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

ConT_EXt LMTX

global (alias: _G)

CONTEXTLMTXMODE	number	directives	table
FFISUPPORTED	boolean	document	table
INITEXMODE	boolean	documentdata	table
LUAMAJORVERSION	number	dofile	function
LUAMINORVERSION	number	drivers	table
LUATEXENGINE	string	environment	table
LUATEXFORMATID	number	error	function
LUATEXFUNCTIONALITY		experiments	table
LUATEXVERSION	number	figures	table
LUAVERSION	number	file	table
MP	function	fio	table
	table	floats	table
arg assert	function	flushfontchar	function
attributes	table	flushsimplerule	function
backends	table	flushspecialrule	function
basexx	table	font	table
bit32	table	fonts	table
blobs	table	functions	table
blockrequire	function	getmetatable	function
boolean	table	getrpos	function
buffers	table	getscriptstatus	function
builders	table	global	table
caches	table	graphics	table
callback	table	grid_to_mp	function
callbacks	table	gzip	table
catcodes	table	images	table
characters	table	inspect	function
checkimage	function	interactions	table
chemistry	table	interfaces	table
collectgarbage	function	io	table
commands	table	ipairs	function
containers	table	job	table
context	function	language	table
converters	table	languages	table
coroutine	table	layouts	table
createmask	function	lfs	table
ctxrunner	table	libraries	table
data	table	lmx	table
debug	table	load	function
dimen	function	loadfile	function
dir	table	loadstring	function
		- 3	

logs	table	regimes	table
lpdf	table	require	function
lpeg	table	required	function
lua	table	resolvers	table
luatex	table	rule_mp	function
lxml	table	ruledspace	function
math	table	sandbox	table
mathematics	table	scanarray	function
md5	table	scanhash	function
metapost	table	scripts	table
mime	table	select	function
moduledata	table	set	table
modules	table	setinspector	function
mp	function	setmetatable	function
mplib	table	sha2	table
next	function	shipbox_ref_h	number
noads	table	shipbox_ref_v	number
node	table	sio	table
nodes	table	socket	table
number	table	sorters	table
objects	table	statistics	table
optional	table	status	table
optionalrequire	function	storage	table
os	table	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
pdfprint	function	texio	table
physics	table	texisdefined	data table
pngdecode	table	texmodes	data table
poporientation	function	texsystemmodes	data table
print	function	thirddata	table
publications	table	toboolean	function
pushorientation	function	todecimal	function
rawequal	function	token	table
rawget	function	tokens	table
rawlen	function	tonumber	function
rawset	function	tostring	function
readarray	function	tracers	table

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

attributes (context)

F inbetween

applyoverloads function	F justone
<pre>colorintents table</pre>	F hsvtogray
N attribute	F hsvtorgb
D data	F hwbtorgb
F enable	F iccprofile
F handler	F isblack
F register	N main
D registered	S model
colors table	D models
N attribute	F mpcolor
F cmyk	F mpnamedcolor
F cmyktogray	F mpoptions
F cmyktorgb	F namedcolorattributes
F colorcomponents	N none
D counts	F popset
B couple	F processcolorcomponents
F currentmodel	F pushset
F currentnamedmodel	F register
D data	D registered
N default	F registerspotcolor
F defineintermediatecolor	F rgb
F definemultitonecolor	F rgbtocmyk
F defineprocesscolor	F rgbtogray
F defineprocesscolordirect	F rgbtohsv
F definesimplegray	N selector
F definespotcolor	F setlist
F definetransparency	F setmodel
F enable	F setpagecolormodel
F filter	D sets
N forced	F spec
F forcedmodel	F spot
F forcesupport	F spotcolorname
F formatcolor	F spotcolorparent
F formatgray	F spotcolorvalue
F getpagecolormodel	B supported
F gray	F toattributes
F graytohsv	F transparencycomponents
F handler	B triggering
T helpers	F usecolors
F complement	D valid

F value

D values		F	enable	
B weightgray		F	forcesupport	
define	function	F	handler	
effects	table	Т	names	
N attribute			N color	
D data			N colorburn	
F enable			N colordodge	
F handler			N darken	
F register			N difference	
D registered			N exclusion	
D values			N hardlight	
handlers	table		N hue	
list	data table		N lighten	
${\tt markasoverload}$	function		N luminosity	
names	data table		N multiply	
negatives	table		N none	
N attribute			N normal	
D data			N overlay	
F enable			N saturation	
F handler			N screen	
F register			N softlight	
D registered		N	none	
F set		F	register	
numbers	data table	D	registered	
ofnode	function	В	supported	
private	function	F	toattribute	
public	function	В	triggering	
restore	function	F	value	
save	function	D	values	
showcurrent	function		etvalue	number
states	table	view	verlayers	table
F disabletrigge	ring	N	attribute	
F enabletrigger	ing	F	cleanup	
F finalize		D	data	
F initialize		F	define	
F process		F	definedlayout	component
F selective		F	enable	
F stacked		F	forcesupport	
F stacker		F	handler	
system	function	В	hasorder	
tooverloads	function	D	listwise	
transparencies	table	F	register	
N attribute		D	registered	
D data		F	resolve_begin	

F resolve_end
F resolve_reset
F resolve_step
D scopes

F setfeatures

F start
F stop
B supported
D values

backends (context)

F exportformdata

closeout function F fieldsurrounding codeinjections table F flushmergelayer F boxresourcedimensions F getbookmarks F registerboxresource F getdefaultfieldvalue F restoreboxresource F getfieldcategory current string F getfieldset defaults table F getformatoption T codeinjections F getidentityvariable F getpagedimensions F getinfo F setpagedimensions F getpreviewfigure T nodeiniections F insertrenderingwindow T registrations F ip2 D tables F jpq getcallbackstate function F maptag included table F mergebookmarks B context F meraecomments B date F mergefields B id F mergereferences B metadata F mergeviewerlayers B pdf F newimage function install F pnq function latelua F prerollreference nodeinjections table F presetsymbol nothing function F presetsymbollist function openout F processrendering table pdf F registerdocumentcloseaction T codeinjections F registerdocumentopenaction F addbookmarks F registeredsymbol F analyzenormalsymbol F registerpagecloseaction F analyzesymbol F registerpageopenaction F attachmentid F registerpattern F bitmap F registersymbol F clonefield F scanimgage F copyimage F setattachmentsupport F definefield F setfieldcalculationset F definefieldset F setfigurealternative F defineviewerlaver F setfigurecolorspace F embedfile F setfiguremask F embedimage F setformat F enabletags F setformsmethod

F setpagetransition

F settaggingsupport
F setupcanvas
F setupidentity
F setxmpfile
F startlayer

F startunicodetoactualtext
F startunicodetoactualtextdirect

F stoplayer

F stopunicodetoactualtext
F stopunicodetoactualtextdirect

F supportedformats
F unicodetoactualtext

F useviewerlayer
F validfield

F validfieldcategory
F validfieldset
F wrapimage

S comment

T nodeinjections

F addtags
F annotation
F attachfile

F changestackedlayer
F cmykcolor

F comment
F destination
F effect

F graycolor
F injectbitmap
F insertmovie

F insertsound
F insertu3d
F knockout
F negative

F overprint
F positive
F reference
F rabcolor

F spotcolor F startlayer

F startstackedlayer

F stoplayer

F stopstackedlayer
F transparency
F typesetfield
T registrations

F cmykindexcolor
F cmykspotcolor

F getspotcolorreference

F grayindexcolor
F grayspotcolor
F rgbindexcolor
F rgbspotcolor
F spotcolorname
F transparency

T tables

D vfspecials

registrations table
tables table
writeout function

basexx (extra lua)

decode16	function
decode64	function
decode85	function
${\tt decodeLZW}$	function
decodeRL	function

encode16 function
encode64 function
encode85 function
encodeLZW function
encodeRL function

bit32 (basic lua)

arshift	function	extract	$ \hbox{function} $
band	function	lrotate	$ \hbox{function} $
bnot	function	lshift	$ \hbox{function} $
bor	function	replace	$ \hbox{function} $
btest	function	rrotate	$ \hbox{function} $
bxor	function	rshift	$ \hbox{function} $

blobs (context)

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

boolean (context)

tocontext function
tonumber function

buffers (context)

append	function
assign	function
collectcontent	function
erase	function
exists	function
get	function
getcontent	function
getlines	function
gettexbuffer	function
loadcontent	function
parallel	table

F define	
F hassomeconte	ent
F next	
F place	
F reset	
F save	
prepend	function
raw	function
run	function
samplefile	function
undent	function

builders (context)

kernel table profiling table F hyphenating F add F add F hyphenation F distance F fixedprofile F kerning F fixedprofile F fixedprofile F ligaturing F get F get F mlist_to_hlist F list Pagehandler T constructors F profilebox F set N attribute F set F profilebox F define Vspacing table F define F coclapseries Table F handler F coclapseries Table T methods T data D map D categories F basic D map D schapenthods D map D schapenthods F oneline F definesnapmethods F definesnapmethods F forcepageflush F set F forcepageflush F forcepageflush F stop F inject F inject	chacksidaflast	function	F 4
F hyphenation F hyphenation F kerning F ligaturing F ligaturing F ligaturing F mist_to_hlist F list paragraphs F define F define F handler F basic F default F handle D namp F define D skip F hist F set F define F rorepageflush F rorepageflush F start F start F stop F strace F injectdisable F registered F registered F poptiane F poptimize F reset F define F start F poptimize F reset F start F reset F stonticategory F stocked F synchronizepage F strocked F start F set F forcatcupchol F start F poptimize F setskip F reset F start F spenotractions F start F spenotractions F start F spenotractions F spenotractions F start F spenotractions F start F spenotractions F spenotractions F start F sta			F tag
F hyphenation F kerning F ligaturing F ligaturing F mist_to_hlist F mist_to_hlist F paragraphs F mist_to_hlist F pagehandler F constructors F profilebox F set F define F disable F checkstrutdepth F handler F collapsevbox T methods F basic F default F hpack F oneline D names B fixed D names B fixed D numbers F set F start F start F stop F trace F keeptogether F registertogether F set F define F pushatsame F pushatsame F pettocategories F set F foreset F picet F pagebox F set F forieser F pageoverflow F setskip F registered F set F forieser F starb F solutions F set F stoputions F specoverflow F specoverflow F set F stoputions F set F foriese F starb F set F set F solutions F specoverflow F specoverflow F set F starb F starb F set F starb F set F starb F starb F set F starb F starb F starb F set F starb F starb F set F starb F star		table	
F kerning F ligaturing F ligaturing F mist_to_hlist paragraphs table F pagehandler T constructors N attribute F define F define F desable F enable F enable F collapsevbox T methods F basic F default F handler F oneline F noneline F noneline F set F set F set F forcespageflush F set F set F forcespageflush F start F set F forcestrutdepth F start F set F forcestrutdepth F forcespageflush F start F set F forcestrutdepth F start F start F set F forcestrutdepth F start F stop F inject F sinject F sinject F spagehandler F solutions F set F poptimize F setskip F reset F set F snapbox F set F snapbox F set F snapbox F set F snapbox F set F spocategories F stocategories F tocategories F tocategories F tocategories F tocategories F tocategory			
F ligaturing F milst_to_hlist Paragraphs table F pagehandler T constructors N attribute F define F define F disable F enable F enable F handler F handler F collapsevbox T methods F basic F default F hack F oneline F neline F set F set F defineshopether F set F forcespageflush F start F start F start F stop F stop F stop F stop F stop F spechandler F solutions F pagehandler F pagehandler F pagehandler F collapsevbox T data D map D skip D snapmethods F definesnapmethod B fixed D numbers F forcepageflush F stop F inject F start F getnofpreviouslines F stop F inject F stop F inject F superiouslines F stop F spechandler F solutions F pagehandler F solutions F pageoverflow F pagebandler F solutions F spitters F popatsame F pushatsame F optimize F setmap F reset F setskip F reset F snapbox F set F snapbox F set F stocategories F stocategory			
F mist to hist paragraphs table T constructors N attribute F define F define F disable F enable F handler F handler F basic F default F hack F oneline D names D names D names D names F set F forcepageflush F start F start F start F start F stop T expansion F trace F keeptogether F solutions F define F define F pageoverflow T splitters F optimize F reset F set F setmap F reset F setmap F reset F start F setmap F reset F setmap F reset F stoncategories F stoncategories F setskip F reset F stoncategories F stoncategories F stoncategories F stoncategories F setmap F reset F soncategories F soncategories F stoncategories F stoncategories F stoncategory	-		·
paragraphs table T constructors N attribute F define F define F define F checkstrutdepth F handler F basic F default F hack F oneline D names D names D names D names F set F forcepageflush F start F start F start F start F stop F trace F keeptogether F registertogether F optimize F optimize F optimize F set F set F set F reset F set F set F set F set F set F popatsame F set F spushatsame F soptimize F set F set F set F set F setskip F reset F spushcronizepage F split F start F tocategories F sonapbox F set F sonapbox F set F sonapbox F set F sonappox		+	•
T constructors N attribute F set F define Vspacing table F disable D categories F enable F checkstrutdepth F handler F collapsevbox T methods T data F basic D map F default D skip F hpack D snapmethods F oneline F oneline F set F forcepageflush F start F start F start F getnofpreviouslines F stop F trace F injectdisable F registertogether F solutions T splitters F define F pagehandler F popatsame F optimize F set F reset F start F setskip F reset F start F setskip F reset F starphox F stephorizepage F split F start F stoategory			
R attribute F define Vspacing Table F disable D categories F enable F enable F checkstrutdepth F handler F collapsevbox T methods T data F basic D map F default D skip F hpack D snapmethods F oneline F definesnapmethod D names B fixed D numbers F set F forcepageflush F start F start F stop F trace F injectdisable F trace F injectdisable F registertogether F solutions T splitters F define F pageoverflow T registered F reset F start F setmap F reset F start F stoacategories F story F stephonizepage F split F reset F start F tocategories F tocategory		tabte	
F define F disable F disable F enable F enable F handler F handler F basic F default F hack F oneline F oneline F set F start F start F start F start F starc F trace			,
F disable F enable F enable F enable F handler F handler F collapsevbox T methods F basic D map F default D skip F hpack D snapmethods F oneline F define F forcestrutdepth F start F trace F trace F registertogether F solutions F define F define F pushatsame F optimize F reset F set F sonapbox F set F reset F sonapbox F set F setskip F reset F setskip F reset F snapbox F set F sonaportic for start for succession of the			
F enable F handler F handler F collapsevbox T methods F basic D map F default D skip F hpack F oneline F oneline F definesnapmethod D names B fixed D numbers F set F forcepageflush F start F getnofpreviouslines F stop F inject T expansion F trace F injectdisable F trace F injectskip F registertogether F solutions F solutions F define F pageoverflow T splitters F define F optimize F registered F setskip F reset F snapbox F snapbox F set F snapbox F stoategories F start F tocategory			, ,
F handler T methods T data F basic D map F default D skip F hpack D snapmethods F oneline F definesnapmethod D names B fixed D numbers F forcepageflush F set F forcestrutdepth F start F getnofpreviouslines F stop F inject T expansion F trace F injectdisable F trace F injectskip F registertogether F solutions T splitters F define F optimize T registered F reset F snapbox F set F snapbox F stortocategory			
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F basic F default F default D skip D snapmethods F oneline F definesnapmethod D names B fixed D numbers F set F forcepageflush F set F forcestrutdepth F start F getnofpreviouslines F stop F inject T expansion F trace F injectdisable F trace F injectdisable F trace F injectskip F registertogether F solutions F solutions F pageoverflow T splitters F define F optimize F registered F reset F set psetskip F reset F setskip F reset F setskip F setskip F setskip F reset F setskip F reset F sonapbox F set psynchronizepage F split F tocategory			·
F default F hpack D snapmethods F oneline F oneline F definesnapmethod D names B fixed D numbers F forcepageflush F set F forcestrutdepth F start F getnofpreviouslines F stop F inject T expansion F trace F injectdisable F trace F injectskip F registertogether F solutions F solutions F pagehandler T solutions F pageoverflow T splitters F define F popatsame F optimize F registered F setmap F reset F setskip F tocategories F start			
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F oneline D names B fixed D numbers F set F forcepageflush F set F forcestrutdepth F start F getnofpreviouslines F stop T expansion F trace F injectdisable F trace F injectpenalty F keeptogether F registertogether F solutions T splitters F define F optimize F optimize T registered F reset F set F set F setskip F reset F setskip F reset F setskip F reset F split F tocategories F tocategory			·
D names D numbers F set F forcepageflush F set F forcestrutdepth F start F getnofpreviouslines F stop F inject T expansion F trace F injectpenalty F keeptogether F registertogether F registertogether F solutions F pageoverflow T splitters F define F optimize F optimize F registered F reset F set F set F sinject F pagehandler F pagehandler F pageoverflow F pageoverflow F pageoverflow F splitters F popatsame F optimize F setmap F registered F setskip F reset F snapbox F set F snapbox F set F snapbox F set F stocategories F start F tocategory	·		·
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F start F getnofpreviouslines F stop F inject T expansion F injectdisable F trace F injectpenalty F keeptogether F injectskip F registertogether F pagehandler T solutions F pageoverflow T splitters F popatsame F define F pushatsame F optimize F setmap T registered F setskip F reset F snapbox F set F set F synchronizepage F split F tocategory	F set		
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F trace F injectpenalty F keeptogether F injectskip F registertogether F pagehandler T solutions F pageoverflow T splitters F popatsame F define F pushatsame F optimize F setmap T registered F setskip F reset F snapbox F set F synchronizepage F split F tocategory	F stop		F inject
F keeptogether F registertogether F registertogether F solutions F pageoverflow T splitters F popatsame F define F pushatsame F optimize F setmap T registered F reset F reset F samp F setskip F reset F synchronizepage F split F start F tocategory	T expansion		F injectdisable
F registertogether T solutions F pageoverflow T splitters F popatsame F define F optimize F optimize F registered F reset F reset F set F set F set F synchronizepage F split F start F tocategory	F trace		F injectpenalty
T solutions F pageoverflow T splitters F popatsame F define F pushatsame F optimize F setmap T registered F setskip F reset F snapbox F set F synchronizepage F split F tocategories F start F tocategory	F keeptogether		F injectskip
T splitters F popatsame F define F pushatsame F optimize F setmap T registered F setskip F reset F snapbox F set F synchronizepage F split F tocategories F start F tocategory	F registertoget	her	F pagehandler
F define F pushatsame F optimize F setmap T registered F setskip F reset F snapbox F set F synchronizepage F split F tocategories F start F tocategory	T solutions		F pageoverflow
F optimize F setmap T registered F setskip F reset F snapbox F set F synchronizepage F split F tocategories F start F tocategory	T splitters		F popatsame
T registered F setskip F reset F snapbox F set F synchronizepage F split F tocategories F start F tocategory	F define		F pushatsame
F reset F snapbox F set F synchronizepage F split F tocategories F start F tocategory	F optimize		F setmap
F set F synchronizepage F split F tocategories F start F tocategory	T registered	I	F setskip
F split F tocategories F start F tocategory	F reset		F snapbox
F start F tocategory	F set		F synchronizepage
	F split		F tocategories
F stop F vboxhandler	F start		F tocategory
	F stop		F vboxhandler

caches (context)

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

callback (basic tex)

find function
known function
list function

register overloaded function
usage function

callbacks (context)

freeze function functions table

F start_page_number

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

- B append_to_vlist_filter
- B begin paragraph

supported table

- B build page insert
- B buildpage_filter
- B contribute_filter
- B define font
- B find format file
- B find log file
- B handle overload
- B hpack filter
- B hpack quality
- B hyphenate
- B insert par
- B intercept lua error

- B intercept tex error
- B kerning
- B ligaturing
- B linebreak filter
- B make_extensible
- B mlist to hlist
- B open data file
- B post linebreak filter
- B pre dump
- B pre linebreak filter
- B pre_output_filter
- B process_jobname
- B show_error_message
- B show_lua_call
- B show_warning_message
- B show_whatsit
- B start file
- B start run
- B stop_file
- B stop run
- B trace_memory
- B vpack_filter
- B vpack quality
- B wrapup run

catcodes (context)

names data table
numbers data table

register function

characters (context)

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

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

T char T compat

subscripts
superscripts
synonyms
tex
table
table
table

D accentmapping
D commandmapping
F defineaccents
F safechar
F toutf

F toutfpattern textclasses table tonumber function ucchars data table function uccode uccodes data table uhash data table unicodechar function function upper

chemistry (context)

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

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

containers (context)

${\tt cleanname}$	function	
content	function	
define	function	
is usable	function	

is_valid function
read function
usecache boolean
write function

converters (context)

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

uchexnumbers upper verbose function function table

F translate weekday word

words

function
function

coroutine (basic lua)

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

ctxrunner (context)

load function
preparedfile function

prepfiles data table
resolve function

data (context)

action function depth number height number prerolled string
width number

debug (basic lua)

getinfo function
sethook function

traceback function

dir (context)

collectpattern	function
current	function
expandname	function
found	function
glob	function
globdirs	function
globfiles	function

globpattern	function
ls	function
makedirs	function
mkdirs	function
рор	function
push	function

directives (context)

data	data table	name	string
default	function	register	$ \hbox{function} $
disable	function	report	$ \hbox{function} $
done	table	reset	$ \hbox{function} $
enable	function	show	$ \hbox{function} $
list	function	value	$ \hbox{function} $

document (context)

arguments files **functions** getargument getfilename options

data table table table function function

table

D modes

D modules

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

T commandline

D environments

D modes D modules T ctxfile

D environments

documentdata (context)

variable function

drivers (context)

convent	function	-
convert	function	T actions
converters	table	F cleanup
F engine		F convert
F lmtx	£	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 rule
instances	table	F simplerule
T default		F specialrule
T actions		F updatefontstate
F convert		S name
F outputfil	ename	T lua
T flushers		T actions
S name		F cleanup
T empty		F convert
T actions		F finalize
F convert		F initialize
F prepare		F outputfilename
T flushers		F prepare
S name		F wrapup
T js		T flushers
T actions		F character
F cleanup		F rule
F convert		F simplerule
F finalize		F specialrule
F initializ	e	F updatefontstate
F outputfil	ename	S name
F prepare		T mps
F wrapup		T actions
T flushers		F cleanup
F character		F convert
F rule		F finalize
F simplerul	e	F initialize
F specialru	le	F outputfilename
F updatefon	tstate	F prepare
S name		F wrapup
T json		T flushers

F character T flushers F rule F character F fontchar F simplerule F specialrule F group F updatefontstate F image S name F literal T none F poporientation T actions F pushorientation T flushers F restore S name F rule T pdf F save T actions

actions F save
actions F setmatrix
F cleanup F simplerule
F convert F specialrule
F finalize F updatefontstate
F initialize S name

F outputfilename

F prepare

F wrapup

Imtxversion number

outputfilename function

report function

environment (context)

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

experiments (context)

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

register function report function reset function show function value function

figures (context)

B art

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

setmemstream

function

setorderfunctionsuffixesdata tablesetpathsfunctionuseddata table

file (basic lua)

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

fio (extra lua)

getposition	$ \hbox{function} $
read2dot14	$ \hbox{function} $
readbytes	$ \hbox{function} $
readbytetable	$ \hbox{function} $
readcardinal1	$ \hbox{function} $
readcardinal1le	$ \hbox{function} $
readcardinal2	$ \hbox{function} $
readcardinal2le	$ \hbox{function} $
readcardinal3	$ \hbox{function} $
readcardinal3le	$ \hbox{function} $
readcardinal4	$ \hbox{function} $
readcardinal4le	$ \hbox{function} $
${\bf readcardinaltable}$	$ \hbox{function} $
readfixed2	$ \hbox{function} $
readfixed4	$ \hbox{function} $
readinteger1	$ \hbox{function} $
readinteger1le	$ \hbox{function} $
readinteger2	$ \hbox{function} $

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

floats (context)

analysemethod	function	nofstacked	$ \hbox{function} $
checkedpagefloat	function	pop	function
collect	function	push	function
consult	function	resave	function
flush	function	save	function
getvariable	function	stacked	function
hasstacked	function		

font (basic tex)

addcharacters	function
current	function
define	function
each	function
getfont	function
getfontdimen	function

id	function
max	function
nextid	function
setfont	function
setfontdimen	function

fonts (context)

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

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

	_
Fcff	F cleanname
F cff2	F getaxisscale
F cffcheck	F getfactors
T cffencoder	F getscales
F checkhash	F gotodatatable
F cmap	F normalizedaxis
F colr	T normalizedaxishash
F compact	F readvariationdata
F cpal	F reportskippedtable
F ebdt	F setvariabledata
F eblc	F hhea
F ebsc	F hmtx
F expand	F hvar
F extend	F kern
F fvar	F loadfont
F gdef	F loadshapes
F getcomponents	F loca
F getinfo	F math
F glyf	F maxp
F gpos	F mvar
T gposhandlers	F name
F chainedcontext	F os/2
F context	F pack
F cursive	F parsecharstrings
F extension	F post
F marktobase	F registerextender
F marktoligature	F rehash
F marktomark	F sbix
F pair	F stat
F single	T streamreader
F gsub	F close
T gsubhandlers	F getposition
F alternate	F getsize
F chainedcontext	F look
F context	F open
F extension	F read2dot14
F ligature	F readbyte
F multiple	F readbytes
F reversechainedcontextsingle	F readbytetable
F single	F readcardinal
F gvar	F readcardinal1
F head	F readcardinal1le
T helpers	F readcardinal2
F axistofactors	F readcardinal2le

F readcardinal3 F writestring F readcardinal3le F stripredundant F readcardinal4 F svq F readcardinal4le N tableversion F readcardinaltable F unifymissing F readchar F unpack F readfixed2 F vhea F readfixed4 F vmtx F readinteger F vorg F readinteger1 F vvar F woff2otf F readinteger1le F readinteger2 F registerpalette F readinteger2le F registerplugin F readinteger3 F reorderlookups F readinteger3le F scriptandlanguage F readinteger4 F setdynamics F readinteger4le F setfeatures T statistics F readintegertable D usedfeatures F readsignedbyte F readstring D sygcache F readtag B sygenabled F setposition T tables D baselines F size D features F skip F skiplong D featuretypes F skipposition D languages F skipshort D scripts F writebyte N version F writecardinal1 T pfb F writecardinal1le F loadvector F writecardinal2 T tfm E writecardinal2le D cache F writecardinal3 D features F writecardinal3le N maxnestingdepth F writecardinal4 N maxnestingsize F writecardinal4le T readers F loadpk F writeinteger1 F loadtfm F writeinteger1le F writeinteger2 F loadtfmvf F writeinteger2le F loadvf F writeinteger3 F pktopdf F writeinteger3le F showpk F reencode F writeinteger4 F writeinteger4le F setfeatures

N version		F checkedscript			
T vf		S defaultlookup	S defaultlookup		
T combinations		F define	F define		
F combine		F getspecificat	ion		
T combiner		F internal			
D commands		F loadfont			
D helpers		F makespecifica	F makespecification		
D math		T methods			
D predefined		F install			
N version		D variants			
D whatever		F read			
F hashfeatures		F register			
F hashinstance		F registered			
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F normal		F resetnullfont			
F virtual		F resolve			
F initializefea	tures	T resolvers			
D loadedfonts		F file			
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F readanddefine		F provide			
F registerfeatu	re	F registerglyph	F registerglyph		
F resetfeature		F registerglyphs			
B resolvevirtua	ltoo	F swap			
F scale		encodings	table		
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F setfactor		D ctxcodes			
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F applypostprocessors		enhanceid	function		
F checkedmode		expansions	data table		

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T alternates		D	spacings	
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S comment	:	D	unicodes	
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F registerpostpro	cessor		descriptiontosl	ot
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F getinstances	pec	F fill	
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F filefallback	D variants
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F mathfallback	F uselibrary
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F registerfiles	F applyfixes
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F registerfiles F registerfontalternative F registerfontfamily F textfallback	F applyfixes D data S filename F ignoredfile
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F registerfiles F registerfontalternative F registerfontfamily F textfallback F typeface F typescript F userdata specifiers table	F applyfixes D data S filename F ignoredfile F report F trace typefaces table vfcommands table
F registerfiles F registerfontalternative F registerfontfamily F textfallback F typeface F typescript F userdata specifiers D contextmerged	F applyfixes D data S filename F ignoredfile F report F trace typefaces vfcommands table F startcolor
F registerfiles F registerfontalternative F registerfontfamily F textfallback F typeface F typescript F userdata Specifiers D contextmerged F contextnumber	F applyfixes D data S filename F ignoredfile F report F trace typefaces vfcommands table F startcolor F startslant

F contexttostring

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

gzip (extra lua)

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

images (context)

check	function	B none	
		в попе	
checksize	function	B trim	
сору	function	totable	function
create	function	types	table
embed	function	N jbig2	
keys	table	N jp2	
print	function	N jpg	
scan	function	N memst	ream
serialize	function	N none	
sizes	table	N pdf	
B art		N png	
B bleed		N stream	n
B crop		wrap	function
B media			

interactions (context)

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

interfaces (context)

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

io (basic lua)

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

input overloaded function overloaded function lines

loadchunk function loaddata function loadlines function newreader function noflines function

open overloaded function output overloaded function

pathseparator string

overloaded function popen

read function readall function readnumber function readstring function savedata function size function stderr userdata stdin userdata stdout userdata tmpfile function function type function write

job (context)

-	£			
comment	function		tobesaved	4-61-
datasets	table	-	rappers	table
D collected			collected	
F extend			tobesaved	+ - h 1-
F getdata		pass		table
F setdata			check	
D tobesaved			collected	
disablesave	function		count	
embedded	table		define	
D collected			find	
D tobesaved			first	
fileobjreferences	table		get	
D collected			getcollected	
D tobesaved			getdata	
files	table		getfield	
D collected			gettobesaved	
F context			inlist	
B forcerun			last	
F run		F	list	
D tobesaved		F	save	
getrandomseed	function	F	savetagged	
initialize	function	D	tobesaved	
load	function	posi	tions	table
loadother	function	F	b_column	
objects	table	F	b_region	
D collected		F	С	
F get		D	collected	
F number		F	column	
F page		F	columnofpos	
F save		F	сору	
F set		F	depth	
D tobesaved		F	e_column	
pack	boolean	F	e_region	
packversion				
packvei 310ii	number	F	enhance	
pagestates	table		enhance extra	
-		F		
pagestates		F F	extra	
<pre>pagestates D collected</pre>		F F	extra get	
<pre>pagestates D collected F countervalue</pre>		F F F	extra get getfree	
pagestates D collected F countervalue F extend		F F F	extra get getfree gethpos	

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

F setspec
F settobesaved

version

number

language (basic tex)

clean	function
clear_hyphenation	function
clear_patterns	function
current	function
gethjcode	function
has_language	function
hyphenate	function
hyphenation	function
hyphenationmin	function

function
function

languages (context)

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

F check	B enables
T data	F found
F disable	F load
F enable	T methods
T enablers	N threshold

layouts (context)

status table
 F isleftpage

F leftorrightpageaction

lfs (extra lua)

attributes overloaded function chdir overloaded function

currentdir function

isfound function
isreadabledir function
isreadablefile function
iswriteabledir function

iswriteablefile function

mkdirs function
modification function
readlink function

setexecutable function
symlink function

touch overloaded function

libraries (context)

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

extratex data table
functions data table
globals data table

lmx (context)

color	function
convert	function
convertfile	$ \hbox{function} $
convertstring	$ \hbox{function} $
einject	$ \hbox{function} $
eprint	$ \hbox{function} $
escape	$ \hbox{function} $
finalized	$ \hbox{function} $
finject	function
fprint	$ \hbox{function} $
get	$ \hbox{function} $
getvariables	$ \hbox{function} $
htmfile	$ \hbox{function} $
html	table
Fa	

F td F th

include function
inherited table

- S color-background-four
- S color-background-one
- S color-background-three
- S color-background-two
- S title

initialize function
inject function
lmxfile function

loadedfile function function make function new overloaderror function popupfile function function print function pν function report reset function result function set function show function function showerror function stripcss tν function function type function urlescape variable function variables table

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

logs (context)

application	function	setformatters	function
categories	function	setlogfile	function
direct	function	setmessenger	function
disable	function	setprocessor	function
enable	function	settarget	function
finalactions	function	settimedlog	function
flush	function	settranslations	function
loggingerrors	function	show	function
messenger	function	start_page_number	function
new	function	start_run	function
newline	function	starterrorlogging	function
poptarget	function	startfilelogging	function
private	table	status	function
F enablepagetiming		stop_page_number	function
F getpagetiming		stoperrorlogging	function
pushtarget	function	stopfilelogging	function
registerfinalactions	function	subdirect	function
report	function	subreport	function
reporter	function	texerrormessage	function
setformats	function	writer	function

lpdf (context)

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

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

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

lpeg (basic lua)

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

lua (basic tex)

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

luatex (context)

F disable

F enable

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

wrapup

function

lxml (context)

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

	6		
refatt	function	F add	
register	function	F compare	
registerentity	function	F flush	
removesetup	function	F reset	
replace	function	F show	
resetcdata	function	F sort	
resetsetups	function	splitid	function
resolvedentity	function	startraw	function
root	function	startunescaped	function
save	function	stopraw	function
serialize	function	stopunescaped	function
setaction	function	store	function
setatt	function	strip	function
setattribute	function	stripped	function
setcdata	function	tag	function
setcommandtonone	function	text	function
setcommandtotext	function	tobuffer	function
setpar	function	tofile	function
setparam	function	toparameters	function
setparameter	function	toverbatim	function
setsetup	function	verbatim	function
snippet	function	withindex	function
sorters	table	xmltexhandler	data table

math (basic lua)

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

min	function	
mininteger	number	
mod	function	
modf	function	
odd	function	
pi	number	
pow	function	
rad	function	
random	${\tt overloaded}$	function
randomseed	function	
round	function	
setrandomseedi	function	
sin	function	
sind	function	
	_	
sinh	function	

function

function

function

function

function

function

tan

tand tanh

type

ult

tointeger

mathematics (context)

addfallbacks	function	man waman	data table
alphabets	data table	mapremap overloaddimensions	function
alternatives	data table		function
41101412100		overloadparameters	
big	function	privatebase	number
boldmap 	data table	registerdomain	function
categories	table	registerfallbackid	function
D functions		remapalphabets	function
charactersets	data table	renderings	table
checkaccentbaseheight	function	D mappings	
checkprivateparameters		D numbers	
classes	data table	D sets	
codes	data table	renderset	function
define	function	resetattributes	function
dimensions	function	resetitalics	function
domains	table	resolvefallbacks	function
extensiblecode	function	scaleparameters	function
extensibles	data table	setdomain	function
extrabase	number	setitalics	function
extras	table	setridofprime	function
F add		sets	data table
F copy		styles	data table
fallbacks	table	syncboth	function
F apply		syncname	function
F install		syncstyle	function
fallbackstyleattr	function	toname	function
families	data table	tostyle	function
finishfallbacks	function	tweakaftercopyingfont	function
gaps	data table	tweakbeforecopyingfont	function
getboth	function	tweaks	table
getdomain	function	utfmathaccent	function
getitalics	function	utfmathclass	function
getridofprime	function	utfmathcommand	function
getstyle	function	utfmathfiller	function
horizontalcode	function	utfmathstretch	function
initializeparameters	function	virtualize	function
makefont	function	virtualized	data table

md5 (extra lua)

HEXfunctionsumfunctiondecfunctionsumHEXAfunctionhexfunctionsumhexafunction

metapost (context)

checkformat function function cm codes table N addto N ampersand N and N assignment N atleast N begingroup N btex N capsule N colon N comma N controls N curl N cycle N declare N def N definedmacro N delimiters N endgroup N equals N etex N everyjob N exitif N expandafter N fi or else Nif N input N interim N internal N iteration N join N leftbrace N leftbracket N leftdelimiter N let

N macrospecial

N maketext

N message

N mode

N newinternal N nullary N numeric N of N ofbinary N outertag N parametertype N plus or minus N primarybinary N primarydef N randomseed N relax N repeat loop N rightbrace N rightbracket N rightdelimiter N runscript N save N scantokens N scope N secondarybinary N secondarydef N semicolon N setbounds N shipout N show N skip N slash N special N step N stop N str N string N tag N tension N tertiarybinary N tertiarydef N thingstoadd N to N unary N undefinedcs

N until getparameter	function
N void getparameterset	function
N with getstatistics	function
N within gettext	function
N write graphic	function
colorinitializer function graphic_base_pass	function
comment function includesvgbuffer	function
convert function includesvgfile	function
currentmpx function installplugin	function
currentmpxstatus function isobject	function
defaultformat string lastlog	string
defaultinstance string load	function
defaultmethod string maketext	function
directrun function metafun	table
escaped function F interpolate	
exectime table F topath	
extensiondata data table mptopdf	table
filterclippath function F convertmpstopdf	
flush function N nofconverted	
flushers table n	number
T pdf nofruns	number
F comment nofscriptruns	function
F flushfigure nvformat	function
F startfigure pdfliterals	function
F stopfigure pluginactions	function
F textfigure popformat	function
flushliteral function popscriptrunner	function
<pre>flushnormalpath function popvariable</pre>	function
<pre>flushreset function popvariables</pre>	function
fonts table preparetextextsdata	function
F define process	function
T flusher processing	function
F flushfigure processplugins	function
F startfigure processspecial	function
F stopfigure properties	table
N instances pushformat	function
•	function
F process pushscriptrunner	
F process pushscriptrunner format_number function pushvariable	function
F process pushscriptrunner format_number function pushvariable format_string function pushvariables	function function
F process pushscriptrunner format_number function pushvariable format_string function pushvariables formatnumber function reducetogray	function function boolean
F process pushscriptrunner format_number function pushvariable format_string function pushvariables formatnumber function reducetogray getclippath function registerscript	function function boolean function
F process format_number format_string formatnumber formatumber formatnumber function getclippath getextensions function pushvariable pushvariables reducetogray reducetogray registerscript remappedtext	function function boolean function function
F process pushscriptrunner format_number function pushvariable format_string function pushvariables formatnumber function reducetogray getclippath function registerscript	function function boolean function

reportsvgfonts	function	F setfrombuffer	
reset	function	texerrors	boolean
resetlastlog	function	texexp	function
resetplugins	function	theclippath	function
run	function	tographic	function
runscript	function	totable	function
scanparameters	function	types	table
scripterror	function	N boolean	
scriptindex	function	N cmykcolor	
setextensions	function	N color	
setoutercolor	function	N dependent	
setparameterset	function	N independent	
settext	function	N known	
setvariable	function	N numeric	
showlog	boolean	N pair	
showsvgpage	function	N path	
simple	function	N pen	
splitprescript	function	N picture	
startgraphic	function	N protodependent	
startsvghashing	function	N string	
stopgraphic	function	N structured	
stopsvghashing	function	N suffixedmacro	
svformat	function	N tokenlist	
svgcolorremapper	function	N transform	
svgglyphtomp	function	N unknownboolean	
svgshapestomp	function	N unknownpath	
svgshapestopdf	function	N unknownpen	
svgsplitcolor	function	N unknownpicture	
svgtomp	function	N unknownstring	
svgtopdf	function	N unsuffixedmacro	
sxsy	function	N vacuous	
tex	table	typesvgpage	function
F get		unload	function
F reset		untagvariable	function
F set		variables	table

mime (extra lua)

b64 function qpwrp function decode function function report decodet table stuff function unb64 function F base64 unqp function F quoted-printable function function wrap function table encode wrapt encodet table F base64 F base64 F default F quoted-printable F quoted-printable eol function F text normalize function function wrp function qр

mp (context)

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

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

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

function

size

mplib (extra tex)

execute	function	<pre>inject_transform</pre>	function
finder	function	inject_whatever	function
finders	table	new	$overloaded \ function \\$
F file		pen_info	function
F mpstemplate		realtimelogging	boolean
finish	function	scan_boolean	function
getcallbackstate	function	scan_cmykcolor	function
getcodes	function	scan_color	function
getfields	function	scan_expression	function
getstates	function	scan_integer	function
getstatistics	function	scan_next	function
getstatus	function	scan_number	function
gettype	function	scan_numeric	function
gettypes	function	scan_pair	function
inject_boolean	function	scan_path	function
<pre>inject_cmykcolor</pre>	function	scan_pen	function
inject_color	function	scan_string	function
inject_integer	function	scan_symbol	function
inject_number	function	scan_token	function
inject_numeric	function	scan_transform	function
inject_pair	function	skip_token	function
inject_path	function	solve_path	function
inject_string	function	version	function

noads (context)

handlers	table	F resize	
F align		F showtree	
F alternates		F tags	
F autofences		F unscript	
F classes		F unstack	
F collapse		F variants	
F domains		process	$ \hbox{function} $
F families		processnested	$ \hbox{function} $
F fixscripts		processors	table
F italics		F mlist_to_hli	st
F kernpairs		T unscript	
F makeup		T unstack	
F relocate		processouter	$ \hbox{function} $
F render			

node (basic tex)

F getexpansion

check discretionaries function F getfam check discretionary function F getfield copy function F getfont copy list function F aetalue function count F getglyphdata current attributes function F getglyphdimensions dimensions function F getheight direct table F getid F check discretionaries F getindex F check discretionary F getkern F copy F getkerndimension F copy list F getlanguage F copy only F getleader F count F getlist F current attributes F getnext F dimensions F getnormalizedline F effective glue F getnucleus F end of math F getoffsets F exchange F getoptions F fields F getorientation F find attribute F getparstate F find attribute range F getpenalty F find node F getpost F first glyph F getpre F flatten discretionaries F getprev F flush list F getproperty F flush node F getreplace F getscript F get attribute F getshift F get attributes F getstate F get properties table F getsub F get synctex fields F getsubpre F getattributelist F getsubtype F getboth F getsup F getbox F getsuppre F getchar F gettotal F getdata F aetwhd F getwidth F getdepth F getdirection F has attribute F getdisc F has dimensions

F has field

F has glyph F setglue F has glyph option F setqlyphdata F setheight F hpack F hyphenating F setindex F id F setkern F ignore math skip F setlanguage F insert_after F setleader F insert before F setlink F is char F setlist F is direct F setnext F is glyph F setnucleus F setoffsets F is node F is valid F setoptions F is zero glue F setorientation F kerning F setpenalty F last node F setpost F length F setpre F ligaturing F setprev F make extensible F setproperty F migrate F setreplace F mlist to hlist F setscript F naturalwidth F setshift F setsplit F new F protect glyph F setstate F protect_glyphs F setsub F protrusion_skippable F setsubpre F rangedimensions F setsubtype F remove F setsup F reverse F setsuppre F set attribute F settotal F set attributes F setwhd F set synctex fields F setwidth F setattributelist F slide F setboth F start of par F setbox F subtypes F tail F setchar F setdata F todirect F setdepth F tonode F setdirection F tostring F setdisc F tovaliddirect F setexpansion F traverse F setfam F traverse char F setfield F traverse content F setfont F traverse glyph

F traverse_id		instock	function
F traverse_list		inuse	function
F type		is_node	function
F types		is_zero_glue	function
F unprotect_glyph		kerning	function
F unprotect_glyphs		last_node	function
F unset_attribute		length	function
F unset_attributes		ligaturing	function
F usedlist		make_extensible	function
F uses_font		mlist_to_hlist	function
F values		new	function
F vertical_break		protect_glyph	function
F vpack		protect_glyphs	function
F write		protrusion_skippable	function
effective_glue	function	rangedimensions	function
end_of_math	function	remove	function
family_font	function	set_attribute	function
fields	function	set_glue	function
find_attribute	function	setfield	function
first_glyph	function	setproperty	function
flatten_discretionaries	function	slide	function
flush_list	function	subtypes	function
flush_node	function	tail	function
free	function	tostring	function
get_attribute	function	traverse	function
get_glue	function	traverse_id	function
get_properties_table	function	type	function
getfield	function	types	function
getproperty	function	unprotect_glyph	function
has_attribute	function	unprotect_glyphs	function
has_field	function	unset_attribute	function
has_glyph	function	usedlist	function
hpack	function	uses_font	function
hyphenating	function	values	function
id	function	vpack	function
insert_after	function	write	function

function

insert_before

nodes (context)

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

F cleanuppage		kerncodes	data table
F export		kerning	function
F finalizebox		keys	table
F flatten		T whatsit	
F flattenline		last_node	function
F migrate		leftmarginwidth	function
F protectglyphs		length	function
F stripping		ligaturing	function
F textbackgrounds		linefillers	table
F unprotectglyphs		D data	
has_attribute	function	F define	
has_field	function	F enable	
has_glyph	function	F filler	
hpack	function	F handler	
hyphenating	function	lines	table
idsandsubtypes	function	T boxed	
idstostring	function	F addlinenumbers	
injections	table	F register	
F copy		F setup	
F getligaindex		D data	
F getthreshold		F finalize	
F handler		F number	
F installgetspaceboth		link	function
F installnewkern		linked	function
F isspace		list	function
F keepcounts		listcodes	data table
F reset		listtoutf	function
F resetcounts		literalvalues	data table
F setcursive		locate	function
F setkern		markers	table
F setligaindex		F get	
F setmark		mathcodes	data table
F setmove		maxboxwidth	function
F setposition		migrations	table
F setspacekerns		F setinserts	
insert_after	function	F setmarks	
insert_before	function	mlist_to_hlist	function
insert_list_after	function	new	function
installattributehandler		noadcodes	data table
is_direct	function	noadoptions	table
is_display_math	function	N axis	
is_node	function	N exact	
is_nut	function	N left	
is_zero_glue	function	N middle	

N no axis F fullhpack N right F get components N set F getattr N unused 1 F getattribute N unused 2 F getattributelist nodecodes data table F getattrlist function nopts F getattrs table nuts F aetboth F append F getbox F getboxglue F apply F applyvisuals F getchar F check discretionaries F getcomponents T colors F getdata F set F getdepth F concat F getdirection F copy F getdisc F copy list F getdiscretionary F getexpansion F copy no components F copy node F getfam F copy only F getfield F copy_only_glyphs F getfont F copy_properties F getglue F copyvisual F getglyphdata F getglyphdimensions F count F count components F getheight F countall F getid F current attributes F getkern F delete F getkerndimension F dimensions F getlang F dirdimensions F getlanguage F effective glue F getleader F end of math F getlist F exchange F getnext F find attribute F getnormalizedline F first glyph F getnucleus F firstcharacter F getoffsets F firstcharinbox F getoptions F firstqlyph F getorientation F flatten discretionaries F getpenalty F flush F getpost F flush components F getpre F flush list F getprev

F flush node

F free

F getprop

F getreplace

F getruledata F accent F getscript F baselineskip F getshift F boundary F getstate F choice F getsub F cleanup F delim F getsubpre F getsubtype F delimiter F direction F getsup F directliteral F getsuppre F getsurround F disc F getsynctexfields F emptyrule F fence F gettotal F getvalue F fontkern F fraction F getwhd F getwidth F glue F has attribute F gluespec F has dimensions F glyph F has field F hlist F indentskip F has glyph F italickern F hpack F hyphenating F kern F insert_after F latelua F insert before F leader F insert list after F lefthangskip F is display math F leftmarginkern F is node F leftskip F is nut F lineskip F is zero glue F literal F ischar F mathchar F mathtextchar F isdone F isglyph F negatedglue F kerning F noad F last node F originliteral F leftmarginwidth F outlinerule F length F pageliteral F ligaturing F penalty F link F radical F rawliteral F linked F locate F register F migrate F restore F mlist to hlist F righthangskip F nestedtracedslide F rightmarginkern F new F rightskip

F rule

T pool

F save F setattribute F savepos F setattributelist F setmatrix F setattributes F shrink F setattrlist F stock F setattrs F stretch F setboth F subbox F setbox F submlist F setboxalue F temp F setchar F usage F setcomponents T userids F setdata N margins.inline F setdepth N splitters.one F setdirection N splitters.two F setdisc F usernode F setdiscretionary F userrule F setexpansion F vlist F setfam F wordboundary F setfield F setfont F prepend F processranges F setglue F processwords F setglyphdata F protect_glyph F setheight F protect glyphs F setkern F protrusion skippable F setlang F rangedimensions F setlanguage F rawprop F setleader F reference F setlink F rehpack F setlist F setnext F remove F repackhlist F setnucleus F replace F setoffsets F reverse F setoptions F rightmarginwidth F setorientation T rules F setparproperty T ruleactions F setpenalty F box F setpost F draw F setpre F fill F setprev F mp F setprop F stroke F setreplace F userrule F setruledata F set attribute F setscript F set components F setshift

F setsplit

F setattr

F setstate	F glyph	
F setsub	F hlist	
F setsubpre	F list	
F setsubtype	F next	
F setsup	F node	
F setsuppre	F vlist	
F setsurround	F whatsit	
F setsynctexfields	T typesetters	
F setunsetattributes	F tohbox	
F setvalue	F tohpack	
F setvisual	F tonodes	
F setvisuals	F tovbox	
F setwhd	F tovpack	
F setwidth	F unprotect_glyph	
F slide	F unprotect_glyphs	
F somepenalty	F unset_attribute	
F somespace	F unset_attributes	
F splitbox	F unsetattribute	
F start_of_par	F unsetattributes	
F striprange	F untracedslide	
F tail	F usedlist	
F takeattr	F uses_font	
F takebox	F vianodes	
F takelist	F vianuts	
F theprop	F vpack	
F tonode	F write	
F tonodes	packlist	function
F tonut	parcodes	data table
F tosequence	penaltycodes	data table
F tostring	plugindata	table
F tracedslide	F finalizer	
F traverse	F initializer	
F traverse_char	S name	
F traverse_content	T namespace	
F traverse_glyph	N attribute	
F traverse_id	D data	
F traverse_list	F enable	
T traversers	F handler	
F boundary	F register	
F char	D registered	
F content	D values	
F dir	F processor	
F disc	points	function
F glue	pool	table

F baselineskip		repackhlist	function
F cleanup		replace	function
F directliteral		report	function
F glyph		rightmarginwidth	function
F hlist		rulecodes	data table
F latelua		rules	table
F lineskip		D data	tabte
F literal		F define	
F originliteral		F enable	
F register		F handler	
F restore		F process	
F rule		F userrule	
F save		serialize	function
F savepos		serializebox	function
F savepos F setmatrix		set attribute	function
F special		setattr	function
F stock		setattribute	function
F usage		setattributes	function
F vlist		setboth	function
prepend	function	setbox	function
print	function	setbox	function
processors	table	setchar	function
F contribute filter	table	setfield	function
B enabled		setfont	function
		setleader	function
<pre>F hpack_filter F post linebreak filter</pre>		setlink	function
F pre linebreak filter		setlist	function
F tracer		setnext	function
properties	table	setprev	function
T data	tubte	setunsetattributes	function
protect_glyph	function	shifts	table
protect_glyphs	function	D data	cabic
protrusion_skippable	function	F define	
pts pts	function	F enable	
radicalcodes	data table	F handler	
rangedimensions	function	showboxes	function
reference	function	showlist	function
references	table	showsimplelist	function
N attribute		skipcodes	data table
T done		slide	function
F handler		snapshots	table
T stack		F getsamples	-
rehpack	function	F resetsamples	
remove	function	F takesample	
		. canasampee	

somepenalty function function totable function somespace function totree **splitbox** function toutf function table start of par function tracers 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 T nodes F actions F rule F appendaction F disableaction T nuts F disablegroup F rule F enableaction F resetproperties F enablegroup F rule F freeze F setlist F freezearoup F setproperties F start F new F prependaction T steppers F removeaction F check F replaceaction F codes F restart F features F font F setaction F showactions F glyphs F table F message tobasepoints function F messages tocentimeters function F nofsteps tociceros function F register todidots function F reset todimen function F start toinches function F stop **tomillimeters** function F stop tonode function T transparencies function tonodes F reset tonut function F set topicas function F setlist topoints function traverse function function traverse id function toscaledpoints tosequence function typesetters table tostring function F hbox

F hpack F tohbox		visualizebox visualizers	function table
F tohpack		F attribute	
F tonodes		T attributes	
F tovbox		F box	
F tovpack		F handler	
F vpack		F markfonts	
unprotect_glyph	function	F register	
unprotect_glyphs	function	F setfont	
unset_attribute	function	F setlayer	
unsetattribute	function	F setruledglyph	
unsetattributes	function	F setvisual	
usedlist	function	vpack	function
usercodes	data table	whatcodes	data table
uses_font	function	whatsitcodes	data table

write

function

function

function

vianodes

vianuts

number (context)

	function
basepoints	function
bytetodecimal	function
compactfloat	function
decimaltobyte	function
dimenfactors	data table
formatted	function
$for {\tt mattedfloat}$	function
idiv	function
maxdimen	number
nopts	function
percent	function
points	function
pts	function
signed	function
${\tt sparse exponent}$	function
splitdimen	function
to16dot16	function

tobasepoints	function
tobitstring	function
tocentimeters	function
tociceros	function
tocontext	function
todidots	function
todimen	function
toevenhex	function
toinches	function
tomillimeters	function
tonumberf	function
tonumberg	function
topicas	function
topoints	function
toscaled	function
${\tt toscaled points}$	function
valid	function

objects (context)

data table
dimensions function
found function
n number

reference function register function restore function

page function

optional (context)

curl	table	F reset	
F escape		F setclosefile	
F fetch		F setconsole	
F getversion		F setfindfile	
F initialize		F setopenfile	
F unescape		F setreadfile	
ghostscript	table	F setseekfile	
F execute		mysql	table
F initialize		F close	
graphicsmagick	t table	F execute	
F execute		F getmessage	
F initialize		F initialize	
kpse	table	F open	
F expand_brace	S	postgress	table
F expand_path		F close	
F expand_var		F execute	
F find_file		F getmessage	
F find_files		F initialize	
F get_file_type	es	F open	
F initialize		sqlite	table
F readable_file	e	F close	
F set_program_u	name	F execute	
F var_value		F getmessage	
loaded	table	F initialize	
mujs	table	F open	
F dofile		zint	table
F execute		F execute	
F initialize		F initialize	

os (basic lua)

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

package (basic lua)

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

pagebuilders (context)

<pre>columnsets table</pre>	
F 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 sethspan
   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)

 $\textbf{immediateobj} \ \texttt{function}$

pdfe (extra tex)

arraytotable	function
close	function
closestream	function
dictionarytotable	function
encryptioncodes	data table
getarray	function
getboolean	function
getbox	function
getcatalog	function
getdictionary	function
getfromarray	function
${\tt getfromdictionary}$	function
getfromreference	function
getfromstream	function
getinfo	function
getinteger	function
getmemoryusage	function
getname	function
getnofobjects	function
getnofpages	function

getnumber	function	
getpage	function	
getpages	function	
getsize	function	
getstatus	function	
getstream	function	
getstring	function	
gettrailer	function	
getversion	function	
new	function	
objectcodes	data table	
open	function	
openfile	function	
openstream	function	
pagestotable	function	
readfromstream	function	
readwholestream	function	
type	function	
unencrypt	function	

physics (context)

units table

D tables

F registerunit

pngdecode (extra tex)

applyfilter function
expand function
interlace function

splitmask function
tocmyk function

publications (context)

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

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

S S

S T

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

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

F range

F showfields

F showhashedauthors

regimes (context)

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

resolvers (context)

allprefixes	function	findtexfile	function
appendhash	function	findwildcardfile	function
automount	function	findwildcardfiles	function
booleanvariable	function	formatofsuffix	function
cacheversion	string	formatofvariable	function
checkedvariable	function	formats	data table
cleanedpathlist	function	foundintree	function
cleanpath	function	foundintrees	function
cleanpathlist	function	generators	data table
concatinators	data table	get from content	function
configbanner	string	getenv	function
configurationfiles	function	getextrapaths	function
dangerous	data table	getfilehashes	function
datastate	function	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	iobs	table
expandedpathlist	function	F currentcomponent	
expandedpathlistfromvariable		F currentenvironment	
expandpath	function	F currentproduct	
expandpathfromvariable	function	F currentproject	
expansion	function	F justacomponent	
extendtexmfvariable	function	D processors	
filtered_from_content	function	F productcomponent	
find_file	function	F usefile	
find_files	function	joinpath	function
findbinfile	function	knownvariables	function
findctxfile	function	libraries	table
finders	data table	F optionalloaded	
findfile	function	F validoptional	
findfiles	function	load	function
findgivenfile	function	loadbinfile	function
findgivenfiles	function	loaders	data table
findlib	function	loadlualib	function
findpath	function	loadtexfile	function

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

variable

variableofformat

function

function

function

function

function

repath

reset

resetextrapaths

variableofformatorsuffix function wildcardpattern

function

sandbox (context)

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

scripts (context)

autofontfeature table

F disable

F enable

F handler

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 getinjector function function

getsplitter getstatus

function

function

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

sio (extra lua)

read2dot14	function	readfixed2	function
readbytes	function	readfixed4	function
readbytetable	function	readinteger1	function
readcardinal1	function	readinteger1le	function
readcardinal1le	function	readinteger2	function
readcardinal2	function	readinteger2le	function
readcardinal2le	function	readinteger3	function
readcardinal3	function	readinteger3le	function
readcardinal3le	function	readinteger4	function
readcardinal4	function	readinteger4le	function
readcardinal4le	function	readintegertable	function
readcardinaltable	function		

socket (extra lua)

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

S reporting-mta

S resent-b	сс	protect	function
S resent-c	С	report	function
S resent-d	ate	select	function
S resent-f	rom	sink	function
S resent-m	essage-id	sinkt	table
S resent-r	eply-to	F close-when-d	one
S resent-s	ender	F default	
S resent-t	0	F http-chunked	
S retry-af	ter	F keep-open	
S return-p	ath	skip	function
S sender		sleep	function
S server		source	function
S smtp-rem	ote-recipient	sourcet	table
S status		F by-length	
S subject		F default	
S te		F http-chunked	
S to		F until-closed	
S trailer		tcp	function
S transfer	-encoding	tcp4	function
S upgrade		tcp6	function
S user-age	nt	tp	table
S vary		N TIMEOUT	
S via		F connect	
S warning		try	function
S will-ret	ry-until	udp	function
S www-auth	enticate	udp4	function
S x-mailer		udp6	function
F lower		url	table
F normalize		F absolute	
http	table	F build	
N TIMEOUT		F build_path	
S USERAGENT		F escape	
F genericfor	-m	F parse	
F open		F parse_path	
F request		F unescape	
newtry	function		

sorters (context)

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

statistics (context)

${\tt benchmarktimer}$	function
${\tt checkfmtstatus}$	function
currenttime	function
elapsed	function
elapsedindeed	function
elapsedseconds	function
elapsedtime	function
enable	boolean
formatruntime	function
hastiming	function
memused	function
register	function

resettiming	function
runtime	function
savefmtstatus	function
show	function
showmemory	function
showusage	function
starttiming	function
stoptiming	function
threshold	number
timed	function
tracefunction	function

status (basic tex)

getbufferstate	function	getmarksstate	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
getlanguagestate	function	iocodes	table
getlookupstate	function	list	function
getluastate	function	resetmessages	function

storage (context)

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

noftables number
register function
shared data table
storedfunctions data table
strip boolean
tofmodules number
toftables number

streams (context)

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

string (basic lua)

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

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

structures (context)

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

F touserdata		F reordere	ed
inserts	table	T result	
D data		F savedlis	stnumber
F define		F savedlis	stprefixednumber
F getdata		F savedlis	sttitle
F getlocation		D section	olocks
F getname		F sectionr	number
F getnumber		F size	
F setlocation		F title	
F setup		D tobesave	ed
D stored		F userdata	a
itemgroups	table	F uservalı	ıe
lists	table	marks	table
F addto		D data	
F analyze		F define	
B autoreorder		F exists	
D cached		F fetch	
D collected		F fetchall	Lmarks
F discard		F fetched	
F enhance		F fetchone	emark
T enhancers		F fetchtwo	omarks
F filter		F get	
F formulanumber		F number	
F getresult		F relate	
F groupindex		F reset	
F hasnumberdata		F set	
F haspagedata		F show	
F hastitledata		F synchron	nize
F iscached		F title	
D kinds		T tracers	
F label		F showta	ble
F location		notes	table
D names		F check_sp	oacing
F number		F checkpag	gechange
D ordered		F define	
F page		F doifonsa	amepageasprevious
F popnesting		F get	
F prefix		F getdelta	apage
F prefixednumber		F getinter	rnal
F prefixedpage		F getn	
F process		F getstate	2
D pushed		F hasconte	ent
F pushnesting		F internal	L
F realpage		F internal	lid

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

F reset		F define	
D runners		F enhance	
F set		F extend	
F setandgetattribut	·e	F filter	
F setcomponent		F filtercollected	
F setinternalrefere	ence	F finalize	
F setlinkmethod		F findinternal	
F setnextinternal		F flush	
F setnextorder		F get	
F setreferencerealp	page	F prepare	
D specials		F process	
F splitcomponent		F setmethod	
F splitprefix		F sort	
F splitreference		F store	
F synchronizepage		D tobesaved	
T testrunners		F unique	
Finner		F userdata	
F special		sections	table
F special operati	on	F autodepth	
F special operati	on with arguments	F cct	
T testspecials		D collected	
F deltapage		F current	
Fi		F currentblock	
F internal		F currentid	
F page		F currentlevel	
F realpage		F currentsectionin	dex
F section		F depthnumber	
F userpage		F finddata	
D tobereferred		F findnumber	
D tobesaved		F fullnumber	
D tracedpages		F getcurrentlevel	
T urls		F getlevel	
T data		F getnumber	
F define		F internalreferenc	е
F found		D levelmap	
F get		D levels	
F untex		F matchingtilldept	h
D usedinternals		F numberatdepth	
D usedviews		F numbers	
F valid		F popblock	
registers	table	F prefixedconverte	d
F analyze		F pushblock	
D collected		F register	
F compare		D registered	

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

F setsorting
F setsynonym
F settablecell
F settabulatecell
F settagdelimitedsymbol
F settagsubsentencesymbol
F setupexport

F setuserproperties

D specifications
F start
F stop
F strip
D taglist
T usewithcare
T images

table (basic lua)

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

tex (basic tex)

attribute	table	getcount	function
badness	function	getdelcode	function
box	table	getdelcodes	function
boxresources	table	getdimen	function
F getbox	tubte	getdimensionvalue	function
F getdimensions		geterrorvalues	function
F save		getflagvalues	function
F use		getfontoffamily	function
catcode	table	getfrozenparvalues	function
chardef	function	getglue	function
conditionals	data table	getglyphdata	function
constants	data table	getglyphoptionvalues	function
count	table	getglyphscript	function
cprint	function	getglyphstate	function
ctdcatcodes	number	getgroupvalues	function
ctxcatcodes	number	gethelptext	function
definefont	function	gethyphenationvalues	function
delcode	table	getintegervalue	function
dimen	table	getinteraction	function
dimensiondef	function	getiovalues	function
directives	data table	getlargestusedmark	function
enableprimitives	function	getlccode	function
error	function	getlinedir	function
experiments	data table	getlist	function
extraprimitives	function	getlocallevel	function
fatalerror	function	getmark	function
flagcodes	data table	getmath	function
fontidentifier	function	getmathcode	function
fontname	function	getmathcodes	function
forcehmode	function	getmathdir	function
forcesynctexline	function	getmodevalues	function
forcesynctextag	function	getmuglue	function
fprint	function	getmuskip	function
frozenparcodes	data table	getnest	function
get	function	getnormalizevalues	function
getattribute	function	getoutputactive	function
getbox	function	getpagestate	function
getboxdir	function	getpardir	function
getboxresourcebox	function	getsfcode	function
getboxresourcedimensions	function	getskip	function
getcatcode	function	getsynctexline	function

getsynctexmode	function		muskip	table
getsynctextag	function		nest	table
gettextdir	function		nilcatcodes	number
gettoks	function		normalizecodes	data table
getuccode	function		notcatcodes	number
glue	table		number	function
glyphoptioncodes	data table		poplocal	function
groupcodes	data table		primitives	function
hashtokens	function		print	function
hyphenationcodes	data table		prtcatcodes	number
ifs	data table		pushlocal	function
inicatcodes	number		quitlocal	function
integerdef	function		quittoks	function
isattribute	function		resetparagraph	function
isbox	function		romannumeral	function
iscount	overloaded fun	nction	round	function
isdefined	function		runlocal	function
isdimen	overloaded fun	nction	runtoks	function
isglue	function		saveboxresource	function
ismuglue	function		scale	function
ismuskip	overloaded fun	nction	scantoks	function
isprintable	function		set	function
isskip	overloaded fun	nction	setattribute	function
istoken	function		setbox	function
istoks	function		setboxdir	function
lastnodetype	function		setcatcode	function
lccode	table		setcount	function
linebreak	function		setdelcode	function
lists	table		setdimen	function
luacatcodes	number		setdimensionvalue	function
magicconstants	table		setglue	function
N maxdimen			setglyphdata	function
N running			setglyphscript	function
N trueinch			setglyphstate	function
mathchardef	function		setintegervalue	function
mathcode	table		setinteraction	function
modelevels	table		setlccode	function
N horizontal			setlinedir	function
N math			setlist	function
N unset			setmath	function
N vertical			setmathcode	function
modes	data table		setmathdir	function
mprint	function		setmuglue	function
muglue	table		setmuskip	function

setnest function setpardir function setsfcode function setskip function setsynctexline function setsynctexmode function setsynctextag function settextdir function settoks function setuccode function sfcode table shipout function showcontext function skip table sp function **splitbox** function sprint function data table systemmodes

takebox texcatcodes toks tonumber toscaled tpacatcodes tpbcatcodes tprint trackers triggerbuildpage txtcatcodes tvpe uccode uprint useboxresource vrbcatcodes write

number table function function number number function data table function number function table function function number function

function

texconfig (basic tex)

buffer_size	number		max_pool	number
error_line	number		max_print_line	number
expand_depth	number		max_strings	number
firstline	string		nest_size	number
formatname	string		node_size	number
function_size	number		param_size	number
half_error_line	number		<pre>properties_size</pre>	number
hash_extra	number		save_size	number
init	${\tt overloaded}$	function	shell_escape	string
kpse_init	boolean		stack_size	number
max_in_open	number		token_size	number

texio (basic tex)

closeinput function
terminal function

write function
write_nl function

token (basic tex)

accessors	table	get_tok	function
F active		get_tolerant	function
F cmd		getcommandid	function
F cmdchrcs		getcommandvalues	function
F cmdname		getfunctionvalues	function
F command		getprimitives	function
F csname		gobble	function
F expandable		gobble_dimen	function
F frozen		gobble_integer	function
F index		is_defined	function
F name		is_next_char	function
F protected		is_token	function
F range		new	function
create	function	peek_next	function
expand	function	peek_next_char	function
expand_macro	function	<pre>peek_next_expanded</pre>	function
future_expand	function	pop_macro	function
get_active	function	push_macro	function
get_cmdchrcs	function	put_back	function
<pre>get_cmdname</pre>	function	put_next	function
get_command	function	save_lua	function
<pre>get_csname</pre>	function	scan_argument	function
get_cstoken	function	scan_box	function
get_dimension	function	scan_cardinal	function
get_expandable	function	scan_char	function
get_fields	function	scan_cmdchr	function
get_flags	function	scan_cmdchr_expanded	function
get_frozen	function	scan_code	function
get_id	function	scan_csname	function
get_immutable	function	scan_delimited	function
get_index	function	scan_dimen	function
get_instance	function	scan_dimen_argument	function
get_integer	function	scan_float	function
get_macro	function	scan_glue	function
get_meaning	function	scan_integer	function
get_noaligned	function	scan_integer_argument	function
<pre>get_parameters</pre>	function	scan_key	function
<pre>get_permanent</pre>	function	scan_keyword	function
get_primitive	function	scan_keyword_cs	function
get_protected	function	scan_letters	function
get_range	function	scan_luacardinal	function

scan_luainteger	function	scan_value	function
scan_luanumber	function	scan_word	function
scan_next	function	serialize	function
scan_next_char	function	set_char	function
scan_next_expanded	function	set_dimension	function
scan_real	function	set_integer	function
scan_skip	function	set_lua	function
scan_string	function	set_macro	function
scan_token	function	skip_next	function
scan_token_code	function	skip_next_expanded	function
scan_tokenlist	function	type	function
scan_toks	function	undefine_macro	function

tokens (context)

astab	ole	function		U resetct>	scanner
bits		table		U rlap	
N a	active			U secondof	twoarguments
N a	alignmen	t		U setfalse	evalue
N I	begingro	up		U setsecti	onblock.
N o	characte	r		U setupsys	tem
N o	close			U startcol	umns
N o	comment			U starttab	oulate
N e	endgroup	1		U starttit	le
N e	endoflin	e		U startxti	tle
N e	escape			U stopcolu	ımns
N :	ignore			U stoptabu	ılate
N :	invalid			U stoptitl	.e
N 7	letter			U stopxtit	le
Nr	mathshif	t		U texsetup)
N o	open			U xmlw	
N o	other		con	nmands	data table
Νţ	paramete	r	con	npile	function
N s	space		cor	ıstant	function
N s	subscrip	t	cor	verters	table
N s	superscr	ipt		S toboolea	ın
NV	whitespa	ce		S todimen	
cache	•	table		S toglue	
1 U	NC			S tonumber	-
1 U	NR			S tostring	l
U	bf		cre	eate	function
U	color		det	fined	function
U	colordef	alc	fla	ags	function
U	colordef	flc	get	integer	function
U	colordef	flt	get	tters	table
U	colordef	rlt		F box	
U	dofinish	reference		F count	
U	dostartt	ext		F cstoken	
U	finishjo	b		F dimen	
U	firstofo	neargument		F glue	
U	firstoft	woarguments		F macro	
Uģ	gobbleon	eargument		F meaning	
Uģ	goto			F skip	
U :	iftrue			F token	
U :	input		iso	defined	function
U 1	loadfoun	dtypescriptfile	ist	token	function

new	function	Е;	ntogorargument
	function		ntegerargument
pickup	function		schar
popmacro	table	F k	
presets			eyword
T 1 argui			eywordcs
T 1 stri			etters
T 2 argui			ist
T 2 stri			uacardinal
T 3 argui			uainteger
T 3 stri			uanumber
T 4 argui			xmlid
T 4 stri			ext
T 5 stri			extexpanded
T 6 stri			umber
T 7 stri			ptional
T 8 stri	-	•	eek
pushmacro		·	eekchar
scanners	table		eekexpanded
F argume			eal
F argume	ntasis		canclose
F array			canopen
F boolea	n		kip
F box			kipexpanded
F bracke			tring
F bracke			able
F cardin	al		oken
F char			okencode
F cmdchr			okenlist
F cmdchr	expanded		okens
F code			oks
F condit	ional		ralue
F count			box
F csname			verbatim
F delimi	ted		rtop
F dimen		F w	
F dimena	-		ord
F dimens	ion		<pre>teger function rs table</pre>
F float		sette	
F glue		F b	
F gluesp			har
F glueva	lues		count
F hash			limen
F hbox			lue
F intege	r	Fl	ua

F macro F scanglue F skip F scangluespec shortcuts table F scangluevalues T hits F scanhash N active F scanhbox F scaninteger N alignment N begingroup F scanintegerargument N character F scankeyword N close F scankeywordcs N comment F scanletters F scanlist N endgroup N endofline T scanners N escape F argument N ignore F argumentasis N invalid F array N letter F boolean N mathshift F box N open F bracketed N other F bracketedasis F cardinal N parameter N space F char N subscript F cmdchr N superscript F cmdchrexpanded N whitespace F code N close F conditional F inspect F count F csname N open F delimited F report F dimen F scanargument F scanargumentasis F dimenargument F scanarray F dimension F scanboolean F float F scanbox F glue F scanbracketed F gluespec F scanbracketedasis F gluevalues F scancardinal F hash F scanclose F hbox F scancode F integer F scanconditional F integerargument F scancsname F ischar F scandelimited F key F scandimen F keyword F scandimenargument F keywordcs F scandimension F letters

F list	F astable
F luacardinal	T cache
F luainteger	U NC
F luanumber	U NR
F lxmlid	U bf
F next	U color
F nextexpanded	U colordefalc
F number	U colordefflc
F optional	U colordefflt
F peek	U colordefrlt
F peekchar	U dofinishreference
F peekexpanded	U dostarttext
F real	U finishjob
F scanclose	U firstofoneargument
F scanopen	U firstoftwoarguments
F skip	U gobbleoneargument
F skipexpanded	U goto
F string	U iftrue
F table	U input
F token	U loadfoundtypescriptfile
F tokencode	U resetctxscanner
F tokenlist	U rlap
F tokens	U secondoftwoarguments
F toks	U setfalsevalue
F value	U setsectionblock
F vbox	U setupsystem
F verbatim	U startcolumns
F vtop	U starttabulate
F whd	U starttitle
F word	U startxtitle
scannumber	U stopcolumns
scanopen	U stoptabulate
scanoptional	U stoptitle
scanstring	U stopxtitle
scantable	U texsetup
scantokenlist	U xmlw
scantoks	D commands
scanvbox	F compile
scanverbatim	F constant
scanvtop	T converters
scanword	S toboolean
toboolean	S todimen
todimen	S toglue
tokens	S tonumber

F

Т

S tostring F scanbracketed F create F scanbracketedasis F defined F scancardinal F scanclose F flags F getinteger F scancode F scanconditional T getters F box F scancsname F count E scandelimited F scandimen F cstoken F dimen F scandimenargument F glue F scandimension F scanalue F macro F meaning F scangluespec F skip F scangluevalues F token F scanhash F isdefined F scanhbox F istoken F scaninteger F new F scanintegerargument F pickup F scankeyword F popmacro F scankeywordcs T presets F scanletters F pushmacro F scanlist F setinteger F scannumber T setters F scanopen F box F scanoptional F char F scanstring F count F scantable F scantokenlist F dimen F glue F scantoks F lua F scanvbox F scanverbatim F macro F skip F scanvtop T shortcuts F scanword N close F toboolean F todimen F inspect N open F tonumber F tostring F report F scanargument D values F scanargumentasis F tonumber F scanarray F tostrina F scanboolean values data table F scanbox

tracers (context)

printerror function
printwarning function

showlines function

trackers (context)

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

typesetters (context)

alignments	table	T handlers	
F handler		F installhandle	er
F set		F processmath	
breakpoints	table	F set	
F define		F setcolor	
F handler		F setmath	
D mapping		F tomode	
T methods		firstlines	table
T numbers		T actions	
F set		F default	
F setreplaceme	nt	F line	
cases	table	F word	
T actions		F handler	
F handler		F set	
F register		fontkerns	table
F set		F handler	
characteralign	ı table	initials	table
F handler		T actions	
F resetcharact	eralign	F default	
F setcharacter	align	F addanchortoli	.ne
characters	table	F addtoline	
F handler		F calculatedelt	a
T methods		F checkline	
F replacenbsp		F handler	
F replacenbspa	ces	F moveinline	
checkers	table	F set	
F handler		injectors	table
F reset		F check	
F set		T list	
cleaners	table	F mark	
F handler		F reset	
F set		F set	
digits	table	F show	
T actions		italics	table
F handler		F enablemath	
F set		F enabletext	
directions	table	F forcevariant	
F getfences		F handler	
F getglobal		F reset	
F getmethod		F set	
F handler		kerns	table

D factors		E register
		F register F reset
F handler		F reset F split
F keepligature		'
D mapping		F startapply
F set	table	F stopapply
manipulators	table	F stripped
F apply	*	F tostring rubies table
F applyspecifi	cation	
T methods		F attach
F Word		F check
F Words		showsuspects function
F abbreviate		spacings table
F expandedjo	urnal	F define
F lowercase		F handler
F stripperio	d	D mapping
F uppercase		T numbers
T patterns		T frenchpunctuation
U list		T characters
U pair		S name
F splitspecifi		N number
margins	table	F reset
F finalhandler		F set
F globalhandle		F setup
F localhandler		wrappers table
F save		F handler
marksuspects	function	xtables table
paragraphs	table	F cleanup
F addanchortol	ine	F construct
F addtoline		F create
F calculatedel	ta	F finish_row
F checkline		F flush
F handler		F initialize_construct
F moveinline		F initialize_reflow_height
F set		F initialize_reflow_width
periodkerns	table	F next_row
D factors		F reflow_height
F handler		F reflow_width
D mapping		F set_construct
F set		F set_reflow_height
processors	table	F set_reflow_width
F apply		

updaters (context)

apply function
register function

url (context)

addscheme	function	hashed	$ \hbox{function} $
barepath	function	hasscheme	$ \hbox{function} $
construct	function	query	$ \hbox{function} $
decode	function	split	function
encode	function	toquery	$ \hbox{function} $
escape	function	unescape	$ \hbox{function} $
filename	function	unescapeget	$ \hbox{function} $

utf8 (basic lua)

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

utilities (context)

debugger	table	F readtag
F disable	tabte	F setposition
F enable		F size
		F skip
F savestats		•
F showstats		F skiplong
F showtraceback files	table	F skipposition
	table	F skipshort
F close		F writebyte
F getposition		F writecardinal1
F getsize		F writecardinalle
F look		F writecardinal2
F open		F writecardinal2le
F read2dot14		F writecardinal3
F readbyte		F writecardinal3le
F readbytes		F writecardinal4
F readbytetable		F writecardinal4le
F readcardinal		F writeintegerl
F readcardinal1		F writeinteger1le
F readcardinal1le		F writeinteger2
F readcardinal2		F writeinteger2le
F readcardinal2le		F writeinteger3
F readcardinal3		F writeinteger3le
F readcardinal3le		F writeinteger4
F readcardinal4		F writeinteger4le
F readcardinal4le		F writestring
F readcardinaltab	le	formatters table
F readchar		F formatcolumns
F readfixed2		F list
F readfixed4		F stripzeros
F readinteger		garbagecollector table
F readinteger1		F check
F readinteger1le		N criterium
F readinteger2		B enabled
F readinteger2le		ghostscript table
F readinteger3		F convert
F readinteger3le		F statistics
F readinteger4		graphicmagick table
F readinteger4le		F convert
F readintegertable	е	F statistics
F readsignedbyte		graphicsmagick table
F readstring		F convert

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

F pushseed			close	
F reuseseed			getposition	
F setseed			getsize	
F setseedi			getstring	
randomizers	table		look	
F poisson		F	open	
sequencers	table		openstring	
F appendaction		F	read2dot14	
F appendgroup		F	read2dot4	
F compile		F	readbyte	
F disableaction		F	readbytes	
F disablegroup		F	readbytetable	
F enableaction		F	readcardinal	
F enablegroup		F	readcardinal1	
D functions		F	readcardinal2	
F localize		F	readcardinal2le	
F new		F	readcardinal3	
F nodeprocessor		F	readcardinal3le	
F prependaction		F	readcardinal4	
F prependgroup		F	readcardinal4le	
F removeaction		F	readcardinaltabl	e
F replaceaction		F	readchar	
F setkind		F	readfixed2	
F tostring		F	readfixed4	
setters	table	F	readinteger	
F disable		F	readinteger1	
F enable		F	readinteger2	
F initialize		F	readinteger2le	
F list		F	readinteger3	
F new		F	readinteger3le	
F register		F	readinteger4	
F report		F	readinteger4le	
F reset		F	readintegertable	
F show		F	readsignedbyte	
stacker	table	F	readstring	
F new		F	setposition	
storage	table	F	size	
F allocate			skip	
F checked			skipbytes	
F mark			skiplong	
F marked			skipshort	
F setinitializer	S ⁻		ings	table
F sparse	_		collapse	
streams	table		collapsecrlf	
2 - 1 - Gamb			SSECUPSOCI CI	

T formatters		F definetable	
F add		F encapsulate	
F new		F insertaftervalu	e
F newcollect	or	F insertbeforeval	ue
F newrepeate	r	F migratetable	
F nice		F removevalue	
T striplinep	atterns	F replacevalue	
U collapse		templates	table
U prune		F load	
U prune and	d collapse	F replace	
U prune and	d no empty	F replacer	
U prune and	d to space	F resolve	
U retain		zipfiles	table
U retain a	nd collapse	F close	
U retain a	nd no empty	F found	
F striplines		F gunzipfile	
F striplong		F hash	
F tabtospace		F list	
T tracers		F open	
tables	table	F unzip	
F accesstabl	e	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
registerescapeline	function	writespace	function
registerescapepattern	function		

xcomplex (extra lua)

I	function		F sqrt
add	function		F tan
div	function		F tanh
eq	function		F topair
inde	ex table		F tostring
FΙ		F	mul
F _	_add	S	name
F _	_div	F	pow
F _	_eq	F	sub
Т_	_index	F	tostring
F	I	F	unm
F	add	F	abs
F	div	F	acos
F	eq	F	acosh
F	mul	F	arg
S	name	F	asin
F	pow	F	asinh
F	sub	F	atan
F	tostring	F	atanh
F	unm	F	conj
F	abs	F	cos
F	acos	F	cosh
F	acosh	F	exp
F	arg	F	i
F	asin	F	imag
F	asinh	F	log
F	atan	F	new
F	atanh	F	pow
F	conj	F	proj
F	cos	F	real
	cosh		sin
	exp		sinh
F			sqrt
	imag		tan
F	log	F	tanh
F	new	F	topair
	pow		tostring
	proj	mu`	
	real	na	
	sin	poi	
F	sinh	su	b function

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

xdecimal (extra lua)

_add	function	F	min
_band	function	F	minus
_bor	function	F	new
_bxor	function	F	plus
_div	function	F	pow
_eq	function	F	rotate
_index	table	F	setprecision
Fadd		F	shift
Fband		F	sqrt
Fbor		F	tonumber
Fbxor		F	tostring
Fdiv		F	trim
Feq			_le
Tindex		F.	_lt
Fadd		F.	mul
Fband		S	name
Fbor		F.	pow
Fbxor		F	_shl
Fdiv		F	_shr
Feq			_sub
Fle		F.	_tostring
Flt		F	unm
Fmul		Fa	abs
Sname		F	band
Fpow		F	bor
Fshl		F	bxor
Fshr		F	conj
Fsub		F	сору
Ftostrin	g	F	exp
Funm		F	getprecision
F abs		F 1	
F band		F 1	log
F bor		Fr	nax
F bxor		Fr	min
F conj		Fr	minus
F copy		Fı	new
F exp			plus
F getprecis	ion		pow
F ln		F	rotate
F log			setprecision
F max		F s	shift

F sqrt	
F tonumber	
F tostring	
F trim	
le	function
lt	function
mul	function
name	string
pow	function
shl	function
shr	function
sub	function
tostring	function
unm	function
abs	function
band	function
bor	function
bxor	function
conj	function

сору	function
exp	function
getprecision	function
ln	function
log	function
max	function
min	function
minus	function
new	function
plus	function
pow	function
rotate	function
setprecision	function
shift	function
sqrt	function
tonumber	function
tostring	function
trim	function

xmath (extra lua)

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

xml (context)

addentitiesdoctype	function	F fontspecification	
addspecialcode	function	F mappedstylevalue	
after	function	F padding	
all	function	F size	
applylpath	function	F style	
applyselector	function	F stylevalue	
assign	function	F todimension	
attribute	function	F variant	
badinclusions	function	F weight	
before	function	defaulthandlers	table
body	function	D file	
builtinentities	table	D parsedxml	
B amp		D string	
B apos		D tex	
B gt		D texline	
B lt		D texspace	
B quot		D verbose	
cdata	function	defaultprotocol	string
cdatatotext	function	delete	function
checkbom	function	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	expressions	table
content	function	F attribute	
convert	function	F boolean	
сору	function	F child	
count	function	F contains	
cprint	function	F count	
css	table	F error	
F applyselector		F find	
F colorspecification		F hasclass	
F dimension		F idstring	
F family		F lower	

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

inject	function	process	function
inject_element	function	process attributes	function
inject element after	function	process elements	function
inject_element_before		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		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	resolvens	function
makestandalone	function	root	function
match	function	save	function
name	function	selection	function
newhandlers	function	separate	function
nodesettostring	function	serialize	function
originalload	function	serializetotext	function
package	function	setcdata	function
parent	function	setcomment	function
parsedentitylpeg	userdata	sethandlersfunction	function
pihandlers	table	setinjectors	function
F injector		setproperty	function
F tex		settings	function
placeholders	table	specialcodes	table
F unknown_any_entity		S "	
F unknown_dec_entity		S #	
F unknown_hex_entity		S \$	
popmatch	function	S %	
position	function	S &	
privatecodes	table	S '	
privatetoken	function	S <	

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

xzip (extra lua)

adler32 function
compress function
crc32 function

decompress function
expandsize function

zip (extra lua)

archives table
closearchive function

openarchive function
registeredfiles table

zlib (extra lua)

adler32 function
compress function
crc32 function

decompress function
expandsize function