

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 **posit** potrace 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** **zip** **zlib**

ConT_EXt LMTX

global (alias: _G)

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

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

texisdefined	data table	userdata	table
texmodes	data table	utf	table
texsystemmodes	data table	utf8	table
thirddata	table	utilities	table
toboollean	function	visualizers	table
todecimal	function	warn	function
token	table	width	number
tokens	table	xcomplex	table
tonumber	function	xdecimal	table
tostring	function	xmath	table
tracers	table	xml	table
trackers	table	xpcall	function
type	function	xshift	number
typesetters	table	xzip	table
unpack	function	zip	table
updaters	table	zlib	table
url	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 formatluminance
- F formatluminanceratio
- 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 forcesupport
F register	F handler
D registered	B hasorder
B supported	D listwise
F toattribute	F register
B triggering	D registered
F value	F resolve_begin
D values	F resolve_end
unsetvalue	F resolve_reset
values	F resolve_step
viewerlayers	D scopes
N attribute	F setfeatures
F cleanup	F setup
D data	F start
F define	F stop
F definedlayoutcomponent	B supported
F enable	D values

backends (context)

closeout function

codeinjections table

F registerboxresource

F restoreboxresource

current string

defaults table

T codeinjections

F prerollreference

F setautoprefix

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 mergerenditions

F mergeviewerlayers

F newimage

F png

F prerollreference

F presetsymbol

F presetsymbolist

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 setautoprefix
 F setencryption
 F setfieldcalculationset
 F setfigurealternative
 F setfigurecolorspace
 F setfiguremask
 F setformat
 F setformsmethod
 F setpagetransition
 F settaggingsupport
 F setupviewerlayer
 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
assign	function
collectcontent	function
empty	function
erase	function
exists	function
get	function
getcontent	function
getctxlua	function
getlines	function
getmkvi	function
gettex	function
loadcontent	function

parallel	table
F define	
F hassomecontent	
F next	
F place	
F reset	
F save	
prepend	function
raw	function
run	function
samplefile	function
splitsamplefile	function
undent	function

builders (context)

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

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 linebreak_quality

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 paragraph_pass

B post_linebreak_filter

B pre_dump

B pre_linebreak_filter

B pre_output_filter

B process_character

B process_jobname

B quality_font

B register_extensible

B show_break

B show_build

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

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

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)

cleannname 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	romannumerals	function
abjadnumerals	function	russiannumerals	function
alphabetic	function	sequences	data table
alphabetic:es	function	settime	function
alphabetic:ru	function	sloveniannumerals	function
alphabetic:sl	function	spaceddigits	function
character	function	spanishnumerals	function
characters	function	textime	function
chineseallnumerals	function	toabjad	function
chinesecapnumerals	function	tochinese	function
chinesenumerals	function	tohebrew	function
chr	function	toroman	function
chrs	function	totime	function
cn	function	uchexnumber	function
cn-a	function	uchexnumbers	function

upper
verbose
D data
F translate

function
table

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
expandlink	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	luafilechunk	function
arguments	data table	luatexengine	string
basicengines	data table	luatexfunctionality	number
currentrun	number	luatexverbose	string
definefilefallback	function	luatexversion	number
definefilesynonym	function	maxnofruns	number
engineflags	data table	oldhome	string
filename	string	originalarguments	data table
filenames	table	outputfilename	string
files	table	ownbin	string
filesynonyms	data table	ownmain	string
forcedruns	number	ownname	string
getargument	function	ownpath	string
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
jobfilefullname	string	texmfos	string
jobfilename	string	texos	string
jobfilesuffix	string	texroot	string
jobname	string	truefilename	function
kindofrun	number	uselua module	function
lmtxmode	number	usemodules	function
loadexamodes	function	validengines	data table
loadluafile	function	version	string
luafile	function		

experiments (context)

data	data table	register	function
default	function	report	function
disable	function	reset	function
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
addquality	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

callbacks table

- F callback
- F devirtualize

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 direct
- 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	S defaultnodealternate
F getmathparameter	D features
F getprivate	F featuresinitializer
T handlers	F featuresprocessor
T afm	F getactualtext
B autoprefixed	F getalternate
D cache	F getgsub
D features	F getkern
F getkern	F getmultiple
T helpdata	F getstreamhash
D bothkerned	F getsubstitution
D leftkerned	T handlers
D ligatures	F 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

F pluginprocessor	F context
T plugins	F extension
T text	F ligature
D pngcache	F multiple
B pngenabled	F reversechainedcontextsingle
T readers	F single
F addunicodetable	F gvar
F avar	F head
F cbdt	T helpers
F cblc	F axistofactors
F cff	F cleanname
F cff2	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 getsize
F chainedcontext	F look

F open	F writecardinal3
F read2dot14	F writecardinal3le
F readbyte	F writecardinal4
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

- N kern
- N mark
- 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
- N version
- T tfm
- D cache
- D features
- N maxnestingdepth
- N maxnestingsize
- T readers
- F loadpk
- F loadtfm
- F loadtfmvf
- 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
- D predefined
- 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**
- currentid**
- definers**
- 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

- function
- function
- table

- F read
- F register
- F registered
- F registerfallbackfont
- F registersplit
- F resetnullfont
- F resolve
- T resolvers
 - F file
 - F name
 - F spec
- definetypface** function
- dropins** table
 - F clone
 - F getshape
 - F getshapes
 - F nextid
 - F provide
 - F registerglyph
 - F registerglyphs
 - F swap
 - F swapone
- effects** table
- encodings** table
 - T agl
 - D ctxcodes
 - D extras
 - D names
 - D synonyms
 - D unicodes
 - D cache
 - F is_known
 - D known
 - F load
 - F make_unicode_vector
 - D math
 - N version
- enhanceid** function
- expansions** data table
- formats** data table
- getalternate** function
- getindices** function
- getkern** function
- getmultiple** function

- getsubstitution** function
- getters** table
 - T alternate
 - F opentype
 - T kern
 - F opentype
 - F type1
 - F type3
 - T multiple
 - F opentype
 - T substitution
 - F opentype
- goodies** table
 - D colorschemes
 - T data
 - T common-math.lfg
 - S author
 - S comment
 - S copyright
 - B initialized
 - T mathematics
 - T tweaks
 - T presets
 - F braille
 - F eulertocalligraphic
 - F fallbacks
 - F moderntocalligraphic
 - F moveintegrals
 - F moveitalics
 - F pagellaradical
 - F rsfstoscript
 - F rsfsuprighttoscript
 - F scripttocalligraphic
 - F smalldigits
 - F wipeanchors
 - F wipeitalics
 - F xitsarabic
 - S name
 - S version
- T dejavu-math
 - S author
 - S comment
 - S copyright
 - B initialized

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

F expandglyph	N delimited ghost ddot
T extraprivates	N delimited ghost dot
F fontpatternhassize	N delimited ghost dprime
F getcoloredglyphs	N delimited ghost hat
F getdigitwidth	N delimited ghost lower corner
F getinstancespec	N delimited ghost prime
F getparameters	N delimited ghost qprime
F getprivatecharornode	N delimited ghost rdprime
F getprivatenode	N delimited ghost ring
F getprivates	N delimited ghost rprime
F getprivateslot	N delimited ghost rtprime
F hasprivate	N delimited ghost star
F indextoslot	N delimited ghost star 1
F isprivate	N delimited ghost tilde
F mathscriptslots	N delimited ghost tprime
F name	N delimited ghost upper corner
F nametoslot	N delimited left annuity
F newprivateslot	N delimited left lower corner
F prependcommands	N delimited left upper corner
F prependcommandtable	N delimited right annuity
F privateslot	N delimited right ast
F registerglyphbox	N delimited right ast 1
F scalecommands	N delimited right bar
F setboxdirectly	N delimited right breve
F setboxglyph	N delimited right check
F setboxglyphs	N delimited right dagger
F setdigitwidth	N delimited right dagger 1
F setmetaglyph	N delimited right ddagger
F setmetaglyphs	N delimited right ddagger 1
T sharedprivates	N delimited right dddot
N arrow left piece	N delimited right ddot
N arrow right piece	N delimited right dot
N cm brace piece	N delimited right dprime
N delimited ghost annuity	N delimited right drprime
N delimited ghost ast	N delimited right dtprime
N delimited ghost ast 1	N delimited right hat
N delimited ghost bar	N delimited right lower corner
N delimited ghost breve	N delimited right prime
N delimited ghost check	N delimited right qprime
N delimited ghost dagger	N delimited right ring
N delimited ghost dagger 1	N delimited right rprime
N delimited ghost ddagger	N delimited right star
N delimited ghost ddagger 1	N delimited right star 1
N delimited ghost dddot	N delimited right tilde

N delimited right tprime	N flat double rule right piece
N delimited right upper corner	N flat rule left piece
N double arrow left piece	N flat rule middle piece
N double arrow right piece	N flat rule right piece
N double rule left piece	N fraction bar extender
N double rule middle piece	N left hook piece
N double rule right piece	N ll brace piece
N flat accent 00300	N lm brace piece
N flat accent 00301	N lr brace piece
N flat accent 00302	N maps to piece
N flat accent 00303	N minus rule left piece
N flat accent 00304	N minus rule middle piece
N flat accent 00306	N minus rule right piece
N flat accent 00307	N mirror.10204
N flat accent 00308	N mirror.10205
N flat accent 0030A	N mirror.10206
N flat accent 0030C	N mirror.10210
N flat accent 020DB	N mirror.10211
N flat accent F06C3	N mirror.10214
N flat accent F06C7	N mirror.10215
N flat accent F06C9	N mirror.10216
N flat accent F06CB	N mirror.10217
N flat accent F06CD	N mirror.10218
N flat accent F06D1	N mirror.10219
N flat accent F06D3	N mirror.10222
N flat accent F06D5	N mirror.10223
N flat accent F06D7	N mirror.10764
N flat accent F06DB	N mirror.10769
N flat accent F06DD	N mirror.10877
N flat accent F06DF	N mirror.10878
N flat accent F06E1	N mirror.10885
N flat accent F06E5	N mirror.10886
N flat accent F06E7	N mirror.10887
N flat accent F06E9	N mirror.10888
N flat accent F06EB	N mirror.10889
N flat accent F06EF	N mirror.10890
N flat accent F06F1	N mirror.10891
N flat accent F06F3	N mirror.10892
N flat accent F06F5	N mirror.10901
N flat accent F06F9	N mirror.10902
N flat accent F06FB	N mirror.10927
N flat accent F06FD	N mirror.10928
N flat double rule left piece	N mirror.120597
N flat double rule middle piece	N mirror.123

N mirror.12310
N mirror.12311
N mirror.125
N mirror.171
N mirror.187
N mirror.247
N mirror.40
N mirror.41
N mirror.47
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N mirror.984840	N mirror.984908
N mirror.984841	N mirror.984909
N mirror.984842	N mirror.984910
N mirror.984843	N mirror.984919
N mirror.984844	N mirror.984920
N mirror.984853	N mirror.984921
N mirror.984854	N mirror.984922
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N mirror.984861	N mirror.984929
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N mirror.984864	N mirror.984932
N mirror.984865	N mirror.984941
N mirror.984866	N mirror.984942
N mirror.984875	N mirror.984943
N mirror.984876	N mirror.984944
N mirror.984877	N mirror.984951
N mirror.984878	N mirror.984952
N mirror.984879	N mirror.984955
N mirror.984880	N mirror.984956
N mirror.984881	N mirror.984957
N mirror.984882	N mirror.984958
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N mirror.984885	N mirror.984961
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N mirror.984888	N mirror.985004
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N mirror.984898	N mirror.985006
N mirror.984899	N mirror.985007
N mirror.984900	N mirror.985008
N mirror.984901	N mirror.985009
N mirror.984902	N mirror.985010
N mirror.984903	N mirror.985011
N mirror.984904	N mirror.985012
N mirror.984905	N mirror.985013

N mirror.985014	N mirror.985126
N mirror.985015	N mirror.985127
N mirror.985016	N mirror.985128
N mirror.985017	N mirror.985129
N mirror.985018	N mirror.985130
N mirror.985019	N mirror.985131
N mirror.985020	N mirror.985132
N mirror.985021	N mirror.985133
N mirror.985022	N mirror.985134
N mirror.985023	N mirror.985135
N mirror.985024	N mirror.985136
N mirror.985025	N mirror.985137
N mirror.985026	N mirror.985138
N mirror.985031	N mirror.985139
N mirror.985033	N mirror.985140
N mirror.985034	N mirror.985141
N mirror.985038	N mirror.985142
N mirror.985040	N mirror.985143
N mirror.985041	N mirror.985144
N mirror.985045	N mirror.985145
N mirror.985047	N mirror.985146
N mirror.985048	N mirror.985147
N mirror.985052	N mirror.985148
N mirror.985054	N mirror.985149
N mirror.985055	N mirror.985150
N mirror.985059	N mirror.985151
N mirror.985061	N mirror.985152
N mirror.985062	N mirror.985153
N mirror.985066	N mirror.985154
N mirror.985068	N mirror.985155
N mirror.985069	N mirror.985156
N mirror.985113	N mirror.985157
N mirror.985114	N mirror.985158
N mirror.985115	N mirror.985159
N mirror.985116	N mirror.985160
N mirror.985117	N mirror.985161
N mirror.985118	N mirror.985162
N mirror.985119	N mirror.985163
N mirror.985120	N mirror.985164
N mirror.985121	N mirror.985165
N mirror.985122	N mirror.985166
N mirror.985123	N mirror.985167
N mirror.985124	N mirror.985168
N mirror.985125	N mirror.985169

N mirror.985170
 N mirror.985171
 N mirror.985172
 N mirror.985173
 N mirror.985174
 N mirror.985175
 N mirror.985176
 N mirror.985177
 N mirror.985178
 N mirror.985179
 N mirror.985180
 N mirror.985181
 N mirror.985182
 N mirror.985183
 N mirror.985184
 N mirror.985200
 N radical bar extender
 N radical rule left piece
 N radical rule middle piece
 N radical rule right piece
 N right hook piece
 N rule left piece
 N rule middle piece
 N rule right piece
 N ul brace piece
 N um brace piece
 N unary minus
 N unary minus plus
 N unary plus
 N unary plus minus
 N ur brace piece
 N visuals space
 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
loggers table
 F format
 F onetimemessage
 F register
 F reportdefinedfonts
 F reportusedfeatures
mappings table
 F addtounicode
 F fromunicode16
 F getentry
 F loadfile
 F loadline
 F makenameparser
 D overloads
 F reset
 F tounicode
 F tounicode16
 F tounicode16sequence
metapost table
 F baseline
 F boundingbox
 F boxtomp
 F draw
 F fill
 F glyph
 F maxbounds
 F paths
 F widthline
 F zeroline
names data table
nulldata data table
privateoffsets table
 B keepnames
 N mathbase
 N mathextrabase
 N textbase
 N textextrabase
protrusions data table
readers table
 F afm
 F check_lua
 F check_tfm
 F lua

- F ofm
- F opentype
- F otf
- F pfb
- D sequence
- F tfm
- F ttc
- F ttff
- F woff
- registersanitizer** function
- reserveid** function
- select** table
 - D alternatives
 - F bodyfont
 - D data
 - F default
 - D defaults
 - F definefallbackfamily
 - F definefontfamily
 - F definefontfamilypreset
 - D extras
 - F fallback
 - D fallbacks
 - F features
 - F filefallback
 - F fontdata
 - F fontfallback
 - F fontsynonym
 - F goodies
 - F mathfallback
 - D methods
 - D presets
 - F registerfallback
 - F registerfiles
 - F registerfontalternative

- F registerfontfamily
- F textfallback
- F typeface
- F typescript
- F userdata
- specifiers** table
 - D contextmerged
 - F contextnumber
 - D contextnumbers
 - D contextsetups
 - F contexttostring
 - F definecontext
 - F mergecontext
 - F presetcontext
 - F registercontext
 - F showcontext
 - F splitcontext
 - D synonyms
 - D variants
- symbols** table
 - T emoji
 - F checked
 - F resolved
 - F uselibrary
- tables** table
- toeffect** function
- tracers** table
- treatments** table
 - F applyfixes
 - D data
 - S filename
 - F ignoredfile
 - F report
 - F trace
- typefaces** table

functions (context)

dummy function

graphics (context)

backgrounds table

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

bitmaps table

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

identifiers table

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

identify function

synchronizers table

- F collapse
- F collect
- F extend
- F getbottom
- F getd
- F geth
- F getkind
- F getsizes
- 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	open	overloaded function
bytes	function	output	overloaded function
characters	function	pathseparator	string
close	function	popen	overloaded function
copydata	function	read	function
exists	function	readall	function
fileseparator	string	readnumber	function
flush	function	readstring	function
gobble	function	savedata	function
input	overloaded function	size	function
lines	overloaded function	stderr	userdata
loadchunk	function	stdin	userdata
loaddata	function	stdout	userdata
loadlines	function	tmpfile	function
newreader	function	type	function
noflines	function	write	function

job (context)

comment	function	F realpage	
datasets	table	F realpageorder	
D collected		F setstate	
F extend		D tobesaved	
F getdata		parwrappers	table
F setdata		D collected	
D tobesaved		D tobesaved	
disablesave	function	positions	table
embedded	table	F b_column	
D collected		F b_region	
D tobesaved		F c	
fileobjreferences	table	D collected	
D collected		F column	
D tobesaved		F columnofpos	
files	table	F copy	
D collected		F depth	
F context		F e_column	
B forcerun		F e_region	
F run		F enhance	
D tobesaved		F extra	
getrandomseed	function	F get	
initialize	function	F getcolumndata	
linkedlists	table	F getfree	
D collected		F gethpos	
D tobesaved		F getpos	
load	function	F getreserved	
loadother	function	F getrpos	
objects	table	F getsync	
D collected		F gettobesaved	
F get		F getvpos	
F number		F hangafter	
F page		F hangindent	
F save		F height	
F set		F hsize	
D tobesaved		N lastx	
pack	boolean	N lasty	
packversion	number	F leftskip	
pagestates	table	F lowerleft	
D collected		F lowerright	
F countervalue		F markregionbox	
F extend		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 namestack
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		nofflattened	function
getdata	function	numbers	data table
getnumber	function	postexhyphenchar	function
goodiefiles	function	posthyphenchar	function
hjcounts	table	preexhyphenchar	function
hyphenate	function	prehyphenchar	function
hyphenators	table	registered	data table
T dictionaries		registeredactions	table
D featuresets		replacements	table
F handler		F add	
T methods		F addlist	
F expanded		F handler	
B none		F set	
F original		serializediscretionary	function
F tex		setexceptions	function
F traditional		setgoodieshandler	function
F popmethod		setoptions	function
F pushmethod		setpatterns	function
F setmethod		setsynonym	function
F setup		setwordhandler	function
F showhyphenationtrace		showdiscretionaries	function
T traditional		strippedgoodiewords	function
F definefeatures		tolang	function
F gettrace		transliteration	table
F hyphenate		F 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
mkdirs	function
modification	function
readlink	function
rmdir	overloaded function
setexecutable	function
symlink	function
symlinktarget	function
touch	overloaded function
walkdir	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
adddocumentcolorspace	function
adddocumenttextgstate	function
adddocumentpattern	function
adddocumentshade	function
addtocatalog	function
addtoinfo	function
addtonames	function
addtopageattributes	function
addtopageresources	function
addtopagesattributes	function
addxmpinfo	function
annotationspecification	function
array	function
attachmentsymbols	function
boolean	function
border	function
checkedkey	function
checkedvalue	function
circularshade	function
cmykcode	function
collectedresources	function
color	function
colorspace	function
colorspaceconstants	data table
colorspec	function
colorvalue	function
colorvalues	function
commentsymbols	function
compresslevel	function
constant	function
copyarray	function
copyboolean	function
copyconstant	function
copydictionary	function
copyfloat	function
copyinteger	function
copynumber	function
copystring	function
copyunicode	function
deferredobject	function

delayedobject	function
destinationspecification	function
dictionary	function
docstring	function
epdf	table
F analyzefonts	
F contenttotext	
F expanded	
F getpagecontent	
F getstructure	
T image	
F close	
F copy	
F new	
F open	
F query	
F load	
F objecttype	
F parsecontent	
F plugin	
T resolvers	
F destinations	
F embeddedfiles	
F javascripts	
F layers	
F pages	
F structure	
F widgets	
F stripcontent	
F unload	
F verboseobject	
escaped	function
finalizeddocument	function
finalizefonts	function
finalizepage	function
finishtransparencycode	function
flags	table
T annotations	
N AutoView	
N Hidden	
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	unicode	function
object	function	usedcharacters	table
objectcompresslevel	function	usedfontnames	table
pagereference	function	N dejavusansmonoboldttf-1	
patternstream	function	usedfontobjects	table
pdfcolor	function	N dejavusansmonoboldttf-1	
pdftimestamp	function	usedfontstreams	table
print	function	T dejavusansmonoboldttf-1	
procset	function	T characters	
protectresources	boolean	T descriptions	
rectangle	function	T fonts	
reference	function	T goodies	
registerannotation	function	S original	
registerdestination	function	T parameters	
registerdocumentfinalizer	function	N ascender	
registerfont	function	N descender	
registerfontmethod	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 hfactor	
setpageorder	function	N mathsize	
setpagestate	function	N maxsize	
setpagetag	function	N minsize	
setversion	function	N mode	
sharedobject	function	N quad	
shareobject	function	N scaledpoints	
shareobjectreference	function	N size	
spotcode	function	N slant	
stream	function	N slantfactor	
string	function	N space	
toeight	function	N spaceshrink	
topdfdoc	function	N spacestretch	
tosixteen	function	N squeezefactor	
transparency	function	N textsize	
transparencycode	function	N units	
transparencygroups	table	N vfactor	
B none		N width	
transparencyvalue	function	N xheight	

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

T tlig	N Ccedilla
T *	N Ccircumflex
B *	N Cdotaccent
T tquo	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 Alphanotos	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 Icircumflex	N Oslash
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 Wdieresis	N arrowdbldown
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 colon
N colonmonetary
N comma
N congruent
N copyright
N currency
N d
N dagger
N daggerdbl
N dcaron
N dcroat
N degree
N delta
N diaeresis.symbols
N diamond
N dieresis
N dieresistonos
N divide
N dkshade
N dLlTcaron
N dnblock
N dollar
N dong
N dotaccent
N dotbelowcomb
N dotlessi
N dotlessj
N dotmath
N e
N eacute
N ebreve
N ecaron
N ecircumflex
N edieresis
N edotaccent
N egrave
N eight
N element
N ellipsis
N emacron
N emdash
N emptyset
N endash
N eng

N eogonek
N epsilon
N epsilontonos
N equal
N equivalence
N estimated
N eta
N etatonos
N eth
N exclam
N exclamdbl
N exclamdown
N existential
N f
N female
N fi
N figuredash
N filledbox
N filledrect
N five
N fiveeighths
N fl
N florin
N four
N fractionslash
N franc
N g
N gamma
N gbreve
N gcaron
N gcircumflex
N gcommaaccent
N gdotaccent
N germandbls
N gradient
N grave
N gravecomb
N greater
N greaterequal
N guillemotleft
N guillemotright
N guilsinglleft
N guilsinglright
N h

N hbar	N lfblock
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 omega	N quotedblleft
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 signal
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 t	N tilde
N tau	N v
N tbar	N w
N tcaron	N wacute
N tcommaaccent	N wcircumflex
N therefore	N wdieresis
N theta	N wgrave
N theta1	N x
N thinquestion	N xi
N thorn	N y
N three	N yacute
N threeeighths	N ycircumflex
N threequarters	N ydieresis
N threesuperior	N yen
N tilde	N ygrave
N tildecomb	N z
N tonos	N zacute
N trademark	N zcaron
N triagdn	N zdotaccent
N triaglf	N zero
N triagrt	N zeta
N triagup	S version
N two	T shared
N twosuperior	T dynamics
N twothirds	T features
N u	B analyze
N ugrave	B checkmarks
N uhorn	B devanagari
N uhungarumlaut	B dummies
N umacron	B extensions
N underbar	B extrafeatures
N underbar.small	B extraprivates
N underbar.wide	B features
N underscore	S indic
N underscoredbl	B mathrules
N union	S mode
N universal	N number
N uogonek	B spacekern
N upblock	B visualspace
N upsilon	T processes
N upsilondieresis	T rawdata
N upsilondieresistonos	S cache_uuid
N upsilontonos	N cache_version
N uring	B compacted

B condensed	N maxadvancewidth
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 fstype	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	N textcontrol
N maxadvanceheight	T unscaled

N cache_version	N xheight	
T changed	T properties	
T characters	S filename	
T descriptions	S fontname	
T mathparameters	S format	
T parameters	S fullname	
N ascender	B hasmath	
N charwidth	N id	
N descender	S mode	
N designsize	B monospaced	
N extraspace	S name	
N italicangle	N private	
N maxsize	S psname	
N minsize	B setitalics	
N quad	S space	
N slant	N subfont	
N space	S writingmode	
N spaceshrink	usedindices	table
N spacestretch	T dejavusansmonoboldttf-1	
N units	verbose	function
N vheight		

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	utfR	function
counter	function	utfchartabletopattern	function
endstripper	function	utfreplacer	function
finder	function	version	string

lua (basic tex)

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

luac (context)

inspect function
print function

luatex (context)

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

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	F add	
rawtex	function	F compare	
refatt	function	F flush	
register	function	F reset	
registerentity	function	F show	
removesetup	function	F sort	
replace	function	splitid	function
resetcdata	function	startraw	function
resetsetups	function	startunesaped	function
resolvedentity	function	stopraw	function
root	function	stopunesaped	function
save	function	store	function
serialize	function	strip	function
setaction	function	stripped	function
setatt	function	tag	function
setattribute	function	texatt	function
setcdata	function	text	function
setcommandtonone	function	tobuffer	function
setcommandtotext	function	tofile	function
setpar	function	toparameters	function
setparam	function	toverbatim	function
setparameter	function	verbatim	function
setsetup	function	withindex	function
snippet	function	xmltexhandler	data table
sorters	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	makefont	function
addvariant	function	mapremap	data table
alphabets	data table	overloadparameters	function
alternatives	data table	preset	function
beforepassingfonttotex	function	presets	table
big	function	T less	
boldmap	data table	T more	
categories	table	T zero	
D functions		privatebase	number
charactersets	data table	registersimplematrix	function
checkaftercopyingfont	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
D data		scaleparameters	function
D defaults		sets	data table
D groups		setsnapping	function
F groupset		setvariant	function
F groupsetgroup		startcollecting	function
D names		stopcollecting	function
F registercharacter		styles	data table
F registergroup		syncboth	function
F registergroupset		syncname	function
D sets		syncstyle	function
D variants		toengineclass	function
dimensions	function	toname	function
extensiblecode	function	tostyle	function
extensibles	data table	tweakaftercopyingfont	function
extrabase	number	tweakbeforecopyingfont	function
fallbacks	table	tweaks	table
F apply		F accentdimensions	
F install		F action	
fallbackstyleattr	function	F addactuarial	
gaps	data table	F addarrows	
getboth	function	F addbars	
getstyle	function	F addequals	
horizontalcode	function	F addfourier	
initializeparameters	function	F addmirrors	

F addparts	F radicaldegreeanchors	
F addprivates	F replace	
F addrules	F replacealphabets	
F addscripts	F replacerules	
F bigslots	F setoptions	
F checkaccents	F setovershoots	
F checkspacing	F showinfo	
F copyaccents	F simplifykerns	
T datasets	F sortvariants	
T accentdimensions	F staircase	
T accent	T subsets	
T over	T acenorsuvxz	
T under	T bhklt	
T addarrows	T d	
T addscripts	T dotless	
T checkspacing	T f	
T copyaccents	T gjqy	
T fixprimes	T horizontalfences	
T fixslashes	T i	
T wipecues	T integrals	
F dimensions	T mw	
F extendaccents	T p	
F fallbacks	F substitute	
F fixaccents	F topanchors	
F fixellipses	F tweaks	
F fixintegrals	F version	
F fixoldschool	F wipeanchors	
F fixprimes	F wipecues	
F fixradicals	F wipeitalics	
F fixslashes	F wipevariants	
F flattenaccents	utfmathaccent	function
F inspect	utfmathclass	function
F keepbases	utfmathcommand	function
F kernpairs	utfmathfiller	function
F kerns	utfmathstretch	function
F margins	variantcode	function
F message	variantcount	function
F moveitalics	virtualize	function
F movelimits	virtualized	data table
F parameters		

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
setparameter	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 vacuous

typesvgpage
unload

function
function

untagvariable
variables

function
table

mime (extra lua)

b64 function

decode function

decodet table

F base64

F quoted-printable

dot function

encode function

encodet table

F base64

F quoted-printable

eol function

normalize function

qp function

qpwrp function

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

lmt_contours_nofvalues	function	mf_blob_width	function
lmt_contours_nx	function	mf_external_figure	function
lmt_contours_ny	function	mf_finish_saving_data	function
lmt_contours_range	function	mf_formatted_text	function
lmt_contours_shade_paths	function	mf_get_outline_text	function
lmt_contours_shade_set	function	mf_graphic_text	function
lmt_contours_shape_paths	function	mf_inject_blob	function
lmt_contours_start	function	mf_map_move	function
lmt_contours_stop	function	mf_map_text	function
lmt_contours_value	function	mf_named_color	function
lmt_contours_xrange	function	mf_outline_text	function
lmt_contours_yrange	function	mf_save_data	function
lmt_function_x	function	mf_script_index	function
lmt_glyphshape_accent	function	mf_start_saving_data	function
lmt_glyphshape_baseline	function	mf_stop_saving_data	function
lmt_glyphshape_boundingbox	function	mode	function
lmt_glyphshape_depth	function	n	function
lmt_glyphshape_height	function	number	function
lmt_glyphshape_italic	function	numeric	function
lmt_glyphshape_n	function	pair	function
lmt_glyphshape_path	function	pairpoints	function
lmt_glyphshape_start	function	path	function
lmt_glyphshape_stop	function	pathpoints	function
lmt_glyphshape_usedbox	function	points	function
lmt_glyphshape_usedline	function	print	function
lmt_glyphshape_width	function	F boolean	
lmt_mesh_set	function	F color	
lmt_mesh_update	function	F direct	
lmt_poisson_generate	function	F draw	
lmt_start_potrace	function	F fill	
lmt_step_potrace	function	F flush	
lmt_stop_potrace	function	F fprintf	
lmt_surface_do	function	F integer	
lmt_svg_include	function	F number	
mf_blob_add	function	F numeric	
mf_blob_dimensions	function	F pair	
mf_blob_index	function	F pairpoints	
mf_blob_new	function	F path	
mf_blob_raw_content	function	F pathpoints	
mf_blob_raw_dimensions	function	F points	
mf_blob_raw_reset	function	F print	
mf_blob_raw_toutf	function	F quadruple	
mf_blob_raw_wipe	function	F quadruplepoints	
mf_blob_size	function	F quoted	

F size		F path	
F string		F pen	
F transform		F property	
F triplet		F string	
F tripletpoints		F symbol	
F vprint		F token	
processingmode	function	T tokenscanners	
quadruple	function	F transform	
quadruplepoints	function	T typescanners	
quoted	function	F whatever	
report	function	set	table
scan	table	size	function
F boolean		skip	table
F cmykcolor		F token	
F color		solve	function
F expression		string	function
F integer		systemmode	function
F next		transform	function
F number		triplet	function
F numeric		tripletpoints	function
F pair		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	realtimelogging	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 alternates		F showtree	
F autofences		F snap	
F classes		F spacing	
F collapse		F suspicious	
F dictionaries		F tags	
F export		F unscript	
F families		F unstack	
F fencing		F variants	
F fixscripts		process	function
F kernpairs		processnested	function
F makeup		processors	table
F normalize		T dictionaries	
F numbers		F mlisttohtml	
F relocate		T suspicious	
F render		T unscript	
F resize		T unstack	
		processouter	function

node (basic tex)

checkdiscretionaries	function	F getbottom
checkdiscretionary	function	F getbox
copy	function	F getcachestate
copylist	function	F getchar
count	function	F getchardict
currentattributes	function	F getcharspec
dimensions	function	F getchoice
direct	table	F getclass
F addmargins		F getdata
F addxoffset		F getdegree
F addxymargins		F getdelimiter
F addyoffset		F getdenominator
F appendaftertail		F getdepth
F checkdiscretionaries		F getdirection
F checkdiscretionary		F getdisc
F collapsing		F getdiscpart
F copy		F getexpansion
F copylist		F getfam
F copyonly		F getfield
F count		F getfont
F currentattributes		F getgeometry
F dimensions		F getglue
F effectiveglue		F getglyphdata
F endofmath		F getglyphdimensions
F exchange		F getheight
F fields		F getid
F findattribute		F getindex
F findattributerange		F getinputfields
F findnode		F getkern
F firstglyph		F getkerndimension
F flattendiscretionaries		F getlanguage
F flattenleaders		F getleader
F flushlist		F getleftdelimiter
F flushnode		F getlist
F free		F getlistdimensions
F freeze		F getnext
F getanchors		F getnodes
F getattribute		F getnormalizedline
F getattributelist		F getnucleus
F getattributes		F getnumerator
F getboth		F getoffsets

F getoptions	F insertafter
F getorientation	F insertbefore
F getparstate	F isboth
F getpenalty	F ischar
F getpost	F isdirect
F getpre	F isglyph
F getprev	F isnext
F getprime	F isnextchar
F getpropertystable	F isnextglyph
F getproperty	F isnode
F getreplace	F isprev
F getrightdelimiter	F isprevchar
F getruledimensions	F isprevglyph
F getscale	F isspeciallist
F getscales	F isvalid
F getscrip	F iszeroglue
F getshift	F kerning
F getspeciallist	F lastnode
F getstate	F length
F getsub	F ligaturing
F getsubpre	F makeextensible
F getsubtype	F migrate
F getsup	F mlisttohtml
F getsuppre	F naturalhsize
F gettop	F naturalwidth
F gettotal	F new
F getusedattributes	F newmathglyph
F getwhd	F newtextglyph
F getwidth	F patchattributes
F getwordrange	F prependbeforehead
F getxscale	F protectglyph
F getxyscales	F protectglyphs
F getyscale	F protectglyphsnone
F gluetostring	F protrusionskipable
F hasattribute	F rangedimensions
F hasdimensions	F remove
F hasfield	F removefromlist
F hasgeometry	F repack
F hasglyph	F reverse
F hasglyphoption	F serialized
F hpack	F setanchors
F hyphenating	F setattribute
F id	F setattributelist
F ignoremathskip	F setattributes

F setboth	F setrightdelimiter
F setbottom	F setruledimensions
F setbox	F setscales
F setchar	F setscript
F setchardict	F setshift
F setchoice	F setspeciallist
F setclass	F setsplit
F setdata	F setstate
F setdegree	F setsub
F setdelimiter	F setsubpre
F setdenominator	F setsubtype
F setdepth	F setsup
F setdirection	F setsuppre
F setdisc	F settop
F setdiscpart	F settotal
F setexpansion	F setwhd
F setfam	F setwidth
F setfield	F show
F setfont	F slide
F setgeometry	F softenhyphens
F setglue	F startofpar
F setglyphdata	F subtypes
F setheight	F tail
F setindex	F todirect
F setinputfields	F tonode
F setkern	F tostring
F setlanguage	F tovaliddirect
F setleader	F traverse
F setleftdelimiter	F traversechar
F setlink	F traversecontent
F setlist	F traverseglyph
F setnext	F traverseid
F setnucleus	F traverseleader
F setnumerator	F traverselist
F setoffsets	F type
F setoptions	F types
F setorientation	F unprotectglyph
F setpenalty	F unprotectglyphs
F setpost	F unsetattribute
F setpre	F unsetattributes
F setprev	F usedlist
F setprime	F usesfont
F setproperty	F verticalbreak
F setreplace	F vpack

F write	
F xscaled	
F yscaled	
effectiveglue	function
endofmath	function
family_font	function
fields	function
findattribute	function
firstglyph	function
flattendiscretionaries	function
flushlist	function
flushnode	function
free	function
getattribute	function
getcachestate	function
getfield	function
getglue	function
getpropertystable	function
getproperty	function
gluetostring	function
hasattribute	function
hasfield	function
hasglyph	function
hpack	function
hyphenating	function
id	function
insertafter	function
insertbefore	function
instock	function
inuse	function
isnode	function
iszeroglue	function
kerning	function
lastnode	function

length	function
ligaturing	function
makeextensible	function
mlisttohtml	function
new	function
protectglyph	function
protectglyphs	function
protrusionskipable	function
rangedimensions	function
remove	function
serialized	function
setattribute	function
setfield	function
setglue	function
setproperty	function
show	function
slide	function
subtypes	function
tail	function
todirect	function
tonode	function
tostring	function
traverse	function
traverseid	function
type	function
types	function
unprotectglyph	function
unprotectglyphs	function
unsetattribute	function
usedlist	function
usesfont	function
vpack	function
write	function

nodes (context)

accentcodes	data table	dircodes	data table
adaptive	table	directioncodes	data table
F handlehorizontal		directionvalues	data table
F handlevertical		dirvalues	data table
F set		disccodes	data table
aligned	function	discretionarycodes	data table
append	function	fencecodes	data table
apply	function	fields	function
applyvisuals	function	fieldtypes	table
astable	function	fillcodes	data table
attributecodes	data table	fillvalues	data table
basepoints	function	firstcharacter	function
boundarycodes	data table	firstcharinbox	function
boxes	table	firstdirinbox	function
F count		flush	function
F dimensions		flushlist	function
F direct		flushnode	function
F dispose		fullhpack	function
F found		getattr	function
F prune		getattribute	function
F reset		getboth	function
F restore		getbox	function
F save		getchar	function
F savenode		getfield	function
builders	table	getfont	function
F buildpage_filter		getid	function
F vbox_filter		getleader	function
F vpack_filter		getlist	function
choicecodes	data table	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	

F characters		F setmove	
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		isdirect	function
F flatten		isnode	function
F flattenline		isnut	function
F mathmatrixornaments		kerncodes	data table
F mathmatrixrules		leftmarginwidth	function
F migrate		linefillers	table
F protectglyphs		F filler	
F recolor		F handler	
F show		F set	
F showhyphenation		lines	table
F showpreamble		T boxed	
F stripping		F addlinenumbers	
F textbackgrounds		F register	
F unprotectglyphs		F setup	
F visualizehyphenation		D data	
F wipe		F finalize	
hasattribute	function	F number	
hasfield	function	link	function
hpack	function	linked	function
idsandsubtypes	function	list	function
idstosting	function	listcodes	data table
injections	table	listtoutf	function
F copy		literalvalues	data table
F getligaindex		locate	function
F getthreshold		markcodes	data table
F handler		markers	table
F installgetspaceboth		F get	
F installnewkern		F set	
F isspace		mathcodes	data table
F keepcounts		mathvalues	data table
F reset		maxboxwidth	function
F resetcounts		migrations	table
F setcursive		F setinserts	
F setkern		F setmarks	
F setligaindex		new	function
F setmark		noadcodes	data table

nodecodes**nopts****nuts**

F addmargins
 F addxoffset
 F addxymargins
 F addyoffset
 F append
 F appendaftertail
 F apply
 F applyvisuals
 F checkdiscretionaries
 F checkslide
 F collapsing
 T colors
 F set
 T components
 F copynocomponents
 F copyonlyglyphs
 F count
 F flush
 F get
 F set
 F concat
 F copy
 F copy_properties
 F copyleft
 F copynode
 F copyonly
 F copyvisual
 F count
 F countall
 F currentattributes
 F delete
 F dimensions
 F dirdimensions
 F effectiveglue
 F endofmath
 F exchange
 F findattribute
 F findnode
 F firstcharacter
 F firstcharinbox
 F firstglyph

data table**function****table**

F flattendiscretionaries
 F flattenleaders
 F flush
 F flushlist
 F flushnode
 F free
 F freeze
 F fullhpack
 F getanchors
 F getattr
 F getattribute
 F getattributelist
 F getattributes
 F getattrlist
 F getattrs
 F getboth
 F getbottom
 F getbox
 F getboxglue
 F getchar
 F getchardict
 F getcharspec
 F getchoice
 F getclass
 F getcomponents
 F getdata
 F getdegree
 F getdelimiter
 F getdenominator
 F getdepth
 F getdirection
 F getdisc
 F getdiscpart
 F getdiscretionary
 F getexpansion
 F getfam
 F getfield
 F getfont
 F getgeometry
 F getglue
 F getglyphdata
 F getglyphdimensions
 F getheight
 F getid

F getindex	F getusedattributes
F getinputfields	F getvalue
F getkern	F getwhd
F getkerndimension	F getwidth
F getlang	F getwordrange
F getlanguage	F getxscale
F getleader	F getxyscales
F getleftdelimiter	F getyscale
F getlist	F gluetostring
F getlistdimensions	F hasattribute
F getmiddle	F hasdimensions
F getmiddledelimiter	F hasfield
F getnext	F hasgeometry
F getnormalizedline	F hasglyph
F getnucleus	F hasglyphoption
F getnumerator	F hpack
F getoffsets	F hyphenating
F getoptions	F ignoremathskip
F getorientation	F insertafter
F getparstate	F insertbefore
F getpenalty	F insertlistafter
F getpost	F is_display_math
F getpre	F isboth
F getprev	F ischar
F getprime	F isdirect
F getprop	F isdone
F getreplace	F isglyph
F getrightdelimiter	F isnext
F getruledata	F isnextchar
F getruledimensions	F isnextglyph
F getscale	F isnode
F getscales	F isnut
F getscrip	F isprev
F getshift	F isprevchar
F getspeciallist	F isprevglyph
F getstate	F iszeroglue
F getsub	F kerning
F getsubpre	F lastnode
F getsubtype	F length
F getsup	F ligaturing
F getsuppre	F link
F getsurround	F linked
F gettop	F locate
F gettotal	F migrate

F migratebox	F originliteral
F mlisttohlist	F outlinerule
F naturalhsize	F pageliteral
F naturalwidth	F penalty
F nestedtracedslide	F radical
F new	F rawliteral
F newmathglyph	F register
F openup	F restore
F patchattributes	F righthangskip
T pool	F rightmarginkern
F accent	F rightskip
F baselineskip	F rule
F boundary	F save
F boxrule	F savepos
F choice	F setmatrix
F cleanup	F setstate
F delim	F shrink
F delimiter	F startrotation
F direction	F stock
F directliteral	F stretch
F disc	F strutrue
F emptyrule	F subbox
F fence	F submlist
F fontkern	F temp
F fraction	F usage
F glue	F userdefined
F gluespec	T usersids
F glyph	F usernode
F hlist	F userrule
F imagerule	F virtualrule
F indentskip	F vlist
F italicckern	F wordboundary
F kern	F prepend
F latelua	F prependbeforehead
F leader	F processranges
F lefthangskip	F processwords
F leftmarginkern	F protectglyph
F leftskip	F protectglyphs
F lineskip	F protectglyphsnone
F literal	F protrusionskipppable
F mathchar	F rangedimensions
F mathtextchar	F rawprop
F negatedglue	F reference
F noad	F rehpack

F remove	F setgeometry
F removefromlist	F setglue
F repack	F setglyphdata
F repackhlist	F setheight
F replace	F setinputfields
F reverse	F setkern
T rules	F setlang
T ruleactions	F setlanguage
F box	F setleader
F draw	F setleftdelimiter
F fill	F setlink
F mp	F setlist
F stroke	F setmiddledelimiter
F userrule	F setnext
F serialized	F setnucleus
F setanchors	F setnumerator
F setattr	F setoffsets
F setattribute	F setoptions
F setattributelist	F setorientation
F setattributes	F setparproperty
F setattrlist	F setpenalty
F setattrs	F setpost
F setboth	F setpre
F setbottom	F setprev
F setbox	F setprime
F setboxglue	F setprop
F setchar	F setreplace
F setchardict	F setrightdelimiter
F setchoice	F setruledata
F setclass	F setruledimensions
F setcomponents	F setscale
F setdata	F setscales
F setdegree	F setscript
F setdelimiter	F setshift
F setdenominator	F setspeciallist
F setdepth	F setsplit
F setdirection	F setstate
F setdisc	F setsub
F setdiscpart	F setsubpre
F setdiscretionary	F setsubtype
F setexpansion	F setup
F setfam	F setsuppre
F setfield	F setsurround
F setfont	F settop

F setvalue	F next	
F setvisual	F node	
F setvisuals	F penalty	
F setwhd	F rule	
F setwidth	F unset	
F show	F vlist	
F slide	F whatsit	
F softenhyphens	T treversers	
F somepenalty	F char	
F somespace	F content	
F splitbox	F glyph	
F startofpar	F leader	
F striprange	F list	
F tail	F node	
F takeattr	T typesetters	
F takebox	F tohbox	
F takelist	F tohpack	
F theprop	F tonodes	
F tonode	F tovbox	
F tonodes	F tovpack	
F tonut	F unprotectglyph	
F tosequence	F unprotectglyphs	
F toString	F unsetattribute	
F tracedslide	F unsetattributes	
F traverse	F untracedslide	
F traversechar	F usedlist	
F traversecontent	F usesfont	
F traverseglyph	F verticalbreak	
F traverseid	F vianodes	
F traverseleader	F vianuts	
F traverselist	F vpack	
T traversers	F write	
F alignrecord	F xscaled	
F boundary	F yscaled	
F char	packlist	function
F content	parcodes	data table
F dir	penaltycodes	data table
F disc	plugindata	table
F glue	F finalizer	
F glyph	F initializer	
F hlist	S name	
F leader	T namespace	
F list	N attribute	
F mark	D data	

F enable		F handler	
F handler		T stack	
F register		reheap	function
D registered		remove	function
D values		repackhlist	function
F processor		replace	function
points	function	report	function
pool	table	rightmarginwidth	function
F baselineskip		rulecodes	data table
F cleanup		rules	table
F directliteral		F handler	
F glyph		F process	
F hlist		F set	
F latelua		F userrule	
F leader		serialize	function
F lineskip		serializebox	function
F literal		serialized	function
F originliteral		setattr	function
F register		setattribute	function
F restore		setboth	function
F save		setbox	function
F savepos		setboxtonaturalwd	function
F setmatrix		setchar	function
F stock		setfield	function
F usage		setfont	function
F usernode		setleader	function
F vlist		setlink	function
prepend	function	setlist	function
print	function	setnext	function
processors	table	setprev	function
F alignment_filter		setproperty	function
F append_line_filter		shifts	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

specialskipcodes	table	totree	function
splitbox	function	toutf	function
startofpar	function	tracers	table
stripdiscretionaries	function	T colors	
stripping	table	F reset	
T glyphs		F set	
F set		F setlist	
subtypes	data table	F directions	
tail	function	F fontchar	
takeattr	function	T frequencies	
takebox	function	F register	
tasks	table	T pool	
F actions		T nodes	
F appendaction		F rule	
F disableaction		T nuts	
F disablegroup		F rule	
F enableaction		F resetproperties	
F enablegroup		F rule	
F freeze		F setlist	
F freezegroup		F setproperties	
F new		F start	
F prependaction		T steppers	
F removeaction		F check	
F replaceaction		F codes	
F restart		F features	
F setaction		F font	
F showactions		F glyphs	
F table		F message	
tobasepoints	function	F messages	
tocentimeters	function	F nofsteps	
toxiceros	function	F register	
todidots	function	F reset	
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	

F tohbox		N italic	
F tohpack		N kern	
F tonodes		N line	
F toinbox		N marginkern	
F toinbox		N mark	
F vpack		N math	
unsetattribute	function	N mathglue	
usedlist	function	N mathkern	
vianodes	function	N origin	
vianuts	function	N par	
visualizebox	function	N penalty	
visualizers	table	N simple	
F attribute		N simplehbox	
T attributes		N simplevbox	
F box		N simplevtop	
F enable		N space	
F getusedfont		N strut	
F handler		N user	
F markfonts		N vbox	
T modes		N vtop	
N boundary		N whatsit	
N depth		F register	
N dir		F setfont	
N discretionary		F setlayer	
N expansion		F setruledglyph	
N fontkern		F setvisual	
N glue		vpack	function
N glyph		whatsitcodes	data table
N hbox		write	function
N insert			

number (context)

	function		
basepoints	function	tobasepoints	function
bytetodecimal	function	tobitstring	function
compactfloat	function	tocentimeters	function
decimaltobyte	function	toxiceros	function
dimenfactors	data table	tocontext	function
formatted	function	todidots	function
formattedfloat	function	todimen	function
idiv	function	toediths	function
maxdimen	number	toevenhex	function
nopts	function	toinches	function
nubasepoints	function	tomillimeters	function
nupoints	function	tonumberf	function
percent	function	tonumberg	function
points	function	topics	function
pts	function	topoints	function
signed	function	toscaled	function
sparseexponent	function	toscaledpoints	function
splitdimen	function	totoves	function
tol6dot16	function	valid	function

objects (context)

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

optional (context)

curl table

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)

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

F registerunit

D tables

pngdecode (extra tex)

applyfilter function

expand function

interlace function

splitmask function

tocmyk function

tomask function

posit (extra lua)

NaN	function	F bor
NaR	function	F bxor
__add	function	F ceil
__band	function	F conj
__bor	function	F copy
__bxor	function	F cos
__div	function	F exp
__eq	function	F exp2
__index	table	F floor
F NaN		F fromposit
F NaR		F integer
F __add		F log
F __band		F log10
F __bor		F log1p
F __bxor		F log2
F __div		F logb
F __eq		F max
T __index		F min
F NaN		F modf
F NaR		F new
F __add		F pow
F __band		F rotate
F __bor		F round
F __bxor		F rounded
F __div		F shift
F __eq		F sin
F __le		F sqrt
F __lt		F tan
F __mul		F tonumber
S __name		F toposit
F __pow		F tostring
F __shl		F __le
F __shr		F __lt
F __sub		F __mul
F __tostring		S __name
F __unm		F __pow
F abs		F __shl
F acos		F __shr
F asin		F __sub
F atan		F __tostring
F band		F __unm

F abs	__shl	function
F acos	__shr	function
F asin	__sub	function
F atan	__tostring	function
F band	__unm	function
F bor	abs	function
F bxor	acos	function
F ceil	asin	function
F conj	atan	function
F copy	band	function
F cos	bor	function
F exp	bxor	function
F exp2	ceil	function
F floor	conj	function
F fromposit	copy	function
F integer	cos	function
F log	exp	function
F log10	exp2	function
F log1p	floor	function
F log2	fromposit	function
F logb	integer	function
F max	log	function
F min	log10	function
F modf	log1p	function
F new	log2	function
F pow	logb	function
F rotate	max	function
F round	min	function
F rounded	modf	function
F shift	new	function
F sin	pow	function
F sqrt	rotate	function
F tan	round	function
F tonumber	rounded	function
F toposit	shift	function
F tostring	sin	function
__le	sqrt	function
__lt	tan	function
__mul	tonumber	function
__name	toposit	function
__pow	tostring	function

potrace (context)

concat	function	new	function
contourplot	function	retrace	function
count	function	setbitmap	function
flush	function	stripped	function
free	function	totable	function
fromfile	function	trace	function
getbitmap	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		oneorange	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	mapping	data table
cleanup	function	pop	function
disable	function	process	function
enable	function	push	function
fromregime	function	toregime	function
list	function	translate	function

resolvers (context)

allprefixes	function	findfiles	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 collectstructure	
expandedpathlistfromvariable	function	F currentcomponent	
expandpath	function	F currentenvironment	
expandpathfromvariable	function	F currentproduct	
expansion	function	F currentproject	
extendtexmfvariable	function	F currentstructure	
filtered_from_content	function	F justacomponent	
find_file	function	F namelist	
find_files	function	D processors	
findbinfile	function	F productcomponent	
findctxfile	function	F usefile	
finders	data table	joinpath	function
findfile	function	knownvariables	function

libraries	table	registermethod	function
F optionalloaded		registerzipfile	function
F validoptional		relations	data table
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	T cleaners	
macros	table	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

uselibrary	function	variable	function
usertypes	data table	variableofformat	function
usezipfile	function	variableofformatorsuffix	function
validatedpath	function	wildcardpattern	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

comparers table

F basic

constants table

S defaultdigits

S defaultlanguage

S defaultmethod

N digitmaximum

N digitoffset

N ignoredoffset

N replacementoffset

T validmethods

B ch

B mc

B mm

B pc

B pm

B uc

B zc

B zm

definitions data table

firstofsplit function

packch function

packuc function

replacementlist function

setlanguage function

sort function

splitters table

F utf

strip function

tracers data table

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	nospaces	function
autosingle	function	nspace	table
booleanstring	function	optionalquoted	function
byte	function	pack	function
bytepairs	function	packrowscolumns	function
bytes	function	packsize	function
bytetable	function	quote	function
char	function	quoted	function
characterpairs	function	rep	function
characters	function	replacenewlines	function
checkedsplit	function	reverse	function
collapsespaces	function	split	function
containsws	function	splitlines	function
count	function	splitup	function
dawson	function	strip	function
dump	function	sub	function
erf	function	texnewlines	function
erfc	function	tformat	function
erfcx	function	toHEX	function
erfi	function	toboollean	function
escapedpattern	function	tobytes	function
escapedquotes	function	tocontext	function
explode	function	todec	function
f6	function	todimen	function
find	function	tohex	function
format	function	tonodes	function
formatter	function	topattern	function
formatters	function	totable	function
fullstrip	function	tounicode16	function
gmatch	function	toutf	function
gsub	function	toutf32	function
hextocharacters	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

utfcharacter	table
utflength	function
utfpadd	function
utfpadding	function
utfvalue	function
utfvalues	function

utfvalue	table
valid	function
voigt	function
voigt_hwhm	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
D collected	
D tobesaved	
lists	table
F addto	
F analyze	
B autoreorder	
D cached	
D collected	
F discard	
F enhance	
T enhancers	
F external	
F filter	
F formulainumber	
F getresult	
F groupindex	
F hasnumberdata	
F haspagedata	
F hastitledata	
F integrate	
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 use	
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 tobesaved	
F toranges	

references	table
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
F getcurrentprefixspec
F getinnermethod
F getinternalcachedlistreference
F getinternallistreference
F getinternalreference
F getoutermethod
D handlers
F identify
F import
F inject
F injectcurrentset
S innermethod
F integrate
D internals
F load
F loadpresets
F mark
S outermethod
F pagefromhash
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 setinternalreference
F setlinkmethod

- F setnextinternal
- F setnextorder
- F setreferencerealpage
- F setstructure
- 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 untext

D usedinternals

D usedviews

F valid

registers

table

- 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 integrate
- F prepare
- F process
- F setmethod
- F sort
- F store
- D tobesaved
- F tweak
- F unique
- F use
- 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 title
- D tobesaved
- F typesetnumber
- F userdata
- B verbose

sets table

- F define
- F get
- F getall
- D setlist

specials table

- D collected
- F retrieve
- F store
- D tobesaved

synonyms table

- F analyzed
- D collected
- F compare
- F define
- F enhance
- F filter
- F finalize
- F flush
- F isshown
- F isused
- F meaning
- F pages
- F prepare
- F process
- F register
- F registershown
- F registerused

- F reset
- F resetall
- F resetlist
- F resetshown
- F resetused
- F sort
- F synonym
- D tobesaved

tags table

- T backend
- T checks
 - F marginanchor
 - F margintext
 - F math
 - F mrow
 - F mtable
- T destinationhash
- T extras
 - F adddestination
 - F addimplicit
 - F addinternal
 - F addreference
 - F combination
 - F delimitedsymbol
 - F description
 - F descriptionsymbol
 - F document
 - F float
 - F formulacontent
 - F image
 - F item
 - F itemgroup
 - F link
 - F listitem
 - F mi
 - F msub
 - F msup
 - F paragraph
 - F publication
 - F reference
 - F registerlocation
 - F registerpages
 - F registerseparator
 - F section

F sorting	U splitter
F subsentencesymbol	D properties
F synonym	F registerextradata
F tablecell	F registermetadata
F tabulate	F restart
F tabulatecell	F setaspect
T finalizers	F setattributehash
F descriptions	F setcombination
T fixes	F setconstruct
F linenumber	F setfigure
T listdata	F setfloat
T referencehash	F setformulacontent
F setattribute	F sethighlight
T usedimages	F setitem
T image	F setitemgroup
T usedstyles	F setlist
T construct	F setnotation
T highlight	F setnotationsymbol
F current	F setparagraph
F elementtag	F setproperty
F enabled	F setpublication
F exportbox	F setregister
F finishexport	F setsorting
F getextradata	F setsynonym
F getid	F settablecell
F getmetadata	F settabulatecell
F gettablecell	F settagdelimitedsymbol
F gettabulatecell	F settagsubsentencesymbol
F handler	F setupexport
F initializeexport	F setuserproperties
D labels	D specifications
F last	F start
F lastinchain	F stop
F localexport	F strip
F locatedtag	D taglist
T patterns	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)

amcode	table	fitnesscodes	data table
attribute	table	flagcodes	data table
automigrationcodes	data table	fontidentifier	function
badness	function	fontname	function
boundaries	table	forcehmode	function
D names		forceinputstatefile	function
D numbers		forceinputstateline	function
F system		fprint	function
box	table	frozenparcodes	data table
boxresources	table	get	function
F getbox		getalignmentcontextvalues	function
F getdimensions		getamcode	function
F save		getappendlinecontextvalues	function
F use		getattribute	function
breakcodes	data table	getautomigrationvalues	function
buildcodes	data table	getbox	function
catcode	table	getboxdir	function
chardef	function	getboxresourcebox	function
classoptioncodes	data table	getboxresourcedimensions	function
codes	table	getbreakcontextvalues	function
conditionals	data table	getbuildcontextvalues	function
constants	data table	getcardinalvalue	function
count	table	getcatcode	function
cprint	function	getcharacter>tagvalues	function
ctdcatcodes	number	getcount	function
ctxcatcodes	number	getdelcode	function
definefont	function	getdelcodes	function
delcode	table	getdimen	function
dimen	table	getdimensionvalue	function
dimensiondef	function	getdirectionvalues	function
directioncodes	data table	getdiscoptionvalues	function
directives	data table	getdiscstatevalues	function
discoptioncodes	data table	geterrorvalues	function
dontcomplain	function	getfillvalues	function
enableprimitives	function	getfitnessvalues	function
error	function	getflagvalues	function
expandasvalue	function	getfloat	function
experiments	data table	getfontoffamily	function
extraprimitives	function	getfrozenparvalues	function
fatalerror	function	getglue	function
fillcodes	data table	getglueoptionvalues	function

getglyphdata	function	getmathvariantvalues	function
getglyphoptionvalues	function	getmode	function
getglyphscales	function	getmodevalues	function
getglyphscript	function	getmuglue	function
getglyphstate	function	getmuskip	function
getgroupvalues	function	getnest	function
gethccode	function	getnestlevel	function
gethelptext	function	getnoadoptionvalues	function
gethmcode	function	getnormalizelinevalues	function
gethyphenationvalues	function	getnormalizeparvalues	function
getinputstatefile	function	getoutputactive	function
getinputstateline	function	getpacktypevalues	function
getinputstatemode	function	getpagecontextvalues	function
getinsertcontent	function	getpagestate	function
getinsertdepth	function	getparbeginvalues	function
getinsertdistance	function	getparcontextvalues	function
getinsertheight	function	getpardir	function
getinsertlimit	function	getparmodevalues	function
getinsertmultiplier	function	getparpassclassvalues	function
getinsertwidth	function	getparstate	function
getintegervalue	function	getpenaltyoptionvalues	function
getinteraction	function	getpositvalue	function
getiovalues	function	getprimitiveorigins	function
getkerneloptionvalues	function	getregisterindex	function
getlargestusedmark	function	getrunstatevalues	function
getlccode	function	getsfcode	function
getlinedir	function	getshapingpenaltiesvalues	function
getlist	function	getskip	function
getlistanchorvalues	function	getspecialmathclassvalues	function
getlistgeometryvalues	function	gettextcontrolvalues	function
getlistsignvalues	function	gettextdir	function
getlocalbox	function	gettoks	function
getlocallevel	function	getuccode	function
getmark	function	glue	table
getmath	function	glueoptioncodes	data table
getmathclassoptionvalues	function	glyphoptioncodes	data table
getmathcode	function	groupcodes	data table
getmathcodes	function	hashtokens	function
getmathcontrolvalues	function	hccode	table
getmathdir	function	hmcode	table
getmathoptionvalues	function	hyphenationcodes	data table
getmathparametervalue	function	ifs	data table
getmathstylenamevalues	function	inimatcodes	number
getmathstylevalues	function	integerdef	function

isattribute	function	N maxboxregisterindex
isbox	function	N maxbytecodeindex
iscount	function	N maxcalculatedbadness
isdefined	function	N maxcardinal
isdimen	function	N maxcategorycode
isfloat	function	N maxcharactercode
isglue	function	N maxdatavalue
ismuglue	function	N maxdimen
ismuskip	function	N maxdimenregisterindex
isprintable	function	N maxfloatregisterindex
isskip	function	N maxfontadjustshrinkfactor
istoks	function	N maxfontadjuststep
lastnodetype	function	N maxfontadjuststretchfactor
lccode	table	N maxfunctionreference
linebreak	function	N maxglueregisterindex
listanchorcodes	data table	N maxhalfvalue
lists	table	N maxhalfword
listsigncodes	data table	N maxinteger
luacatcodes	number	N maxintregisterindex
magicconstants	table	N maxlimitedscale
N assumedmathcontrol		N maxmarkindex
N awfulbad		N maxmathclasscode
N decentcriterion		N maxmathfamilyindex
N defaultcatcodetable		N maxmathscalingfactor
N defaultdeadcycles		N maxmuglueregisterindex
N defaulteqnogapstep		N maxnewlinecharacter
N defaultthangafter		N maxnofbytecodes
N defaultoutputbox		N maxnofcatcodetables
N defaultpredisplaygap		N maxnoffonts
N defaultrule		N maxnoflanguages
N defaultspacefactor		N maxnofmarks
N defaulttolerance		N maxnofmathfamilies
N deplorable		N maxquarterword
N ejectpenalty		N maxsizeofword
N ignoredepth		N maxspacefactor
N infinitebad		N maxtoksregisterindex
N infinitepenalty		N mincardinal
N infinity		N mindatavalue
N largewidthexcess		N mindimen
N loosecriterion		N minhalfword
N mathbeginclass		N mininfinity
N mathdefaultpenalty		N mininteger
N mathendclass		N minquarterword
N maxattributeregisterindex		N minspacefactor

N nocatcodetable		poplocal	function
N null		popsavelevel	function
N nullflag		posit	table
N nullfont		positdef	function
N onebp		preparelinebreak	function
N presetrulethickness		primitives	function
N runningrule		print	function
N smallstretchability		prtcatcodes	number
N texeqtbsize		pushlocal	function
N texhashprime		pushsavelevel	function
N texhashsize		quitlocal	function
N two		quittoks	function
N undefinedmathparameter		resetparagraph	function
N unity		rlncatcodes	number
N unusedattributevalue		romannumeral	function
N unusedmathfamily		round	function
N unusedmathstyle		runlocal	function
N unusedscriptvalue		runstring	function
N unusedstatevalue		runtoks	function
N zeroglue		saveboxresource	function
mathchardef	function	scale	function
mathcode	table	scantoks	function
mathcontrolcodes	data table	set	function
mathoptioncodes	data table	setamcode	function
mathparametercodes	data table	setattribute	function
modelevels	table	setbox	function
N horizontal		setboxdir	function
N math		setcardinalvalue	function
N unset		setcatcode	function
N vertical		setcount	function
modes	data table	setdelcode	function
mprint	function	setdimen	function
muglue	table	setdimensionvalue	function
muskip	table	setfloat	function
nest	table	setglue	function
nilcatcodes	number	setglyphdata	function
noadoptioncodes	data table	setglyphscript	function
normalizelinecodes	data table	setglyphstate	function
normalizeparcodes	data table	sethccode	function
notcatcodes	number	sethmcode	function
number	function	setinputstatefile	function
parcontextcodes	data table	setinputstateline	function
parpassclasscodes	data table	setinputstatemode	function
penaltyoptioncodes	data table	setinsertcontent	function

setinsertdistance	function	skip	table
setinsertlimit	function	snapshotpar	function
setinsertmultiplier	function	sp	function
setintegervalue	function	specialmathclasscodes	data table
setinteraction	function	splitbox	function
setlcode	function	sprint	function
setlinedir	function	stringtocodesbitmap	function
setlist	function	systemmodes	data table
setlocalbox	function	takebox	function
setmath	function	texcatcodes	number
setmathcode	function	textcontrolcodes	data table
setmathdir	function	toks	table
setmuglue	function	tonumber	function
setmuskip	function	toscaled	function
setnest	function	tpacatcodes	number
setpardir	function	tpbcacodes	number
setpositvalue	function	tprint	function
setrunstate	overloaded function	trackers	data table
setsfcode	function	triggerbuildpage	function
setskip	function	txtcatcodes	number
settextrdir	function	type	function
settoks	function	uccode	table
setuccode	function	uprint	function
sfcode	table	useboxresource	function
shiftparshape	function	vrbcacodes	number
shipout	function	write	function
showcontext	function		

texconfig (basic tex)

buffer size	table	language size	table
N size		N size	
N step		N step	
error line size	table	mark size	table
N size		N size	
expand size	table	N step	
N size		nest size	table
file size	table	N size	
N size		N step	
N step		node size	table
first line	string	N size	
font size	table	N step	
N size		param eter size	table
N step		N size	
format name	string	N step	
function size	number	pool size	table
half error line size	table	N size	
N size		N step	
hash size	table	prop erti ess ize	number
N size		save size	table
N step		N size	
init	overloaded function	N step	
input size	table	shell_ escape	string
N size		string size	table
N step		N size	
insert size	table	N step	
N size		token size	table
N step		N size	
kpse_ init	boolean	N step	

texio (basic tex)

closeinput	function
forceendoffile	function
getinputindex	function
getsourcefilename	function
setlogfile	function
terminal	function

write	function
write_nl	function
writeln	function
writeselector	function
writeselectorlf	function
writeselectornl	function

token (basic tex)

create	function	getdimension	function
expand	function	getexpandable	function
expand_macro	function	getexpansion	function
expandmacro	function	getfields	function
future_expand	function	getflags	function
futureexpand	function	getfrozen	function
get_active	function	getfunctionvalues	function
get_cmdchrscs	function	getid	function
get_cmdname	function	getimmutable	function
get_command	function	getindex	function
get_csname	function	getinstance	function
get_cstoken	function	getinteger	function
get_dimension	function	getmacro	function
get_expandable	function	getmeaning	function
get_fields	function	getnoaligned	function
get_flags	function	getparameters	function
get_frozen	function	getpermanent	function
get_id	function	getprimitive	function
get_immutable	function	getprimitives	function
get_index	function	getprotected	function
get_instance	function	getrange	function
get_integer	function	gettok	function
get_macro	function	gettolerant	function
get_meaning	function	gobble	function
get_noaligned	function	gobble_dimen	function
get_parameters	function	gobble_integer	function
get_permanent	function	gobbledimen	function
get_primitive	function	gobbleinteger	function
get_protected	function	grab	function
get_range	function	is_defined	function
get_tok	function	is_next_char	function
get_tolerant	function	is_token	function
getactive	function	isdefined	function
getcmdchrscs	function	isnextchar	function
getcmdname	function	istoken	function
getcommand	function	new	function
getcommandid	function	peek_next	function
getcommandvalues	function	peek_next_char	function
getconstant	function	peek_next_expanded	function
getcscname	function	peeknext	function
getcstoken	function	peeknextchar	function

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

set_macro	function	skip_next_expanded	function
setchar	function	skipnext	function
setdimension	function	skipnextexpanded	function
setinteger	function	type	function
setlua	function	undefine_macro	function
setmacro	function	undefinemacro	function
skip_next	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

flags function

getinteger function

getters table

- F box
- F count
- F ctoken
- F dimen
- F glue
- F macro
- F meaning
- F skip
- F token

gobble function

isdefined function

istoken function

new function

pickup function

popmacro function

presets table

- T 1 argument
- T 1 integer
- T 1 optional
- T 1 string
- T 2 arguments
- T 2 integers
- T 2 optionals
- T 2 strings
- T 3 arguments
- T 3 integers
- T 3 optionals
- T 3 strings
- T 4 arguments
- T 4 integers
- T 4 optionals
- T 4 strings
- T 5 strings
- T 6 strings
- T 7 strings
- T 8 strings

pushmacro function

scanners table

- 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 csname
- F csnameunchecked
- F delimited
- F detokened
- F dimen
- F dimenargument
- F dimension
- F float
- F glue
- F gluespec
- F gluevalues
- F hash
- F hbox
- F integer
- F integerargument
- F ischar
- F key
- F keyword
- F keywordcs
- F letters
- F list
- F luacardinal
- F luainteger
- F luanumber
- F lxmld
- F next
- F nextchar
- F nextexpanded
- F number
- F optional
- F peek
- F peekchar

F peekexpanded	N mathshift
F posit	N open
F real	N other
F scanclose	N parameter
F scanopen	N space
F skip	N subscript
F skipexpanded	N superscript
F string	N whitespace
F table	N close
F token	F inspect
F tokencode	N open
F tokenlist	F report
F tokens	F scanargument
F toks	F scanargumentasis
F value	F scanarray
F vbox	F scanboolean
F verbatim	F scanbox
F vtop	F scanbracketed
F whd	F scanbracketedasis
F word	F scancardinal
setinteger function	F scanclose
setters table	F scancode
F box	F scanconditional
F char	F scancsname
F count	F scancsnameunchecked
F dimen	F scandelimited
F glue	F scandetokened
F lua	F scandimen
F macro	F scandimenargument
F skip	F scandimension
shortcuts table	F scanfloat
T bits	F scanglue
N active	F scangluespec
N alignment	F scangluevalues
N begingroup	F scanhash
N character	F scanhbox
N close	F scaninteger
N comment	F scanintegerargument
N endgroup	F scankeyword
N endoffline	F scankeywordcs
N escape	F scanletters
N ignore	F scanlist
N invalid	T scanners
N letter	F argument

F argumentasis	F peekchar
F array	F peekexpanded
F boolean	F posit
F box	F real
F bracketed	F scanclose
F bracketedasis	F scanopen
F cardinal	F skip
F char	F skipexpanded
F cmdchr	F string
F cmdchrexplained	F table
F code	F token
F conditional	F tokencode
F count	F tokenlist
F csname	F tokens
F csnameunchecked	F toks
F delimited	F value
F detokened	F vbox
F dimen	F verbatim
F dimenargument	F vtop
F dimension	F whd
F float	F word
F glue	F scannumber
F gluespec	F scanopen
F gluevalues	F scanoptional
F hash	F scanstring
F hbox	F scantable
F integer	F scantokenlist
F integerargument	F scantoks
F ischar	F scanvbox
F key	F scanverbatim
F keyword	F scanvtop
F keywordcs	F scanword
F letters	F toboolean
F list	F todimen
F luacardinal	T tokens
F luainteger	T accessors
F luanumber	F active
F lxmlid	F cmd
F next	F cmdchr
F nextchar	F cmdname
F nextexpanded	F command
F number	F csname
F optional	F expandable
F peek	F frozen

F index	F constant
F name	T converters
F protected	S toboolean
F range	S todimen
F astable	S toglue
T cache	S tonumber
U NC	S toString
U NR	F create
U bf	F defined
U buff_finish	F flags
U c_font_compact	F getinteger
U color	T getters
U colordefalc	F box
U colordefflc	F count
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 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 scandetokened
F scandimen
F scandimenargument
F scandimension
F scanfloat
F scanglue
F scangluespec
F scangluevalues
F scanhash
F scanhbox
F scaninteger

F scanintegerargument
F scankeyword
F scankeywordcs
F scanletters
F scanlist
F scannumber
F scanopen
F scanoptional
F scanstring
F scantable
F scantokenlist
F scantoks
F scanvbox
F scanverbatim
F scanvtop
F scanword
F toboolean
F todimen
F tonumber
F tostring
D values
F tonumber
F tostring

values data table

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
breakpoints	table		F installhandler
			F set
			F setcolor
			F tomode
		firstlines	table
			T actions
			F default
			F line
			F word
			F handler
			F set
cases	table	fontkerns	table
			F handler
		initials	table
			T actions
			F default
			F handler
			F set
characteralign	table	injectors	table
			F check
			T list
			F mark
			F reset
			F set
			F show
characters	table	italics	table
			F enablemath
			F enabletext
			F forcevariant
			F handler
			F reset
			F set
checkers	table	kerns	table
			D factors
			F handler
			F keepligature
			D mapping
			F set
cleaners	table	localboxes	table
			F handler
digits	table		
directions	table		

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

tighten table

F handler

wrappers table

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

F unittoxml

randomizer table

F get

F getnumber

F getrepeatable

F getrepeatableseed

F getseed

F newrepeatable

F popseed

F pushseed

F repeatable

F reuseseed

F setseed

F setseedi

randomizers table

F poisson

sequencers table

F appendaction

F appendgroup

F compile

F disableaction

F disablegroup

F enableaction

F enablegroup

D functions

F localize

F new

F nodeprocessor

F prependaction

F prependgroup

F removeaction

F replaceaction

F setkind

F tostring

setters table

F disable

F enable

F initialize

F list

F new

F register

F report

F reset

F show

stacker table

F new

storage table

F allocate

F checked

F mark

F marked

F setinitializer

F sparse

streams table

F close

F getposition

F getsizes

F getstring

F look

F open

F openstring

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

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
acosh function
asin function
asinh function
atan function
atan2 function
atanh function
cbrt function
ceil function
copysign function
cos function
cosh function
deg function
erf function
erfc function
exp function
exp2 function
expm1 function
fabs function
fdim function
floor function
fma function
fmax function
fmin function
fmod function
frexp function
gamma function
hypot function
inf number
isfinite function
isinf function
isnan function

isnormal function
j0 function
j1 function
jn function
ldexp function
lgamma function
log function
log10 function
log1p function
log2 function
logb function
modf function
nan number
nearbyint function
nextafter function
pi number
pow function
rad function
remainder function
remquo function
round function
scalbn function
sin function
sinh function
sqrt function
tan function
tanh function
tgamma function
trunc function
y0 function
y1 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
checkboxom	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 url	
F oneof		F xml	
F print		T xml	
F quit		F all	
F tag		F att	
F text		F attribute	
F undefined		F attributes	
F upper		F cdata	
fillin	function	F chainattribute	
filter	function	F count	
finalizers	table	F default	
F paragraphs		F elements	
T tex		F empty	
F all		F first	
F attribute		F function	
F chainattribute		F index	
F chainpath		F last	
F command		F lowerall	
F concat		F match	
F concatrange		F name	
F context		F position	
F count		F reverse	
F ctxtext		F table	
F default		F tag	
F depth		F tags	
F first		F text	
F function		F texts	
F index		F upperall	
F last		F url	
F lettered		first	function
F lower		found	function
F lowerall		functions	table
F match		F classes	
F name		F hasclass	
F param		getbuffer	function
F parameter		gethandlers	function
F position		gethandlersfunction	function
F reverse		helpers	table
F stripped		F recursetext	
F tag		include	function
F tags		inclusion	function

inclusions	function	popmatch	function
index	function	position	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 \$	

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