircumflex	N backslash
N acute	N bar
N acutecomb	N beta
N adieresis	N block
N ae	N braceleft
N aeacute	N braceright
N agrave	N bracketleft
N alpha	N bracketright
N alphanos	N breve
N amacron	N brokenbar
N ampersand	N bullet
N angle	N c
N anoteleia	N cacute
N aogonek	N caron
N approxequal	N carriagereturn
N arabic_2dots	N ccaron
N arabic_2dots_a	N ccedilla
N arabic_3dots	N ccircumflex
N arabic_3dots_a	N cdotaccent
N arabic_4dots	N cedilla
N arabic_dot	N cent
N arabic_gaf_bar	N chi
N arabic_gaf_bar_a	N circle
N arabic_ring	N circlemultiply
N aring	N circleplus
N arrowboth	N circumflex
N arrowdblboth	N club
N arrowdbldown	N colon

N colonmonetary	N epsilon
N comma	N epsilonontonos
N congruent	N equal
N copyright	N equivalence
N currency	N estimated
N d	N eta
N dagger	N etatonos
N daggerdbl	N eth
N dcaron	N exclam
N dcroat	N exclamdbl
N degree	N exclamdown
N delta	N existential
N diaeresis.symbols	N f
N diamond	N female
N dieresis	N fi
N dieresistonos	N figuredash
N divide	N filledbox
N dkshade	N filledrect
N dLltcaron	N five
N dnblock	N fiveeighths
N dollar	N fl
N dong	N florin
N dotaccent	N four
N dotbelowcomb	N fractionslash
N dotlessi	N franc
N dotlessj	N g
N dotmath	N gamma
N e	N gbreve
N eacute	N gcaron
N ebreve	N gcircumflex
N ecaron	N gcommaaccent
N ecircumflex	N gdotaccent
N edieresis	N germandbls
N edotaccent	N gradient
N egrave	N grave
N eight	N gravecomb
N element	N greater
N ellipsis	N greaterequal
N emacron	N guillemotleft
N emdash	N guillemotright
N emptyset	N guilsinglleft
N endash	N guilsinglright
N eng	N h
N eogonek	N hbar

N hcircumflex	N lira
N heart	N logicaland
N hookabovecomb	N logicalnot
N house	N logicalor
N hungarumlaut	N longs
N hyphen	N lozenge
N i	N lslash
N iacute	N ltshade
N ibreve	N m
N icircumflex	N macron
N idieresis	N male
N igrave	N minus
N ij	N minute
N imacron	N mu
N infinity	N multiply
N integral	N musicalnote
N integralbt	N musicalnotedbl
N integraltp	N n
N intersection	N nacute
N invbullet	N napostrophe
N invcircle	N ncaron
N invsmileface	N ncommaaccent
N iogonek	N nine
N iota	N nonbreakingspace
N iotadieresis	N nonmarkingreturn
N iotadieresis-tonos	N notdef
N iotatonos	N notelement
N itilde	N notequal
N j	N notsubset
N jcircumflex	N ntilde
N jot	N nu
N k	N numbersign
N kappa	N o
N kcommaaccent	N oacute
N kgreenlandic	N obreve
N l	N ocircumflex
N lacute	N odieresis
N lambda	N oe
N lcaron	N ogonek
N lcommaaccent	N ograve
N ldot	N ohorn
N less	N ohungarumlaut
N lessequal	N omacron
N lfblock	N omega

N omega1	N quotedblright
N omegatonos	N quoteleft
N omicron	N quotereversed
N omicrontonos	N quoteright
N one	N quotesinglbase
N oneeighth	N quotesingle
N onehalf	N r
N onequarter	N racute
N onesuperior	N radical
N onethird	N rcaron
N openbullet	N rcommaaccent
N ordfeminine	N reflexsubset
N ordmasculine	N reflexsuperset
N orthogonal	N registered
N oslash	N revlogicalnot
N oslashacute	N rho
N otilde	N ring
N p	N rtblock
N paragraph	N s
N parenleft	N sacute
N parenright	N scaron
N partialdiff	N scedilla
N percent	N scircumflex
N period	N scommaaccent
N periodcentered	N second
N perpendicular	N section
N perthousand	N semicolon
N peseta	N seven
N phi	N seveneighths
N phil	N sfthyphen
N pi	N shade
N plus	N sigma
N plusminus	N sigma1
N product	N similar
N propersubset	N six
N propersuperset	N slash
N proportional	N smileface
N psi	N space
N q	N spade
N question	N sterling
N questiondown	N suchthat
N quotedbl	N summation
N quotedblbase	N sun
N quotedblleft	N t

N tau
 N tbar
 N tcaron
 N tcommaaccent
 N therefore
 N theta
 N theta1
 N thinquestion
 N thorn
 N three
 N threeeighths
 N threequarters
 N threesuperior
 N tilde
 N tildecomb
 N tonos
 N trademark
 N triagdn
 N triaglf
 N triagrt
 N triagup
 N two
 N twosuperior
 N twothirds
 N u
 N ugrave
 N uhorn
 N uhungarumlaut
 N umacron
 N underbar
 N underbar.small
 N underbar.wide
 N underscore
 N underscoredbl
 N union
 N universal
 N uogonek
 N upblock
 N upsilon
 N upsilondieresis
 N upsilondieresis-tonos
 N upsilontonos
 N uring
 N utilde

N v
 N w
 N wacute
 N wcircumflex
 N wdieresis
 N wgrave
 N x
 N xi
 N y
 N yacute
 N ycircumflex
 N ydieresis
 N yen
 N ygrave
 N z
 N zacute
 N zcaron
 N zdotaccent
 N zero
 N zeta
 S version
 T shared
 T dynamics
 T features
 B analyze
 B checkmarks
 B devanagari
 B dummies
 B extensions
 B extrafeatures
 B extraprivates
 B features
 S indic
 B mathrules
 S mode
 N number
 B spacekern
 B visuals-space
 T processes
 T rawdata
 S cache_uuid
 N cache_version
 B compacted
 B condensed

S creator	N maxextent
T descriptions	N minbottomsidebearing
B expanded	N mintopsidebearing
S format	N version
T goodies	S weight
T lookuphash	S width
T metadata	N nofglyphs
N ascender	N private
N averagewidth	T properties
T boundingbox	B hascolor
N defaultvheight	B hasitalics
N descender	B hasspacekerns
S family	N size
S familyname	N tableversion
S fontname	N time
N fstyle	T specification
S fullname	S cs
T horizontalmetrics	S detail
N ascender	S fallbacks
N descender	T features
N linegap	T normal
N maxadvanceheight	B features
N maxadvancewidth	S mode
N maxextent	N number
N minbottomsidebearing	S filename
N mintopsidebearing	S forced
N version	S forcedname
N italicangle	B global
B monospaced	S goodies
S panoseweight	S hash
S panosewidth	N id
N pfmweight	S lookup
N pfmwidth	N mathsize
S subfamily	S method
S subfamilyname	S name
N subfontindex	S resolved
N units	N scalemode
S version	N size
T verticalmetrics	S source
N ascender	S specification
N descender	N textsize
N linegap	T unscaled
N maxadvanceheight	N cache_version
N maxadvancewidth	T changed

T characters
 T descriptions
 T mathparameters
 T parameters
 N ascender
 N charwidth
 N descender
 N designsized
 N extraspace
 N italicangle
 N maxsize
 N minsize
 N quad
 N slant
 N space
 N spaceshrink
 N spacestretch
 N units
 N vheight
 N xheight

T properties
 S filename
 S fontname
 S format
 S fullname
 B hasmath
 N id
 S mode
 B monospaced
 S name
 N private
 S psname
 B setitalics
 S space
 N subfont

S writingmode

usedindices

T dejavusansmonoboldttf-1

verbose

table

function

lpeg (basic lua)

B	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
Cp	function	patterns	data table
Cs	function	pcode	function
Ct	function	print	function
P	function	ptree	function
R	function	replacer	function
S	function	secondofsplit	function
UP	function	setmaxstack	function
UR	function	setutfcasers	function
US	function	split	function
V	function	splitat	function
afterprefix	function	splitter	function
anywhere	function	stripper	function
append	function	times	function
balancer	function	tsplitat	function
beforesuffix	function	tsplitter	function
checkedsplit	function	type	function
containsws	function	utfchartabletopattern	function
counter	function	utfreplacer	function
endstripper	function	version	function
finder	function		

lua (basic tex)

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

luac (context)

inspect function
print function

luatex (context)

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

lxml (context)

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

rawroot	function
rawtex	function
refatt	function
register	function
registerentity	function
removesetup	function
replace	function
resetcdata	function
resetsetups	function
resolvedentity	function
root	function
save	function
serialize	function
setaction	function
setatt	function
setattribute	function
setcdata	function
setcommandtonone	function
setcommandtotext	function
setpar	function
setparam	function
setparameter	function
setsetup	function
snippet	function

sorters	table
F add	
F compare	
F flush	
F reset	
F show	
F sort	
splitid	function
startraw	function
startunesescaped	function
stopraw	function
stopunesescaped	function
store	function
strip	function
stripped	function
tag	function
text	function
tobuffer	function
tofile	function
toparameters	function
toverbatim	function
verbatim	function
withindex	function
xmltexhandler	data table

math (basic lua)

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

mathematics (context)

addfallbacks	function	overloadparameters	function
addvariant	function	preset	function
alphabets	data table	presets	table
alternatives	data table	T less	
beforepassingfonttotex	function	T more	
big	function	T zero	
boldmap	data table	privatebase	number
categories	table	registerdomain	function
D functions		registerfallbackid	function
charactersets	data table	registersimplematrix	function
checkaccentbaseheight	function	remapalphabets	function
classes	data table	renderings	table
classnames	data table	D mappings	
codes	data table	D numbers	
collected	function	D sets	
define	function	renderset	function
dictionaries	table	resetattributes	function
F registercharacter		resetitalics	function
F registergroup		resolvefallbacks	function
dimensions	function	scaleparameters	function
domains	table	setdomain	function
extensiblecode	function	setitalics	function
extensibles	data table	sets	data table
extrabase	number	setsnapping	function
extras	table	setvariant	function
F add		startcollecting	function
F copy		stopcollecting	function
fallbacks	table	styles	data table
F apply		syncboth	function
F install		syncname	function
fallbackstyleattr	function	syncstyle	function
finishfallbacks	function	toengineclass	function
gaps	data table	toname	function
getboth	function	tostyle	function
getdomain	function	tweakaftercopyingfont	function
getitalics	function	tweakbeforecopyingfont	function
getstyle	function	tweaks	table
horizontalcode	function	F accentdimensions	
initializeparameters	function	F action	
makefont	function	F addprivates	
mapremap	data table	F addrules	

F addscripts	T i	
F checkspacing	T mw	
F dimensions	T p	
F fixanchors	F substitute	
F fixprimes	F substitutes	
F fixradicals	F variant	
F kernpairs	F variants	
F kerns	F version	
F margins	F wipeanchors	
F message	F wipecues	
F replace	F wipeitalics	
F replacements	F wipevariants	
F staircase	utfmathaccent	function
T subsets	utfmathclass	function
T acenorsuvxz	utfmathcommand	function
T bhklt	utfmathfiller	function
T d	utfmathstretch	function
T f	virtualize	function
T gjqy	virtualized	data table

md5 (extra lua)

HEX function
dec function
hex function

sum function
sumHEXA function
sumhexa function

metapost (context)

checkformat	function	N nullary
checktracingonline	function	N numeric
cm	function	N of
codes	table	N ofbinary
N addto		N onlyset
N ampersand		N parametertype
N and		N pathjoin
N assignment		N plusorminus
N atleast		N primarybinary
N begingroup		N primarydef
N btex		N property
N capsule		N protection
N colon		N relax
N comma		N repeatloop
N controls		N rightbrace
N curl		N rightbracket
N cycle		N rightdelimiter
N definedmacro		N runscript
N delimiters		N save
N endgroup		N scantokens
N equals		N secondarybinary
N etex		N secondarydef
N everyjob		N semicolon
N exittest		N setbounds
N expandafter		N shipout
N fiorelse		N show
N if		N slash
N input		N step
N interim		N stop
N internal		N str
N iteration		N string
N leftbrace		N tag
N leftbracket		N tension
N leftdelimiter		N tertiarybinary
N let		N tertiarydef
N macrodef		N thingstoadd
N macrospecial		N to
N maketext		N typename
N message		N unary
N mode		N undefinedcs
N newinternal		N until

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

remaptext	function
reporterror	function
reportsvgfonts	function
reset	function
resetlastlog	function
resetplugins	function
run	function
runinternal	function
runscript	function
scanparameters	function
scripterror	function
scriptindex	function
setbendtolerance	function
setbuffer	function
setextensions	function
setlogging	function
setmovetolerance	function
setoutercolor	function
setparameterset	function
setrecord	function
settext	function
settolerance	function
setvariable	function
showlog	boolean
showsvgpage	function
simple	function
splitprescript	function
startgraphic	function
startsvghashing	function
stopgraphic	function
stopsvghashing	function
svformat	function
svgcolorremapper	function
svgfactors	table
N %	
N bp	
N cm	
N em	
N ex	
N in	
N mm	
N pc	
N pt	
N px	

svgglyphtomp	function
svgshapestomp	function
svgshapestopdf	function
svgsplitcolor	function
svgtomp	function
svgtopdf	function
sxsy	function
tex	table
F get	
F reset	
F set	
F setfrombuffer	
texerrors	boolean
texexp	function
theclippath	function
tographic	function
totable	function
types	table
N boolean	
N cmykcolor	
N color	
N dependent	
N independent	
N known	
N nep	
N numeric	
N pair	
N path	
N pen	
N picture	
N protodependent	
N string	
N structured	
N suffixedmacro	
N tokenlist	
N transform	
N unknownboolean	
N unknownnep	
N unknownpath	
N unknownpen	
N unknownpicture	
N unknownstring	
N unsuffixedmacro	
N vacuum	

typesvgpage	function	variables	table
unload	function		
untagvariable	function		

mime (extra lua)

b64 function

decode function

decodet table

F base64

F quoted-printable

dot function

encode function

encodet table

F base64

F quoted-printable

eol function

normalize function

qp function

qpwrp function

report function

stuff function

unb64 function

unqp function

wrap function

wrapt table

F base64

F default

F quoted-printable

F text

wrp function

mp (context)

autoinject	function	fprint	function
aux	function	get	table
F boolean		F hashentry	
F color		graphformat	function
F direct		inject	function
F draw		F boolean	
F fill		F cmykcolor	
F flush		F color	
F fprint		F integer	
F integer		F number	
F number		F numeric	
F numeric		F pair	
F pair		F path	
F pairpoints		F pt	
F path		F quadruplet	
F pathpoints		F string	
F points		F transform	
F print		F triplet	
F quadruple		F whatever	
F quadruplepoints		F whd	
F quoted		F xy	
F size		integer	function
F string		lmt_color_functions	table
F transform		F shade	
F triplet		F step	
F tripletpoints		lmt_contours_bitmap_get	function
F vprint		lmt_contours_bitmap_set	function
boolean	function	lmt_contours_cleanup	function
cleaned	function	lmt_contours_color	function
color	function	lmt_contours_edge_get_band	function
dataset	function	lmt_contours_edge_get_cell	function
datasets	function	lmt_contours_edge_paths	function
F load		lmt_contours_edge_set	function
direct	function	lmt_contours_edge_set_by_band	function
draw	function	lmt_contours_edge_set_by_cell	function
expandtex	function	lmt_contours_format	function
fill	function	lmt_contours_function	function
flatten	function	lmt_contours_maxmean	function
flush	function	lmt_contours_maxz	function
format	function	lmt_contours_minmean	function
formatted	function	lmt_contours_minz	function

<code>lmt_contours_nofvalues</code>	function	<code>n</code>	function
<code>lmt_contours_nx</code>	function	<code>number</code>	function
<code>lmt_contours_ny</code>	function	<code>numeric</code>	function
<code>lmt_contours_range</code>	function	<code>pair</code>	function
<code>lmt_contours_shade_paths</code>	function	<code>pairpoints</code>	function
<code>lmt_contours_shade_set</code>	function	<code>path</code>	function
<code>lmt_contours_shape_paths</code>	function	<code>pathpoints</code>	function
<code>lmt_contours_start</code>	function	<code>points</code>	function
<code>lmt_contours_stop</code>	function	<code>print</code>	function
<code>lmt_contours_value</code>	function	<code>F boolean</code>	
<code>lmt_contours_xrange</code>	function	<code>F color</code>	
<code>lmt_contours_yrange</code>	function	<code>F direct</code>	
<code>lmt_function_x</code>	function	<code>F draw</code>	
<code>lmt_mesh_set</code>	function	<code>F fill</code>	
<code>lmt_mesh_update</code>	function	<code>F flush</code>	
<code>lmt_poisson_generate</code>	function	<code>F fprint</code>	
<code>lmt_surface_do</code>	function	<code>F integer</code>	
<code>lmt_svg_include</code>	function	<code>F number</code>	
<code>mf_blob_add</code>	function	<code>F numeric</code>	
<code>mf_blob_dimensions</code>	function	<code>F pair</code>	
<code>mf_blob_index</code>	function	<code>F pairpoints</code>	
<code>mf_blob_new</code>	function	<code>F path</code>	
<code>mf_blob_raw_content</code>	function	<code>F pathpoints</code>	
<code>mf_blob_raw_dimensions</code>	function	<code>F points</code>	
<code>mf_blob_raw_reset</code>	function	<code>F print</code>	
<code>mf_blob_raw_toutf</code>	function	<code>F quadruple</code>	
<code>mf_blob_raw_wipe</code>	function	<code>F quadruplepoints</code>	
<code>mf_blob_size</code>	function	<code>F quoted</code>	
<code>mf_blob_width</code>	function	<code>F size</code>	
<code>mf_external_figure</code>	function	<code>F string</code>	
<code>mf_finish_saving_data</code>	function	<code>F transform</code>	
<code>mf_formatted_text</code>	function	<code>F triplet</code>	
<code>mf_get_outline_text</code>	function	<code>F tripletpoints</code>	
<code>mf_graphic_text</code>	function	<code>F vprint</code>	
<code>mf_inject_blob</code>	function	<code>processingmode</code>	function
<code>mf_map_move</code>	function	<code>quadruple</code>	function
<code>mf_map_text</code>	function	<code>quadruplepoints</code>	function
<code>mf_named_color</code>	function	<code>quoted</code>	function
<code>mf_outline_text</code>	function	<code>report</code>	function
<code>mf_save_data</code>	function	<code>scan</code>	table
<code>mf_script_index</code>	function	<code>F boolean</code>	
<code>mf_start_saving_data</code>	function	<code>F cmykcolor</code>	
<code>mf_stop_saving_data</code>	function	<code>F color</code>	
<code>mode</code>	function	<code>F expression</code>	

F integer	T typescanners	
F next	F whatever	
F number	set	table
F numeric	size	function
F pair	skip	table
F path	F token	
F pen	solve	function
F property	string	function
F string	systemmode	function
F symbol	transform	function
F token	triplet	function
T tokenscanners	tripletpoints	function
F transform	vprint	function

mplib (extra tex)

execute	function	injectstring	function
expandtex	function	injecttransform	function
finder	function	injectwhatever	function
finders	table	new	overloaded function
F file		peninfo	function
F mpstemplate		propertycodes	table
finish	function	realtime logging	boolean
getcallbackstate	function	scanboolean	function
getcodes	function	scanbmykcolor	function
getcolormodels	function	scanbcolor	function
getfields	function	scanexpression	function
gethashentries	function	scaninteger	function
gethashentry	function	scannext	function
getobjecttypes	function	scannumber	function
getstates	function	scannumeric	function
getstatistics	function	scanpair	function
getstatus	function	scanpath	function
gettolerance	function	scanpen	function
gettype	function	scanproperty	function
gettypes	function	scanstring	function
injectboolean	function	scansymbol	function
injectbmykcolor	function	scantoken	function
injectbcolor	function	scantransform	function
injectinteger	function	settolerance	function
injectnumber	function	showcontext	function
injectnumeric	function	skiptoken	function
injectpair	function	solvepath	function
injectpath	function	version	function

noads (context)

handlers	table		F resize
F alternates			F showtree
F autofences			F snap
F classes			F tags
F collapse			F unscript
F domains			F unstack
F export			F variants
F families		process	function
F fixscripts		processnested	function
F italics		processors	table
F kernpairs		F mlisttohtml	
F makeup		T unscript	
F normalize		T unstack	
F relocate		processouter	function
F render			

node (basic tex)

checkdiscretionaries	function	F getbox
checkdiscretionary	function	F getcachestate
copy	function	F getchar
copylist	function	F getchardict
count	function	F getcharspec
currentattributes	function	F getdata
dimensions	function	F getdepth
direct	table	F getdirection
F addmargins		F getdisc
F addxoffset		F getdiscpart
F addxymargins		F getexpansion
F addyoffset		F getfam
F appendaftertail		F getfield
F checkdiscretionaries		F getfont
F checkdiscretionary		F getgeometry
F collapsing		F getglue
F copy		F getglyphdata
F copylist		F getglyphdimensions
F copyonly		F getheight
F count		F getid
F currentattributes		F getindex
F dimensions		F getinputfields
F effectiveglue		F getkern
F endofmath		F getkerndimension
F exchange		F getlanguage
F fields		F getleader
F findattribute		F getlist
F findattributerange		F getnext
F findnode		F getnormalizedline
F firstglyph		F getnucleus
F flattendiscretionaries		F getoffsets
F flattenleaders		F getoptions
F flushlist		F getorientation
F flushnode		F getparstate
F free		F getpenalty
F freeze		F getpost
F getanchors		F getpre
F getattribute		F getprev
F getattributelist		F getpropertystable
F getattributes		F getproperty
F getboth		F getreplace

F getscale	F lastnode
F getscales	F length
F getscrip	F ligaturing
F getshift	F makeextensible
F getspeciallist	F migrate
F getstate	F mlisttohtml
F getsub	F naturalhsz
F getsubpre	F naturalwidth
F getsubtype	F new
F getsup	F newmathglyph
F getsuppre	F newtextglyph
F gettotal	F patchattributes
F getusedattributes	F prependbeforehead
F getwhd	F protectglyph
F getwidth	F protectglyphs
F getwordrange	F protrusionskipable
F getxscale	F rangedimensions
F getxyscales	F remove
F getyscale	F repack
F gluetostring	F reverse
F hasattribute	F serialized
F hasdimensions	F setanchors
F hasfield	F setattribute
F hasgeometry	F setattributelist
F hasglyph	F setattributes
F hasglyphoption	F setboth
F hpack	F setbox
F hyphenating	F setchar
F id	F setchardict
F ignoremathskip	F setdata
F insertafter	F setdepth
F insertbefore	F setdirection
F is_direct	F setdisc
F ischar	F setdiscpart
F isglyph	F setexpansion
F isnextchar	F setfam
F isnextglyph	F setfield
F isnode	F setfont
F isprevchar	F setgeometry
F isprevglyph	F setglue
F isspeciallist	F setglyphdata
F isvalid	F setheight
F iszeroglue	F setindex
F kerning	F setinputfields

F setkern	F traverseid	
F setlanguage	F traverseleader	
F setleader	F traverselist	
F setlink	F type	
F setlist	F types	
F setnext	F unprotectglyph	
F setnucleus	F unprotectglyphs	
F setoffsets	F unsetattribute	
F setoptions	F unsetattributes	
F setorientation	F usedlist	
F setpenalty	F usesfont	
F setpost	F values	
F setpre	F verticalbreak	
F setprev	F vpack	
F setproperty	F write	
F setreplace	F xscaled	
F setscales	F yscaled	
F setscript	effectiveglue	function
F setshift	endofmath	function
F setspeciallist	family_font	function
F setsplit	fields	function
F setstate	findattribute	function
F setsub	firstglyph	function
F setsubpre	flattendiscretionaries	function
F setsubtype	flushlist	function
F setup	flushnode	function
F setsuppre	free	function
F settotal	getattribute	function
F setwhd	getcachestate	function
F setwidth	getfield	function
F show	getglue	function
F slide	getpropertystable	function
F softenhyphens	getproperty	function
F startofpar	gluetostring	function
F subtypes	hasattribute	function
F tail	hasfield	function
F todirect	hasglyph	function
F tonode	hpack	function
F tostring	hyphenating	function
F tovaliddirect	id	function
F traverse	insertafter	function
F traversechar	insertbefore	function
F traversecontent	instock	function
F traverseglyph	inuse	function

isnode	function	setproperty	function
iszeroglue	function	show	function
kerning	function	slide	function
lastnode	function	subtypes	function
length	function	tail	function
ligaturing	function	tostring	function
makeextensible	function	traverse	function
mlisttohlist	function	traverseid	function
new	function	type	function
protectglyph	function	types	function
protectglyphs	function	unprotectglyph	function
protrusionskipable	function	unprotectglyphs	function
rangedimensions	function	unsetattribute	function
remove	function	usedlist	function
serialized	function	usesfont	function
setattribute	function	values	function
setfield	function	vpack	function
setglue	function	write	function

nodes (context)

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

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

N middle	F exchange
N no_axis	F findattribute
N right	F findnode
N set	F firstcharacter
N unused_1	F firstcharinbox
N unused_2	F firstglyph
nodecodes	F flattendiscretionaries
nopts	F flattenleaders
nuts	F flush
F addmargins	F flushlist
F addxoffset	F flushnode
F addxymargins	F free
F addyoffset	F freeze
F append	F fullhpack
F appendaftertail	F getanchors
F apply	F getattr
F applyvisuals	F getattribute
F checkdiscretionaries	F getattributelist
F checkslide	F getattributes
F collapsing	F getattrlist
T colors	F getattrrs
F set	F getboth
T components	F getbox
F copynocomponents	F getboxglue
F copyonlyglyphs	F getchar
F count	F getchardict
F flush	F getcharspec
F get	F getcomponents
F set	F getdata
F concat	F getdepth
F copy	F getdirection
F copy_properties	F getdisc
F copylist	F getdiscpart
F copynode	F getdiscretionary
F copyonly	F getexpansion
F copyvisual	F getfam
F count	F getfield
F countall	F getfont
F currentattributes	F getgeometry
F delete	F getglue
F dimensions	F getglyphdata
F dirdimensions	F getglyphdimensions
F effectiveglue	F getheight
F endofmath	F getid
data table	
function	
table	

F getindex
F getinputfields
F getkern
F getkerndimension
F getlang
F getlanguage
F getleader
F getlist
F getnext
F getnormalizedline
F getnucleus
F getoffsets
F getoptions
F getorientation
F getparstate
F getpenalty
F getpost
F getpre
F getprev
F getprop
F getreplace
F getruledata
F getscale
F getscales
F getscrip
F getshift
F getspeciallist
F getstate
F getsub
F getsubpre
F getsubtype
F getsup
F getsuppre
F getsurround
F gettotal
F getusedattributes
F getvalue
F getwhd
F getwidth
F getwordrange
F getxscale
F getxyscales
F getyscale
F gluetostring

F hasattribute
F hasdimensions
F hasfield
F hasgeometry
F hasglyph
F hasglyphoption
F hpack
F hyphenating
F ignoremathskip
F insertafter
F insertbefore
F insertlistafter
F is_display_math
F ischar
F isdone
F isglyph
F isnextchar
F isnextglyph
F isnode
F isprevchar
F isprevglyph
F iszeroglue
F kerning
F lastnode
F length
F ligaturing
F link
F linked
F locate
F migrate
F mlisttohtml
F naturalhsize
F naturalwidth
F nestedtracedslide
F new
F newmathglyph
F openup
F patchattributes
T pool
F accent
F baselineskip
F boundary
F boxrule
F choice

F cleanup	F setstate
F delim	F shrink
F delimiter	F startrotation
F direction	F stock
F directliteral	F stretch
F disc	F strutrul
F emptyrule	F subbox
F fence	F sublist
F fontkern	F temp
F fraction	F usage
F glue	F userdefined
F gluespec	T userids
F glyph	F usernode
F hlist	F userrule
F imagerule	F vlist
F indentskip	F wordboundary
F italicern	F prepend
F kern	F prependbeforehead
F latelua	F processranges
F leader	F processwords
F lefthangskip	F protectglyph
F leftmarginkern	F protectglyphs
F leftskip	F protrusionskipable
F lineskip	F rangedimensions
F literal	F rawprop
F mathchar	F reference
F mathtextchar	F rehpac
F negatedglue	F remove
F noad	F repack
F originliteral	F repackhlist
F outlinerule	F replace
F pageliteral	F reverse
F penalty	T rules
F radical	T ruleactions
F rawliteral	F box
F register	F draw
F restore	F fill
F righthangskip	F mp
F rightmarginkern	F stroke
F rightskip	F userrule
F rule	F serialized
F save	F setanchors
F savepos	F setattr
F setmatrix	F setattribute

F setattributelist	F setscale
F setattributes	F setscales
F setattrlist	F setscript
F setattrs	F setshift
F setboth	F setspeciallist
F setbox	F setsplit
F setboxglue	F setstate
F setchar	F setsub
F setchardict	F setsubpre
F setcomponents	F setsubtype
F setdata	F setup
F setdepth	F setsuppre
F setdirection	F setsurround
F setdisc	F setvalue
F setdiscpart	F setvisual
F setdiscretionary	F setvisuals
F setexpansion	F setwhd
F setfam	F setwidth
F setfield	F show
F setfont	F slide
F setgeometry	F softenhyphens
F setglue	F somepenalty
F setglyphdata	F somespace
F setheight	F splitbox
F setinputfields	F startofpar
F setkern	F striprange
F setlang	F tail
F setlanguage	F takeattr
F setleader	F takebox
F setlink	F takelist
F setlist	F theprop
F setnext	F tonode
F setnucleus	F tonodes
F setoffsets	F tonut
F setoptions	F tosequence
F setorientation	F toString
F setparproperty	F tracedslide
F setpenalty	F traverse
F setpost	F traversechar
F setpre	F traversecontent
F setprev	F traverseglyph
F setprop	F traverseid
F setreplace	F traverseleader
F setruledata	F traverselist

T traversers

F alignrecord

F boundary

F char

F content

F dir

F disc

F glue

F glyph

F hlist

F leader

F list

F mark

F next

F node

F rule

F unset

F vlist

F whatsit

T treversers

F char

F content

F glyph

F leader

F list

F node

T typesetters

F tohbox

F tohpack

F tonodes

F tovbox

F tovpack

F unprotectglyph

F unprotectglyphs

F unsetattribute

F unsetattributes

F untracedslide

F usedlist

F usesfont

F verticalbreak

F vianodes

F vianuts

F vpack

F write

F xscaled

F yscaled

packlist

parcodes

penaltycodes

plugindata

F finalizer

F initializer

S name

T namespace

N attribute

D data

F enable

F handler

F register

D registered

D values

F processor

points

pool

F baselineskip

F cleanup

F directliteral

F glyph

F hlist

F latelua

F leader

F lineskip

F literal

F originliteral

F register

F restore

F save

F savepos

F setmatrix

F stock

F usage

F usernode

F vlist

prepend

print

processors

F alignment_filter

F append_line_filter

function

data table

data table

table

function

table

function

function

table

F glyph_run		F handler	
F post_linebreak_filter		F set	
F pre_linebreak_filter		showboxes	function
F trace_glyph_run_a		showlist	function
F trace_glyph_run_b		showsimplelist	function
properties	table	skipcodes	data table
T data		snapshots	table
pts	function	F getsamples	
radicalcodes	data table	F resetsamples	
references	table	F takesample	
N attribute		somepenalty	function
T done		somespace	function
F handler		specialskipcodes	table
T stack		splitbox	function
reheap	function	startofpar	function
remove	function	stripdiscretionaries	function
repackhlist	function	stripping	table
replace	function	T glyphs	
report	function	F set	
rightmarginwidth	function	subtypes	data table
rulecodes	data table	tail	function
rules	table	takeattr	function
F handler		takebox	function
F process		tasks	table
F set		F actions	
F userrule		F appendaction	
serialize	function	F disableaction	
serializebox	function	F disablegroup	
serialized	function	F enableaction	
setattr	function	F enablegroup	
setattribute	function	F freeze	
setboth	function	F freezegroup	
setbox	function	F new	
setboxtonaturalwd	function	F prependaction	
setchar	function	F removeaction	
setfield	function	F replaceaction	
setfont	function	F restart	
setleader	function	F setaction	
setlink	function	F showactions	
setlist	function	F table	
setnext	function	tobasepoints	function
setprev	function	tocentimeters	function
setproperty	function	tociceros	function
shifts	table	todidots	function

todimen	function	F start	
toinches	function	F stop	
tomillimeters	function	F stop	
tonode	function	T transparencies	
tonodes	function	F reset	
tonut	function	F set	
topicas	function	F setlist	
topoints	function	traverse	function
toscaledpoints	function	traverseid	function
tosequence	function	typesetters	table
tostring	function	F hbox	
totable	function	F hpack	
totree	function	F tohbox	
toutf	function	F tohpack	
tracers	table	F tonodes	
T colors		F toinbox	
F reset		F tovpack	
F set		F vpack	
F setlist		unsetattribute	function
F directions		usedlist	function
F fontchar		vianodes	function
T frequencies		vianuts	function
F register		visualizebox	function
T pool		visualizers	table
T nodes		F attribute	
F rule		T attributes	
T nuts		F box	
F rule		F handler	
F resetproperties		F markfonts	
F rule		T modes	
F setlist		N boundary	
F setproperties		N depth	
F start		N dir	
T steppers		N discretionary	
F check		N expansion	
F codes		N fontkern	
F features		N glue	
F font		N glyph	
F glyphs		N hbox	
F message		N insert	
F messages		N italic	
F nofsteps		N kern	
F register		N line	
F reset		N marginkern	

N mark
N math
N mathglue
N mathkern
N origin
N par
N penalty
N simple
N simplehbox
N simplevbox
N simplevtop
N space
N strut

N user
N vbox
N vtop
N whatsit
F register
F setfont
F setlayer
F setruledglyph
F setvisual

vpack
whatsitcodes
write

function
data table
function

number (context)

	function	tol6dot16	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
idiv	function	toevenhex	function
maxdimen	number	toinches	function
nopts	function	tomillimeters	function
nubasepoints	function	tonumberf	function
nupoints	function	tonumberg	function
percent	function	topicsas	function
points	function	topoints	function
pts	function	toscaled	function
signed	function	toscaledpoints	function
sparseexponent	function	valid	function
splitdimen	function		

objects (context)

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

optional (context)

curl table

F escape
F fetch
F getversion
F initialize
F unescape

foreign table

F abivalues
F getbuffer
F initialize
F load
F newbuffer
F totable
F types

ghostscript table

F execute
F initialize

graphicsmagick table

F execute
F initialize

hb table

F getshapers
F getversion
F initialize
F loadfont
F shapestring

imagemagick table

F execute
F initialize

kpse table

F expand_braces
F expand_path
F expand_var
F find_file
F find_files
F get_file_types
F initialize
F readable_file
F set_program_name
F var_value

library table

F load

loaded table

lz4 table

F compress
F decompresssize
F framecompress
F framedecompress
F initialize

lzma table

F compress
F decompress
F initialize

lzo table

F compress
F decompresssize
F initialize

mujs table

F dofile
F execute
F initialize
F reset
F setclosefile
F setconsole
F setfindfile
F setopenfile
F setreadfile
F setseekfile

mysql table

F close
F execute
F getmessage
F initialize
F open

postgres table

F close
F execute
F getmessage
F initialize
F open

sqlite table

F close

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

os (basic lua)

<code>__getenv__</code>	function	<code>remove</code>	overloaded function
<code>__setenv__</code>	function	<code>rename</code>	overloaded function
<code>binsuffix</code>	string	<code>resultof</code>	function
<code>binsuffixes</code>	table	<code>runtime</code>	function
<code>bits</code>	number	<code>selfarg</code>	table
<code>clock</code>	function	<code>selfbase</code>	string
<code>converttime</code>	function	<code>selfbin</code>	string
<code>date</code>	overloaded function	<code>selfcore</code>	string
<code>difftime</code>	function	<code>selfdir</code>	string
<code>enableansi</code>	function	<code>selfname</code>	string
<code>env</code>	data table	<code>selfpath</code>	string
<code>execute</code>	overloaded function	<code>setenv</code>	overloaded function
<code>exit</code>	overloaded function	<code>setexitcode</code>	function
<code>fulltime</code>	function	<code>setlocale</code>	overloaded function
<code>getcodepage</code>	function	<code>sleep</code>	function
<code>getenv</code>	overloaded function	<code>time</code>	function
<code>gettimeofday</code>	function	<code>timezone</code>	function
<code>isleapyear</code>	function	<code>tmpname</code>	function
<code>launch</code>	function	<code>today</code>	function
<code>libsuffix</code>	string	<code>type</code>	string
<code>localtime</code>	function	<code>uname</code>	function
<code>name</code>	string	<code>uuid</code>	function
<code>newline</code>	string	<code>validdatetime</code>	function
<code>nofdays</code>	function	<code>weekday</code>	function
<code>now</code>	function	<code>where</code>	function
<code>pipeto</code>	function	<code>which</code>	function
<code>platform</code>	string		

package (basic lua)

config	string	loadlib	function
cpath	string	luapaths	function
extralibpath	function	path	string
extralibpaths	function	poplibpath	function
extralupath	function	popluapath	function
extralupaths	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 block
- F check
- F currentcolumn
- F define
- F finishflush
- F flushareas
- F flushcolumn
- F flushrest
- F goto
- F noto
- F prepareflush
- F put
- F registerarea
- F reset
- F setarea

- F sethsize
- F sethspace
- F setlines
- F setproperties
- F setstart
- F setvsize

injections table

- F flushafter
- F flushbefore
- F save

mixedcolumns table

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

pdf (basic tex)

`immediateobj` function

pdf (extra tex)

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

physics (context)

units table

F registerunit

D tables

pngdecode (extra tex)

applyfilter function
expand function
interlace function

splitmask function
tocmyk function
tomask 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		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	

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

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

regimes (context)

backmapping	data table
cleanup	function
disable	function
enable	function
fromregime	function
list	function

mapping	data table
pop	function
process	function
push	function
toregime	function
translate	function

resolvers (context)

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

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

validatedpath	function	variableofformatorsuffix	function
variable	function	wildcardpattern	function
variableofformat	function		

sandbox (context)

disablelibraries	function
disablerunners	function
enable	function
filehandlerone	function
filehandlertwo	function
finalizer	function
getrunner	function
initializer	function
iohandler	function
logcalls	function
logfiles	function
original	function
overload	function

possiblepath	function
redefine	function
register	function
registerbinary	function
registerlibrary	function
registerroot	function
registerrunner	function
report	function
setfilenamelogger	function
setlogger	function
setreporter	function
settrace	function
validfilename	function

scripts (context)

autofontfeature table

F disable
F enable
F handler

colors data table

decomposehangul function

defaults table

N inter_char_half_shrink_factor
N inter_char_half_stretch_factor
N inter_char_hangul_penalty
N inter_char_quarter_shrink_factor
N inter_char_quarter_stretch_factor
N inter_char_shrink_factor
N inter_char_stretch_factor
N inter_word_stretch_factor

getdata function

getinjector function

getsplitter function

getstatus function

handlers data table

helpers data table

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

set function

setstatus function

splitters data table

set (context)

contains function

create function

tolist function

tonumber function

totable function

sha2 (extra lua)

HASH256	function
HASH384	function
HASH512	function
HEX256	function
HEX384	function
HEX512	function
digest256	function
digest384	function
digest512	function

hash256	function
hash384	function
hash512	function
hex256	function
hex384	function
hex512	function
sum256	function
sum384	function
sum512	function

sio (extra lua)

read2dot14	function
readbytes	function
readbytetable	function
readcardinal1	function
readcardinal1le	function
readcardinal2	function
readcardinal2le	function
readcardinal3	function
readcardinal3le	function
readcardinal4	function
readcardinal4le	function
readcardinaltable	function
readcline	function
readcstring	function
readfixed2	function
readfixed4	function
readinteger1	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)

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

S resent-bcc
 S resent-cc
 S resent-date
 S resent-from
 S resent-message-id
 S resent-reply-to
 S resent-sender
 S resent-to
 S retry-after
 S return-path
 S sender
 S server
 S smtp-remote-recipient
 S status
 S subject
 S te
 S to
 S trailer
 S transfer-encoding
 S upgrade
 S user-agent
 S vary
 S via
 S warning
 S will-retry-until
 S www-authenticate
 S x-mailer
 F lower
 F normalize
http table
 N TIMEOUT
 S USERAGENT
 F genericform
 F open
 F request
newtry function

protect function
report function
select function
sink function
sinkt table
 F close-when-done
 F default
 F http-chunked
 F keep-open
skip function
sleep function
source function
sourcet table
 F by-length
 F default
 F http-chunked
 F until-closed
tcp function
tcp4 function
tcp6 function
tp table
 N TIMEOUT
 F connect
try function
udp function
udp4 function
udp6 function
url table
 F absolute
 F build
 F build_path
 F escape
 F parse
 F parse_path
 F unescape

sorters (context)

basicsorter	function		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 digitmaximum		packuc	function
N digitoffset		replacementlist	function
N ignoredoffset		setlanguage	function
N replacementoffset		sort	function
T validmethods		splitters	table
B ch		F utf	
B mc		strip	function
B mm		tracers	data table
B pc		update	function

sparse (context)

concat	function
get	function
max	function
min	function
new	function

range	function
restore	function
set	function
traverse	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)

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

storage (context)

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

streams (context)

collect	function
disable	function
enable	function
flush	function
initialize	function

push	function
start	function
stop	function
synchronize	function

string (basic lua)

autodouble	function	nspaces	table
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
collapsespaces	function	splitlines	function
containsws	function	splitup	function
count	function	strip	function
dawson	function	sub	function
dump	function	texnewlines	function
erf	function	tformat	function
erfc	function	toHEX	function
erfcx	function	toboollean	function
erfi	function	tobytes	function
escapedpattern	function	tocontext	function
escapedquotes	function	todec	function
explode	function	todimen	function
f6	function	tohex	function
find	function	tonodes	function
format	function	topattern	function
formatter	function	totable	function
formatters	function	tounicode16	function
fullstrip	function	toutf	function
gmatch	function	toutf32	function
gsub	function	toutf8	function
is_boolean	function	tracedchar	function
is_empty	function	tracedchars	table
itself	function	unescapedquotes	function
len	function	unpack	function
limit	function	unquote	function
linetable	function	unquoted	function
longtostring	function	upper	function
lower	function	utfcharacter	function
match	function	utfcharacters	function
nspaces	function	utfcharactertable	function

utflength	function	utfvaluetable	function
utfpadd	function	valid	function
utfpadding	function	voigt	function
utfvalue	function	voigt_hwhm	function
utfvalues	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	function
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 touserdata	
inserts	table
D data	
F define	
F getdata	
F getlocation	
F getname	
F getnumber	
F setlocation	
F setup	
D stored	
itemgroups	table
lists	table
F addto	
F analyze	
B autoreorder	
D cached	
D collected	
F discard	
F enhance	
T enhancers	
F filter	
F formulainumber	
F getresult	
F groupindex	
F hasnumberdata	
F haspagedata	
F hastitledata	
F iscached	
D kinds	
F label	
F location	
D names	
F number	
D ordered	
F page	
F popnesting	
F prefix	
F prefixednumber	
F prefixedpage	
F process	
D pushed	
F pushnesting	

F rawnumber	
F realpage	
F reordered	
T result	
F savedlistnumber	
F savedlistprefixednumber	
F savedlisttitle	
D sectionblocks	
F sectionnumber	
F size	
F title	
D tobesaved	
F userdata	
F uservalue	
marks	table
F number	
F title	
notes	table
F check_spacing	
F checkpagechange	
F define	
F doifonsamepageasprevious	
F get	
F getdeltapage	
F getinternal	
F getn	
F getstate	
F hascontent	
F internal	
F internalid	
F listindex	
D numbers	
F ordered	
F postpone	
F resetpostponed	
F restore	
F save	
F setstate	
D states	
F store	
pages	table
F allmarked	
F analyze	
D collected	

F fraction
 F in_body
 F is_odd
 F mark
 F marked
 F markedlist
 N nopages
 F number
 F on_right
 F save
 D tobosaved
 F toranges

references

F analyze
 F checked
 F checkedfile
 F checkedfileorurl
 F checkedprogram
 F checkedrealpage
 F checkedurl
 D collected
 U componentsplitter
 F currentmetadata
 F currentorder
 D currentset
 F define
 D defined
 D derived
 F enhance
 D executers
 F export
 T files
 T data
 F define
 F found
 F get
 F filter
 F filterdefault
 D filters
 D flaginternals
 F from
 D functions
 F get
 F getcurrentmetadata

table

F getcurrentprefixspec
 F getinnermethod
 F getinternalcachedlistreference
 F getinternallistreference
 F getinternalreference
 F getoutermethod
 D handlers
 F identify
 F import
 F inject
 F injectcurrentset
 S innermethod
 D internals
 F load
 F loadpresets
 F mark
 S outermethod
 D pages
 U prefixsplitter
 D productdata
 T programs
 T data
 F define
 F get
 F realpageofpage
 U referencesplitter
 D referred
 F referredpage
 F registerfinalizer
 F registerinitializer
 F registerpage
 F reset
 D runners
 F set
 F setandgetattribute
 F setcomponent
 F setinternalreference
 F setlinkmethod
 F setnextinternal
 F setnextorder
 F setreferencerealpage
 D specials
 F splitcomponent
 F splitprefix

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

registers

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

table

- F store
- D tobesaved
- F unique
- F userdata

sections

table

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

F structuredata		F margintext
F title		F math
D tobesaved		F mrow
F typesetnumber		F mtable
F userdata		T destinationhash
B verbose		T extras
sets	table	F adddestination
F define		F addimplicit
F get		F addinternal
F getall		F addreference
D setlist		F combination
specials	table	F delimitedsymbol
D collected		F description
F retrieve		F descriptionsymbol
F store		F document
D tobesaved		F float
synonyms	table	F formulacontent
F analyzed		F image
D collected		F item
F compare		F itemgroup
F define		F link
F filter		F listitem
F finalize		F mi
F flush		F msub
F isshown		F msup
F isused		F paragraph
F meaning		F publication
F prepare		F reference
F process		F registerlocation
F register		F registerpages
F registershown		F registerseparator
F registerused		F section
F reset		F sorting
F resetall		F subsentencesymbol
F resetlist		F synonym
F resetshown		F tablecell
F resetused		F tabulate
F sort		F tabulatecell
F synonym		T finalizers
D tobesaved		F descriptions
tags	table	T fixes
T backend		F linenumber
T checks		T listdata
F marginanchor		T referencehash

F setattribute	F setattributefunction
T usedimages	F setcombination
T image	F setconstruct
T usedstyles	F setfigure
T construct	F setfloat
T highlight	F setformulacontent
F current	F sethighlight
F elementtag	F setitem
F enabled	F setitemgroup
F exportbox	F setlist
F finishexport	F setnotation
F getextradata	F setnotationsymbol
F getid	F setparagraph
F getmetadata	F setproperty
F gettablecell	F setpublication
F gettabulatecell	F setregister
F handler	F setsorting
F initializeexport	F setsynonym
D labels	F settablecell
F last	F settabulatecell
F lastinchain	F settagdelimitedsymbol
F localexport	F settagsubsentencesymbol
F locatedtag	F setupexport
T patterns	F setuserproperties
U splitter	D specifications
D properties	F start
F registerextradata	F stop
F registermetadata	F strip
F restart	D taglist
F setaspect	T usewithcare

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
copy	function	serialize	function
count	function	setmetatablecall	function
derive	function	setmetatableindex	function
deserialize	function	setmetatableindices	function
drop	function	setmetatablekey	function
fastcopy	function	setmetatablenewindex	function
fastserialize	function	sort	function
filtered	function	sorted	function
flattened	function	sortedhash	function
fromhash	function	sortedhashkeys	function
getmetatablekey	function	sortedhashonly	function
getn	function	sortedindexonly	function
has_one_entry	function	sortedkeys	function
hashed	function	sortedpairs	function
identical	function	sparse	function
imerge	function	strip	function
imerged	function	sub	function
insert	function	swapped	function
is_empty	function	tocontext	function
is_simple_table	function	tocsv	function
keys	function	tofile	function
load	function	tohandle	function
loweredkeys	function	tohash	function
makewweak	function	toxml	function
merge	function	twowaymapper	function
merged	function	unique	function
mirrored	function	unnest	function
move	function	unpack	function
ordered	function	values	function

tex (basic tex)

attribute	table	forceinputstateline	function
automigrationcodes	data table	fprint	function
badness	function	frozenparcodes	data table
boundaries	table	get	function
D names		getalignmentcontextvalues	function
D numbers		getappendlinecontextvalues	function
F system		getattribute	function
box	table	getautomigrationvalues	function
boxresources	table	getbox	function
F getbox		getboxdir	function
F getdimensions		getboxresourcebox	function
F save		getboxresourcedimensions	function
F use		getcatcode	function
catcode	table	getcount	function
chardef	function	getdelcode	function
classoptioncodes	data table	getdelcodes	function
codes	table	getdimen	function
conditionals	data table	getdimensionvalue	function
constants	data table	getdiscoptionvalues	function
count	table	getdiscstatevalues	function
cprint	function	geterrorvalues	function
ctdcatcodes	number	getflagvalues	function
ctxcatcodes	number	getfontoffamily	function
definefont	function	getfrozenparvalues	function
delcode	table	getglue	function
dimen	table	getglyphdata	function
dimensiondef	function	getglyphoptionvalues	function
directives	data table	getglyphscales	function
discoptioncodes	data table	getglyphscript	function
dontcomplain	function	getglyphstate	function
enableprimitives	function	getgroupvalues	function
error	function	gethccode	function
expandasvalue	function	gethelptext	function
experiments	data table	gethyphenationvalues	function
extraprimitives	function	getinputstatefile	function
fatalerror	function	getinputstateline	function
flagcodes	data table	getinputstatemode	function
fontidentifier	function	getinsertcontent	function
fontname	function	getinsertdepth	function
forcehmode	function	getinsertdistance	function
forceinputstatefile	function	getinsertheight	function

N defaulteqnogapstep	N maxnofmathfamilies	
N defaultthangafter	N maxquarterword	
N defaultoutputbox	N maxsizeofword	
N defaultpredisplaygap	N maxspacefactor	
N defaultrule	N maxtoksregisterindex	
N defaultspacefactor	N mincardinal	
N defaulttolerance	N mindatavalue	
N deplorable	N mindimen	
N ejectpenalty	N minhalfword	
N ignoreddepth	N mininfinity	
N infinitebad	N mininteger	
N infinitepenalty	N minquarterword	
N infinity	N minspacefactor	
N largewidthexcess	N nocatcodetable	
N loosecriterion	N null	
N mathbeginclass	N nullflag	
N mathendclass	N nullfont	
N maxattributeregisterindex	N onebp	
N maxboxregisterindex	N presetrulethickness	
N maxbytecodeindex	N runningrule	
N maxcardinal	N smallstretchability	
N maxcategorycode	N texeqtbsize	
N maxcharactercode	N texhashprime	
N maxcharcode	N texhashsize	
N maxdatavalue	N two	
N maxdimen	N undefinedmathparameter	
N maxdimenregisterindex	N unity	
N maxfunctionreference	N unusedattributevalue	
N maxglueregisterindex	N unusedmathfamily	
N maxhalfvalue	N unusedmathstyle	
N maxhalfword	N unusedscriptvalue	
N maxinteger	N unusedstatevalue	
N maxintregisterindex	N zeroglu	
N maxlimitedscale	mathchardef	function
N maxmarkindex	mathcode	table
N maxmathclasscode	mathcontrolcodes	data table
N maxmathfamilyindex	modelevels	table
N maxmuglueregisterindex	N horizontal	
N maxnewlinecharacter	N math	
N maxnofbytecodes	N unset	
N maxnofcatcodetables	N vertical	
N maxnoffonts	modes	data table
N maxnoflanguages	mprint	function
N maxnofmarks	muglue	table

muskip	table	setinputstateline	function
nest	table	setinputstatemode	function
nilcatcodes	number	setinsertcontent	function
noadoptioncodes	data table	setinsertdistance	function
normalizelinecodes	data table	setinsertlimit	function
normalizeparcodes	data table	setinsertmultiplier	function
notcatcodes	number	setintegervalue	function
number	function	setinteraction	function
parcontextcodes	data table	setlccode	function
poplocal	function	setlinedir	function
popsavelevel	function	setlist	function
preparelinebreak	function	setlocalbox	function
primitives	function	setmath	function
print	function	setmathcode	function
prtcacodes	number	setmathdir	function
pushlocal	function	setmuglue	function
pushsavelevel	function	setmuskip	function
quitlocal	function	setnest	function
quittoks	function	setpardir	function
resetparagraph	function	setrunstate	overloaded function
rlncatcodes	number	setsfcode	function
romannumeral	function	setskip	function
round	function	settettdir	function
runlocal	function	settoks	function
runstring	function	setuccode	function
runtoks	function	sfcode	table
saveboxresource	function	shiftparshape	function
scale	function	shipout	function
scantoks	function	showcontext	function
set	function	skip	table
setattribute	function	snapshotpar	function
setbox	function	sp	function
setboxdir	function	specialmathclasscodes	data table
setcatcode	function	splitbox	function
setcount	function	sprint	function
setdelcode	function	stringtocodesbitmap	function
setdimen	function	systemmodes	data table
setdimensionvalue	function	takebox	function
setglue	function	texcatcodes	number
setglyphdata	function	textcontrolcodes	data table
setglyphscript	function	toks	table
setglyphstate	function	tonumber	function
sethccode	function	toscaled	function
setinputstatefile	function	tpacatcodes	number

tpbcatcodes

tprint

trackers

triggerbuildpage

txtcacodes

type

number

function

data table

function

number

function

uccode

uprint

useboxresource

vrbcacodes

write

table

function

function

number

function

texconfig (basic tex)

firstline	string		N step
formatname	string	propertyssize	number
functionsize	number	shell_escape	string
init	overloaded function	tokensize	table
kpse_init	boolean		N size
nodesize	table		N step
	N size		

texio (basic tex)

closeinput	function	writeln	function
setlogfile	function	writeselector	function
terminal	function	writeselectorlf	function
write	function	writeselectornl	function
write_nl	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_cmdchrscs	function	getimmutable	function
get_cmdname	function	getindex	function
get_command	function	getinstance	function
get_csname	function	getinteger	function
get_cstoken	function	getmacro	function
get_dimension	function	getmeaning	function
get_expandable	function	getnoaligned	function
get_fields	function	getparameters	function
get_flags	function	getpermanent	function
get_frozen	function	getprimitive	function
get_id	function	getprimitives	function
get_immutable	function	getprotected	function
get_index	function	getrange	function
get_instance	function	gettok	function
get_integer	function	gettolerant	function
get_macro	function	gobble	function
get_meaning	function	gobble_dimen	function
get_noaligned	function	gobble_integer	function
get_parameters	function	gobbledimen	function
get_permanent	function	gobbleinteger	function
get_primitive	function	grab	function
get_protected	function	is_defined	function
get_range	function	is_next_char	function
get_tok	function	is_token	function
get_tolerant	function	isdefined	function
getactive	function	isnextchar	function
getcmdchrscs	function	istoken	function
getcmdname	function	new	function
getcommand	function	peek_next	function
getcommandid	function	peek_next_char	function
getcommandvalues	function	peek_next_expanded	function
getcsname	function	peeknext	function
getcstoken	function	peeknextchar	function
getdimension	function	peeknextexpanded	function

<code>pop_macro</code>	<code>function</code>	<code>scan_word</code>	<code>function</code>
<code>popmacro</code>	<code>function</code>	<code>scanargument</code>	<code>function</code>
<code>push_macro</code>	<code>function</code>	<code>scanbox</code>	<code>function</code>
<code>pushmacro</code>	<code>function</code>	<code>scancardinal</code>	<code>function</code>
<code>put_back</code>	<code>function</code>	<code>scanchar</code>	<code>function</code>
<code>put_next</code>	<code>function</code>	<code>scancmdchr</code>	<code>function</code>
<code>putback</code>	<code>function</code>	<code>scancmdchrexploded</code>	<code>function</code>
<code>putnext</code>	<code>function</code>	<code>scancode</code>	<code>function</code>
<code>save_lua</code>	<code>function</code>	<code>scancsname</code>	<code>function</code>
<code>savelua</code>	<code>function</code>	<code>scandelimited</code>	<code>function</code>
<code>scan_argument</code>	<code>function</code>	<code>scandimen</code>	<code>function</code>
<code>scan_box</code>	<code>function</code>	<code>scandimenargument</code>	<code>function</code>
<code>scan_cardinal</code>	<code>function</code>	<code>scanfloat</code>	<code>function</code>
<code>scan_char</code>	<code>function</code>	<code>scan glue</code>	<code>function</code>
<code>scan_cmdchr</code>	<code>function</code>	<code>scaninteger</code>	<code>function</code>
<code>scan_cmdchr_expanded</code>	<code>function</code>	<code>scanintegerargument</code>	<code>function</code>
<code>scan_code</code>	<code>function</code>	<code>scankey</code>	<code>function</code>
<code>scan_csname</code>	<code>function</code>	<code>scankeyword</code>	<code>function</code>
<code>scan_delimited</code>	<code>function</code>	<code>scankeywordcs</code>	<code>function</code>
<code>scan_dimen</code>	<code>function</code>	<code>scanletters</code>	<code>function</code>
<code>scan_dimen_argument</code>	<code>function</code>	<code>scanluacardinal</code>	<code>function</code>
<code>scan_float</code>	<code>function</code>	<code>scanluainteger</code>	<code>function</code>
<code>scan_glue</code>	<code>function</code>	<code>scanluanumber</code>	<code>function</code>
<code>scan_integer</code>	<code>function</code>	<code>scannext</code>	<code>function</code>
<code>scan_integer_argument</code>	<code>function</code>	<code>scannextchar</code>	<code>function</code>
<code>scan_key</code>	<code>function</code>	<code>scannextexploded</code>	<code>function</code>
<code>scan_keyword</code>	<code>function</code>	<code>scanreal</code>	<code>function</code>
<code>scan_keyword_cs</code>	<code>function</code>	<code>scanscale</code>	<code>function</code>
<code>scan_letters</code>	<code>function</code>	<code>scanskip</code>	<code>function</code>
<code>scan_luacardinal</code>	<code>function</code>	<code>scanstring</code>	<code>function</code>
<code>scan_luainteger</code>	<code>function</code>	<code>scantoken</code>	<code>function</code>
<code>scan_luanumber</code>	<code>function</code>	<code>scantokencode</code>	<code>function</code>
<code>scan_next</code>	<code>function</code>	<code>scantokenlist</code>	<code>function</code>
<code>scan_next_char</code>	<code>function</code>	<code>scantoks</code>	<code>function</code>
<code>scan_next_expanded</code>	<code>function</code>	<code>scanvalue</code>	<code>function</code>
<code>scan_real</code>	<code>function</code>	<code>scanword</code>	<code>function</code>
<code>scan_scale</code>	<code>function</code>	<code>serialize</code>	<code>function</code>
<code>scan_skip</code>	<code>function</code>	<code>set_char</code>	<code>function</code>
<code>scan_string</code>	<code>function</code>	<code>set_dimension</code>	<code>function</code>
<code>scan_token</code>	<code>function</code>	<code>set_integer</code>	<code>function</code>
<code>scan_token_code</code>	<code>function</code>	<code>set_lua</code>	<code>function</code>
<code>scan_tokenlist</code>	<code>function</code>	<code>set_macro</code>	<code>function</code>
<code>scan_toks</code>	<code>function</code>	<code>setchar</code>	<code>function</code>
<code>scan_value</code>	<code>function</code>	<code>setdimension</code>	<code>function</code>

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

tokens (context)

accessors table

F active
F cmd
F cmdchrsc
F cmdname
F command
F csname
F expandable
F frozen
F index
F name
F protected
F range

astable function

bits table

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

cache table

U NC
U NR
U bf
U buff_finish
U c_font_compact

U color
U colordefalc
U colordefflc
U colordefflt
U colordefrlt
U dofinishreference
U dostarttext
U finishjob
U firstofoneargument
U firstoftwoarguments
U gobbleoneargument
U goto
U iftrue
U input
U loadfoundtypescriptfile
U resetctxscanner
U rlap
U secondoftwoarguments
U setfalsevalue
U setsectionblock
U setupsystem
U startcolumns
U starttabulate
U starttitle
U startxtitle
U stopcolumns
U stoptabulate
U stoptitle
U stopxtitle
U texsetup
U xmlw

commands data table

compile function

constant function

converters table

S toboolean
S todimen
S toglue
S tonumber
S tostring

create function

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

F tokencode
 F tokenlist
 F tokens
 F toks
 F value
 F vbox
 F verbatim
 F vtop
 F whd
 F word
setinteger function
setters table

F box
 F char
 F count
 F dimen
 F glue
 F lua
 F macro
 F skip

shortcuts table

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

N open
 F report
 F scanargument
 F scanargumentasis
 F scanarray
 F scanboolean
 F scanbox
 F scanbracketed
 F scanbracketedasis
 F scancardinal
 F scanclose
 F scancode
 F scanconditional
 F scancsname
 F scancsnameunchecked
 F scandelimited
 F scandimen
 F scandimenargument
 F scandimension
 F scanglue
 F scangluespec
 F scangluevalues
 F scanhash
 F scanhbox
 F scaninteger
 F scanintegerargument
 F scankeyword
 F scankeywordcs
 F scanletters
 F scanlist
 T scanners
 F argument
 F argumentasis
 F array
 F boolean
 F box
 F bracketed
 F bracketedasis
 F cardinal
 F char
 F cmdchr
 F cmdchrexploded
 F code
 F conditional

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

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

F scandimen	F scanstring
F scandimenargument	F scantable
F scandimension	F scantokenlist
F scanglue	F scantoks
F scangluespec	F scanvbox
F scangluevalues	F scanverbatim
F scanhash	F scanvtop
F scanhbox	F scanword
F scaninteger	F tobboolean
F scanintegerargument	F todimen
F scankeyword	F tonumber
F scankeywordcs	F tostring
F scanletters	D values
F scanlist	F tonumber
F scannumber	F tostring
F scanopen	values data table
F scanoptional	

tracers (context)

printerror function
printwarning function

showlines function

trackers (context)

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

typesetters (context)

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

localboxes table

F handler

manipulators table

F apply

F applyspecification

T methods

F Word

F Words

F abbreviatedjournal

F expandedjournal

F lowercase

F stripperperiod

F uppercase

T patterns

U list

U pair

F splitspecification

margins table

F finalhandler

F globalhandler

F localhandler

F save

marksuspects function

paragraphs table

F addanchortoline

F addtoline

F calculatedelta

F checkline

F moveinline

periodkerns table

D factors

F handler

D mapping

F set

processors table

F apply

F register

F reset

F split

F startapply

F stopapply

F stripped

F toString

rubies table

F attach

F check

showsuspects function

spacings table

F define

F handler

D mapping

T numbers

T frenchpunctuation

T characters

S name

N number

F reset

F set

F setup

synchronize table

F handler

wrappers table

F handler

xtables table

F cleanup

F construct

F create

F finish_row

F flush

F initialize_construct

F initialize_reflow_height

F initialize_reflow_width

F next_row

F reflow_height

F reflow_width

F set_construct

F set_reflow_height

F set_reflow_width

updaters (context)

apply function
register function

url (context)

addscheme	function
barepath	function
construct	function
decode	function
encode	function
escape	function
filename	function

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

utf8 (basic lua)

char function
charpattern string
codepoint function

codes function
len function
offset function

utilities (context)

debugger table

F disable
F enable
F savestats
F showstats
F showtraceback

files table

F close
F getposition
F getsize
F look
F open
F read2dot14
F readbyte
F readbytes
F readbytetable
F readcardinal
F readcardinal1
F readcardinal1le
F readcardinal2
F readcardinal2le
F readcardinal3
F readcardinal3le
F readcardinal4
F readcardinal4le
F readcardinaltable
F readchar
F readcline
F readcstring
F readfixed2
F readfixed4
F readinteger
F readinteger1
F readinteger1le
F readinteger2
F readinteger2le
F readinteger3
F readinteger3le
F readinteger4
F readinteger4le
F readintegertable

F readsignedbyte
F readstring
F readtag
F setposition
F size
F skip
F skiplong
F skipposition
F skipshort
F writebyte
F writecardinal1
F writecardinal1le
F writecardinal2
F writecardinal2le
F writecardinal3
F writecardinal3le
F writecardinal4
F writecardinal4le
F writeinteger1
F writeinteger1le
F writeinteger2
F writeinteger2le
F writeinteger3
F writeinteger3le
F writeinteger4
F writeinteger4le
F writestring

formatters table

F formatcolumns
F list
F stripzeros

ghostscript table

F convert
F statistics

graphicmagick table

F convert
F statistics

graphicsmagick table

F convert
F statistics

lua table

- B alwaysstripcode
- F checkmemory
- F compile
- F loadedluacode
- F loadstring
- F loadstripped
- N nofstrippedbytes
- N nofstrippedchunks
- F registerfinalizer
- B stripcode
- T strippedchunks
- F strippedloadstring
- T suffixes
 - S lua
 - S luc
 - S lui
 - S luj
 - S luv
 - S tma
 - S tmc
 - S tua
 - S tuc

packers table

- F hashed
- F new
- F pack
- F simplehashed
- F strip
- F unpack
- N version

parsers table

- F add_settings_to_array
- F arguments_to_table
- F array_to_string
- F csvsplitter
- F getparameters
- F groupedsplitat
- F hash_to_string
- T hashes
 - T settings_to_set
 - T text,hidden,paper,page,leftpage,rightpage
 - B hidden
 - B leftpage
 - B page

- B paper
- B rightpage
- B text
- F iterator
- F keq_to_hash
- F listitem
- F make_settings_to_hash_pattern
- F mergehashes
- F options_to_array
- F options_to_hash
- T patterns
 - U settings_to_array
 - U settings_to_hash_a
 - U settings_to_hash_b
 - U settings_to_hash_c
 - U settings_to_hash_d
 - U unittotex
- F process_stripped_settings
- F rfc4180splitter
- F runtime
- F settings_to_array
- F settings_to_array_obey_fences
- F settings_to_array_with_repeat
- F settings_to_hash
- F settings_to_hash_colon_too
- F settings_to_hash_strict
- F settings_to_hash_tolerant
- F settings_to_numbers
- F settings_to_set
- F simple_hash_to_string
- F splitmethod
- F splitthousands
- F stepper
- F stripped_settings_to_array
- F totime
- F unittotex
- F unittoxml

randomizer table

- F get
- F getnumber
- F getrepeatable
- F getrepeatableseed
- F getseed
- F newrepeatable

F popseed		F sparse	
F pushseed		streams	table
F repeatable		F close	
F reuseseed		F getposition	
F setseed		F getsize	
F setseedi		F getstring	
randomizers	table	F look	
F poisson		F open	
sequencers	table	F openstring	
F appendaction		F read2dot14	
F appendgroup		F readbyte	
F compile		F readbytes	
F disableaction		F readbytetable	
F disablegroup		F readcardinal	
F enableaction		F readcardinal1	
F enablegroup		F readcardinal1le	
D functions		F readcardinal2	
F localize		F readcardinal2le	
F new		F readcardinal3	
F nodeprocessor		F readcardinal3le	
F prependaction		F readcardinal4	
F prependgroup		F readcardinal4le	
F removeaction		F readcardinaltable	
F replaceaction		F readchar	
F setkind		F readcline	
F tostring		F readcstring	
setters	table	F readfixed2	
F disable		F readfixed4	
F enable		F readinteger	
F initialize		F readinteger1	
F list		F readinteger1le	
F new		F readinteger2	
F register		F readinteger2le	
F report		F readinteger3	
F reset		F readinteger3le	
F show		F readinteger4	
stacker	table	F readinteger4le	
F new		F readintegertable	
storage	table	F readsignedbyte	
F allocate		F readstring	
F checked		F setposition	
F mark		F size	
F marked		F skip	
F setinitializer		F skipbytes	

F skiplong		F removevalue	
F skipshort		F replacevalue	
F tocardinal1		tar	table
F tocardinal1le		T archives	
F tocardinal2		F closearchive	
F tocardinal2le		T files	
F tocardinal3		F fetch	
F tocardinal3le		F hash	
F tocardinal4		F list	
F tocardinal4le		F pack	
strings	table	F unpack	
F collapse		F openarchive	
F collapsecrlf		T registeredfiles	
T formatters		T streams	
F add		F fetch	
F new		F hash	
F newcollector		F list	
F newrepeater		F pack	
F nice		F unpack	
T striplinepatterns		T strings	
U collapse		F fetch	
U prune		F hash	
U prune and collapse		F list	
U prune and no empty		F pack	
U prune and to space		F unpack	
U retain		templates	table
U retain and collapse		F load	
U retain and no empty		F replace	
F striplines		F replacer	
F striplong		F resolve	
F tabtospace		zipfiles	table
T tracers		F close	
tables	table	F found	
F accesstable		F hash	
F definedtable		F list	
F definetable		F open	
F encapsulate		F unzip	
F insertaftervalue		F unzipdir	
F insertbeforevalue		F zipdir	
F migratetable			

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
registerescapepline	function	writespace	function
registerescapepattern	function		

xcomplex (extra lua)

I	function	F sqrt	
__add	function	F tan	
__div	function	F tanh	
__eq	function	F topair	
__index	table	F tostring	
F I		F totable	
F __add		F __mul	
F __div		S __name	
F __eq		F __pow	
T __index		F __sub	
F I		F __tostring	
F __add		F __unm	
F __div		F abs	
F __eq		F acos	
F __mul		F acosh	
S __name		F arg	
F __pow		F asin	
F __sub		F asinh	
F __tostring		F atan	
F __unm		F atanh	
F abs		F conj	
F acos		F cos	
F acosh		F cosh	
F arg		F exp	
F asin		F i	
F asinh		F imag	
F atan		F log	
F atanh		F new	
F conj		F pow	
F cos		F proj	
F cosh		F real	
F exp		F sin	
F i		F sinh	
F imag		F sqrt	
F log		F tan	
F new		F tanh	
F pow		F topair	
F proj		F tostring	
F real		F totable	
F sin		__mul	function
F sinh		__name	string

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

xdecimal (extra lua)

__add	function	F getprecision
__band	function	F ln
__bor	function	F log
__bxor	function	F max
__div	function	F min
__eq	function	F minus
__idiv	function	F new
__index	table	F plus
F __add		F pow
F __band		F rotate
F __bor		F setprecision
F __bxor		F shift
F __div		F sqrt
F __eq		F toengstring
F __idiv		F tonumber
T __index		F tostring
F __add		F trim
F __band		F __le
F __bor		F __lt
F __bxor		F __mod
F __div		F __mul
F __eq		S __name
F __idiv		F __pow
F __le		F __shl
F __lt		F __shr
F __mod		F __sub
F __mul		F __tostring
S __name		F __unm
F __pow		F abs
F __shl		F band
F __shr		F bor
F __sub		F bxor
F __tostring		F conj
F __unm		F copy
F abs		F exp
F band		F getprecision
F bor		F ln
F bxor		F log
F conj		F max
F copy		F min
F exp		F minus

F new		band	function
F plus		bor	function
F pow		bxor	function
F rotate		conj	function
F setprecision		copy	function
F shift		exp	function
F sqrt		getprecision	function
F toengstring		ln	function
F tonumber		log	function
F tostring		max	function
F trim		min	function
__le	function	minus	function
__lt	function	new	function
__mod	function	plus	function
__mul	function	pow	function
__name	string	rotate	function
__pow	function	setprecision	function
__shl	function	shift	function
__shr	function	sqrt	function
__sub	function	toengstring	function
__tostring	function	tonumber	function
__unm	function	tostring	function
abs	function	trim	function

xmath (extra lua)

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

xml (context)

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

inheritattributes	function	privatecodes	table
inheritedconvert	function	privatetoken	function
inject	function	process	function
inject_element	function	process_attributes	function
inject_element_after	function	process_elements	function
inject_element_before	function	processattributes	function
injectafter	function	profiled	table
injectbefore	function	pure	function
insert	function	pushmatch	function
insert_element	function	raw	function
insert_element_after	function	registerentity	function
insert_element_before	function	registerns	function
insertafter	function	reindex	function
insertbefore	function	remap_name	function
insertcdata	function	remap_namespace	function
insertcomment	function	remap_tag	function
inspect	function	remapname	function
is_valid	function	remapnamespace	function
kind	function	remaptag	function
last	function	rename	function
lastmatch	function	renamespace	function
load	function	reparsedentitylpeg	userdata
lpath	function	replace	function
lpathcached	function	replace_element	function
lpathcalls	function	resetinjectors	function
lshow	function	resolvns	function
makestandalone	function	root	function
match	function	save	function
name	function	selection	function
newhandlers	function	separate	function
nodesettostring	function	serialize	function
originalload	function	serializetotext	function
package	function	setcdata	function
parent	function	setcomment	function
parsedentitylpeg	userdata	sethandlersfunction	function
pihandlers	table	setinjectors	function
F injector		setproperty	function
F tex		settings	function
placeholders	table	specialcodes	table
F unknown_any_entity		S "	
F unknown_dec_entity		S #	
F unknown_hex_entity		S \$	
popmatch	function	S %	
position	function	S &	

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

xzip (extra lua)

adler32 function
compress function
compresssize function

crc32 function
decompress function
decompresssize function

zip (extra lua)

archives

table

closearchive

function

openarchive

function

registeredfiles

table

zlib (extra lua)

adler32 function

compress function

compresssize function

crc32 function

decompress function

decompresssize function