MP attributes backends bit32 blobs boolean buffers builders caches callbacks catcodes characters chemistry commands containers context converters coroutine ctxrunner debug dir dircodes directives document documentdata environment epdf experiments ffi figures file fio floats tom fonts functions global graphics gzip im interactions interfaces io job languages layouts lfs libraries lmx logs lpdf lpeg ltn12 luatex lxml math mathematics md5 metapost mime moduledata modules mp mplib noads nodes number objects os package pagebuilders parametersets pdf pdfscanner physics publications regimes resolvers sandbox scripts set sio socket sorters statistics storage streams string structures table texconditionals texconfing texconstants texifs texisdefined texmodes texsystemmodes thirddata token tokens tracers trackers typesetters unicode url userdata utf8 utilities vf visualizers xml zip zlib

ConT_EXt MkIV

global (alias: _G)

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

layouts	table	rawlen	function
lfs	table	rawset	function
libraries	table	regimes	table
lmx	table	require	function
load	function	requireswiglib	function
loadfile	function	resolvers	table
loadstring	function	ruledspace	function
logs	table	sandbox	table
lpdf	table	scripts	table
lpeg	table	select	function
ltn12	table	set	table
lua	table	setinspector	function
luatex	table	setmetatable	function
lxml	table	sio	table
math	table	socket	table
mathematics	table	sorters	table
md5	table	statistics	table
metapost	table	status	table
mime	table	storage	table
module	function	streams	table
moduledata	table	string	table
modules	table	structures	table
mp	function	swiglib	function
mplib	table	table	table
next	function	tex	table
noads	table	texconditionals	data table
node	table	texconfig	table
nodes	table	texconstants	data table
number	table	texifs	data table
objects	table	texio	table
optionalrequire	function	texisdefined	function
os	table	texmodes	data table
package	table	texsystemmodes	data table
pagebuilders	table	thirddata	table
pairs	function	toboolean	function
parametersets	table	token	table
pcall	function	tokens	table
pdf	table	tonumber	function
pdfscanner	table	tostring	function
physics	table	tracers	table
print	function	trackers	table
publications	table	type	function
rawequal	function	typesetters	table

table

function unicode

rawget

unpack	function	vf	table
url	table	visualizers	table
userdata	table	xml	table
utf	table	xpcall	function
utf8	table	zip	table
utilities	table	zlib	table
V	number		

attributes (context)

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

F handler			N darken	
F register			N difference	
D registered			N exclusion	
D values			N hardlight	
handlers	table		-	
list	data table		N hue	
			N lighten	
markasoverload			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	unse	tvalue	number
	function table		tvalue erlayers	number table
showcurrent	table	view	_	
showcurrent states	table	view N	erlayers	
showcurrent states F disabletrigger	table	vie w N F	erlayers attribute	
showcurrent states F disabletrigger F enabletriggeri	table	view N F D	erlayers attribute cleanup	
<pre>showcurrent states F disabletrigger F enabletriggeri F finalize</pre>	table	view N F D	erlayers attribute cleanup data	table
<pre>showcurrent states F disabletrigger F enabletriggeri F finalize F initialize</pre>	table	view N F D F	erlayers attribute cleanup data define	table
showcurrent states F disabletrigger F enabletriggeri F finalize F initialize F process	table	view N F D F F	erlayers attribute cleanup data define definedlayoutc	table
showcurrent states F disabletrigger F enabletriggeri F finalize F initialize F process F selective	table	view N F D F F	erlayers attribute cleanup data define definedlayoutce enable	table
showcurrent states F disabletriggeri F enabletriggeri F finalize F initialize F process F selective F stacked	table	view N F D F F F F	erlayers attribute cleanup data define definedlayoutce enable forcesupport	table
showcurrent states F disabletriggeri F enabletriggeri F finalize F initialize F process F selective F stacked F stacker	table ing ng	View N F D F F F F F F F	erlayers attribute cleanup data define definedlayoutce enable forcesupport handler	table
showcurrent states F disabletriggeri F enabletriggeri F finalize F initialize F process F selective F stacked F stacker system	table ing ng	View N F D F F F D D	erlayers attribute cleanup data define definedlayoutce enable forcesupport handler hasorder	table
showcurrent states F disabletrigger F enabletriggeri F finalize F initialize F process F selective F stacked F stacker system tooverloads	table ing ng function function	View N F D F F F F F F F F F	erlayers attribute cleanup data define definedlayoutce enable forcesupport handler hasorder listwise	table
showcurrent states F disabletrigger F enabletriggeri F finalize F initialize F process F selective F stacked F stacker system tooverloads transparencies	table ing ng function function	View N F D F F F F F D D D	erlayers attribute cleanup data define definedlayoutce enable forcesupport handler hasorder listwise register	table
showcurrent states F disabletrigger F enabletriggeri F finalize F initialize F process F selective F stacked F stacker system tooverloads transparencies N attribute	table ing ng function function	View N F D F F F F D F F F F F F F F F F F	erlayers attribute cleanup data define definedlayoutce enable forcesupport handler hasorder listwise register registered	table
showcurrent states F disabletriggeri F enabletriggeri F finalize F initialize F process F selective F stacked F stacker system tooverloads transparencies N attribute D data	table ing ng function function	View N F D F F F D F F F F F F F F F F F F	erlayers attribute cleanup data define definedlayoutce enable forcesupport handler hasorder listwise register registered resolve_begin	table
showcurrent states F disabletrigger F enabletriggeri F finalize F initialize F process F selective F stacked F stacker system tooverloads transparencies N attribute D data F enable	table ing ng function function	View N F D F F F F F F F F F F F F F F F F	erlayers attribute cleanup data define definedlayoutce enable forcesupport handler hasorder listwise register registered resolve_begin resolve_end	table
showcurrent states F disabletrigger F enabletriggeri F finalize F initialize F process F selective F stacked F stacker system tooverloads transparencies N attribute D data F enable F forcesupport	table ing ng function function	View N F D F F F F F F F F F F F F F F F F	erlayers attribute cleanup data define definedlayoutce enable forcesupport handler hasorder listwise register registered resolve_begin resolve_end resolve_reset	table
showcurrent states F disabletrigger F enabletriggeri F finalize F initialize F process F selective F stacked F stacker system tooverloads transparencies N attribute D data F enable F forcesupport F handler	table ing ng function function	View N F D F F F F F F F D F F D F F F F F	erlayers attribute cleanup data define definedlayoutce enable forcesupport handler hasorder listwise register registered resolve_begin resolve_end resolve_reset resolve_step	table
showcurrent states F disabletrigger F enabletriggeri F finalize F initialize F process F selective F stacked F stacker system tooverloads transparencies N attribute D data F enable F forcesupport F handler T names	table ing ng function function	View N F D F F F F F D F D F F F F F F F F	derlayers attribute cleanup data define definedlayoutce enable forcesupport handler hasorder listwise register registered resolve_begin resolve_end resolve_reset resolve_step scopes	table
showcurrent states F disabletrigger F enabletriggeri F finalize F initialize F process F selective F stacked F stacker system tooverloads transparencies N attribute D data F enable F forcesupport F handler T names N color	table ing ng function function	View N F D F F F F D F F F F F F F F F F F	derlayers attribute cleanup data define definedlayoutce enable forcesupport handler hasorder listwise register registered resolve_begin resolve_end resolve_reset resolve_step scopes setfeatures	table

- B supported
- D values

backends (context)

F fieldsurrounding

codeinjections table F getbookmarks F boxresourcedimensions F getdefaultfieldvalue F getfieldcategory F registerboxresource F restoreboxresource F aetfieldset current strina F getformatoption defaults table F gethpos T codeiniections F getinfo F gethpos F getmatrix F getoutputfilename F getmatrix F getpos F getpos F aetypos F getpreviewfigure F hasmatrix F aetypos T nodeinjections F hasmatrix T registrations F insertrenderingwindow D tables F mergebookmarks included table F mergecomments B context F mergefields B date F mergereferences B id F mergeviewerlayers B metadata F prerollreference B pdf F presetsymbol install function F presetsymbollist nodeinjections table F processrendering F registerdocumentcloseaction F restore F save F registerdocumentopenaction F transform F registeredsymbol function nothing F registerpagecloseaction pdf table F registerpageopenaction T codeiniections F registersymbol F addbookmarks F setfieldcalculationset F analyzenormalsymbol F setfigurealternative F analyzesymbol F setfigurecolorspace F attachmentid F setfiguremask F clonefield F setformat F definefield F setformsmethod F definefieldset F setpagetransition F defineviewerlaver F setupcanvas F embedfile F setupidentity F enabletags F setxmpfile F exportformdata F startlaver

F startunicodetoactualtext

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

F insertmovie T tables

F insertsound D vfspecials registrations F insertswf F insertu3d

tables table timestamp function F knockout

table

bit32 (basic lua)

arshift	function	extract	function
band	function	lrotate	function
bnot	function	lshift	function
bor	function	replace	function
btest	function	rrotate	function
bxor	function	rshift	function

blobs (context)

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

boolean (context)

tocontext function
tonumber function

buffers (context)

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

F define

F hassomecontent

F next
F place
F reset
F save

prepend function
raw function
run function
undent function

builders (context)

kernel	table	F reset
F hyphen	nation	F set
F kernin	ng	F split
F ligatu	ıring	F start
F mlist_	to_hlist	F stop
T origin	nals	F tag
F hyph	enate	profiling table
F kern	ing	F add
F liga	turing	F distance
paragraph	ı s table	F fixedprofile
T constr	uctors	F get
N attr	ibute	F list
F defi	ne	F pagehandler
F disa	ble	F profilebox
F enab	le	F set
F hand	ler	vspacing table
T meth	ods	F analyze
F bas	sic	D categories
F de	fault	F collapsevbox
F hpa	ack	T data
F one	eline	D map
D name		D skip
D numb	ers	D snapmethods
F set		F definesnapmethod
F star	t	B fixed
F stop		F forcestrutdepth
T expans	ion	F pagehandler
F trac		F setmap
F keepto	-	F setskip
	ertogether	F snapbox
T soluti		F synchronizepage
T spli		F tocategories
F det		F tocategory
	timize	F vboxhandler
T reg	gistered	

caches (context)

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

callback (basic tex)

find function
list function

register overloaded function

callbacks (context)

freeze	function	В	insert_local_par
known	function	В	kerning
list	data table	В	ligaturing
рор	function	В	linebreak_filter
push	function	В	mlist_to_hlist
register	function	В	open_read_file
report	function	В	post_linebreak_filter
supported	table	В	pre_dump
B append	_to_vlist_filter	В	pre_linebreak_filter
B build_p	page_insert	В	pre_output_filter
B buildpa	nge_filter	В	process_input_buffer
B call_e	lit	В	process_jobname
B contrib	oute_filter	В	process_output_buffer
B define	_font	В	process_rule
B find_c:	dmap_file	В	read_cidmap_file
B find_da	ata_file	В	read_data_file
B find_e	nc_file	В	read_enc_file
B find_fo	ont_file	В	read_font_file
B find_fo	ormat_file	В	read_map_file
B find_i	nage_file	В	read_opentype_file
B find_ma	p_file	В	read_pk_file
B find_o	entype_file	В	read_truetype_file
B find_o	rtput_file	В	read_typel_file
B find_pl	_file	В	read_vf_file
B find_re	ead_file	В	show_error_hook
B find_t	ruetype_file	В	show_error_message
B find_ty	/pel_file	В	show_lua_error_hook
B find_v	_file	В	show_warning_message
B find_w	rite_file	В	start_file
B finish	_pdffile	В	start_page_number
B finish	_pdfpage	В	start_run
B finish	_synctex	В	stop_file
B glyph_r	not_found	В	stop_page_number
B glyph_s	stream_provider	В	stop_run
B hpack_	filter		vpack_filter
B hpack_d	quality	В	vpack_quality
B hyphena	ite	В	wrapup_run

catcodes (context)

names data table
numbers data table

register function

characters (context)

activeoffset	number	is spacing	data table
adobename	function	lcchars	data table
bidi	data table	lccode	function
blockrange	function	lccodes	data table
blocks	data table	lettered	function
casemap	table	lhash	data table
categories	data table	linebreaks	data table
category	function	lower	function
categorytags	data table	mathlists	data table
classifiers	table	mirrors	table
collapsed	data table	otfscripts	data table
contextname	function	private	table
csletters	data table	ranges	data table
data	data table	registerentities	function
decomposed	data table	remap hangul syllabe	function
description	function	setactivecatcodes	function
descriptions	data table	setlettercatcodes	function
detailtags	data table	shape	function
directions	table	shaped	function
emoji	table	shash	data table
F compact		shchars	data table
F known		shcodes	data table
F resolve		showstring	function
emojized	function	specialchars	data table
enccodes	data table	specials	data table
entities	data table	splits	table
fallbacks	data table	T char	
filters	data table	T compat	
fractions	table	subscripts	table
fromnumber	function	superscripts	table
fschars	data table	synonyms	data table
fscodes	data table	tex	table
getrange	function	D accentmapping	
graphemes	data table	D commandmapping	
hangul	data table	F defineaccents	
initialize	function	F safechar	
is_character	data table	F toutf	
is_command	data table	F toutfpattern	
is_letter	data table	textclasses	table
is_mark	data table	tonumber	function
is_punctuation	data table	ucchars	data table

uccodefunctionuccodesdata tableuhashdata table

unicodechar upper function function

chemistry (context)

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

moleculefunctionmoleculeparseruserdatastartfunctionstopfunctionstructuresnumberundefinefunction

containers (context)

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

converters (context)

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

verbose	table	word	function
D data		words	function
F translate		year	function
weekday	function		

coroutine (basic lua)

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

ctxrunner (context)

load function prepfiles data table
preparedfile function resolve function

debug (basic lua)

debug	function	sethook	function
gethook	function	setlocal	function
getinfo	function	setmetatable	function
getlocal	function	setupvalue	function
getmetatable	function	setuservalue	function
getregistry	function	traceback	function
getupvalue	function	upvalueid	function
getuservalue	function	upvaluejoin	function

dir (context)

collectpattern	function	globpattern
current	function	ls
expandname	function	makedirs
found	function	mkdirs
glob	function	рор
globdirs	function	push
alohfiles	function	

function

function function function function

directives (context)

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

document (context)

arguments files **functions** getargument getfilename options

data table table table function function table

D modes D modules

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

T commandline D environments

D modes D modules T ctxfile

environment (context)

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

epdf (extra tex)

AttributeOwner_Type function
Attribute_Type function
Object_Type function
StructElement_Type function

open
openMemStream
type

overloaded function
function
function

experiments (context)

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

register function report function show function value function

figures (context)

F kevs

F new

applvratio function F node badname function F ofindex bases data table F package bitmapimage function F print boxnumber number F scan data table cachepaths F serialize check function F tonode checkers data table F totable converters data table F types current function F write defaultdepth number include function defaultheight number includers data table initialize defaultsearch hool ean function defaultwidth number loaded data table done function localpaths data table function data table dummv magics existers data table mergegoodies function exists function nofmissing number formats data table nofprocessed number found data table order data table data table function get paths data table aetinfo function patterns getpdfinfo function pop function getrealpage function preferguality hoolean data table function programs auess function hash function push identifiers data table registerpattern function identify function registerresource function registersuffix images table function resources data table F boxes scale function F check function F checksize set setlookups function F clone setmemstream function F copy setorder function F immediatewrite function F immediatewriteobject setpaths

suffixes

used

data table

data table

file (basic lua)

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

fio (extra lua)

checkpermission	function	readfixed4	function
getposition	function	readinteger1	function
read2dot14	function	readinteger2	function
readbytes	function	readinteger3	function
readbytetable	function	readinteger4	function
readcardinal1	function	readline	function
readcardinal2	function	recordfilename	function
readcardinal3	function	setposition	function
readcardinal4	function	skipposition	function
readfixed2	function		

floats (context)

analysemethod	function	nofstacked	function
${\tt checked page float}$	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	id	function
current	function	max	function
define	function	nextid	function
each	function	read_tfm	function
fonts	table	read_vf	function
frozen	function	setexpansion	function
getfont	overloaded function	setfont	function

fonts (context)

-		
analyzers	table	F currentfonthasfeature
D features		D designsizes
D initializers		D dontembed
D methods		F enhanceparameters
F setstate		T enhancers
D states		T afm
B useunicodemarks		F apply
checkers	table	F patch
F getmissing		T patches
F missing		F register
F placeholder		F report
cid	table	F register
F getmap		F report
F loadfile		T otf
collections	table	F addfeature
F checkenabled		F apply
F clonevector		F enhance
F define		F patch
T definitions		T patches
F found		F register
F prepare		F report
F process		F register
F registermain		F report
F report		T tfm
F reset		F apply
T vectors		F patch
constructors	table	T patches
F addcharacters		F register
F addcoreunicodes	S	F report
F aftercopyingch	aracters	F register
F applymanipulato	ors	F report
F assignmathpara	neters	N factor
B autocleanup		T features
F beforecopyingch	haracters	D afm
D cache		D otf
B cacheintex		D tfm
F calculatescale		F finalize
F checkedfeatures	S	F getfeatureaction
F checkedfilename	e	F getprivate
F cleanuptable		T handlers
F collectprocesso	ors	T afm

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

F cff2 F getfactors F cffcheck F getscales F checkhash F gotodatatable F cmap F normalizedaxis F colr T normalizedaxishash F readvariationdata F compact F cpal F reportskippedtable F ebdt F setvariabledata F eblc F hhea F ebsc F hmtx F hvar F expand F kern F extend F fvar F loadfont F gdef F loadshapes F getcomponents F loca F getinfo F math F glyf F maxp F mvar F gpos 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 stat F pair F single T streamreader F gsub F close T qsubhandlers F getposition F alternate F getsize F chainedcontext F look F context F open F extension F read2dot14 F readbyte F ligature F multiple F readbytes F reversechainedcontextsingle F readbytetable F single F readcardinal F gvar F readcardinal1 F head F readcardinal2 T helpers F readcardinal2le F axistofactors F readcardinal3 F cleanname F readcardinal3le F getaxisscale F readcardinal4

F readcardinal4le	T statistics
F readchar	D usedfeatures
F readfixed2	F storepdfdata
F readfixed4	T svg
F readinteger	F filterglyph
F readintegerl	F topdf
F readinteger2	D svgcache
F readinteger2le	B svgenabled
F readinteger3	T tables
F readinteger3le	D baselines
F readinteger4	D features
F readinteger4le	D featuretypes
F readsignedbyte	D languages
F readstring	D scripts
F readtag	N version
F setposition	T pfb
F size	F loadvector
F skip	T tfm
F skiplong	F addtounicode
F skipposition	D features
F skipshort	N maxnestingdepth
F writebyte	N maxnestingsize
F writecardinal2	F reencode
F writecardinal4	F setfeatures
F writestring	N version
F svg	T vf
N tableversion	T combinations
F unifymissing	F combine
F unpack	T combiner
F vhea	D commands
F vmtx	D helpers
F vorg	D math
F vvar	D predefined
F woff2otf	N version
registerpalette	D whatever
registerplugin	F hashfeatures
reorderlookups	F hashinstance
sbix	T hashmethods
F topdf	F normal
sbixcache	F virtual
sbixenabled	F initializefeatures
scriptandlanguage	T keys
setdynamics	T characters
setfeatures	T descriptions

F

Т

D

F F

T. a. a. a. a. a.	S	
T parameters	S name	
S ascender	S noglyphnames	5
S descender	S nostackmath	
S designsize	S psname	
T expansion	S textitalics	
S auto	S virtualized	
S shrink	D loadedfonts	
S step	S namemode	
S stretch	N noffontsloaded	
S extendfactor	N nofsharedfonts	
S factor	N nofsharedhashes	
S hfactor	N nofsharedvector	`S
S mathsize	N privateoffset	
T protrusion	D privateslots	
S auto	F readanddefine	
S quad	F registerfeature	
S scaledpoints	F resetfeature	
S scriptpercentage	B resolvevirtualt	:00
S scriptscriptpercentage	F scale	
S size	F scaled	
S slantfactor	F setfactor	
S slantperpoint	F setfeature	
T spacing	F setname	
S extra	B sharefonts	
S shrink	F trytosharefont	
S stretch	N version	
S width	current	function
S units	currentid	function
S vfactor	definers	table
S xheight	F addlookup	
T properties	F analyze	
S autoitalicamount	F applypostproces	sors
S cidinfo	F checkedmode	
S embedding	F checkedscript	
S encodingbytes	F current	
S filename	S defaultlookup	
S finalized	F define	
S fontname	F getspecification	on
S format	F internal	
S fullname	F loadfont	
S hasitalics	F makespecificati	.on
S hasmath	T methods	
S mathitalics	F install	
S mode	D variants	

F read		T data	
F register		T dejavu-math	
F registered		S author	
F registersplit		S comment	
F resetnullfont		S copyright	
F resolve		B initialized	
T resolvers		T mathematics	
F file		T alternate	S
F name		T dotless	
F spec		S commen	t
definetypeface	function	S featur	е
encodings	table	N value	
T agl		T kerns	
D ctxcodes		S name	
D extras		S version	
D names		D designsizes	
D synonyms		D filenames	
D unicodes		F getcomposition	S
D cache		T list	
F is_known		F load	
D known		F prepare_featur	es
F load		F register	
F make_unicode_ve	ctor	F registerpostpr	ocessor
D math		F report	
N version		T suffixes	
enhanceid	function	handlers	table
expansions	data table	hashes	table
formats	data table	D characters	
getalternate	function	D classes	
getkern	function	D csnames	
getmultiple	function	D descriptions	
getsubstitution	function	D dynamics	
getters	table	D emwidths	
T alternate		D exheights	
F opentype		D extensibles	
T kern		D features	
F opentype		D identifiers	
F type1		D italics	
T multiple		D lastmathids	
F opentype		D marks	
T substitution		D modes	
F opentype		D modes D originals	
	table	D modes	

D properties			F format	
D quads			F onetimemessa	age
D resources			F register	
T setdynamics			F reportdefine	edfonts
T shapes			F reportusedfe	
D spaces		п	nappings	table
D spacings			F addtounicode	
T streams			F fromunicode	
D unicodes			F loadfile	
D variants			F loadline	
D xheights			F makenamepars	ser
helpers	table		D overloads	
F addextraprivate	e		F reset	
F addprivate			F tounicode	
F checkflags			F tounicode16	
F checkmerge			F tounicode16s	sequence
F checksteps		n	netapost	table
F descriptiontos	lot		F boundingbox	
F dimenfactor			F boxtomp	
F expandglyph			F draw	
F fontpatternhas	size		F fill	
F getcoloredglyp	hs		F maxbounds	
F getdigitwidth			F output	
F getinstancespe	С		F paths	
F getparameters			F widthline	
F getprivatechar	ornode		F zeroline	
F getprivatenode		n	np	table
F getprivates			D cache	
F getprivateslot			B inline	
F hasprivate			N version	
F indextoslot		r	names	data table
F name		r	nulldata	data table
F nametoslot		ı	rotrusions	data table
F setdigitwidth		ı	readers	table
F splitfontpatte	rn		F afm	
F tochar			F check_lua	
infofont	function		F check_tfm	
iterators	table		F lua	
F characters			F ofm	
F descriptions			F opentype	
F glyphs			F otf	
loggers	table		F pfb	
F add_placeholde	rs		D sequence	
D category_to_pla	aceholder		F tfm	

F	ttc		spec	ifiers	table
F	ttf		D	contextmerged	
F	woff		F	contextnumber	
rese	rveid	function	D	contextnumbers	
sele	ct	table	D	contextsetups	
D	alternatives		F	contexttostring	
F	bodyfont		F	definecontext	
D	data		F	mergecontext	
F	default		F	presetcontext	
D	defaults		F	registercontext	
F	definefallbackfa	mily	F	showcontext	
F	definefontfamily		F	splitcontext	
F	definefontfamily	preset	D	synonyms	
D	extras		D	variants	
F	fallback		symb	ools	table
D	fallbacks		Т	emoji	
F	features			F checked	
F	filefallback			F resolved	
F	fontdata		F	uselibrary	
F	fontfallback		tabl	Les	table
F	fontsynonym		D	data	
F	goodies		F	savefont	
F	mathfallback		F	saveoriginal	
D	methods		trac	cers	table
D	presets		trea	atments	table
F	registerfallback		F	applyfixes	
F	registerfiles		D	data	
F	registerfontalte	rnative	S	filename	
F	registerfontfami	ly	F	ignoredfile	
F	textfallback		F	report	
F	typeface		F	trace	

F typescript F userdata typefaces table

functions (context)

dummy function

graphics (context)

backgrounds table

F fetchmultipar

F pair

F path

F point

gzip (extra lua)

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

img (basic tex)

boxes	function	ofindex	function
check	function	package	function
checksize	function	print	function
clone	function	scan	function
сору	function	serialize	function
immediatewrite	function	tonode	function
immediatewriteobject	function	totable	function
keys	function	types	function
new	function	write	function
node	function		

interactions (context)

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

interfaces (context)

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

F define

F list

writestatus

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

function

io (basic lua)

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

loadchunk function
loaddata function
loadlines function
noflines function

open overloaded function
output overloaded function

pathseparator string

function

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

write

job (context)

comment	function	F check	
datasets	table	D collected	
D collected		F count	
F extend		F define	
F getdata		F find	
F setdata		F first	
D tobesaved		F get	
disablesave	function	F getcollected	
embedded	table	F getdata	
D collected		F getfield	
D tobesaved		F gettobesaved	
fileobjreferences	table	F inlist	
D collected		F last	
D tobesaved		F list	
files	table	F save	
D collected		F savetagged	
F context		D tobesaved	
B forcerun		positions	table
F run		F b_column	
D tobesaved		F b_region	
getrandomseed	function	Fc	
initialize	function	D collected	
load	function	F column	
loadother	function	F copy	
objects	table	F depth	
D collected		F e_column	
F get		F e_region	
F number		F enhance	
F page		F extra	
F save		T free	
F set		F get	
D tobesaved		F getreserved	
pack	boolean	F gettobesaved	
packversion	number	F hangafter	
pagestates	table	F hangindent	
D collected		F height	
F extend		F hsize	
F realpage		F leftskip	
F setstate		F lowerleft	
D tobesaved		F lowerright	
passes	table	F markregionbox	

Fη		F xy	
F on	nsamepage	Fy	
F ov	verlapping	register	function
Fр		save	function
T pa	age	structure	table
F pa	aragraph	D collected	
F pa	arindent	T components	
F po	osition	T tobesaved	
Fr		T branches	
F re	egion	S name	
F re	eplace	S type	
F ri	ightskip	variables	table
F se	et	D checksums	
F se	etall	D collected	
F se	etregionbox	F getchecksum	
D to	bbesaved	F makechecksum	
F up	pperleft	F restore	
F up	pperright	F save	
S us	sed	F setchecksum	

D tobesaved

number

version

F whd

F x

F width

lang (basic tex)

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

languages (context)

	£ation		
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		unload	function
F popmethod		urls	table
F pushmethod		D characters	
F setmethod		N lefthyphenmin	
F setup		D mapping	
F showhyphenationtrace		B packslashes	
T traditional		N righthyphenmin	
F definefeatures		F setcharacters	
F gettrace		version	number
F hyphenate		visualizediscretionaries	function
F injecthyphens		words	table
F installmethod		F check	
F lasttrace		T data	
F loadpatterns		F disable	
F registerexception		F enable	

T enablers
B enables
F found

N threshold

T methods

F load

layouts (context)

status table
 F isleftpage

F leftorrightpageaction

lfs (extra lua)

lock dir

attributes overloaded function chdir overloaded function currentdir function dir overloaded function overloaded function isdir isfile overloaded function isfound function link overloaded function lock function

overloaded function

mkdir overloaded function mkdirs function readlink overloaded function rmdir overloaded function setmode overloaded function shortname overloaded function symlinkattributes overloaded function touch overloaded function unlock function

libraries (context)

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

extratex data table
functions data table
globals data table

lmx (context)

color	function	
convert	function	
convertfile	function	
convertstring	function	
einject	function	
eprint	function	
escape	function	
finalized	function	
finject	function	
fprint	function	
get	function	
getvariables	function	
htmfile	function	
html	table	
Fa		
F td		
F th		
include	function	
inherited	table	
S color-background-four		

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

initialize	function
inject	function
lmxfile	function

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

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

logs (context)

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

lpdf (context)

action	function	docstring	function
adddocumentcolorspace	function	epdf	table
adddocumentextgstate	function	F contenttotext	
adddocumentpattern	function	F expand	
adddocumentshade	function	F expanded	
addtocatalog	function	F getpagecontent	
addtoinfo	function	F getstructure	
addtonames	function	F load	
addtopageattributes	function	F unload	
addtopageresources	function	escaped	function
addtopagesattributes	function	finalizedocument	function
addxmpinfo	function	finalizepage	function
annotationspecification	function	finishtransparencycode	function
array	function	flags	table
boolean	function	T annotations	
border	function	N AutoView	
checkedkey	function	N Hidden	
checkedvalue	function	N Invisible	
circularshade	function	N Locked	
cmykcode	function	N LockedContents	
collectedresources	function	N NoRotate	
color	function	N NoView	
colorspace	function	N NoZoom	
colorspaceconstants	data table	N Print	
colorspec	function	N Printable	
colorvalue	function	N ReadOnly	
colorvalues	function	N ToggleNoView	
compresslevel	function	N auto	
constant	function	N hidden	
copyarray 	function	N printable	
copyboolean	function	T widgets	
copyconstant	function	N Comb	
copydictionary	function	N CommitOnSelChange	
copyfloat	function	N DoNotScroll	
copyinteger	function	N DoNotSpellCheck	
copynumber	function	N Edit	
copystring	function	N FileSelect	
copyunicode	function	N MultiLine	
delayedobject	function	N NoExport	
destinationspecification	function	N NoToggleToOff	
dictionary	function	N Password	

N PopUp		number	function
N PushButton		objectcompresslevel	function
N Radio		pagereference	function
N RadiosInUnison		patternstream	function
N ReadOnly		pdfcolor	function
N Required		pdftimestamp	function
N RichText		permitdetail	function
N Sort		protectresources	boolean
N file		rectangle	function
N fixed		reference	function
N nocheck		registerannotation	function
N protected		registerdestination	function
N readonly		registerdocumentfinalizer	function
N required		registerpagefinalizer	function
N sorted		registerpattern	function
N unavailable		reserveobject	function
flushobject	function	rgbcode	function
flushstreamfileobject	function	rotationcm	function
flushstreamobject	function	setcompression	function
formats	data table	setdates	function
frompdfdoc	function	settime	function
fromsixteen	function	settrailerid	function
getcompression	function	setversion	function
gethpos	function	shareobject	function
getmatrix	function	shareobjectreference	function
getpos	function	spotcode	function
getversion	function	stream	function
getvpos	function	string	function
graycode	function	timestamp	function
hasmatrix	function	toeight	function
id	function	topdfdoc	function
injectxmpinfo	function	tosixteen	function
insertxmpinfo	function	transform	function
layerreference	function	transparency	function
limited	function	transparencycode	function
linearshade	function	transparencygroups	table
majorversion	function	B none	
minorversion	function	transparencyvalue	function
nametree	function	unicode	function
null	function	verbose	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
counter	function	utfchartabletopattern	function
endstripper	function	version	function
finder	function		

ltn12 (extra lua)

BLOCKSIZE	number	F	simplify	
filter	table	F	table	
F chain		sour	ce	table
F cycle		F	cat	
pump	table	F	chain	
F all		F	empty	
F step		F	error	
sink	table	F	file	
F chain		F	rewind	
F error		F	simplify	
F file		F	string	
F null				

lua (basic tex)

bytecode	table	F reset	
bytedata	data table	F resolvestring	
bytedone	table	F resolving	
B page-cst		mask	string
collectgarbage	function	messages	data table
delay	function	name	table
finalize	function	newtable	function
firstbytecode	number	numbers	data table
flush	function	registercode	function
flushdelayed	function	registeredcodes	function
<pre>get_functions_table</pre>	function	registerfinalizer	function
getbytecode	function	registername	function
getluaname	function	setbytecode	function
lastbytecode	number	setluaname	function
macros	table	startupfile	string
B enabled		version	string

luatex (context)

F collect

F disable

cleanuptempfiles function F enable currentfile function F finish registerdumpactions function F pause registerpageactions function F registerdisabler registerstartactions function F registerenabler registerstopactions function F resetfilename registertempfile function F resume starttime number F setfilename synctex table F setup F blockfilename F start

F stop

F wrapup

lxml (context)

- 442 - 4	for the co	£1h	£
addindex	function	flush	function
all	function	flushlinewise	function
applyfunction	function	flushsetups	function
applyselectors	function	flushspacewise	function
att	function	get_id	function
attribute	function	getid	function
badinclusions	function	getindex	function function
chainattribute	function	id	
checkindex	function	idsplitter	userdata
collected	function	include	function
command	function	inclusion	function
concat	function	inclusions	function
concatrange	function	index	function
content	function	inlineverbatim	function
context	function	installsetup	function
convert	function	last	function
count	function	lastatt	function
delete	function	lastmatch	function
direct	function	lastpar	function
directives	table	load	function
F after		loadbuffer	function
F before		loaddata	function
F handle		loaded	table
F load		main	function
F setup		match	function
displayverbatim	function	name	function
doif	function	namespace	function
doifelse	function	nonspace	function
doifelseempty	function	par	function
doifelsetext	function	param	function
doifempty	function	parameter	function
doifnot	function	path	function
doifnotempty	function	popmatch	function
doifnottext	function	pos function	
doiftext	function	<pre>position function</pre>	
element	function	pure function	
elements	function	pushmatch funct	
entities	data table	r aw func	
filter	function	rawroot fu	
filterlist	function	rawtex	function
first	function	refatt	function

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

math (basic lua)

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

mathematics (context)

addfallbacks	function	mapremap	data table
alphabets	data table	overloaddimensions	function
alternatives	data table	overloadparameters	function
big	function	privatebase	number
boldmap	data table	registerdomain	function
categories	table	registerfallbackid	function
D functions	cabec	remapalphabets	function
charactersets	data table	renderings	table
checkaccentbaseheight	function	D mappings	10010
checkprivateparameters	function	D numbers	
classes	data table	D sets	
codes	data table	renderset	function
define	function	resetattributes	function
dimensions	function	resetitalics	function
domains	table	resolvefallbacks	function
extensiblecode	function	scaleparameters	function
extensibles	data table	setdomain	function
extrabase	number	setitalics	function
extras	table	setridofprime	function
F add		sets	data table
F copy		styles	data table
fallbacks	table	syncboth	function
F apply		syncname	function
F install		syncstyle	function
fallbackstyleattr	function	toname	function
families	data table	tostyle	function
finishfallbacks	function	tweakaftercopyingfont	function
gaps	data table	tweakbeforecopyingfont	function
getboth	function	tweaks	table
getdomain	function	utfmathaccent	function
getitalics	function	utfmathclass	function
getridofprime	function	utfmathcommand	function
getstyle	function	utfmathfiller	function
horizontalcode	function	utfmathstretch	function
initializeparameters	function	virtualize	function
makefont	function	virtualized	data table

md5 (extra lua)

HEX	function
crypt	function
dec	function
decrypt	function
exor	function

hex function
sum function
sumHEXA overloaded function
sumhexa overloaded function

metapost (context)

analyzeplugins	function	getstatistics	function
checkformat	function	gettext	function
checktexts	function	graphic	function
collapse	boolean	graphic_base_pass	function
colorinitializer	function	initializescriptrunner	function
comment	function	instance	function
convert	function	intermediate	table
defaultformat	string	T actions	
defaultinstance	string	F makempy	
defaultmethod	string	lastlog	string
directrun	function	load	function
escaped	function	makempy	table
exectime	table	N nofconverted	
extensiondata	data table	F processgraphics	
filterclippath	function	F registerfile	
flush	function	maketext	function
flushers	table	metafun	table
T pdf		F interpolate	
F comment		F topath	
F flushfigure		method	number
F startfigure		mptopdf	table
F stopfigure		F convertmpstopdf	
F textfigure		N nofconverted	
flushliteral	function	n	number
flushnormalpath	function	nvformat	function
flushreset	function	optimize	boolean
fonts	table	parse	function
F define		pdfliterals	function
T flusher		pluginactions	function
F flushfigure		popvariable	function
F startfigure		popvariables	function
F stopfigure		process	function
N instances		processplugins	function
F process		processspecial	function
format	function	properties	table
format_number	function	pushvariable	function
format_string	function	pushvariables	function
formatnumber	function	quickanddirty	function
getclippath	function	reducetogray	boolean
getextensions	function	reporterror	function
getjobdata	function	reset	function

resetlastlog	function
resetplugins	function
runscript	function
scripterror	function
setextensions	function
setoutercolor	function
settext	function
setvariable	function
showlog	boolean
simple	function
startgraphic	function
stopgraphic	function
svformat	function
tex	table

F setfrombuffer	
texerrors	boolean
texexp	function
textextsdata	function
theclippath	function
tographic	function
totable	function
unload	function
untagvariable	function
variables	table

F get F reset F set

mime (extra lua)

b64 decode decodet	function function table	qp qpwrp stuff	function function function
F base64		unb64	function
F quoted-	printable	unqp	function
dot	function	wrap	function
encode	function	wrapt	table
encodet	table	F base64	
F base64		F defaul	t
F quoted-	printable	F quoted	printable
eol	function	F text	
normalize	function	wrp	function

mp (context)

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

datasets	table	positionbox	function
F load		positioncurve	function
defaultcolormodel	function	positionpage	function
dimension	function	positionpath	function
disposehash	function	positionpxy	function
disposestore	function	positionregion	function
finish_saving_data	function	positionwhd	function
format	function	positionxy	function
formatted	function	prefix	function
fprint	function	print	function
fromstore	function	processingmode	function
get	table	quadruple	function
F boolean		quoted	function
F number		report	function
F numeric		save_data	function
F string		setcount	function
get_outline_text	function	setdimen	function
getcount	function	settoks	function
getdimen	function	size	function
gettoks	function	start_saving_data	function
graphformat	function	stop_saving_data	function
inhash	function	systemmode	function
integer	function	tb_dimensions	function
isarray	function	texstr	function
mode	function	texvar	function
n	function	tohash	function
newhash	function	tostore	function
newstore	function	triplet	function
numeric	function	tt_dimensions	function
pair	function	tt_initialize	function
path	function	vprint	function

positionanchor function

mplib (extra tex)

fields function
finder function
finders table

F file
F mpstemplate

get_boolean function
get_number function

get_numeric function
get_string function

new overloaded function

pen_info function
preprocessed function
version function

noads (context)

F relocate

handlers	table	F render	
F align		F resize	
F alternates		F showtree	
F autofences		F tags	
F classes		F unscript	
F collapse		F variants	
F domains		process	function
F families		processneste	d function
F fixscripts		processors	table
F italics		F mlist_to_h	ist
F kernpairs		T unscript	
F makeup		processouter	function

node (basic tex)

check discretionaries function F getid check discretionary function F getkern copy function F getlang copy list function F getleader function count F aetlist function current attr F getnext dimensions function F getnucleus direct table F aetoffsets F check discretionaries F getpenalty F check discretionary F getprev F copy F getproperty F copy list F getshift F getsub F count F current attr F getsubtype F dimensions F aetsup F effective glue F aetwhd F end_of_math F getwidth F find attribute F has attribute F has field F first glyph F flatten discretionaries F has glyph F flush list F hpack F flush node F insert_after F insert before F flush properties table F is char F free F get attribute F is direct F get_properties_table F is glyph F get_synctex_fields F is node F getattributelist F is_zero_glue F aetboth F kernina F getbox F last node F getchar F length F ligaturing F getcomponents F getdepth F new F getdir F protect_glyph F getdirection F protect_glyphs F getdisc F protrusion_skippable F getfam F rangedimensions F getfield F remove F getfont F set_attribute F getglue F set properties mode F getheight F set_synctex_fields

F setattributelist	F uses_font	
F setboth	F vpack	
F setbox	F write	
F setchar	effective_glue	function
F setcomponents	end_of_math	function
F setdepth	family_font	function
F setdir	fields	function
F setdirection	find_attribute	function
F setdisc	first_glyph	function
F setfam	fix_node_lists	function
F setfield	flatten_discretionaries	function
F setfont	flush_list	function
F setglue	flush_node	function
F setheight	flush_properties_table	function
F setkern	free	function
F setlang	get_attribute	function
F setleader	get_properties_table	function
F setlink	getboth	function
F setlist	getchar	function
F setnext	getdisc	function
F setnucleus	getfield	function
F setoffsets	getfont	function
F setpenalty	getglue	function
F setprev	getid	function
F setproperty	getleader	function
F setshift	getlist	function
F setsplit	getnext	function
F setsub	getprev	function
F setsubtype	getproperty	function
F setsup	getsubtype	function
F setwhd	getwhd	function
F setwidth	has_attribute	function
F slide	has_field	function
F tail	has_glyph	function
F todirect	hpack	function
F tonode	id	function
F tostring	insert_after	function
F traverse	insert_before	function
F traverse_char	is_char	function
F traverse_id	is_glyph	function
F unprotect_glyph	is_node	function
F unprotect_glyphs	is_zero_glue	function
F unset_attribute	kerning	function
F usedlist	last_node	function

length	function	subtype	function
ligaturing	function	subtypes	function
mlist_to_hlist	function	tail	function
new	function	tostring	function
next	function	traverse	function
prev	function	traverse_char	function
protect_glyph	function	traverse_id	function
protect_glyphs	function	type	function
protrusion_skippable	function	types	function
rangedimensions	function	unprotect_glyph	function
remove	function	unprotect_glyphs	function
set_attribute	function	unset_attribute	function
set_properties_mode	function	usedlist	function
setfield	function	uses_font	function
setglue	function	values	function
setproperty	function	vpack	function
setwhd	function	whatsits	function
slide	function	write	function

nodes (context)

accentcodes	data table	disccodes	data table
aligned	function	discretionarycodes	data table
append	function	effective glue	function
apply	function	end of math	function
applyvisuals	function	fencecodes	data table
astable	function	fields	function
basepoints	function	fillcodes	data table
boundarycodes	data table	find attribute	function
boxes	table	first glyph	function
F dimensions		firstcharacter	function
F direct		firstcharinbox	function
F found		firstdirinbox	function
F reset		firstglyph	function
F restore		flush	function
F save		flush_list	function
builders	table	flush_node	function
F buildpage_filter		free	function
F vpack_filter		fullhpack	function
<pre>check_discretionaries</pre>	function	getattr	function
codes	data table	getattribute	function
concat	function	getbox	function
сору	function	getchar	function
copy_list	function	getdisc	function
copy_node	function	getfield	function
count	function	getfont	function
countall	function	getglue	function
current_attr	function	getid	function
delete	function	getleader	function
destinations	table	getlist	function
N attribute		getnext	function
T done		getprev	function
F handler		getsubtype	function
T stack		getwhd	function
dimensionfields	data table	gluecodes	data table
dimensions	function	gluevalues	data table
dir_is_pop	data table	glyphcodes	data table
<pre>dir_negation dircodes</pre>	data table data table	glyphdir_is_equal glyphdir is opposite	data table data table
directioncodes	data table data table	glyphdir_is_opposite glyphdir is orthogonal	data table
directioncodes	data table	handlers	table
directionvatues	data table	F accessibility	rante
UTI VALUES	uata table	r accessibility	

F alignbackgrounds		is char	function
F backgrounds		_ is direct	function
F characters		is_display_math	function
F checkforleaks		is_glyph	function
F checkglyphs		is_mirrored	data table
F cleanupbox		is_node	function
F cleanuppage		is_nut	function
F export		is_rotated	data table
F finalize		is_zero_glue	function
F flatten		ischar	function
F flattenline		isglyph	function
F migrate		kerncodes	data table
F protectglyphs		kerning	function
F stripping		keys	table
F textbackgrounds		T whatsit	
F unprotectglyphs		last_node	function
has_attribute	function	leadercodes	data table
has_field	function	leftmarginwidth	function
has_glyph	function	length	function
hpack	function	ligaturing	function
idstostring	function	linefillers	table
ignorablefields	data table	D data	
injections	table	F define	
F copy		F enable	
F getligaindex		F handler	
F getthreshold		lines	table
F handler		T boxed	
F installgetspaceboth		F register	
F installnewkern		F setup	
F isspace		F stage_one	
F keepcounts		F stage_two	
F reset		D data	
F resetcounts		F finalize	
F setcursive		F number	
F setkern		N scratchbox	
F setligaindex		link	function
F setmark		linked	function
F setmove		list	function
F setposition		listablefields	data table
F setspacekerns	for all an	listcodes	data table
insert_after	function	listtoutf	function
insert_before	function	literalvalues	data table
insert_list_after	function	load	function
installattributehandler	function	locate	function

	data tabla	
margincodes	data table	F firstcharacter
marginkerncodes	data table	F firstcharinbox
markers	table	F firstglyph
F get		F flush
mathcodes	data table	F flush_list
maxboxwidth	function	F flush_node
mlist_to_hlist	function	F free
new	function	F fullhpack
noadcodes	data table	F get_components
noadoptions	table	F get_synctex_fields
N axis		F getattr
N exact		F getattribute
N left		F getattributelist
N middle		F getattrlist
N no_axis		F getboth
N right		F getbox
N set		F getboxglue
N unused_1		F getchar
N unused_2		F getcomponents
nodecodes	data table	F getdepth
nopts	function	F getdir
nuts	table	F getdirection
F append		F getdisc
F apply		F getdiscretionary
F applyvisuals		F getfam
F check_discretionaries		F getfield
F concat		F getfont
F copy		F getglue
F copy_list		F getheight
F copy_no_components		F getid
F copy_node		F getkern
F copy_only_glyphs		F getlang
F copy_properties		F getlanguage
F copyvisual		F getleader
F count		F getlist
F count_components		F getnext
F countall		F getnucleus
F current_attr		F getoffsets
F delete		F getpenalty
F dimensions		F getprev
F effective_glue		F getprop
F end_of_math		F getshift
F find_attribute		F getsub
F first_glyph		F getsubtype

F getsup F fraction F getsurround F glue F getwhd F gluespec F getwidth F glyph F has attribute F hlist F italickern F has field F has_glyph F kern F hpack F latelua F lateluafunction F insert after F insert before F leader F insert list after F leftmarginkern F is char F leftskip F is_direct F lineskip F mathchar F is_display_math F mathtextchar F is_glyph F is_node F negatedglue F is_nut F noad F pdfannotation F is zero glue Fischar F pdfdestination F pdfdirectliteral F isqlyph F kerning F pdfliteral F last node F pdforiginliteral F leftmarginwidth F pdfpageliteral F pdfrawliteral F length F ligaturing F pdfrestore F link F pdfsave F linked F pdfsetmatrix F locate F penalty F mlist to hlist F radical F nestedtracedslide F register F new F rightmarginkern T pool F rightskip F accent Frule F baselineskip F shrink F special F boundary F choice F stretch F subbox F cleanup F delim F submlist F delimiter F temp F direction F textdir F disc F usage F emptyrule F userattributes F fence T userids

N margins.inline

F fontkern

F setfield N property N splitters.one F setfont N splitters.two F setglue F userlist F setheight F userlua F setkern F usernumber F setlang F userrule F setlanguage Fuserstring F setleader F setlink F usertokens F vlist F setlist F wordboundary F setnext F prepend F setnucleus F protect_glyph F setoffsets F protect glyphs F setpenalty F protrusion_skippable F setprev F rangedimensions F setprop F rawprop F setshift F reference F setsplit F rehpack F setsub F remove F setsubtype F repackhlist F setsup F replace F setsurround F rightmarginwidth F setunsetattributes T rules F setvisual F userrule F setvisuals F set attribute F setwhd F set_components F setwidth F set synctex fields F slide F setattr F somepenalty F setattribute F somespace F setattributelist F splitbox F setattributes F tail F setattrlist F take components F setboth F takeattr F takebox F setbox F setboxglue F takelist F setchar F theprop F setcomponents F tonode F setdepth F tonodes F setdir F tonut F setdirection F tosequence F setdisc F tostring F setdiscretionary F tracedslide

F traverse

F setfam

F traverse_char		F cleanup	
F traverse_id		F glyph	
T typesetters		F hlist	
F tohbox		F kern	
F tohpack		F latelua	
F tonodes		F lineskip	
F tovbox		F pdfdirectliteral	
F tovpack		F pdforiginliteral	
F unprotect_glyph		F pdfrestore	
F unprotect_glyphs		F pdfsave	
F unset_attribute		F pdfsetmatrix	
F unsetattribute		F register	
F unsetattributes		F rule	
F untracedslide		F special	
F use_components		F usage	
F usedlist		F usernumber	
F uses_font		F vlist	
F vianodes		prepend	function
F vianuts		print	function
F vpack		processors	table
F write		F contribute_filter	
packlist	function	B enabled	
pardir_is_equal	data table	F hpack_filter	
pardir_is_opposite	data table	F post_linebreak_filter	
pardir_is_parallel	data table	F pre_linebreak_filter	
partextdir_is_equal	data table	F tracer	
pdfliteralvalues	data table	processranges	function
penaltycodes	data table	processwords	function
plugindata	table	properties	table
F finalizer		T actions	
F initializer		F delayed	
S name		F fdelayed	
T namespace		F immediate	
N attribute		F attach	
D data		T data	
F enable		F delayed	
F handler		protect_glyph	function
F register		protect_glyphs	function
D registered		protrusion_skippable	function
D values		pts	function
F processor	£	radicalcodes	data table
points	function	rangedimensions	function
pool	table	reference	function
F baselineskip		references	table

N attribute		F enable	
T done		F handler	
F handler		show	function
T stack		showboxes	function
rehpack	function	showcodes	function
remove	function	showlist	function
repackhlist	function	showsimplelist	function
replace	function	skipcodes	data table
report	function	skipvalues	data table
rightmarginwidth	function	slide	function
rulecodes	data table	snapshots	table
rules	table	F getparameters	
D data		F getsamples	
F define		F resetsamples	
F enable		F takesample	
F handler		somepenalty	function
T ruleactions		somespace	function
F box		splitbox	function
F draw		stripdiscretionaries	function
F fill		stripping	table
F mp		T glyphs	
F stroke		F set	
F userrule		striprange	function
save	function	tail	function
serialize	function	takeattr	function
serializebox	function	takebox	function
set_attribute	function	tasks	table
setattr	function	F actions	
setattribute	function	F appendaction	
setattributes	function	F disableaction	
setboth	function	F disablegroup	
setbox	function	F enableaction	
setboxtonaturalwd	function	F enablegroup	
setfield	function	F freeze	
setglue	function	F freezegroup	
setlink	function	F new	
setlist	function	F prependaction	
setnext	function	F removeaction	
setprev	function	F replaceaction	
setunsetattributes	function	F restart	
setwhd	function	F setaction	
shifts	table	F showactions	
D data		F table	
F define		textdir_is_equal	data table

textdir_is_is	data table	F setlist	
textdir_is_opposite	data table	F setproperties	
textdir_is_parallel	data table	F start	
tobasepoints	function	T steppers	
tocentimeters	function	F check	
tociceros	function	F codes	
todidots	function	F features	
todimen	function	F font	
toinches	function	F glyphs	
tomillimeters	function	F message	
tonewciceros	function	F messages	
tonewdidots	function	F nofsteps	
tonode	function	F register	
tonodes	function	F reset	
tonut	function	F start	
topicas	function	F stop	
topoints	function	F stop	
toscaledpoints	function	T transparencies	
tosequence	function	F reset	
tostring	function	F set	
totable	function	F setlist	
totree	function	traverse	function
toutf	function	traverse_char	function
tracers	table	traverse_id	function
T characters		typesetters	table
F collect		F hbox	
F equal		F hpack	
F start		F tohbox	
F string		F tohpack	
F unicodes		F tonodes	
T colors		F tovbox	
F reset		F tovpack	
F set		F vpack	
F setlist		unprotect_glyph	function
F fontchar		unprotect_glyphs	function
T frequencies		unset_attribute	function
F register		unsetattribute	function
T pool		unsetattributes	function
T nodes		usedlist	function
F rule		usercodes	data table
T nuts		vianodes	function
F rule		vianuts	function
F resetproperties		visualizebox	function
F rule		visualizers	table

F attribute
T attributes
F box
F handler
F markfonts

F setfont F setlayer F setruledglyph F setvisual

vpack function
whatcodes data table
whatsitcodes data table
write function

number (context)

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

objects (context)

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

os (basic lua)

platform string

getenv	function	remove	overloaded function
setenv	function	rename	overloaded function
binsuffix	string	resolvers	table
binsuffixes	table	F bits	
clock	function	resultof	function
converttime	function	runtime	function
date	function	selfdir	string
difftime	function	setenv	overloaded function
env	data table	setlocale	overloaded function
exec	overloaded function	sleep	function
execute	overloaded function	spawn	overloaded function
exit	function	time	function
fulltime	function	times	function
getenv	overloaded function	timezone	function
gettimeofday	function	tmpdir	function
isleapyear	function	tmpname	function
launch	function	today	function
libsuffix	string	type	string
localtime	function	uname	function
name	string	uuid	function
newline	string	validdate	function
nofdays	function	weekday	function
now	function	where	function
pipeto	function	which	function

package (basic lua)

config	string
cpath	string
extralibpath	function
extralibpaths	function
extraluapath	function
extraluapaths	function
helpers	table
libpaths	function
loaded	table
loaders	table
loadlib	function

luapaths	function
path	string
poplibpath	function
popluapath	function
preload	table
pushlibpath	function
pushluapath	function
searchers	table
searchpath	function
seeall	function

pagebuilders (context)

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

pdf (basic tex)

disablecommand	function	hasmatrix	function
fontname	function	immediateobj	function
fontobinum	function	mapfile	function
fontsize	function	mapline	function
getcatalog	function	maxobinum	function
getcompresslevel	function	newcolorstack	function
getcreationdate	function	obj	function
getdecimaldigits	function	objtype	function
getdestmargin	function	pageref	function
getgentounicode	function	print	function
gethpos	function	refobi	function
getignoreunknownimages	function	registerannot	overloaded function
getimageresolution	function	reserveobj	function
getinclusionerrorlevel	function	setcatalog	overloaded function
getinfo	function	setcompresslevel	function
getlastannot	function	setdecimaldigits	function
getlastlink	function	setdestmargin	function
getlastobi	function	setfontattributes	function
getlinkmargin	function	setgentounicode	function
getmajorversion	function	setignoreunknownimages	function
getmatrix	function	setimageresolution	function
getminorversion	function	setinclusionerrorlevel	function
getnames	function	setinfo	overloaded function
getobjcompresslevel	function	setlinkmargin	function
getomitcidset	function	setmajorversion	function
getorigin	function	setminorversion	function
getpageattributes	function	setnames	overloaded function
getpageresources	function	setobjcompresslevel	function
getpagesattributes	function	setomitcidset	function
getpkresolution	function	setorigin	function
getpos	function	setpageattributes	overloaded function
getretval	function	setpageresources	overloaded function
getsuppressoptionalinfo	function	setpagesattributes	overloaded function
getthreadmargin	function	setpkresolution	function
gettrailer	function	setsuppressoptionalinfo	function
gettrailerid	function	setthreadmargin	function
getversion	function	settrailer	overloaded function
getvpos	function	settrailerid	overloaded function
getxformattributes	function	setxformattributes	function
getxformmargin	function	setxformmargin	function
getxformresources	function		

setxformresources function xformname

function

pdfscanner (context)

scan function

physics (context)

units table

F registerunit

D tables

publications (context)

addtexentry	function	converttoxml	function
analyze	function	currentspecification	table
anywhere	function	S author	
authorcache	data table	T categories	
authorcollapsers	data table	T article	
authorhashers	table	S category	
F invertedshort		T extra	
F normal		T fields	
F normalinverted		S author	
F normalshort		S editor	
F sequential		S journal	
F sequentialshort		S keywords	
F short		S note	
authormap	data table	S number	
authortoregister	function	S pages	
casters	table	S title	
F author		S volume	
F keyword		S year	
F pagenumber		T optional	
F range		T required	
checkeddataset	function	T sets	
citevariants	table	T author	
F author		T virtual	
F authornum		T book	
F authoryear		S category	
F authoryears		T extra	
F category		T fields	
F default		S address	
F entry		S author	
F index		S edition	
F keywords		S editor	
F num		S keywords	
F page		S note	
F short		S number	
F tag		S publisher	
F textnum		S subtitle	
F year	d-4- 4-61-	S title	
collected	data table	S volume	
components	table	S year	
F author	function	T optional	
concatstate	function	T required	

T coto	C 2222	
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	enhancers	table
S author	F details	
S institution	F order	
S organization	F suffixes	
S subtitle	finder	function
S title	firstofrange	function
S year	found	function
T optional	get	function
T required	getcasted	function
T sets	getdetail	function
T authors	getdirect	function
T virtual	getfaster	function
comment	getfield	function
copyright	getfuzzy	function
fields	getindex	function
name	inspectors	data table
types	journals	table
S author	F abbreviated	
S editor	F add	
S keywords	F expanded	
S number	F load	
S page	F save	
, •		

S

S

Т

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		refman_to_btx	function
F dataset		resolvedname	function
F force		save	function
F global		search	function
F local		setcategory	function
F nofregistered		setspecification	function
F prepareentries		singularorplural	function
F register		sortedentries	function
F sameasprevious		sortmethods	table
T sorters		T authoryear	
F cite		T sequence	
F dataset		specifications	table
F default		T default	
F index		S author	
F list		S comment	
F reference		S copyright	
F short		S name	
F used		S version	
F uservariable		D virtual	
listvariants	table	splitauthor	function
F default		splitoneauthor	function
F index		statistics	table
F num		N nofbytes	
F short		N nofdatasets	
F tag		N nofdefinitions	
load	function	N nofshortcuts	
loadbibdata	function	tables	table
loaddefinitionfile	function	D implicits	
loaders	table	D origins	
F bbl		D privates	
F bib		D sets	
F buffer		D specials	
F endnote		D types	
F json		D virtuals	
F lua		tags	function

tracers table F author
F showdatasetauthors F string
F showdatasetcompleteness usedataset
F showdatasetfields usedentric
F showentry writers

F showfields
F showhashedauthors
F showtables
F showvariants

typesetters table

usedataset function
usedentries function
writers table

F author
F keyword
F pagenumber
F range

regimes (context)

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

resolvers (context)

-11	£	et de de cale	£
allprefixes	function	findpath	function
appendhash 	function	findtexfile	function
automount	function	findwildcardfile	function
automounted	table	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
criticalvars	data table	getfilehashes	function
dangerous	data table	gethashes	function
datastate	function	getownpath	function
defaultsuffixes	table	getreadfilename	function
dowithfilesandreport	function	hashers	data table
dowithfilesintree	function	homedir	string
dowithpath	function	initialized	function
dowithvariable	function	inputstack	table
env	function	installinputfilehandler	function
executers	table	installinputlinehandler	function
expandbraces	function	jobpath	function
expandedpathfromlist	function	jobs	table
expandedpathlist	function	F currentcomponent	
expandedpathlistfromvariable	function	F currentenvironment	
expandpath	function	F currentproduct	
expandpathfromvariable	function	F currentproject	
expansion	function	F justacomponent	
extendtexmfvariable	function	D processors	
filtered_from_content	function	F productcomponent	
find_file	function	F usefile	
find_files	function	joinpath	function
findbinfile	function	knownvariables	function
findctxfile	function	load	function
finders	data table	loadbinfile	function
findfile	function	loaders	data table
findfiles	function	loadlualib	function
findgivenfile	function	loadtexfile	function
findgivenfiles	function	loadtime	function

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

function

resolve

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

handlers data table table hash iniectors data table installdataset function installmethod function numbertocategory data table numbertodataset data table numbertohandler data table reset function function set data table splitters

set (context)

contains function
create function
tolist function

tonumber function
totable function

sio (context)

read2dot14	function	readfixed2	function
readbytes	function	readfixed4	function
readbytetable	function	readinteger1	function
readcardinal1	function	readinteger2	function
readcardinal2	function	readinteger3	function
readcardinal3	function	readinteger4	function
readcardinal4	function		

socket (extra lua)

BLOCKSIZE	number	S cc
_DATAGRAMSIZE	number	S comments
_DEBUG	boolean	S connection
_SETSIZE	number	S content-description
_SOCKETINVALID		S content-disposition
bind	function	S content-encoding
choose	function	S content-id
connect	function	S content-language
connect4	function	S content-length
connect6	function	S content-location
dns	table	S content-md5
F getaddrinfo		S content-range
F gethostname		S content-transfer-encoding
F getnameinfo		S content-type
F tohostname		S cookie
F toip		S date
ftp	table	S diagnostic-code
S PASSWORD		S dsn-gateway
N TIMEOUT		S etag
S USER		S expect
F command		S expires
F genericform		S final-log-id
F get		S final-recipient
F open		S from
F put		S host
gettime	function	S if-match
headers	table	S if-modified-since
T canonic		S if-none-match
S accept		S if-range
S accept-chars	et	S if-unmodified-since
S accept-encod	ing	S in-reply-to
S accept-langua	age	S keywords
S accept-range	S	S last-attempt-date
S action		S last-modified
S age		S location
S allow		S max-forwards
S alternate-re	cipient	S message-id
S arrival-date		S mime-version
S authorization	n	S original-envelope-id
S bcc		S original-recipient
S cache-contro	ι	S pragma

S provv	authenticate	F b64	
	authorization	F decode	
S range	autil0112at1011	T decodet	
S receiv	ad	F base64	
	ed-from-mta	F quoted-printa	ahla
S refere		F dot	ab te
S refere		F encode	
S remote		T encodet	
		F base64	
S reply-			.h1.a
S report		F quoted-print	abte
S resent		F eol	
S resent		F normalize	
S resent		F qp	
S resent		F qpwrp	
	-message-id	F stuff	
	-reply-to	F unb64	
S resent		F unqp	
S resent		F wrap	
S retry-		T wrapt	
S return		F base64	
S sender		F default	
S server		F quoted-printa	able
	emote-recipient	F text	
S status		F wrp	
S subjec	t	newtry	function
S te		protect	function
S to		select · ·	function
S traile		sink	function
	er-encoding	sinkt	table
S upgrad		F close-when-don	e
S user-a	gent	F default	
S vary		F http-chunked	
S via		F keep-open	
S warnin		skip	function
	etry-until	sleep	function
	thenticate	smtp	table
S x-mail		S DOMAIN	
http	table	N PORT	
N TIMEOUT	_	S SERVER	
S USERAGEN		N TIMEOUT	
F genericf	orm	S ZONE	
F open		F message	
F request	4-41-	F open	
mime	table	F send	

source	function	try	function
sourcet	table	udp	function
F by-length		udp4	function
F default		udp6	function
F http-chunked		url	table
F until-closed		F abso	olute
tcp	function	F bui	ld
tcp4	function	F bui	ld_path
tcp6	function	F esca	ape
tp	table	F par	se
N TIMEOUT		F par	se_path
F connect		F une	scape

sorters (context)

basicsorter
comparers
 F basic
constants table
 S defaultdigits
 S defaultlanguage
 S defaultmethod
 N digitsmaximum

N digitsoffset
N ignoredoffset
N replacementoffset

T validmethods
B ch
B mc
B mm
B pc

B pm
B uc
B zc
B zm

definitions data table firstofsplit function packch function packuc function setlanguage sort function splitters table

F utf

strip function
tracers data table
update function

statistics (context)

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

status (basic tex)

list function setexitcode 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)

autodouble	function	quote	function
autosingle	function	quoted	function
booleanstring	function	rep	function
byte	function	replacenewlines	function
bytepairs	function	reverse	function
bytes	function	split	function
bytetable	function	splitlines	function
char	function	splitup	function
characterpairs	function	strip	function
characters	function	sub	function
checkedsplit	function	tformat	function
collapsespaces	function	toHEX	function
count	function	toboolean	function
dump	function	tobytes	function
escapedpattern	function	tocontext	function
explode	function	todec	function
find	function	todimen	function
format	function	tohex	function
formatter	function	tonodes	function
formatters	function	topattern	function
fullstrip	function	totable	function
gmatch	function	toutf	function
gsub	function	tracedchar	function
is_boolean	function	tracedchars	table
is_empty	function	unpack	function
itself	function	unquote	function
len	function	unquoted	function
limit	function	upper	function
longtostring	function	utfcharacter	function
lower	function	utfcharacters	function
match	function	utflength	function
nospaces	function	utfpadd	function
nspaces	table	utfpadding	function
optionalquoted	function	utfvalue	function
pack	function	utfvalues	function
packsize	function	valid	function

structures (context)

atlocation	function	F previous	
blocks	table	F raw	
D collected		F record	
F define		F reset	
F print		F restart	
F save		F restore	
F select		F save	
F setstate		F set	
D states		F setlevel	
D tobesaved		F setoffset	
bookmarks	table	F setown	
T extras		F setstate	
F get		F setvalue	
F mergesections		T specials	
F register		F userpage	
F reset		F subs	
F tosections		D tobesaved	
F finalize		F value	
F flatten		F way	
F installhandler		currentsectionnumber	function
F merge		descriptions	table
S method		documents	table
F overload		D data	
F place		F initialize	
F register		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 next		F touserdata	
F prev		inserts	table

D data		F savedlistnumber
F define		F savedlistprefixednumber
F getdata		F savedlisttitle
F getlocation		D sectionblocks
F getname		F sectionnumber
F getnumber		F size
F setlocation		F title
F setup		D tobesaved
D stored		F userdata
itemgroups	table	F uservalue
lists	table	marks table
F addto		D data
F analyze		F define
B autoreorder		F exists
D cached		F fetch
D collected		F fetchallmarks
F discard		F fetched
F enhance		F fetchonemark
T enhancers		F fetchtwomarks
F filter		F get
F formulanumber		F number
F getresult		F relate
F groupindex		F reset
F hasnumberdata		F set
F haspagedata		F show
F hastitledata		F synchronize
F iscached		F title
D kinds		T tracers
F label		F showtable
F location		notes table
D names		F check_spacing
F number		F checkpagechange
D ordered		F define
F page		F doifonsamepageasprevious
F popnesting		F get
F prefix		F getdeltapage
F prefixednumber		F getinternal
F prefixedpage		F getn
F process		F getstate
D pushed		F hascontent
F pushnesting		F internal
F realpage		F internalid
F reordered		F listindex
T result		T numbers

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 in_body		F getinnermethod
F is_odd		F getinternalcachedlistreference
F mark		F getinternallistreference
F marked		F getinternalreference
N nofpages		F getoutermethod
F number		D handlers
F on_right		F identify
F save		F import
D tobesaved		F inject
F toranges		F injectcurrentset
references	table	S innermethod
references F analyze	table	D internals
references F analyze F checkedfile	table	D internals F load
references F analyze F checkedfile F checkedfileorurl	table	D internals F load F loadpresets
references F analyze F checkedfile F checkedfileorurl F checkedprogram	table	D internals F load F loadpresets F mark
references F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage	table	D internals F load F loadpresets F mark S outermethod
references F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl	table	D internals F load F loadpresets F mark S outermethod D pages
references F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected	table	D internals F load F loadpresets F mark S outermethod D pages U prefixsplitter
references F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter	table	D internals F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata
references F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter F currentmetadata	table	D internals F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs
references F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter F currentmetadata F currentorder	table	D internals F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data
references F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset	table	D internals F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define
references F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset F define	table	D internals F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get
references F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset F define D defined	table	D internals F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get F realpageofpage
references F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset F define D defined D derived	table	D internals F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get F realpageofpage U referencesplitter
references F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset F define D defined D derived F enableinteraction	table	D internals F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get F realpageofpage U referencesplitter D referred
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedrealpage F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset F define D defined D derived F enableinteraction F enhance	table	D internals F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get F realpageofpage U referencesplitter D referred F referredpage
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected U componentsplitter F currentmetadata F currentset F define D defined D derived F enableinteraction F enhance D executers	table	D internals F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get F realpageofpage U referencesplitter D referred F referredpage F registerfinalizer
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset F define D defined D derived F enableinteraction F enhance D executers F expandcurrent	table	D internals F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get F realpageofpage U referencesplitter D referred F registerfinalizer F registerinitializer
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset F define D defined D derived F enableinteraction F enhance D executers F expandcurrent F export	table	D internals F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get F realpageofpage U referencesplitter D referred F referredpage F registerinalizer F registerpage
F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected U componentsplitter F currentmetadata F currentorder D currentset F define D defined D derived F enableinteraction F enhance D executers F expandcurrent	table	D internals F load F loadpresets F mark S outermethod D pages U prefixsplitter D productdata T programs T data F define F get F realpageofpage U referencesplitter D referred F registerfinalizer F registerinitializer

F set	F extend
F setandgetattribute	F filter
F setcomponent	F filtercollected
F setinternalreference	F finalize
F setlinkmethod	F findinternal
F setnextinternal	F flush
F setnextorder	F get
F setreferencerealpage	F prepare
D specials	F process
F splitcomponent	F setmethod
F splitprefix	F sort
F splitreference	F store
F synchronizepage	D tobesaved
T testrunners	F unique
Finner	F userdata
F special	sections table
F special operation	F autodepth
F special operation with arguments	F cct
T testspecials	D collected
F deltapage	F current
Гi	F currentblock
F internal	F currentid
F page	F currentlevel
F realpage	F currentsectionindex
F section	F depthnumber
F userpage	F finddata
D tobereferred	F findnumber
D tobesaved	F fullnumber
D tracedpages	F getcurrentlevel
T urls	F getlevel
T data	F getnumber
F define	F internalreference
F found	D levelmap
F get	D levels
F untex	F load
D usedinternals	F matchingtilldepth
D usedviews	F numberatdepth
F valid	F numbers
registers table	F popblock
F analyze	F prefixedconverted
D collected	F pushblock
F compare	F register
F define	D registered
F enhance	F reportstructure

F save		F	resetused	
T sectionblockdata			sort	
T bodypart			synonym	
S bookmark			tobesaved	
F set		tags		table
F setblock			elementtag	
F setchecker		F	finishexport	
F setentry		F	getid	
F setinitialblock		F	getmetadata	
F setlevel		F	handler	
F setnumber		F	initializeexport	
F structuredata		D	labels	
F title		F	last	
D tobesaved		F	lastinchain	
F typesetnumber		F	locatedtag	
F userdata		Т	patterns	
B verbose			U splitter	
sets	table	D	properties	
F define		F	registermetadata	
F get		F	restart	
F getall		F	setaspect	
D setlist		F	setattributehash	
specials	table	F	setcombination	
D collected		F	setconstruct	
F retrieve		F	setfigure	
F store		F	setfloat	
D tobesaved		F	sethighlight	
synonyms	table	F	setitem	
F analyzed			setitemgroup	
D collected			setlist	
F compare			setnotation	
F define			setnotationsymbol	
F filter			setproperty	
F finalize			setregister	
F flush			setsorting	
F isshown			setsynonym	
F isused			settablecell	
F meaning			settabulatecell	
F prepare			settagdelimitedsymbol	1
F process			settagsubsentencesymbo	ι
F register			setupexport	
F registershown			setuserproperties	
F registerused			specifications	
F resetshown		F	start	

F stop

F strip

D taglist

T usewithcare T images

table (basic lua)

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

tex (basic tex)

attribute	table	getmuglue	function
badness	function	getmuskip	function
box	table	getnest	function
catcode	table	getpagestate	function
conditionals	data table	getsfcode	function
constants	data table	getskip	function
count	table	gettoks	function
cprint	function	getuccode	function
ctdcatcodes	number	glue	table
ctxcatcodes	number	hashtokens	function
definefont	function	ifs	data table
delcode	table	inicatcodes	number
dimen	table	init rand	function
directives	data table	isattribute	function
enableprimitives	function	isbox	function
error	function	iscount	overloaded function
extraprimitives	function	isdefined	function
finish	function	isdimen	overloaded function
fontidentifier	function	ismuskip	overloaded function
fontname	function	isskip	overloaded function
force_synctex_line	function	istoken	function
force_synctex_tag	function	istoks	function
fprint	function	lccode	table
get	function	linebreak	function
<pre>get_synctex_line</pre>	function	lists	table
<pre>get_synctex_mode</pre>	function	lua_math_random	function
get_synctex_tag	function	lua_math_randomseed	function
getattribute	function	luacatcodes	number
getbox	function	mathcode	table
getboxresourcedimensions	function	modes	data table
getcatcode	function	muglue	table
getcount	function	muskip	table
getdelcode	function	nest	table
getdelcodes	function	nilcatcodes	number
getdimen	function	normal_rand	function
getglue	function	notcatcodes	number
getlccode	function	number	function
getlist	function	primitives	function
getmath	function	print	function
getmathcode	function	prtcatcodes	number
getmathcodes	function	resetparagraph	function

romannumeral	function	settoks	function
round	function	setuccode	function
run	function	sfcode	table
saveboxresource	function	shipout	function
scale	function	show_context	function
scantoks	function	skip	table
set	function	sp	function
set_synctex_line	function	splitbox	function
set_synctex_mode	function	sprint	function
set_synctex_no_files	function	systemmodes	data table
set_synctex_tag	function	takebox	function
setattribute	function	texcatcodes	number
setbox	function	toks	table
setcatcode	function	tpacatcodes	number
setcount	function	tpbcatcodes	number
setdelcode	function	tprint	function
setdimen	function	trackers	data table
setglue	function	triggerbuildpage	function
setlccode	function	txtcatcodes	number
setlist	function	type	function
setmath	function	uccode	table
setmathcode	function	uniform_rand	function
setmuglue	function	uniformdeviate	function
setmuskip	function	uprint	function
setnest	function	useboxresource	function
setsfcode	function	vrbcatcodes	number
setskip	function	write	function

texconfig (basic tex)

kpse_init boolean
max_in_open number

max_print_line number
max_strings number
nest_size number
param_size number
save_size number
shell escape string

texio (basic tex)

closeinput function
setescape function
write function
write_nl function

token (basic tex)

create	function	put_next	function
get_active	function	scan_code	function
get_cmdname	function	scan_csname	function
get_command	function	scan_dimen	function
get_csname	function	scan_glue	function
get_expandable	function	scan_int	function
get_id	function	scan_keyword	function
get_index	function	scan_keyword_cs	function
get_macro	function	scan_string	function
get_meaning	function	scan_token	function
get_mode	function	scan_toks	function
get_next	function	scan_word	function
get_protected	function	set_char	function
get_tok	function	set_macro	function
is_token	function	type	function

tokens (context)

astable	function	defined	function
bgroup	userdata	egroup	userdata
bits	table	getters	table
N active		F box	
N alignme	nt	F count	
N begingr	oup	F dimen	
N charact	er	F glue	
N close		F macro	
N comment		F meaning	
N endgrou	р	F skip	
N endofli	ne	F token	
N escape		hbox	userdata
N ignore		istoken	function
N invalid	l	letter	function
N letter		letters	function
N mathshi	ft	other	function
N open		pickup	function
N other		printlist	function
N paramet	er	scanners	table
N space		F boolean	
N subscri	pt	F code	
N superso	ript	F condition	nal
N whitesp	ace	F count	
collectors	s table	F csname	
T data		F dimen	
F default	words	F dimension	n
F dowithw	ords	F glue	
F flush		F integer	
F install		F keyword	
F registe	r	F keywordd	S
T registe	red	F list	
F show		F lxmlid	
F test		F number	
compile	function	F scanclos	e
constant	function	F scanoper	
converters	t able	F skip	
S toboole	an	F string	
S todimen	ı	F token	
S toglue		F tokens	
S tonumbe	r	F toks	
S tostrin	g	F word	

scantable	function	E saankaya	and a
setters	table	F scankeyw F scanlist	
F box	table	T scanners	
F char		F boolea	
F count		F code	1
F dimen		F condit:	ional
			LONAL
F glue		F count	
F macro		F csname F dimen	
F skip shortcuts	table	F dimens	
T bits	table		1011
N active		F glue	-
		Fintege	
N alignme		F keyword	
N begingr		F keyword	ıcs
N charact	er	Flist	
N close		F lxmlid	
N comment		F number	
N endgrou		F scanclo	
N endofli	ne	F scanope	en
N escape		F skip	
N ignore		F string	
N invalid	1	F token	
N letter		F tokens	
N mathshi	.tt	F toks	
N open		F word	
N other		F scannumb	
N paramet	cer	F scanopen	
N space		F scanstri	_
N subscri		F scanword	
N superso		F toboolea	n
N whitesp	ace	F todimen	
N close		T tokens	
F inspect		F astable	9
N open		U bgroup	
F report		T collect	
F scanbool			ıltwords
F scanclose	е	F dowit	
F scancode		F flush	
F scancond:		Finsta	
F scancsnar		F regis	ter
F scandime		F show	
F scandime		F test	
F scaninte	•	F compile	
F scankeyw	ord	F consta	nt

F skip T converters S toboolean T shortcuts S todimen N close S toglue F inspect S tonumber N open S tostring F report F defined F scanboolean U egroup F scanclose F scancode T getters F box F scanconditional F count F scancsname F dimen F scandimen F glue F scandimension F macro F scaninteger F meaning F scankeyword F skip F scankeywordcs F token F scanlist U hbox F scannumber F istoken F scanopen F letter F scanstring F letters F scanword F other F toboolean F pickup F todimen F printlist F tonumber F scantable F tostring T setters U vbox F box U vtop F char F tonumber F count F tostring userdata vbox F dimen

F glue F macro vtop

userdata

tracers (context)

count function
cs function
dimen function
knownlist function
lists table

T context
T internals

T scratch

name function

primitive function
printerror function
printwarning function
showlines function
strings table

S undefined

toks function
type function

trackers (context)

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

typesetters (context)

alignments	table	T handlers		
	table			
F handler		F installhandler		
F set	+-h1-	F processmath		
breakpoints	table	F set		
F define		F setcolor		
F handler		F setmath		
D mapping		F tomode		
T methods		firstlines	table	
T numbers		T actions		
F set		F default		
F setreplacement		F line		
cases	table	F word		
T actions		F handler		
F handler		F set		
F register		fontkerns	table	
F set		F handler		
characteralign	table	initials	table	
F handler		T actions		
F resetcharacter	align	F default		
F setcharacteral	ign	F addanchortolin	е	
characters	table	F addtoline		
F handler		F calculatedelta		
T methods		F checkline		
F replacenbsp		F handler		
F replacenbspace	s	F moveinline		
checkers	table	F normalize		
F handler		F set		
F reset		injectors	table	
F set		F check		
cleaners	table	T list		
F handler		F mark		
F set		F reset		
digits	table	F set		
T actions		F show		
F handler		italics	table	
F set		F enablemath		
directions	table	F enabletext		
F getfences		F forcevariant		
F getglobal		F handler		
F getmethod		F reset		
F handler		F set		

kerns	table	processors	table
D factors		F apply	
F handler		F register	
F keepligature		F reset	
B keeptogether		F split	
D mapping		F startapply	
F set		F stopapply	
manipulators	table	F stripped	
F apply		F tostring	
F applyspecific	ation	rubies	table
T methods		F attach	
F Word		F check	
F Words		showsuspects	function
F abbreviated	journal	spacings	table
F expandedjou	rnal	F define	
F lowercase		F handler	
F stripperiod		D mapping	
F uppercase		T numbers	
T patterns		T frenchpunct	uation
U list		T character	S
U pair		S name	
F splitspecific	ation	N number	
margins	table	F reset	
F finalhandler		F set	
F globalhandler		F setup	
F localhandler		wrappers	table
F save		F handler	
marksuspects	function	xtables	table
paragraphs	table	F cleanup	
F addanchortoli	ne	F construct	
F addtoline		F create	
F calculatedelt	a	F finish_row	
F checkline		F flush	
F handler		F initialize_co	onstruct
F moveinline		F initialize_re	eflow_height
F normalize		F initialize_re	eflow_width
F set		F next_row	
periodkerns	table	F reflow_height	t
D factors		F reflow_width	
F handler		F set_construct	t
D mapping		F set_reflow_he	eight
F set		F set_reflow_w	idth

unicode (extra lua)

ascii	table	F len	
F byte		F lower	
F char		F match	
F dump		F rep	
F find		F reverse	
F format		F sub	
F gfind		F upper	
F gmatch		toutf32string	function
F gsub		utf8	table
F len		F byte	
F lower		F char	
F match		F characters	
F rep		F chrlen	
F reverse		F count	
F sub		F dump	
F upper		F filetype	
grapheme	table	F find	
F byte		F format	
F char		F gfind	
F dump		F gmatch	
F find		F gsub	
F format		F is_valid	
F gfind		F len	
F gmatch		F length	
F gsub		F lower	
F len		F magic	
F lower		F match	
F match		F remapper	
F rep		F rep	
F reverse		F replacer	
F sub		F reverse	
F upper		F split	
latin1	table	F splitlines	
F byte		F sub	
F char		F subtituter	
F dump		F tocodes	
F find		F toeight	
F format		F toentities	
F gfind		F tostring	
F gmatch		F totable	
F gsub		F upper	

F ustring
F utf16_to_utf8_be
F utf16_to_utf8_be_t
F utf16_to_utf8_le
F utf16_to_utf8_le_t
F utf16_to_utf8_t
F utf32_to_utf8_be
F utf32_to_utf8_be_t
F utf32_to_utf8_be_t
F utf32_to_utf8_le

F utf32_to_utf8_le_t
F utf32_to_utf8_t
F utf8_to_utf16
F utf8_to_utf16_be
F utf8_to_utf16_le
F utf8_to_utf8_t
F values
F xstring

url (context)

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

utf8 (context)

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

utilities (context)

debugger	table	Fs	kiplong
F disable			kipposition
F enable			kipshort
F savestats		F w	ritebyte
F showstats			ritecardinal2
F showtraceback			ritecardinal4
files	table		ritestring
F close		forma	tters table
F getposition		F fo	ormatcolumns
F getsize		F l:	ist
F look		F s	tripzeros
F open		garba	gecollector table
F read2dot14		F cl	heck
F readbyte		N c	riterium
F readbytes			nabled
F readbytetable		lua	table
F readcardinal		B a	lwaysstripcode
F readcardinal1		F cl	heckmemory
F readcardinal2		F c	ompile
F readcardinal2le		Flo	oadedluacode
F readcardinal3		Fl	oadstring
F readcardinal3le		Flo	oadstripped
F readcardinal4		N ne	ofstrippedbytes
F readcardinal4le		N ne	ofstrippedchunks
F readchar		Fre	egisterfinalizer
F readfixed2		B s	tripcode
F readfixed4		T s	trippedchunks
F readinteger		F s	trippedloadstring
F readinteger1		T s	uffixes
F readinteger2		S	lua
F readinteger2le		S	luc
F readinteger3		S	lui
F readinteger3le		S	luj
F readinteger4		S	luv
F readinteger4le		S	tma
F readsignedbyte		S	tmc
F readstring		S	tua
F readtag		S	tuc
F setposition		packe	rs table
F size		F h	ashed
F skip		Fn	ew

F pack	T modern-light, latin-modern-light-designsize, latin-mo
F simplehashed	B latin-modern-light
F strip	B latin-modern-light-designsize
F unpack	B modern-light
N version	T modern-mono, modern-base-mono
parsers table	B modern-base-mono
F add_settings_to_array	B modern-mono
F arguments_to_table	T modern-variable,latin-modern-variable-designsize,la
F array_to_string	B latin-modern-variable
F csvsplitter	B latin-modern-variable-designsize
F getparameters	B modern-variable
F groupedsplitat	T modernvariable, modern-variable
F hash_to_string	B modern-variable
T hashes	B modernvariable
T settings_to_set	T modernvariablelight,modern-variable-light
T min,max,fit,broad,auto	B modern-variable-light
B auto	B modernvariablelight
B broad	T serif,sans,mono
B fit	B mono
B max	B sans
B min	B serif
T modern,latin-modern	T text,hidden,paper,page,leftpage,rightpage
B latin-modern	B hidden
B modern	B leftpage
T modern,latin-modern,modern-variable,la	tin-modern-variable,modepangecondensed,latin-modern-condensed
B latin-modern	B paper
B latin-modern-condensed	B rightpage
B latin-modern-variable	B text
B modern	F iterator
B modern-condensed	F keq_to_hash
B modern-variable	F listitem
T modern,latin-modern-designsize,latin-m	odern F make_settings_to_hash_pattern
B latin-modern	F mergehashes
B latin-modern-designsize	F options_to_array
B modern	F options_to_hash
T modern,modern-base	T patterns
B modern	U settings_to_array
B modern-base	U settings_to_hash_a
T modern-condensed, latin-modern-condense	d-designsize,latin Uno odetringon_doo n_ had sh <u>m</u> ddern-light-condensed,latin-modern-l
B latin-modern-condensed	U settings_to_hash_c
B latin-modern-condensed-designsize	U unittotex
B latin-modern-light-condensed	F process_stripped_settings
B modern-condensed	F rfc4180splitter
B modern-light-condensed	F runtime

F settings_to_arra	V	F di	.sable	
F settings_to_arra			able	
F settings to arra			itialize	
F settings_to_hash		F li		
F settings_to_hash		F ne		
F settings_to_hash	_		gister	
F settings_to_numb	_	F re	_	
F settings_to_set	CIS	F re	•	
F simple_hash_to_s	tring	F sh		
F splitmethod	ET 111g	stacke		table
F splitthousands		F ne		cabic
F stepper		storag	•••	table
F stripped_setting	s to array	-	locate	
F unittotex	5_15_44,		ecked	
F unittoxml		F ma		
randomizer	table	F ma		
F get			tinitializer	
F getnumber			arse	
F getseed		stream		table
F popseed		Fcl	ose	
F pushseed		Fae	tposition	
F reuseseed		Flo	•	
F setseed		F op	en	
F setseedi		·	ad2dot14	
report	function	F re	ad2dot4	
sequencers	table	F re	adbyte	
F appendaction		F re	adbytes	
F appendgroup		F re	adbytetable	
F compile		F re	adcardinal	
F disableaction		F re	adcardinal1	
F disablegroup		F re	adcardinal2	
F enableaction		F re	adcardinal2LE	
F enablegroup		F re	adcardinal3	
D functions		F re	adcardinal3le	
F localize		F re	adcardinal4	
F new		F re	adchar	
F nodeprocessor		F re	adfixed2	
F prependaction		F re	adfixed4	
F prependgroup		F re	adinteger	
F removeaction		F re	adinteger1	
F replaceaction		F re	adinteger2	
F setkind		F re	adinteger2le	
F tostring		F re	adinteger3	
setters	table	F re	adinteger3le	

F	readinteger4	
F	readinteger4le	
F	readsignedbyte	
F	readstring	
F	setposition	
F	size	
F	skip	
F	skipbytes	
F	skiplong	
F	skipshort	
٦i	ngs	table
F	collapsecrlf	

F skipshort strings table F collapsecrlf T formatters F add F new F newcollector F newrepeater F nice T striplinepatterns

U collapse

U prune and collapse

U prune and no empty

U prune

	U	retain			
	U	retain	and	co	llapse
	U	retain	and	no	empty
F	S	triplin	es		
F	S	triplon	g		
F	t	abtospa	ce		
Т	t	racers			
tabl	e	5			table
F	а	ccessta	ble		
F	d	efinedt	able		

F definedtable
F definetable
F encapsulate
F insertaftervalue
F insertbeforevalue
F migratetable
F removevalue
F replacevalue

templates table F load

F replace F replacer F resolve

vf (context)

char	function	pdf	function
down	function	рор	function
fontid	function	push	function
image	function	right	function
node	function	rule	function
nop	function	special	function

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		

xml (context)

addentitiesdoctype	function	F padding	
addspecialcode	function	F stylevalue	
after	function	defaulthandlers	table
all	function	D file	cabec
applylpath	function	D parsedxml	
applyselector	function	D string	
assign	function	D tex	
attribute	function	D texline	
badinclusions	function	D texspace	
before	function	D verbose	
body	function	defaultprotocol	string
builtinentities	table	delete	function
B amp		delete element	function
B apos		despecialized	function
B gt		each	function
B lt		each element	function
B quot		elements	function
cdata	function	elementtocdata	function
cdatatotext	function	empty	function
checkbom	function	entities	data table
checkerror	function	erase	function
checknamespace	function	errorhandler	function
checkns	function	escaped	function
cleansed	function	expressions	table
collect	function	F boolean	
collect_elements	function	F child	
collect_tags	function	F contains	
collect_texts	function	F count	
collected	function	F error	
collecttexts	function	F find	
content	function	F idstring	
convert	function	F lower	
сору	function	F name	
count	function	F number	
cprint	function	F oneof	
CSS	table	F print	
F applyselector		F quit	
F colorspecification		F tag	
F dimension		F text	
F fontspecification		F undefined	
F mappedstylevalue		F upper	

fillin	function	F default	
filter	function	F elements	
finalizers	table	F empty	
F paragraphs		F first	
T tex		F function	
F all		F index	
F attribute		Flast	
F chainattribute		F lowerall	
F chainpath		F match	
F command		F name	
F concat		F position	
F concatrange		F reverse	
F context		F table	
F count		F tag	
F ctxtext		F tags	
F default		F text	
F first		F texts	
F function		F upperall	
F index		first	function
F last		found	function
F lettered		functions	table
F lower		getbuffer	function
F lowerall		gethandlers	function
F match		gethandlersfunction	function
F name		helpers	table
F param		F recursetext	
F parameter		include	function
F position		inclusion	function
F reverse		inclusions	function
F stripped		index	function
F tag		inheritedconvert	function
F tags		inject	function
F text		inject_element	function
F upper		inject_element_after	function
F upperall		<pre>inject_element_before</pre>	function
F xml		injectafter	function
T xml		injectbefore	function
F all		insert	function
F att		insert_element	function
F attribute		<pre>insert_element_after</pre>	function
F attributes		insert_element_before	function
F cdata		insertafter	function
F chainattribute		insertbefore	function
F count		insertcdata	function

insertcomment	function	remapname	function
inspect	function	remapnamespace	function
is_valid	function	remaptag	function
kind	function	rename	function
last	function	renamespace	function
lastmatch	function	reparsedentitylpeg	userdata
load	function	replace	function
lpath	function	replace_element	function
lpathcached	function	resetinjectors	function
lpathcalls	function	resolvens	function
lshow	function	root	function
makestandalone	function	save	function
match	function	selection	function
name	function	separate	function
newhandlers	function	serialize	function
nodesettostring	function	serializetotext	function
originalload	function	setcdata	function
package	function	setcomment	function
parent	function	sethandlersfunction	function
parsedentitylpeg	userdata	setinjectors	function
pihandlers	table	setproperty	function
F injector		settings	function
F tex		specialcodes	table
F tex placeholders	table	specialcodes S "	table
<pre>placeholders F unknown_any_entity</pre>	table	S " S #	table
<pre>placeholders F unknown_any_entity F unknown_dec_entity</pre>	table	S # S # S \$	table
<pre>placeholders F unknown_any_entity F unknown_dec_entity F unknown_hex_entity</pre>		S # S \$ S \$	table
<pre>placeholders F unknown_any_entity F unknown_dec_entity F unknown_hex_entity popmatch</pre>	function	S # S \$ S \$ S %	table
placeholders F unknown_any_entity F unknown_dec_entity F unknown_hex_entity popmatch position	function function	S " S # S \$ S % S & S &	table
placeholders F unknown_any_entity F unknown_dec_entity F unknown_hex_entity popmatch position privatecodes	function function table	S " S # S \$ S % S & S & S *	table
placeholders F unknown_any_entity F unknown_dec_entity F unknown_hex_entity popmatch position privatecodes privatetoken	function function table function	S " S # S \$ S % S & S ' S < S >	table
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placeholders F unknown_any_entity F unknown_dec_entity F unknown_hex_entity popmatch position privatecodes privatetoken process process_attributes	function function table function function function	S " S # S \$ S & S & S ' S < S > S > S }	table
placeholders F unknown_any_entity F unknown_dec_entity F unknown_hex_entity popmatch position privatecodes privatetoken process process_attributes process_elements	function function table function function function function	S " S # S \$ S & S & S \ S \ S \ S \ S \ S \ S \ S \ S \ S \	table
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placeholders F unknown_any_entity F unknown_dec_entity F unknown_hex_entity popmatch position privatecodes privatetoken process process_attributes process_elements processattributes profiled pushmatch raw registerentity registerns	function function table function function function function function table function function function function function	<pre>S " S # S \$ S \$ S & S * S & S ' S < S > S \ S \ S \ S \ S \ S \ S \ S \ S \ S \</pre>	table function function function
placeholders F unknown_any_entity F unknown_dec_entity F unknown_hex_entity popmatch position privatecodes privatetoken process process_attributes process_elements processattributes profiled pushmatch raw registerentity registerns reindex	function function table function function function function function table function function function function function function function function	<pre>S " S # S \$ S \$ S & S & S ' S < S > S / S / S / S / S / S / S / S / S / S /</pre>	table function function function function
placeholders F unknown_any_entity F unknown_dec_entity F unknown_hex_entity popmatch position privatecodes privatetoken process process_attributes process_elements processattributes profiled pushmatch raw registerentity registerns reindex remap_name	function function table function function function function function table function	<pre>S " S # S \$ S \$ S & S & S ' S < S > S \ S \ S \ S \ S \ S \ S \ S S \ S \ S \ S \ S S \ S \ S r specialhandler sprint string strip strip_whitespace stripelement</pre>	table function function function function function
placeholders F unknown_any_entity F unknown_dec_entity F unknown_hex_entity popmatch position privatecodes privatetoken process process_attributes process_elements processattributes profiled pushmatch raw registerentity registerns reindex	function function table function function function function function table function function function function function function function function	<pre>S " S # S \$ S \$ S & S & S ' S < S > S / S / S / S / S / S / S / S / S / S /</pre>	table function function function function

text	function	traverse	function
textonly	function	unescaped	function
texttocdata	function	unescapedentitylpeg	userdata
tocdata	function	unprivatized	function
toelement	function	unspecialized	function
tostring	function	withelement	function
totable	function	withelements	function
toxml	function	wrap	function
tprint	function	xmlns	table

zip (extra lua)

archivestableopenarchivefunctionclosefunctionopenfilefunctionclosearchivefunctionregisteredfilestableopenoverloaded functiontypefunction

zlib (extra lua)

adler32 function
compress function
compressobj function
crc32 function

decompress function
decompressobj function
version function