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

ConT<sub>F</sub>Xt LMTX

## global (alias: \_G)

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

load	function	publications	table
loaders	data table	pushleaderlevel	function
loadfile	function	rawequal	function
loadstring	function	rawget	function
localboxfilter	function	rawlen	function
logs	table	rawset	function
lpdf	table	recolor	function
lpeg	table	regimes	table
lua	table	require	function
luac	table	required	function
luatex	table	resolvers	table
lxml	table	ruledspace	function
math	table	sandbox	table
mathematics	table	scripts	table
md5	table	select	function
metapost	table	set	table
mime	table	setinspector	function
moduledata	table	setmispector	function
modules	table		function
	function	setsplitlisthtdp sha2	table
mp mp1 i b	table		number
mplib next	function	shipbox_ref_h	number
	table	<pre>shipbox_ref_v sio</pre>	table
noads node	table	socket	table
nodes number	table table	sorters	table table
		sparse statistics	
objects	table		table
optional	table	status	table
optionalrequire	function	storage	table
0S	table	streams	table table
p_number_p	userdata	string	
p_number_u	userdata table	structures table	table table
package			
pagebuilders	table	tex	table data table
pairs	function	texconditionals	
parametersets	table	texconfig	table
pcall	function	texconstants	data table
pdf	table	texifs texio	data table
pdfdecode	table		table
pdfe	table	texisdefined	data table
physics	table	texmodes	data table
pngdecode	table	texsystemmodes	data table
popleaderlevel	function	thirddata	table
print	function	toboolean	function

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

## attributes (context)

alternates	table		formatgray
N attribute			getpagecolormodel
D data			gray
F enable			graytohsv
F handler			handler
F register		Т	helpers
D registered			F complement
D values			F inbetween
applyoverloads	function		F justone
colorintents	table	F	hsvtogray
N attribute		F	hsvtorgb
D data		F	hwbtorgb
F enable		F	iccprofile
F handler		F	isblack
F register		F	labtorgb
D registered		F	labtoxyz
colors	table	N	main
N attribute		S	model
F cmyk		D	models
F cmyktogray		F	mpcolor
F cmyktorgb		F	mpnamedcolor
F colorcomponent	s	F	mpoptions
D counts		F	namedcolorattributes
B couple		N	none
F currentmodel		F	popset
F currentnamedmo	del	F	processcolorcomponents
D data		F	pushset
N default		F	register
F defineintermed	iatecolor	D	registered
F definemultiton	ecolor	F	registerspotcolor
F defineprocesso	olor	F	rgb
F defineprocesso	olordirect	F	rgbtocmyk
F definesimplegr	ay	F	rgbtogray
F definespotcolo	r	F	rgbtohsv
F definetranspar	ency	F	rgbtoxyz
F enable		N	selector
F filter		F	setlist
N forced		F	setmodel
F forcedmodel		F	setpagecolormodel
F forcesupport		D	sets
F formatcolor		F	spec

F spot		F disabletrigger	ing
F spotcolorname		F enabletriggeri	.ng
F spotcolorparer	t	F finalize	
F spotcolorvalue		F initialize	
B supported		F process	
F toattributes		F selective	
F transparencyco	mponents	F simple	
B triggering		F stacked	
F usecolors		F stacker	
D valid		system	function
F value		tooverloads	function
D values		transparencies	table
B weightgray		N attribute	
F xyztolab		D data	
F xyztorgb		F enable	
define	function	F forcesupport	
effects	table	F handler	
N attribute		T names	
D data		N color	
F enable		N colorburn	
F handler		N colordodge	
F register		N darken	
D registered		N difference	
D values		N exclusion	
handlers	table	N hardlight	
list	data table	N hue	
markasoverload	function	N lighten	
names	data table	N luminosity	
negatives	table	N multiply	
N attribute		N none	
D data		N normal	
F enable		N overlay	
F handler		N saturation	
F register		N screen	
D registered		N softlight	
F set		N none	
numbers	data table	F register	
ofnode	function	D registered	
private	function	B supported	
public	function	F toattribute	
restore	function	B triggering	
save	function	F value	
showcurrent	function	D values	
states	table	unsetvalue	number

#### viewerlayers table

N attribute

F cleanup

D data

F define

F definedlayoutcomponent

F enable

F forcesupport

F handler

B hasorder

D listwise

F register

D registered

F resolve\_begin

F resolve\_end

F resolve\_reset

F resolve\_step

D scopes

F setfeatures

F start F stop

B supported

D values

#### backends (context)

closeout function F attachmentid codeinjections table F bitmap F registerboxresource F clonefield F restoreboxresource F copyimage current strina F definefield defaults table F definefieldset T codeiniections F defineviewerlaver F prerollreference F embedfile F vfstartcolor F embedimage F vfstopcolor F enabletags T nodeiniections F exportformdata F cmvkcolor F fieldsurrounding F destination F flushmergelayer F graycolor F getbookmarks F injectknockout F getboxresourcebox F injectoverprint F getdefaultfieldvalue F reference F getfieldcategory F rgbcolor F getfieldset F getformatoption F spotcolor F transparency F getinfo T registrations F getpreviewfigure F transparency F getrefobj D tables F insertrenderingwindow getcallbackstate function F jp2 included table F jpg B context F maptag B date F mergebookmarks B id F mergecomments B metadata F meraefields B pdf F mergereferences initialize function F mergeviewerlayers latelua function F newimage nodeinjections table F png nothing function F prerollreference function openout F presetsymbol registered table F presetsymbollist T pdf F processrendering F registerdocumentcloseaction T codeinjections F addbookmarks F registerdocumentopenaction F analyzenormalsymbol F registeredsymbol F analyzesymbol F registerpagecloseaction

F registerpageopenaction F changestackedlayer F registerpattern F cmykcolor F registersymbol F comment F destination F ruleactionbox F ruleactiondraw F effect F ruleactionfill F getboxresourcedimensions F ruleactionmp F graycolor F ruleactionstroke F injectbitmap F insertu3d F saveboxresource F scanimage F knockout F setattachmentsupport F negative F setfieldcalculationset F overprint F setfigurealternative F positive F setfigurecolorspace F reference F setfiguremask F rgbcolor F setformat F spotcolor F setformsmethod F startalternate F setpagetransition F startlayer F settaggingsupport F startstackedlayer F setxmpfile F stopalternate F startlaver F stoplayer F startunicodetoactualtext F stopstackedlayer F startunicodetoactualtextdirect F transparency F stoplayer F typesetfield F stopunicodetoactualtext F useboxresource F stopunicodetoactualtextdirect T registrations F supportedformats F cmykindexcolor F unicodetoactualtext F cmykspotcolor F useviewerlayer F getspotcolorreference F validfield F grayindexcolor F validfieldcategory F grayspotcolor F rgbindexcolor F validfieldset F vfstartcolor F rgbspotcolor F vfstopcolor F spotcolorname F wrapimage F transparency S name T tables

T nodeinjections

F annotation F attachfile

F addtags

registrations tables table writeout function

table

## basexx (extra lua)

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

# 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
empty	function
erase	function
exists	function
get	function
getcontent	function
getlines	function
gettexbuffer	function
loadcontent	function
parallel	table

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

## builders (context)

ahaaknanaantavt	function	
checkparcontext checksidefloat	function	F stop
	function	F tag
kernel	table	<b>profiling</b> table
F collapsing		F add
F hyphenating		F distance
F kerning		F fixedprofile
F ligaturing		F get
F mlisttohlist		F list
local_box_filter		F pagehandler
paragraphs	table	F profilebox
T constructors		F set
N attribute		<b>vspacing</b> table
F define		D categories
F disable		F checkstrutdepth
F enable		F collapsevbox
F handler		T data
T methods		D map
F basic		D skip
F default		D snapmethods
F hpack		F definesnapmethod
F oneline		B fixed
D names		F forcepageflush
D numbers		F forcestrutdepth
F set		F getnofpreviouslines
F start		F inject
F stop		F injectdisable
T expansion		F injectpenalty
F trace		F injectskip
F keeptogether		F pagehandler
F registertogether		F pageoverflow
T solutions		F popatsame
T splitters		F pushatsame
F define		F setmap
F optimize		F setskip
T registered		F snapbox
F reset		F synchronizepage
F set		F tocategories
F split		F tocategory
F start		F vboxhandler

## caches (context)

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

#### callback (basic tex)

find function
known function
list function

register overloaded function

usage function

#### callbacks (context)

freeze function B intercept tex error functions table B kerning B ligaturing F start page number F stop page number B linebreak filter function known B local\_box\_filter list data table B make extensible pop function B missing character push function B mlist to hlist register function B open data file report function B paragraph context supported table B post\_linebreak\_filter B alignment\_filter B pre dump B append to vlist filter B pre linebreak filter B begin paragraph B pre output filter B build\_page\_insert B process jobname B buildpage\_filter B register\_extensible B contribute filter B show error message B define font B show lua call B find format file B show warning message B find log file B show whatsit B get attribute B start file B glyph run B start run B handle overload B stop file B hpack filter B stop run B hpack quality B trace memory B hyphenate B vpack\_filter B vpack quality B insert par B intercept lua error B wrapup run

#### catcodes (context)

 register function

#### characters (context)

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

function setactivecatcodes setlettercatcodes function setothercatcodes function function shape shaped function shash data table shchars data table data table shcodes showstring function **specialchars** data table specials data table splits table T char

T char
T compat

subscriptstablesuperscriptstablesynonymsdata tabletextable

D accentmapping
D commandmapping
F defineaccents
F safechar
F strtextoutf
F strtoutfpattern
F toutf

F toutfpattern

textclasses table tonumber function ucchars data table uccode function uccodes data table uhash data table unicodechar function function upper verbosemarks data table

#### chemistry (context)

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

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

## containers (context)

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

## converters (context)

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

uchexnumbers upper verbose function function table F translate weekday word

words

function function function

## coroutine (basic lua)

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

#### ctxrunner (context)

load function prepfiles data table
preparedfile function resolve function

## data (context)

action function
depth number
height number
objref number

prerolled string
reference number
width number

## debug (basic lua)

getinfo function
sethook function

traceback function

## dir (context)

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

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

#### directives (context)

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

register function report function show function value function values function

#### document (context)

arguments files functions getargument getfilename options data table table table function function table

D modes
D modules

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

T commandline

D environments

D modes
D modules
T ctxfile

D environments

## documentdata (context)

variable function

## drivers (context)

applyanchor	function	T whatsit
convert	function	S name
converters	table	T json
F analyze	cabic	T actions
F engine		F cleanup
F lmtx		F convert
F resyncbox		F finalize
enable	function	F initialize
gethpos	function	F outputfilename
getpos	function	F prepare
getrpos	function	F wrapup
getvpos	function	T flushers
helpers	table	F character
install	function	F popleaderlevel
instances	table	F pushleaderlevel
T empty		F rule
T actions		F setstate
F convert		F simplerule
F prepare		F specialrule
T flushers		F updatefontstate
F popleaderl	evel	T whatsit
F pushleader	level	S name
T whatsit		T lua
S name		T actions
T js		F cleanup
T actions		F convert
F cleanup		F finalize
F convert		F initialize
F finalize		F outputfilename
F initialize		F prepare
F outputfile	name	F wrapup
F prepare		T flushers
F wrapup		F character
T flushers		F popleaderlevel
F character	1	F pushleaderlevel
F popleaderl		F rule
F pushleader F rule	tevet	F simplerule F specialrule
F rute F simplerule		F updatefontstate
F specialrul	۵	T whatsit
F updatefont		S name
i upuateioiit	Juice	2 Hallic

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

## environment (context)

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

### experiments (context)

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

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

#### figures (context)

F resetstore

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

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

# file (basic lua)

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

# fio (extra lua)

read2dot14 function readinteger2 function readbytes function readinteger3 function readcardinal1 function readinteger3 function readcardinal2 function readinteger4 function readcardinal2 function readinteger4 function readcardinal2 function readinteger4 function readcardinal2 function readinteger4 function readcardinal3 function readinteger4ble function readcardinal3 function setposition function readcardinal3le function skipposition function readcardinal4 function writecardinal1 function readcardinal4le function writecardinal2 function readcardinaltable function writecardinal2 function readcardine function writecardinal2 function readcstring function writecardinal3 function	getposition	function	readinteger1le	function
readbytetable function readinteger3 function readcardinal1 function readinteger3le function readcardinal2le function readinteger4 function readcardinal2 function readinteger4le function readcardinal2le function readinteger4ble function readcardinal3 function setposition function readcardinal3le function skipposition function readcardinal4 function writecardinal1 function readcardinal4le function writecardinal1le function readcardinal4le function writecardinal2 function readcardinal4le function writecardinal2 function readcardine function writecardinal2le function	read2dot14	function	readinteger2	function
readcardinal1 function readinteger3le function readcardinal2 function readcardinal2 function readcardinal2 function readcardinal3 function readcardinal3 function setposition function readcardinal3le function skipposition function readcardinal4 function writecardinal1 function readcardinal4le function writecardinal1le function readcardinal4le function writecardinal2 function readcardinal4le function writecardinal2 function readcardinal4le function writecardinal2le function readcardinal4le function writecardinal2le function	readbytes	function	readinteger2le	function
readcardinalle function readinteger4 function readcardinal2 function readinteger4le function readcardinal2le function readcardinal3 function setposition function readcardinal3le function skipposition function readcardinal4 function writecardinal1 function readcardinal4le function writecardinal1le function readcardinal4le function writecardinal2 function readcardinaltable function writecardinal2 function readcline function writecardinal2le function	readbytetable	function	readinteger3	function
readcardinal2 function readinteger4le function readcardinal2le function readcardinal3 function setposition function readcardinal3le function skipposition function readcardinal4 function writecardinal1 function readcardinal4le function writecardinal1le function readcardinal4le function writecardinal2 function readcardinal4le function writecardinal2 function readcline function writecardinal2le function	readcardinal1	function	readinteger3le	function
readcardinal2le function readintegertable function readcardinal3 function setposition function readcardinal3le function skipposition function readcardinal4 function writecardinal1 function readcardinal4le function writecardinal1le function readcardinaltable function writecardinal2 function readcline function writecardinal2le function	readcardinal1le	function	readinteger4	function
readcardinal3 function setposition function readcardinal3le function skipposition function readcardinal4 function writecardinal1 function readcardinal4le function writecardinal1le function readcardinaltable function writecardinal2 function readcline function writecardinal2le function	readcardinal2	function	readinteger4le	function
readcardinal3le function skipposition function readcardinal4 function writecardinal1 function readcardinal4le function writecardinal1le function readcardinaltable function writecardinal2 function readcline function writecardinal2le function	readcardinal2le	function	readintegertable	function
readcardinal4 function writecardinal1 function readcardinal4le function writecardinal1le function readcardinaltable function writecardinal2 function readcline function writecardinal2le function	readcardinal3	function	setposition	function
readcardinal4le function writecardinal1le function readcardinaltable function writecardinal2 function readcline function writecardinal2le function	readcardinal3le	function	skipposition	function
readcardinaltablefunctionwritecardinal2functionreadclinefunctionwritecardinal2lefunction	readcardinal4	function	writecardinal1	function
readcline function writecardinal2le function	readcardinal4le	function	writecardinal1le	function
	readcardinaltable	function	writecardinal2	function
readcstring function writecardinal3 function	readcline	function	writecardinal2le	function
	readcstring	function	writecardinal3	function
readfixed2 function writecardinal3le function	readfixed2	function	writecardinal3le	function
readfixed4 function writecardinal4 function	readfixed4	function	writecardinal4	function
<pre>readinteger1 function writecardinal4le function</pre>	readinteger1	function	writecardinal4le	function

# floats (context)

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

# font (basic tex)

${\bf add characters}\\$	function	id	function
current	function	max	function
define	function	nextid	function
getfont	function	setfont	function
getfontdimen	function	setfontdimen	function

# fonts (context)

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

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

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

F readbytetable F writeinteger1 F readcardinal F writeinteger1le F readcardinal1 F writeinteger2 F readcardinal1le F writeinteger2le F readcardinal2 F writeinteger3 F readcardinal2le F writeinteger3le F readcardinal3 F writeinteger4 F readcardinal3le F writeinteger4le F readcardinal4 F writestring F readcardinal4le F stripredundant F readcardinaltable F sva F readchar N tableversion F readcline F unifymissing F readcstring F unpack F readfixed2 F vhea F readfixed4 F vmtx F readinteger F vora F readinteger1 F vvar F woff2otf F readinteger1le F readinteger2 F registerpalette F readinteger2le F registerplugin F readinteger3 F reorderlookups F readinteger3le F scriptandlanguage F readinteger4 F setdynamics F readinteger4le F setfeatures F readintegertable T statistics F readsignedbyte D usedfeatures F readstring D sygcache B sygenabled F readtag F setposition T tables F size D baselines F skip D features F skiplong D featuretypes F skipposition D languages F skipshort D scripts F writebyte F texthandler F writecardinal1 T vectors F writecardinal1le T arab F writecardinal2 T gpos F writecardinal2le N curs F writecardinal3 N kern F writecardinal3le N mark F writecardinal4 N mkmk F writecardinal4le T qsub

N calt	F initializefe	eatures
N ccmp	D loadedfonts	
N cswh	N noffontsload	led
N dlig	N nofsharedfor	its
N fina	N nofsharedhas	hes
N init	N nofsharedvec	tors
N isol	N privateoffse	et
N liga	D privateslots	;
N medi	F readanddefin	ie
N mset	F registerfeat	ure
N rclt	F resetfeature	
N rlig	B resolvevirtu	ualtoo
N version	F scale	
T pfb	F scaled	
F loadvector	F setfactor	
T tfm	F setfeature	
D cache	F setmathparam	neter
D features	F setname	
N maxnestingdepth	B sharefonts	
N maxnestingsize	F trytosharefo	ont
T readers	N version	
		function
F loadpk	current	
F loadpk F loadtfm	currentid	function
·		
F loadtfm	currentid	function
F loadtfm	currentid definers	function
F loadtfm F loadtfmvf F loadvf	currentid definers F addlookup	function table
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk F reencode	currentid definers  F addlookup F analyze F applypostpro F checkedmode	function table
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk	currentid definers F addlookup F analyze F applypostpro	function table
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk F reencode F setfeatures N version	currentid definers  F addlookup F analyze F applypostpro F checkedmode F checkedscrip S defaultlooku	function table occessors
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk F reencode F setfeatures N version T vf	currentid definers  F addlookup F analyze F applypostpro F checkedmode F checkedscrip S defaultlooku F define	function table
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk F reencode F setfeatures N version T vf T combinations	currentid definers  F addlookup F analyze F applypostpro F checkedmode F checkedscrip S defaultlooku F define F getspecifica	function table
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk F reencode F setfeatures N version T vf T combinations F combine	currentid definers  F addlookup F analyze F applypostpro F checkedmode F checkedscrip S defaultlooku F define F getspecifica F internal	function table
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk F reencode F setfeatures N version T vf T combinations F combine T combiner	currentid definers  F addlookup F analyze F applypostpro F checkedmode F checkedscrip S defaultlooku F define F getspecifica F internal F loadfont	function table
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk F reencode F setfeatures N version T vf T combinations F combine T combiner D commands	currentid definers  F addlookup F analyze F applypostpro F checkedmode F checkedscrip S defaultlooku F define F getspecifica F internal F loadfont F makespecific	function table
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk F reencode F setfeatures N version T vf T combinations F combine T combine D commands D helpers	currentid definers  F addlookup F analyze F applypostpro F checkedmode F checkedscrip S defaultlooku F define F getspecifica F internal F loadfont F makespecific T methods	function table
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk F reencode F setfeatures N version T vf T combinations F combine T combine D commands D helpers D math	currentid definers  F addlookup F analyze F applypostpro F checkedmode F checkedscrip S defaultlooku F define F getspecifica F internal F loadfont F makespecific T methods F install	function table
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk F reencode F setfeatures N version T vf T combinations F combine T combine D commands D helpers D math N version	currentid definers  F addlookup F analyze F applypostpro F checkedmode F checkedscrip S defaultlooku F define F getspecifica F internal F loadfont F makespecific T methods F install D variants	function table
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk F reencode F setfeatures N version T vf T combinations F combine T combiner D commands D helpers D math N version D whatever	currentid definers  F addlookup F analyze F applypostpro F checkedmode F checkedscrip S defaultlooku F define F getspecifica F internal F loadfont F makespecific T methods F install D variants F read	function table
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk F reencode F setfeatures N version T vf T combinations F combine T combine D commands D helpers D math N version D whatever F hashfeatures	currentid definers  F addlookup F analyze F applypostpro F checkedmode F checkedscrip S defaultlooku F define F getspecifica F internal F loadfont F makespecific T methods F install D variants F read F register	function table
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk F reencode F setfeatures N version T vf T combinations F combine T combiner D commands D helpers D math N version D whatever F hashfeatures F hashinstance	currentid definers  F addlookup F analyze F applypostpro F checkedmode F checkedscrip S defaultlooku F define F getspecifica F internal F loadfont F makespecific T methods F install D variants F read F register F registered	function table
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk F reencode F setfeatures N version T vf T combinations F combine T combiner D commands D helpers D math N version D whatever F hashfeatures F hashinstance T hashmethods	currentid definers  F addlookup F analyze F applypostpro F checkedmode F checkedscrip S defaultlooku F define F getspecifica F internal F loadfont F makespecific T methods F install D variants F read F registered F registerfall	function table  ccessors  ot  ip  ation  cation
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk F reencode F setfeatures N version T vf T combinations F combine T combiner D commands D helpers D math N version D whatever F hashfeatures F hashmethods F normal	currentid definers  F addlookup F analyze F applypostpro F checkedmode F checkedscrip S defaultlooku F define F getspecifica F internal F loadfont F makespecific T methods F install D variants F read F register F registered F registerspli	function table  cessors  ct  p  ction  cation
F loadtfm F loadtfmvf F loadvf F pktopdf F showpk F reencode F setfeatures N version T vf T combinations F combine T combiner D commands D helpers D math N version D whatever F hashfeatures F hashinstance T hashmethods	currentid definers  F addlookup F analyze F applypostpro F checkedmode F checkedscrip S defaultlooku F define F getspecifica F internal F loadfont F makespecific T methods F install D variants F read F registered F registerfall	function table  ccessors  ct  p  ction  cation  backfont

E magalya		E tune?	
F resolve		F type3	
T resolvers		T multiple	
F file		F opentype	
F name		T substitution	
F spec	function	F opentype	ء ا
definetypeface	function	<b>goodies</b> tabl	-e
dropins	table	D colorschemes	
F clone		T data	
F getshape		T dejavu-math	
F getshapes		S author	
F nextid		S comment	
F provide		S copyright	
F registerglyph		B initialized	
F registerglyphs		T mathematics	
F swap		T alternates	
F swapone		T dotless	
encodings	table	S comment	
T agl		S feature	
D ctxcodes		N value	
D extras		T kerns	
D names		T *:0×1D449	
D synonyms		T bottomright	
D unicodes		S name	
D cache		S version	
F is_known		D designsizes	
D known		D filenames	
F load		F getcompositions	
F make_unicode_ve	ctor	T list	
D math		F load	
N version		F prepare_features	
enhanceid	function	F register	
expansions	data table	F registerpostprocessor	
formats	data table	F report	
getalternate	function	T suffixes	
getindices	function	<b>handlers</b> tabl	le
getkern	function	<b>hashes</b> tabl	le
getmultiple	function	D characters	
getsubstitution	function	D classes	
getters	table	D csnames	
T alternate		D descriptions	
F opentype		D dynamics	
T kern		D emwidths	
F opentype		D exheights	
F type1		D extensibles	

D features	F gotneivetenede
	F getprivaten
D identifiers D italics	F getprivates F getprivateslot
D lastmathids	F hasprivate
D marks	F indextoslot
D mathparameters	F mathscriptslots
D modes	F name
D originals	F nametoslot
D parameters	F newprivateslot
T processes	F prependcommands
D properties	F prependcommandtable
D quads	F privateslot
D resources	F registerglyphbox
T setdynamics	F scalecommands
T shapes	F setboxdirectly
D spaces	F setboxglyph
D spacings	F setboxglyphs
T streams	F setdigitwidth
D unicodes	F setmetaglyph
D unislots	F setmetaglyphs
D variants	F splitfontpattern
D xheights	F tochar
D XIIEIGITES	i coenar
helpers table	T vfinjectors
helpers table	T vfinjectors
helpers table F addextraprivate	T vfinjectors F startcolor
helpers table F addextraprivate F addprivate	T vfinjectors F startcolor F stopcolor
helpers table F addextraprivate F addprivate F appendcommands	T vfinjectors F startcolor F stopcolor T vfspecials
helpers table F addextraprivate F addprivate F appendcommands F appendcommandtable	T vfinjectors F startcolor F stopcolor T vfspecials T backgrounds
helpers table F addextraprivate F addprivate F appendcommands F appendcommandtable F checkflags	T vfinjectors F startcolor F stopcolor T vfspecials T backgrounds T outlines
helpers table F addextraprivate F addprivate F appendcommands F appendcommandtable F checkflags F checkmerge	T vfinjectors F startcolor F stopcolor T vfspecials T backgrounds T outlines infofont function
helpers table  F addextraprivate F addprivate F appendcommands F appendcommandtable F checkflags F checkmerge F checksteps	T vfinjectors F startcolor F stopcolor T vfspecials T backgrounds T outlines infofont function iterators table
helpers table F addextraprivate F addprivate F appendcommands F appendcommandtable F checkflags F checkmerge F checksteps F collectanchors	T vfinjectors F startcolor F stopcolor T vfspecials T backgrounds T outlines infofont function iterators table F characters
helpers table  F addextraprivate  F addprivate  F appendcommands  F appendcommandtable  F checkflags  F checkmerge  F checksteps  F collectanchors  F combineglyphs	T vfinjectors F startcolor F stopcolor T vfspecials T backgrounds T outlines infofont function iterators table F characters F descriptions
helpers table  F addextraprivate  F addprivate  F appendcommands  F appendcommandtable  F checkflags  F checkmerge  F checksteps  F collectanchors  F combineglyphs  D commands	T vfinjectors F startcolor F stopcolor T vfspecials T backgrounds T outlines infofont function iterators table F characters F descriptions F glyphs
helpers table  F addextraprivate F addprivate F appendcommands F appendcommandtable F checkflags F checkmerge F checksteps F collectanchors F combineglyphs D commands F composecharacters	T vfinjectors F startcolor F stopcolor T vfspecials T backgrounds T outlines infofont function iterators table F characters F descriptions F glyphs loggers table
helpers table  F addextraprivate F addprivate F appendcommands F appendcommandtable F checkflags F checkmerge F checksteps F collectanchors F combineglyphs D commands F composecharacters F descriptiontoslot	T vfinjectors F startcolor F stopcolor T vfspecials T backgrounds T outlines infofont function iterators table F characters F descriptions F glyphs loggers table F format
helpers table  F addextraprivate F addprivate F appendcommands F appendcommandtable F checkflags F checkmerge F checksteps F collectanchors F combineglyphs D commands F composecharacters F descriptiontoslot F dimenfactor	T vfinjectors F startcolor F stopcolor T vfspecials T backgrounds T outlines infofont function iterators table F characters F descriptions F glyphs loggers table F format F onetimemessage
helpers table  F addextraprivate F addprivate F appendcommands F appendcommandtable F checkflags F checkmerge F checksteps F collectanchors F combineglyphs D commands F composecharacters F descriptiontoslot F dimenfactor F expandglyph	T vfinjectors F startcolor F stopcolor T vfspecials T backgrounds T outlines infofont function iterators table F characters F descriptions F glyphs loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures
helpers table  F addextraprivate F addprivate F appendcommands F appendcommandtable F checkflags F checkmerge F checksteps F collectanchors F combineglyphs D commands F composecharacters F descriptiontoslot F dimenfactor F expandglyph T extraprivates	T vfinjectors F startcolor F stopcolor T vfspecials T backgrounds T outlines infofont function iterators table F characters F descriptions F glyphs loggers table F format F onetimemessage F register F reportdefinedfonts
helpers table  F addextraprivate F addprivate F appendcommands F appendcommandtable F checkflags F checkmerge F checksteps F collectanchors F combineglyphs D commands F composecharacters F descriptiontoslot F dimenfactor F expandglyph T extraprivates F fontpatternhassize	T vfinjectors F startcolor F stopcolor T vfspecials T backgrounds T outlines infofont function iterators table F characters F descriptions F glyphs loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures
helpers table  F addextraprivate F addprivate F appendcommands F appendcommandtable F checkflags F checkmerge F checksteps F collectanchors F combineglyphs D commands F composecharacters F descriptiontoslot F dimenfactor F expandglyph T extraprivates F fontpatternhassize F getcoloredglyphs	T vfinjectors F startcolor F stopcolor T vfspecials T backgrounds T outlines infofont function iterators table F characters F descriptions F glyphs loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table
F addextraprivate F addprivate F appendcommands F appendcommandtable F checkflags F checkmerge F checksteps F collectanchors F combineglyphs D commands F composecharacters F descriptiontoslot F dimenfactor F expandglyph T extraprivates F getcoloredglyphs F getdigitwidth	T vfinjectors F startcolor F stopcolor T vfspecials T backgrounds T outlines infofont function iterators table F characters F descriptions F glyphs loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode

F loadline		D	data	
F makenameparser		F	default	
D overloads		D	defaults	
F reset		F	definefallbackfa	mily
F tounicode		F	definefontfamily	
F tounicode16		F	definefontfamily	preset
F tounicode16sequ	ience	D	extras	
metapost	table	F	fallback	
F boundingbox		D	fallbacks	
F boxtomp		F	features	
F draw		F	filefallback	
F fill		F	fontdata	
F glyph		F	fontfallback	
F maxbounds		F	fontsynonym	
F paths		F	goodies	
F widthline		F	mathfallback	
F zeroline		D	methods	
names	data table	D	presets	
nulldata	data table	F	registerfallback	
privateoffsets	table	F	registerfiles	
B keepnames		F	registerfontalte	rnative
N mathbase		F	registerfontfami	ly
N mathextrabase		F	textfallback	
N mathextrabase N textbase			textfallback typeface	
N textbase N textextrabase		F		
N textbase N textextrabase protrusions	data table	F F	typeface typescript userdata	
N textbase N textextrabase		F F	typeface typescript	table
N textbase N textextrabase protrusions readers F afm		F F <b>spec</b> D	typeface typescript userdata <b>ifiers</b> contextmerged	table
N textbase N textextrabase protrusions readers F afm F check_lua		F F <b>spec</b> D F	typeface typescript userdata ifiers contextmerged contextnumber	table
N textbase N textextrabase protrusions readers F afm F check_lua F check_tfm		F F <b>spec</b> D F	typeface typescript userdata ifiers contextmerged contextnumber contextnumbers	table
N textbase N textextrabase protrusions readers F afm F check_lua F check_tfm F lua		F F Spec D F D	typeface typescript userdata ifiers contextmerged contextnumber contextnumbers contextsetups	table
N textbase N textextrabase protrusions readers F afm F check_lua F check_tfm F lua F ofm		F F <b>spec</b> D F D	typeface typescript userdata ifiers contextmerged contextnumber contextnumbers contextsetups contexttostring	table
N textbase N textextrabase protrusions readers F afm F check_lua F check_tfm F lua F ofm F opentype		F F Spec D F D D F	typeface typescript userdata ifiers contextmerged contextnumber contextnumbers contextsetups contexttostring definecontext	table
N textbase N textextrabase protrusions readers F afm F check_lua F check_tfm F lua F ofm F opentype F otf		F F Spec D F D D F F	typeface typescript userdata ifiers contextmerged contextnumber contextsetups contextsetups contextstring definecontext mergecontext	table
N textbase N textextrabase protrusions readers F afm F check_lua F check_tfm F lua F ofm F opentype F otf F pfb		F F S <b>pec</b> D F D F F F	typeface typescript userdata ifiers contextmerged contextnumber contextsetups contextsetups contextstring definecontext mergecontext presetcontext	table
N textbase N textextrabase protrusions readers F afm F check_lua F check_tfm F lua F ofm F opentype F otf F pfb D sequence		F F F SSPEC D F D F F F F F F F F	typeface typescript userdata ifiers contextmerged contextnumber contextsetups contextsetups contextostring definecontext mergecontext presetcontext registercontext	table
N textbase N textextrabase protrusions readers F afm F check_lua F check_tfm F lua F ofm F opentype F otf F pfb D sequence F tfm		F F F SSPEC  D F D F F F F F F F F	typeface typescript userdata ifiers contextmerged contextnumber contextsetups contextssting definecontext mergecontext presetcontext registercontext showcontext	table
N textbase N textextrabase protrusions readers  F afm F check_lua F check_tfm F lua F ofm F opentype F otf F pfb D sequence F tfm F ttc		F F F SSPEC  D F D F F F F F F F F F	typeface typescript userdata ifiers contextmerged contextnumber contextsetups contextsetups definecontext mergecontext presetcontext registercontext showcontext splitcontext	table
N textbase N textextrabase protrusions readers  F afm F check_lua F check_tfm F lua F ofm F opentype F otf F pfb D sequence F tfm F ttc F ttf		FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	typeface typescript userdata ifiers contextmerged contextnumber contextsetups contextsetups contextsetups definecontext mergecontext presetcontext registercontext showcontext synonyms	table
N textbase N textextrabase  protrusions  readers  F afm F check_lua F check_tfm F lua F ofm F opentype F otf F pfb D sequence F tfm F ttc F ttf F woff	table	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	typeface typescript userdata ifiers contextmerged contextnumber contextsetups contextsetups contextstring definecontext mergecontext presetcontext registercontext showcontext synonyms variants	
N textbase N textextrabase protrusions readers F afm F check_lua F check_tfm F lua F ofm F opentype F otf F pfb D sequence F tfm F ttc F ttf F woff reserveid	function	F F F F F F F F D D D S Symbols	typeface typescript userdata ifiers contextmerged contextnumber contextsetups contextsetups contextstring definecontext mergecontext registercontext showcontext splitcontext synonyms variants ols	table
N textbase N textextrabase protrusions readers F afm F check_lua F check_tfm F lua F ofm F opentype F otf F pfb D sequence F tfm F ttc F ttf F woff reserveid select	table	F F F F F F F F D D D S Symbols	typeface typescript userdata ifiers contextmerged contextnumber contextsetups contextsetups contextostring definecontext mergecontext registercontext showcontext synonyms variants ols emoji	
N textbase N textextrabase protrusions readers F afm F check_lua F check_tfm F lua F ofm F opentype F otf F pfb D sequence F tfm F ttc F ttf F woff reserveid	function	F F F F F F F F D D D S Symbols	typeface typescript userdata ifiers contextmerged contextnumber contextsetups contextsetups contextstring definecontext mergecontext registercontext showcontext splitcontext synonyms variants ols	

F uselibrary

tables table
tracers table
treatments table

F applyfixes

D data

S filename
F ignoredfile
F report

F trace

typefaces table

## functions (context)

**dummy** function

### graphics (context)

backgrounds	table
F fetchmultipar	
F pair	
F path	
F point	
bitmaps	table
F flush	
F new	
F placeholder	
F tocontext	
identifiers	table
F bitmap	
F jp2	
F jpg	
F png	
identify	function

```
synchronizers table

F collapse
F collect
F extend
F getbottom
F getd
F geth
F getkind
F getsize
F gettask
```

F gettop F getw

# gzip (extra lua)

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

# images (context)

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

#### interactions (context)

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

F flushpreambles

D functions D preambles F setpreamble F storecode F storepreamble F usepreamblenow F usescripts linkedlists data table pages table F setpagetransition F setupcanvas table references F setclosedocument F setclosepage F setopendocument F setopenpage

## interfaces (context)

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

#### io (basic lua)

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

overloaded function lines loadchunk function

loaddata function loadlines function newreader function noflines function

open overloaded function output overloaded function pathseparator string

overloaded function popen

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

function

write

# job (context)

comment	function		obesaved	
datasets	table	-	appers	table
D collected			ollected 	
F extend			obesaved -	4-61-
F getdata		passes		table
F setdata			heck	
D tobesaved			ollected	
disablesave	function		ount	
embedded	table		efine	
D collected		F f		
D tobesaved			irst	
fileobjreferences	table	F ge		
D collected		_	etcollected	
D tobesaved		_	etdata	
files	table	•	etfield	
D collected		•	ettobesaved	
F context		Fi	nlist	
B forcerun		Fla	ast	
F run		F l:	ist	
D tobesaved		F sa	ave	
getrandomseed	function	F sa	avetagged	
initialize	function		obesaved	
load	function	posit:	ions	table
loadother	function	F b	_column	
objects	table	F b	_region	
D collected		Fc		
F get		D co	ollected	
F number		F co	olumn	
F page		F co	olumnofpos	
F save		F co	ору	
F set		F de	epth	
D tobesaved		F e	_column	
pack	boolean	F e	_region	
packversion	number	F ei	nhance	
pagestates	table	F ex	xtra	
D collected		F ge	et	
F countervalue		F ge	etfree	
F extend		F ge	ethpos	
F realpage		F ge	etpos	
F realpageorder		F ge	etreserved	
F setstate		F ge	etrpos	

F settobesaved F getsync F gettobesaved D tobesaved F getvpos F upperleft F hangafter F upperright F hangindent F used F height F whd F hsize F width N lastx Fχ N lasty F xy F leftskip Fу register function F lowerleft function F lowerright save table structure F markregionbox D collected Εn F onsamepage T components F overlapping T tobesaved Fр T branches S name F page S type F paragraph variables table F parindent F position D checksums Fr D collected F region F getchecksum F registerhandlers F makechecksum F replace F restore F rightskip F save

# language (basic tex)

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

# languages (context)

F injecthyphens

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

F handler

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

N threshold

visualizediscretionaries function

table

### layouts (context)

getcanvasfunctionstatustagetpagedimensionsfunctionF isleftpagesetupcanvasfunctionF leftorrightpageaction

table

### lfs (extra lua)

iswriteabledir

function

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

touch

overloaded function

### libraries (context)

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

extratex data table
functions data table
globals data table

### lmx (context)

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

F a F td F th

include function
inherited table

S color-background-four

S color-background-one

S color-background-three

S color-background-two

S title

initialize function
inject function
lmxfile function

loadedfile function function make new function overloaderror function popupfile function print function pν function report function reset function result function set function show function showerror function stripcss function tν function function type 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	setformatters	function
categories	function	setlogfile	function
direct	function	setmessenger	function
disable	function	setprocessor	function
enable	function	settarget	function
finalactions	function	settimedlog	function
flush	function	settranslations	function
loggingerrors	function	show	function
messenger	function	start_page_number	function
new	function	start_run	function
newline	function	starterrorlogging	function
poptarget	function	startfilelogging	function
private	table	status	function
F enablepagetiming		stop_page_number	function
F getpagetiming		stoperrorlogging	function
pushtarget	function	stopfilelogging	function
registerfinalactions	function	subdirect	function
report	function	subreport	function
reporter	function	texerrormessage	function
setformats	function	writer	function

# lpdf (context)

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

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

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

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

Т

T tlig	N	Chi
T *	N	Circumflex
B *	N	D
T trep	N	Dcaron
T *	N	Dcroat
B *	N	Delta
T uppercasing	N	Dieresis
T *	N	E
B *	N	Eacute
ilename	N	Ebreve
oundfilename	N	Ecaron
oundtables	N	Ecircumflex
narkclasses	N	Edieresis
narks	N	Edotaccent
narksets	N	Egrave
private	N	Emacron
sequences	N	Eng
sublookups	N	Eng.alt
ınicodes	N	Eogonek
.null	N	Epsilon
A	N	Epsilontonos
AE	N	Eta
AEacute	N	Etatonos
Aacute	N	Eth
Abreve	N	Euro
Acircumflex	N	F
Acute	N	G
Adieresis	N	Gamma
Agrave	N	Gbreve
Alpha	N	Gcaron
Alphatonos	N	Gcircumflex
Amacron		Gcommaaccent
	N	Gdotaccent
		Grave
		Hbar
		Hcircumflex
		IJ
		Iacute
		Ibreve
		Icircumflex
		Idieresis
Cdotaccent	N	Idotaccent
f f	T * B * T trep T * B * T uppercasing T *	T *         N           B *         N           T trep         N           T *         N           B *         N           T uppercasing         N           T *         N           B *         N           Foundfilename         N           N         N           Inarks         N           Inarks         N           Inarks         N           Inarksets         N           Inarksets         N           Inarksets         N           Inarksets         N

S S

N	Igrave	N	P
N	Imacron	N	Phi
N	Iogonek	N	Pi
N	Iota	N	Psi
N	Iotadieresis	N	Q
N	Iotatonos	N	R
N	Itilde	N	Racute
N	J	N	Rcaron
N	Jcircumflex	N	Rcommaaccent
N	K	N	Rho
N	Карра	N	S
N	Kcommaaccent	N	Sacute
N	L	N	Scaron
N	Lacute	N	Scedilla
N	Lambda	N	Scircumflex
N	Lcaron	N	Scommaaccent
N	Lcommaaccent	N	Sigma
N	Ldot	N	Т
N	Lslash	N	Tau
N	M	N	Tbar
N	Mu	N	Tcaron
N	N	N	Tcommaaccent
N	Nacute	N	Theta
N	Ncaron	N	Thorn
N	Ncommaaccent	N	Tilde
N	Ntilde	N	U
N	Nu	N	Ugrave
N	0	N	Uhorn
N	0E	N	Uhungarumlaut
N	Oacute	N	Umacron
N	Obreve	N	Uogonek
N	Ocircumflex	N	Upsilon
N	Odieresis	N	Upsilon1
N	Ograve	N	Upsilondieresis
N	Ohorn	N	Upsilontonos
N	Ohungarumlaut	N	Uring
N	Omacron	N	Utilde
N	Omega	N	V
N	Omegatonos	N	W
N	Omicron	N	Wacute
N	Omicrontonos	N	Wcircumflex
N	Oslash	N	Wdieresis
N	Oslashacute	N	Wgrave
N	Otilde	N	X

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

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

N	hookabovecomb	N	logicalnot
N	house	N	logicalor
N	hungarumlaut	N	longs
N	hyphen	N	lozenge
N	i	N	lslash
N	iacute	N	ltshade
N	ibreve	N	m
N	icircumflex	N	macron
N	idieresis	N	male
N	igrave	N	minus
N	ij	N	minute
N	imacron	N	mu
N	infinity	N	multiply
N	integral	N	musicalnote
N	integralbt	N	musicalnotedbl
N	integraltp	N	n
N	intersection	N	nacute
N	invbullet	N	napostrophe
N	invcircle	N	ncaron
N	invsmileface	N	ncommaaccent
N	iogonek	N	nine
N	iota	N	nonbreakingspace
N	iotadieresis	N	nonmarkingreturn
N	iotadieresistonos	N	notdef
N	iotatonos	N	notelement
N	itilde	N	notequal
N	j	N	notsubset
N	jcircumflex	N	ntilde
N	jot	N	nu
N	k	N	numbersign
N	kappa	N	0
N	kcommaaccent	N	oacute
N	kgreenlandic	N	obreve
N	ι	N	ocircumflex
N	lacute	N	odieresis
	lambda	N	oe
N	lcaron	N	ogonek
N	lcommaaccent	N	ograve
N	ldot	N	ohorn
N	less	N	ohungarumlaut
N	lessequal	N	omacron
N	lfblock	N	omega
N	lira	N	omega1
N	logicaland	N	omegatonos

N	omicron	N	quotereversed
N	omicrontonos	N	quoteright
	one		quotesinglbase
N	oneeighth	N	quotesingle
N	onehalf	N	r
N	onequarter	N	racute
N	onesuperior	N	radical
N	onethird	N	rcaron
N	openbullet	N	rcommaaccent
N	ordfeminine	N	reflexsubset
N	ordmasculine	N	reflexsuperset
N	orthogonal	N	registered
N	oslash	N	revlogicalnot
N	oslashacute	N	rho
N	otilde	N	ring
N	p	N	rtblock
N	paragraph	N	S
N	parenleft	N	sacute
N	parenright	N	scaron
N	partialdiff	N	scedilla
N	percent	N	scircumflex
N	period	N	scommaaccent
N	periodcentered	N	second
N	perpendicular	N	section
N	perthousand	N	semicolon
N	peseta	N	seven
N	phi	N	seveneighths
N	phi1	N	sfthyphen
N	pi	N	shade
N	plus	N	sigma
N	plusminus	N	sigma1
N	product	N	similar
N	propersubset	N	six
N	propersuperset	N	slash
N	proportional	N	smileface
N	psi	N	space
N	q	N	spade
N	question	N	sterling
N	questiondown	N	suchthat
N	quotedbl	N	summation
N	quotedblbase	N	sun
N	quotedblleft	N	t
N	quotedblright	N	tau
N	quoteleft	N	tbar

N tcaron N wacute N tcommaaccent N wcircumflex N therefore N wdieresis N theta N wgrave N theta1 Nx N thinquestion N xi N thorn Νy N three N yacute N threeeighths N ycircumflex N threequarters N ydieresis N threesuperior N yen N tilde N ygrave N tildecomb Νz N tonos N zacute N trademark N zcaron N triagdn N zdotaccent N triaglf N zero N zeta N triagrt S version N triagup T shared N two N twosuperior T dynamics N twothirds T features Νu B analyze B checkmarks N ugrave N uhorn B devanagari N uhungarumlaut B dummies N umacron B extensions N underbar B extrafeatures N underbar.small B extraprivates N underbar.wide B features N underscore B mathrules N underscoredbl S mode N union N number N universal B spacekern N uogonek B visualspace N upblock T processes N upsilon T rawdata N upsilondieresis S cache uuid N upsilondieresistonos N cache\_version N upsilontonos B compacted N uring B condensed N utilde S creator Νv T descriptions Nw B expanded

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

N ascender S fontname N charwidth S format N descender S fullname N designsize B hasmath N id N extra\_space N italicangle S mode B monospaced N maxsize N minsize S name N quad N private N slant S psname N space B setitalics N space\_shrink S space N space stretch N subfont N units S writingmode usedindices table N vheight T dejavusansmonoboldttf-1 N x height

T properties

S filename

T dejavusansmonoboldttf-1

verbose function

previous 81 next

# lpeg (basic lua)

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

# lua (basic tex)

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

## luac (context)

inspect function
print function

#### luatex (context)

F disable

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

function

# lxml (context)

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

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

## math (basic lua)

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

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

## mathematics (context)

addfallbacks	function	mapremap	data table
alphabets	data table	overloadparameters	function
alternatives	data table	privatebase	number
big	function	registerdomain	function
boldmap	data table	registerfallbackid	function
categories	table	remapalphabets	function
D functions		renderings	table
charactersets	data table	D mappings	
checkaccentbaseheight	function	D numbers	
checkprivateparameters	function	D sets	
classes	data table	renderset	function
codes	data table	resetattributes	function
collected	function	resetitalics	function
define	function	resolvefallbacks	function
dimensions	function	scaleparameters	function
domains	table	setdomain	function
extensiblecode	function	setitalics	function
extensibles	data table	setridofprime	function
extrabase	number	sets	data table
extras	table	startcollecting	function
F add		stopcollecting	function
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	sum	function
dec	function	sumHEXA	function
hex	function	sumhexa	function

#### metapost (context)

checkformat checktracingonline cm codes

function function function table

N addto
N ampersand

N and

N assignment
N atleast
N begingroup

N btex
N capsule
N colon
N comma
N controls
N curl

N cycle

N definedmacro
N delimiters
N endgroup
N equals
N etex
N everyjob
N exittest
N expandafter
N fiorelse

Nif

N input

N interim

N internal
N iteration
N leftbrace
N leftbracket
N leftdelimiter
N let

N macrodef
N macrospecial
N maketext
N message
N mode

N newinternal

N nullary N numeric N of

N ofbinary
N parametertype
N pathjoin
N plusorminus
N primarybinary

N plusorminus
N primarybinary
N primarydef
N property
N protection
N randomseed
N relax
N repeatloop
N rightbrace
N rightbracket

N rightdelimiter
N runscript
N save
N scantokens

N secondarybinary
N secondarydef
N semicolon
N setbounds
N shipout

N show
N slash
N step
N stop
N str
N string
N tag

N tertiarybinary N tertiarydef

N thingstoadd N to N typename N unary N undefinedcs N until

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

reportsvgfonts	function	svgsplitcolor	function
reset	function	svgtomp	function
resetlastlog	function	svgtopdf	function
resetplugins	function	sxsy	function
run	function	tex	table
runinternal	function	Fget	tabte
runscript	function	F reset	
scanparameters	function	F set	
scripterror	function	F setfrombuffer	
scriptindex	function	texerrors	boolean
setbendtolerance	function	texexp	function
setbuffer	function	theclippath	function
setextensions	function	tographic	function
setlogging	function	totable	function
setoutercolor	function	types	table
setparameterset	function	N boolean	
setrecord	function	N cmykcolor	
settext	function	N color	
setvariable	function	N dependent	
showlog	boolean	N independent	
showsvgpage	function	N known	
simple	function	N numeric	
splitprescript	function	N pair	
startgraphic	function	N path	
startsvghashing	function	N pen	
stopgraphic	function	N picture	
stopsvghashing	function	N protodependent	
svformat	function	N string	
svgcolorremapper	function	N structured	
svgfactors	table	N suffixedmacro	
N %		N tokenlist	
N bp		N transform	
N cm		N unknownboolean	
N em		N unknownpath	
N ex		N unknownpen	
N in		N unknownpicture	
N mm		N unknownstring	
N pc		N unsuffixedmacro	
N pt		N vacuous	£
N px	£	typesvgpage	function
svgglyphtomp	function	unload	function
svgshapestomp	function	untagvariable	function
svgshapestopdf	function	variables	table

#### mime (extra lua)

b64 function decode function decodet table F base64 F quoted-printable function dot encode function encodet table

F base64

F quoted-printable

eol function normalize function function qр

qpwrp function function report stuff function unb64 function unqp function function wrap table wrapt F base64

F default

F quoted-printable

F text

function wrp

# mp (context)

Fboolean   Function   Fashentry   Fashentry   Fashentry   Factor   Fashentry   Factor   Fashentry   Factor   Fashentry   Factor	autoinject	function	fprint	function
F color	aux	function	get	table
F direct   Inject   F draw   F boolean   F fill   F cmykcolor   F fill   F cmykcolor   F fill   F color   F finteger   F integer   F number   F number   F number   F numeric   F pair   F pair   F pair   F path   F	F boolean		F hashentry	
F draw F fill F flush F fush F color F flush F color F flush F integer F integer F integer F number F number F numeric F numeric F numeric F pair F pair F pair F pair F pathpoints F pathpoints F pathpoints F print F quadruple F quadruple F quadruple F quadruple F quadruple F triplet F quadruple F triplet F quadruple F triplet F quadruple F triplet F quoted F triplet F tripl	F color		graphformat	function
F fill	F direct		inject	function
Filtush Forint Finteger Finteger Finteger Finteger Finteger Finteger Finumber Finumber Finumeric	F draw		F boolean	
F fprint F integer F integer F number F number F numeric F numeric F numeric F numeric F pair F pair F pair F pair F pair F path F path F path F path F path F path F points F print F quadruple F triplet F quadruple F triplet F quadruple F triplet F quadruple F triplet F string F string F trinsform F string F transform F triplet F tr	F fill		F cmykcolor	
Finumber Finumber Finumeric Finumeri	F flush		F color	
F number F numeric F numeric F pair F pair F pair F pair F pair F parth F path	F fprint		F integer	
F numeric	F integer		F number	
F pair F pairpoints F path F points F points F print F quadruple F quoted F xy F size F string F string F string F transform F string F transform F string F transform F string F triplet F triplet F striplet F triplet F f step F triplet F f step F triplet F firstplet F firstplet F firstplet F firstplet F triplet F firstplet	F number		F numeric	
F path F path F path F path F path F path F pathpoints F points F points F print F quadruplet F print F quadruple F triplet F quadruple F strip F triplet F size Integer F shade F transform F shade F triplet F shade F triplet F triplet F triplet F shade F triplet F step F triplet F shade F triplet F step F triplet F shade F triplet F triplet F shade F triplet F step F triplet F shade F triplet F shade F triplet F shade F triplet F shade F triplet F step F step F shade F triplet F step F step F step F shade F triplet F step F step F step F shade F triplet F step F step F step F step F shade F triplet F striplet F shade F step	F numeric		F pair	
F path F quadruplet F pathpoints F points F print F quadruple F quadruple F quadruple F quadruple F quadruple F quoted F string F transform F string Imt_color_functions T string F triplet F tri	F pair		F path	
F pathpoints F points F print F quadruple F quadruple F quadruple F quadruple F quoted F size Integer F string F transform F string F string F string F transform F string F string F transform F string F transform F striplet F triplet F F tr	F pairpoints		F pt	
F points F print F quadruple F quadruple F quadruplepoints F quoted F stripe F size Integer F triplet F twh F string Int_color_functions F string F triplet F triplet F transform F triplet F transform F triplet F triplet F triplet F tripletpoints F triplet F tripletpoints F twh Int_contours_blitmap_get f function cleaned function lmt_contours_cleanup function dimt_contours_edge_get_bnand function function lmt_contours_edge_get_cell function direct function lmt_contours_edge_set function function function lmt_contours_edge_set_by_band function function function lmt_contours_edge_set_by_cell function function function lmt_contours_format function function flusten function lmt_contours_maxz function flusten function lmt_contours_maxz function flusten function lmt_contours_maxz function	F path		F quadruplet	
F print F quadruple F quadruple F quadruplepoints F quoted F string F string F triplet F triple F triplet F triplet F triplet F triple F triple F triple F t	F pathpoints		F string	
F quadruple F quadruplepoints F quoted F xy F size F string F transform F triplet F triplet F triplet F triplet F triplet F tripletpoints F triplet F triple	F points		F transform	
F quadruplepoints F quoted F size Integer Intercolor_functions Integer	F print		F triplet	
F quoted F size Integer Integer Int_color_functions F string F transform F triplet F triplet F tripletpoints F vprint Int_contours_bitmap_get Int_contours_bitmap_set F truction Int_contours_cleanup Int_contours_color Int_contours_edge_get_band Int_contours_edge_get_band Int_contours_edge_get_cell Int_contours_edge_get_cell Int_contours_edge_get_cell Int_contours_edge_get_cell Int_contours_edge_get_band Int_contours_edge_get_band Int_contours_edge_get_cell Int_contours_edge_get_cell Int_contours_edge_get_cell Int_contours_edge_get_band Int_contours_edge_ge	F quadruple		F whatever	
F size	F quadruplepoints		F whd	
F string F transform F triplet F triplet F triplet F tripletpoints F vprint  boolean Cleaned Color F unction F unction  f unction  f unction  f unction  f unction  f unction  color  f unction  dataset f unction F load function f unction  l unt_contours_edge_get_cell f unction  datasets f unction  f unction  l unt_contours_edge_get_t unction  f unction  f unction  l unt_contours_edge_set f unction  direct f unction  direct f unction  draw f unction  f unction  l unt_contours_edge_set_by_band f unction  draw f unction  l unt_contours_edge_set_by_cell f unction  draw f unction  l unction l unt_contours_format f unction  fill f unction l unt_contours_function f unction f unction  f unction l unt_contours_maxmean f unction f unction f unction l unt_contours_maxz f unction f unction f unction l unt_contours_maxz f unction f unction l unt_contours_maxz f unction f unction f unction f unction l unt_contours_maxz f unction f unction f unction f unction l unt_contours_maxz f unction f uncti	F quoted		F xy	
F transform F triplet F triplet F tripletpoints F tripletpoints F vprint  boolean f unction cleaned f unction f unction f unction f unction f unction color f unction dataset f unction f unction f unction f unction lmt_contours_cleanup f unction dataset f unction lmt_contours_edge_get_band f unction datasets f unction lmt_contours_edge_get_cell f unction f unction lmt_contours_edge_paths f unction f unction lmt_contours_edge_set f unction f unction lmt_contours_edge_set f unction direct f unction lmt_contours_edge_set_by_band f unction draw f unction lmt_contours_edge_set_by_cell function expandtex f unction lmt_contours_format f unction fill f unction lmt_contours_function f unction function lmt_contours_maxmean f unction flush f unction lmt_contours_maxz f unction function lmt_contours_maxz f unction function lmt_contours_maxz f unction lmt_contours_maxy lmction lmt_contours_maxy lmction lmt_contours_maxy lmction lmction lmt_contours_maxy lmction lmction lmt_contours_maxy lmction lm	F size		integer	function
F triplet F tripletpoints F vprint  boolean  f unction  f unction  cleaned  color  dataset  f unction  F load  function  f unction  f unction  f unction  f unction  f unction  but_contours_cleanup  function  lut_contours_color  function  lut_contours_edge_get_band  function  lut_contours_edge_get_cell  function  lut_contours_edge_paths  function  lut_contours_edge_paths  function  lut_contours_edge_set  function  direct  f unction  lut_contours_edge_set_by_band  function  draw  f unction  lut_contours_edge_set_by_cell  function  lut_contours_format  f unction  function  function  lut_contours_function  function  function  function  lut_contours_maxmean  function  function  function  lut_contours_maxz  function  function  function  function  lut_contours_maxz  function	F string		<pre>lmt_color_functions</pre>	table
F tripletpoints F vprint    Imt_contours_bitmap_get   function	F transform		F shade	
Imt_contours_bitmap_set   function	F triplet		F step	
booleanfunctionlmt_contours_cleanupfunctioncleanedfunctionlmt_contours_colorfunctioncolorfunctionlmt_contours_edge_get_bandfunctiondatasetfunctionlmt_contours_edge_get_cellfunctiondatasetsfunctionlmt_contours_edge_pathsfunctionF loadlmt_contours_edge_setfunctiondirectfunctionlmt_contours_edge_set_by_bandfunctiondrawfunctionlmt_contours_edge_set_by_cellfunctionexpandtexfunctionlmt_contours_formatfunctionfillfunctionlmt_contours_functionfunctionflattenfunctionlmt_contours_maxmeanfunctionflushfunctionlmt_contours_maxzfunctionformatfunctionlmt_contours_minmeanfunction	F tripletpoints		lmt_contours_bitmap_get	function
cleanedfunctionlmt_contours_colorfunctioncolorfunctionlmt_contours_edge_get_bandfunctiondatasetfunctionlmt_contours_edge_get_cellfunctiondatasetsfunctionlmt_contours_edge_pathsfunctionF loadlmt_contours_edge_setfunctiondirectfunctionlmt_contours_edge_set_by_bandfunctiondrawfunctionlmt_contours_edge_set_by_cellfunctionexpandtexfunctionlmt_contours_formatfunctionfillfunctionlmt_contours_functionfunctionflattenfunctionlmt_contours_maxmeanfunctionflushfunctionlmt_contours_maxzfunctionformatfunctionlmt_contours_minmeanfunction	F vprint		lmt_contours_bitmap_set	function
colorfunctionlmt_contours_edge_get_bandfunctiondatasetfunctionlmt_contours_edge_get_cellfunctiondatasetsfunctionlmt_contours_edge_pathsfunctionF loadlmt_contours_edge_setfunctiondirectfunctionlmt_contours_edge_set_by_bandfunctiondrawfunctionlmt_contours_edge_set_by_cellfunctionexpandtexfunctionlmt_contours_formatfunctionfillfunctionlmt_contours_functionfunctionflattenfunctionlmt_contours_maxmeanfunctionflushfunctionlmt_contours_maxzfunctionformatfunctionlmt_contours_minmeanfunction	boolean	function	lmt_contours_cleanup	function
dataset function lmt_contours_edge_get_cell function  F load lmt_contours_edge_paths function  direct function lmt_contours_edge_set function  draw function lmt_contours_edge_set_by_band function  expandtex function lmt_contours_format function  fill function lmt_contours_format function  flatten function lmt_contours_maxmean function  flush function lmt_contours_maxz function  format function lmt_contours_minmean function	cleaned	function	lmt_contours_color	function
datasetsfunctionlmt_contours_edge_pathsfunctionF loadlmt_contours_edge_setfunctiondirectfunctionlmt_contours_edge_set_by_bandfunctiondrawfunctionlmt_contours_edge_set_by_cellfunctionexpandtexfunctionlmt_contours_formatfunctionfillfunctionlmt_contours_functionfunctionflattenfunctionlmt_contours_maxmeanfunctionflushfunctionlmt_contours_maxzfunctionformatfunctionlmt_contours_minmeanfunction	color	function	<b>lmt_contours_edge_get_band</b>	function
Imt_contours_edge_set function direct function lmt_contours_edge_set_by_band function draw function lmt_contours_edge_set_by_cell function expandtex function lmt_contours_format function fill function lmt_contours_function function flatten function lmt_contours_maxmean function flush function lmt_contours_maxz function format function lmt_contours_minmean function	dataset	function	lmt_contours_edge_get_cell	function
directfunctionlmt_contours_edge_set_by_bandfunctiondrawfunctionlmt_contours_edge_set_by_cellfunctionexpandtexfunctionlmt_contours_formatfunctionfillfunctionlmt_contours_functionfunctionflattenfunctionlmt_contours_maxmeanfunctionflushfunctionlmt_contours_maxzfunctionformatfunctionlmt_contours_minmeanfunction	datasets	function	<b>lmt_contours_edge_paths</b>	function
drawfunctionlmt_contours_edge_set_by_cellfunctionexpandtexfunctionlmt_contours_formatfunctionfillfunctionlmt_contours_functionfunctionflattenfunctionlmt_contours_maxmeanfunctionflushfunctionlmt_contours_maxzfunctionformatfunctionlmt_contours_minmeanfunction	F load		<pre>lmt_contours_edge_set</pre>	function
expandtexfunctionlmt_contours_formatfunctionfillfunctionlmt_contours_functionfunctionflattenfunctionlmt_contours_maxmeanfunctionflushfunctionlmt_contours_maxzfunctionformatfunctionlmt_contours_minmeanfunction	direct	function	<pre>lmt_contours_edge_set_by_band</pre>	function
fillfunctionlmt_contours_functionfunctionflattenfunctionlmt_contours_maxmeanfunctionflushfunctionlmt_contours_maxzfunctionformatfunctionlmt_contours_minmeanfunction	draw	function	<pre>lmt_contours_edge_set_by_cell</pre>	function
flattenfunctionlmt_contours_maxmeanfunctionflushfunctionlmt_contours_maxzfunctionformatfunctionlmt_contours_minmeanfunction	•	function	<pre>lmt_contours_format</pre>	
flushfunctionlmt_contours_maxzfunctionformatfunctionlmt_contours_minmeanfunction	fill	function	<pre>lmt_contours_function</pre>	function
format function lmt_contours_minmean function			lmt_contours_maxmean	
			<del>-</del>	
<b>formatted</b> function <b>lmt_contours_minz</b> function				
	formatted	function	lmt_contours_minz	function

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

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

### mplib (extra tex)

injectpath

function

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

version

function

# noads (context)

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

#### node (basic tex)

F flush list

F flush node

checkdiscretionaries function F flushlist checkdiscretionary function F flushnode copy function F free copy list function F get attribute function copylist F get attributes function count F getattribute current attributes function F qetattributelist currentattributes function F getattributes dimensions function F getboth direct table F getbox F addmargins F getchar F addxoffset F getcharspec F addxymargins F getdata F addyoffset F getdepth F appendaftertail F getdirection F checkdiscretionaries F aetdisc F checkdiscretionary F getdiscpart F collapsing F getexpansion F copy F getfam F copy list F getfield F copylist F getfont F copyonly F getglue F count F getglyphdata F getglyphdimensions F current attributes F currentattributes F getheight F dimensions F getid F effective glue F getindex F effectiveglue F getkern F end of math F getkerndimension F endofmath F getlanguage F exchange F getleader F fields F getlist F find node F getnext F findattribute F getnormalizedline F findattributerange F getnucleus F findnode F getoffsets F first glyph F getoptions F getorientation F firstqlyph F flattendiscretionaries F getparstate

F getpenalty

F getpost

F getpre F is zero glue F ischar F getprev F getpropertiestable F isqlyph F getproperty F isnextchar F getreplace F isnextqlyph F getscale F isnode F getscales F isprevchar F isprevglyph F getscript F isvalid F getshift F getspeciallist F iszeroglue F getstate F kernina F getsub F lenath F getsubpre F ligaturing F getsubtype F makeextensible F getsup F migrate F getsuppre F mlist to hlist F getsynctexfields F mlisttohlist F naturalhsize F gettotal F naturalwidth F getwhd F getwidth F new F getwordrange F patchattributes F getxscale F prependbeforehead F getxyscales F protect glyph F getyscale F protect glyphs F has attribute F protectglyph F has field F protectglyphs F has glyph F protrusionskippable F hasattribute F rangedimensions F hasdimensions F remove F hasfield F reverse F hasglyph F set attribute F hasglyphoption F set attributes F hpack F setattribute F setattributelist F hyphenating Fid F setattributes F ignoremathskip F setboth F insert after F setbox F insert before F setchar F insertafter F setdata F insertbefore F setdepth F is char F setdirection F is glyph F setdisc F is node F setdiscpart

F setexpansion

F is valid

F setfam	F tail	
F setfield	F todirect	
F setfont	F tonode	
F setglue	F tostring	
F setglyphdata	F tovaliddirect	
F setheight	F traverse	
F setindex	F traverse_char	
F setkern	F traverse_content	
F setlanguage	F traverse_glyph	
F setleader	F traverse_id	
F setlink	F traverse_list	
F setlist	F traversechar	
F setnext	F traversecontent	
F setnucleus	F traverseglyph	
F setoffsets	F traverseid	
F setoptions	F traverselist	
F setorientation	F type	
F setpenalty	F types	
F setpost	F unprotect_glyph	
F setpre	F unprotect_glyphs	
F setprev	F unprotectglyph	
F setproperty	F unprotectglyphs	
F setreplace	F unset_attribute	
F setscales	F unset_attributes	
F setscript	F unsetattribute	
F setshift	F unsetattributes	
F setspeciallist	F usedlist	
F setsplit	F uses_font	
F setstate	F usesfont	
F setsub	F values	
F setsubpre	F verticalbreak	
F setsubtype	F vpack	
F setsup	F write	
F setsuppre	F xscaled	
F setsynctexfields	F yscaled	
F settotal	effective_glue	function
F setwhd	effectiveglue	function
F setwidth	end_of_math	function
F show	endofmath	function
F slide	family_font	function
F softenhyphens	fields	function
F start_of_par	findattribute	function
F startofpar	first_glyph	function
F subtypes	firstglyph	function

flattendiscretionaries	function	mlist_to_hlist	function
flush list	function	mlisttohlist	function
flush_node	function	new	function
flushlist	function	protect glyph	function
flushnode	function	protect_glyphs	function
free	function	protectglyph	function
get attribute	function	protectglyphs	function
getattribute	function	protrusionskippable	function
getfield	function	rangedimensions	function
getglue	function	remove	function
getpropertiestable	function	set attribute	function
getproperty	function	setattribute	function
has attribute	function	setfield	function
has field	function	setglue	function
has glyph	function	setproperty	function
hasattribute	function	show	function
hasfield	function	slide	function
hasglyph	function	subtypes	function
hpack	function	tail	function
hyphenating	function	tostring	function
id	function	traverse	function
insert_after	function	traverse_id	function
insert_before	function	traverseid	function
insertafter	function	type	function
insertbefore	function	types	function
instock	function	unprotect_glyph	function
inuse	function	unprotect_glyphs	function
is_node	function	unprotectglyph	function
is_zero_glue	function	unprotectglyphs	function
isnode	function	unset_attribute	function
iszeroglue	function	unsetattribute	function
kerning	function	usedlist	function
last_node	function	usesfont	function
lastnode	function	values	function
length	function	vpack	function
ligaturing	function	write	function
makeextensible	function		

### nodes (context)

fencecodes

accentcodes	data table	fields	function
aligned	function	fieldtypes	table
append	function	fillcodes	data table
apply	function	fillvalues	data table
applyvisuals	function	firstcharacter	function
astable	function	firstcharinbox	function
basepoints	function	firstdirinbox	function
boundarycodes	data table	flush	function
boxes	table	flush_list	function
F count		flush_node	function
F dimensions		flushlist	function
F direct		flushnode	function
F dispose		fullhpack	function
F found		getattr	function
F reset		getattribute	function
F restore		getboth	function
F save		getbox	function
F savenode		getchar	function
builders	table	getfield	function
F buildpage_filter		getfont	function
F vpack_filter		getid	function
concat	function	getleader	function
сору	function	getlist	function
copy_list	function	getnext	function
copylist	function	getprev	function
countall	function	getproperty	function
current_attributes	function	getsubtype	function
currentattributes	function	gluecodes	data table
delete	function	glyphcodes	data table
destinations	table	handlers	table
N attribute		F accessibility	
T done		F aligncharacter	
F handler		F backgrounds	
T stack		F backgroundspage	
dircodes	data table	F backgroundsvbox	
directioncodes	data table	F characters	
directionvalues	data table	F checkglyphs	
dirvalues	data table	F checkparcounter	
discodes	data table	F cleanupbox	
discretionarycodes	data table	F cleanuppage	

F export

data table

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

N riaht F effectivealue N set F end of math N unused 1 F endofmath N unused 2 F exchange nodecodes data table F find attribute nopts function F findattribute table nuts F findnode F addmargins F first glyph F addxoffset F firstcharacter F addxymargins F firstcharinhox F addyoffset F firstalvph F append F flattendiscretionaries F appendaftertail F flush F apply F flush list F applyvisuals F flush node F checkdiscretionaries F flushlist F collapsing F flushnode F free T colors F fullhpack F set T components F get attribute F copynocomponents F get synctex fields F copyonlyglyphs F getattr F count F getattribute F flush F getattributelist F aet F getattributes F set F getattrlist F concat F getattrs F copy F getboth F copy list F getbox F copy node F getboxglue F copy only F getchar F copy properties F getcharspec F copylist F getcomponents F copynode F getdata F copyonly F getdepth F copyvisual F getdirection F getdisc F count F countall F getdiscpart F current attr F getdiscretionary F currentattributes F getexpansion F delete F getfam F dimensions F getfield

F getfont

F getglue

F dirdimensions

F effective glue

F getglyphdata F getxyscales F getglyphdimensions F getyscale F getheight F has attribute F getid F has dimensions F getindex F has field F getkern F has glyph F getkerndimension F hasattribute F getlang F hasdimensions F hasfield F getlanguage F getleader F hasglyph F getlist F hasglyphoption F getnext F hpack F getnormalizedline F hyphenating F getnucleus F ignoremathskip F getoffsets F insert after F getoptions F insert before F getorientation F insertafter F inserthefore F getparstate F insertlistafter F getpenalty F getpost F is display math F getpre F is node F getprev F is zero glue F ischar F getprop F getreplace F isdone F getruledata F isglyph F getscale F isnextchar F isnextqlyph F getscales F getscript F isnode F getshift F isprevchar F getspeciallist F isprevglyph F getstate F iszeroglue F getsub F kerning F getsubpre F length F ligaturing F getsubtype

F link F getsup F getsuppre F linked F getsurround F locate F getsynctexfields F migrate F gettotal F mlist to hlist F getvalue F mlisttohlist F getwhd F naturalhsize F getwidth F naturalwidth F getwordrange F nestedtracedslide

F getxscale F new

F patchattributes F righthangskip T pool F rightmarginkern F accent F rightskip F baselineskip F rule F boundary F save F boxrule F savepos F choice F setmatrix F cleanup F setstate F delim F shrink F delimiter F startrotation F direction F stock F directliteral F stretch F disc F subbox F submlist F emptyrule F fence F temp F fontkern F usage F fraction F userdefined F glue T userids F usernode F gluespec F userrule F glyph F hlist F vlist F imagerule F wordboundary F indentskip F prepend F italickern F prependbeforehead F kern F processranges F latelua F processwords F leader F protect glyph F lefthangskip F protect glyphs F leftmarginkern F protectglyph F leftskip F protectglyphs F lineskip F protrusionskippable F literal F rangedimensions F mathchar F rawprop F mathtextchar F reference F negatedglue F rehpack F noad F remove F originliteral F repackhlist F outlinerule F replace F pageliteral F reverse F penalty T rules F radical T ruleactions F rawliteral F box F register F draw F restore F fill

F setprop F mp F stroke F setreplace F userrule F setruledata F set attribute F setscale F setattr F setscales F setattribute F setscript F setattributelist F setshift F setattributes F setspeciallist F setattrlist F setsplit F setattrs F setstate F setboth F setsub F setbox F setsubpre F setboxglue F setsubtype F setchar F setsup F setcomponents F setsuppre F setdata F setsurround F setdepth F setsynctexfields F setdirection F setvalue F setdisc F setvisual F setvisuals F setdiscpart F setdiscretionary F setwhd F setexpansion F setwidth F setfam F show F setfield F slide F setfont F softenhyphens F setglue F somepenalty F setglyphdata F somespace F setheight F splitbox F setkern F start of par F setlang F startofpar F setlanguage F striprange F setleader F tail F setlink F takeattr F setlist F takebox F takelist F setnext F setnucleus F theprop F setoffsets F tonode F setoptions F tonodes F setorientation F tonut F setparproperty F tosequence F setpenalty F tostring F tracedslide F setpost F traverse F setpre

F setprev

F traverse char

F traverse_glyph	F untracedslide	
F traverse_id	F usedlist	
F traverse_list	F uses_font	
F traversechar	F usesfont	
F traversecontent	F verticalbreak	
F traverseglyph	F vianodes	
F traverseid	F vianuts	
F traverselist	F vpack	
T traversers	F write	
F alignrecord	F xscaled	
F boundary	F yscaled	
F char	packlist	function
F content	parcodes	data table
F dir	penaltycodes	data table
F disc	plugindata	table
F glue	F finalizer	
F glyph	F initializer	
F hlist	S name	
F list	T namespace	
F mark	N attribute	
F next	D data	
F node	F enable	
F unset	F handler	
F vlist	F register	
F whatsit	D registered	
T treversers	D values	
F char	F processor	
F content	points	function
F glyph	pool	table
F list	F baselineskip	
F node	F cleanup	
T typesetters	F directliteral	
F tohbox	F glyph	
F tohpack	F hlist	
F tonodes	F latelua	
F tovbox	F lineskip	
F tovpack	F literal	
F unprotect_glyph	F originliteral	
F unprotect glyphs	F register	
F unprotectglyph	F restore	
F unprotectglyphs	F save	
F unset_attribute	F savepos	
F unsetattribute	F setmatrix	
F unsetattributes	F stock	

F usage		setchar	function
F usernode		setfield	function
F vlist		setfont	function
prepend	function	setleader	function
print	function	setlink	function
processors	table	setlist	function
F alignment_filter		setnext	function
F contribute_filter		setprev	function
F glyph_run		setproperty	function
F post_linebreak_filter		shifts	table
F pre_linebreak_filter		D data	
F trace_glyph_run_a		F define	
F trace_glyph_run_b		F enable	
properties	table	F handler	
T data		showboxes	function
pts	function	showlist	function
radicalcodes	data table	showsimplelist	function
references	table	skipcodes	data table
N attribute		snapshots	table
T done		F getsamples	
F handler		F resetsamples	
T stack		F takesample	
rehpack	function	somepenalty	function
remove	function	somespace	function
repackhlist	function	specialskipcodes	table
replace	function	splitbox	function
report	function	startofpar	function
rightmarginwidth	function	stripdiscretionaries	function
rulecodes	data table	stripping	table
rules	table	T glyphs	
D data		F set	
F define		subtypes	data table
F enable		tail	function
F handler		takeattr	function
F process		takebox	function
F userrule		tasks	table
serialize	function	F actions	
serializebox	function	F appendaction	
set_attribute	function	F disableaction	
setattr	function	F disablegroup	
setattribute	function	F enableaction	
setboth	function	F enablegroup	
setbox	function	F freeze	
setboxtonaturalwd	function	F freezegroup	
		- ,	

r new		r Start	
F prependaction		T steppers	
F removeaction		F check	
F replaceaction		F codes	
F restart		F features	
F setaction		F font	
F showactions		F glyphs	
F table		F message	
tobasepoints	function	F messages	
tocentimeters	function	F nofsteps	
tociceros	function	F register	
todidots	function	F reset	
todimen	function	F start	
toinches	function	F stop	
tomillimeters	function	F stop	
tonode	function	T transparencies	
tonodes	function	F reset	
tonut	function	F set	
topicas	function	F setlist	
topoints	function	traverse	function
toscaledpoints	function	traverse_id	function
tosequence	function	traverseid	function
tostring	function	typesetters	table
totable	function	F hbox	
totree	function	F hpack	
toutf	function	F tohbox	
tracers	table	F tohpack	
T colors		F tonodes	
F reset		F tovbox	
F set		F tovpack	
F setlist		F vpack	
F directions		unset_attribute	function
F fontchar		unsetattribute	function
T frequencies		usedlist	function
F register		vianodes	function
T pool		vianuts	function
T nodes		visualizebox	function
F rule		visualizers	table
T nuts		F attribute	
F rule		T attributes	
F resetproperties		F box	
F rule		F handler	
F setlist		F markfonts	
F setproperties		T modes	

F start

F new

N depth N penalty N dir N simple N discretionary N simplehbox N expansion N simplevbox N simplevtop N fontkern N glue N space N strut N glyph N hbox N user N insert N vbox N italic N vtop N kern N whatsit N line F register N marginkern F setfont F setlayer

N mark F setlayer
N math F setruledglyph
N mathglue F setvisual

N mathlistkern vpack function
N origin whatsitcodes data table
N par vrite function

## number (context)

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

# objects (context)

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

# optional (context)

curl	table	lz4	table
F escape		F compress	
F fetch		F decompresssize	<u> </u>
F getversion		F framecompress	
F initialize		F framedecompres	S
F unescape		F initialize	
foreign	table	lzma	table
F abivalues		F compress	
F getbuffer		F decompress	
F initialize		F initialize	
F load		lzo	table
F newbuffer		F compress	
F totable		F decompresssize	<b>:</b>
F types		F initialize	
ghostscript	table	mujs	table
F execute		F dofile	
F initialize		F execute	
graphicsmagick	table	F initialize	
F execute		F reset	
F initialize		F setclosefile	
hb	table	F setconsole	
F getshapers		F setfindfile	
F getversion		F setopenfile	
F initialize		F setreadfile	
F loadfont		F setseekfile	
F shapestring		mysql	table
imagemagick	table	F close	
F execute		F execute	
F initialize		F getmessage	
kpse	table	F initialize	
F expand_braces		F open	
F expand_path		postgress	table
F expand_var		F close	
F find_file		F execute	
F find_files		F getmessage	
F get_file_types	;	F initialize	
F initialize		F open	
F readable_file		sqlite	table
F set_program_na	nme	F close	
F var_value		F execute	
loaded	table	F getmessage	

F initialize **zstd** 

table

F compress

F open

F initialize

#### os (basic lua)

nofdays

pipeto
platform

now

function

function

function

string

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

weekday

where

which

function
function

function

# package (basic lua)

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

# pagebuilders (context)

<pre>columnsets table</pre>	F sethsize
F add	F sethspan
F block	F setlines
F check	F setproperties
F currentcolumn	F setstart
F define	F setvsize
F finishflush	<b>injections</b> 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)

immediateobj function

# pdfe (extra tex)

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

# physics (context)

units table

F registerunit

D tables

# pngdecode (extra tex)

applyfilter	function	splitmask	function
expand	function	tocmyk	function
interlace	function	tomask	function

# publications (context)

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

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

S

S T

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

tables	table	F showfields	
D implicits		F showhashedauthors	
D origins		F showtables	
D privates		F showvariants	
D sets		typesetters	table
D specials		F author	
D types		F string	
D virtuals		usedataset	function
tags	function	usedentries	function
tracers	table	writers	table
F showdatasetauthors		F author	
F showdatasetcompletene	ess	F keyword	

F showdatasetfields F showentry 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)

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

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

usertypes

usezipfile

data table

function

function

data table

registerzipfile

relations

validatedpathfunctionvariableofformatorsuffixfunctionvariablefunctionwildcardpatternfunctionvariableofformatfunction

## sandbox (context)

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

#### scripts (context)

#### autofontfeature table F disable F enable F handler colors data table decomposehangul function defaults table N inter char half shrink factor N inter char half stretch factor N inter char hangul penalty N inter\_char\_quarter\_shrink\_factor N inter\_char\_quarter\_stretch\_factor N inter char shrink factor N inter char stretch factor N inter\_word\_stretch\_factor getdata function getinjector function getsplitter function

function

getstatus

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

splitters

data table

## set (context)

contains function
create function
tolist function

tonumber function
totable function

# sha2 (extra lua)

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

# sio (extra lua)

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

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

#### socket (extra lua)

S content-location

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

S reporting-mta

S rese	ent-bcc	protect	function
S rese	ent-cc	report	function
S rese	ent-date	select	function
S rese	ent-from	sink	function
S rese	ent-message-id	sinkt	table
S rese	ent-reply-to	F close-when-c	lone
S rese	ent-sender	F default	
S rese	ent-to	F http-chunked	I
S reti	ry-after	F keep-open	
S retu	ırn-path	skip	function
S send	der	sleep	function
S serv	ver	source	function
S smtp	o-remote-recipient	sourcet	table
S stat	tus	F by-length	
S subj	ject	F default	
S te		F http-chunked	I
S to		F until-closed	I
S trai	iler	tcp	function
S tran	nsfer-encoding	tcp4	function
S upgi	rade	tcp6	function
S usei	r-agent	tp	table
S vary	<i>y</i>	N TIMEOUT	
S via		F connect	
S warr	ning	try	function
S will	l-retry-until	udp	function
S www-	-authenticate	udp4	function
S x-ma	ailer	udp6	function
F lower		url	table
F norma	lize	F absolute	
http	table	F build	
N TIMEO	UT	F build_path	
S USERA	GENT	F escape	
F gener	icform	F parse	
F open		F parse_path	
F reque	st	F unescape	

newtry function

## sorters (context)

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

# sparse (context)

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

## statistics (context)

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

## status (basic tex)

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

# storage (context)

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

# streams (context)

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

# string (basic lua)

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

utflength	function	utfvaluetable	function
utfpadd	function	valid	function
utfpadding	function	voigt	function
utfvalue	function	voigt_hwhm	function
utfvalues	function	wordsplitter	function

### structures (context)

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

F title		F realpage
F touserdata		F reordered
inserts	table	T result
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		F number
F analyze		F title
B autoreorder		<b>notes</b> table
D cached		F check_spacing
D collected		F checkpagechange
F discard		F define
F enhance		F doifonsamepageasprevious
T enhancers		F get
F filter		F getdeltapage
F formulanumber		F getinternal
F getresult		F getn
F groupindex		F getstate
F hasnumberdata		F hascontent
F haspagedata		F internal
F hastitledata		F internalid
F iscached		F listindex
D kinds		D numbers
F label		F ordered
F location		F postpone
D names		F resetpostponed
F number		F restore
D ordered		F save
F page		F setstate
F popnesting		D states
F prefix		F store
F prefixednumber		<b>pages</b> table
F prefixedpage		F allmarked
F process		F analyze
D pushed		D collected
F pushnesting		F fraction

F has changed F getcurrentprefixspec F in body F getinnermethod F is odd F getinternalcachedlistreference F mark F getinternallistreference F marked F getinternalreference F markedlist F getoutermethod N nofpages D handlers F number F identify F on right F import F inject F save D tobesaved F injectcurrentset F toranges S innermethod table references D internals F analyze F load F checkedfile F loadpresets F checkedfileorurl F mark F checkedprogram S outermethod F checkedrealpage D pages F checkedurl U prefixsplitter D collected D productdata U componentsplitter T programs F currentmetadata T data F currentorder F define D currentset F get F define F realpageofpage D defined U referencesplitter D derived D referred F enhance F referredpage D executers F registerfinalizer F expandcurrent F registerinitializer F export F registerpage T files F reset T data D runners F define F set F found F setandgetattribute F get F setcomponent F setinternalreference F filter F setlinkmethod F filterdefault D filters F setnextinternal D flaginternals F setnextorder F from F setreferencerealpage D functions D specials F splitcomponent F get F getcurrentmetadata F splitprefix

F splitreference	F store	
F synchronizepage	D tobesaved	
T testrunners	F unique	
Finner	F userdata	
F special	sections	table
F special operation	F autodepth	cabic
F special operation with arguments	F cct	
T testspecials	D collected	
F deltapage	F current	
Fi	F currentblock	
F internal	F currentid	
F page	F currentlevel	
F realpage	F 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 matchingtilldepth	
D usedinternals	F numberatdepth	
D usedviews	F numbers	
F valid	F popblock	
<b>registers</b> table	F prefixedconverted	
F analyze	F pushblock	
D collected	F register	
F compare	D registered	
F define	F reportstructure	
F enhance	F save	
F extend	T sectionblockdata	
F filter	T bodypart	
F filtercollected	S bookmark	
F finalize	F set	
F findinternal	F setblock	
F flush	F setchecker	
F get	F setentry	
F prepare	F setinitialblock	
F process	F setlevel	
F setmethod	F setnumber	
F sort	F showstructure	

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

T usedstyles
 T construct
 T highlight

F current

F elementtag

F enabled

F exportbox

F finishexport

F getextradata
F getid
F getmetadata
F gettablecell

F gettabulatecell F handler

F initializeexport

D labels F last F lastinchain

F localexport
F locatedtag
T patterns
U splitter
D properties
F registerextradata

F registermetadata
F restart
F setaspect
F setattributehash

F setcombination

F setconstruct
F setfigure
F setfloat

F setTloat
F setformulacontent
F sethighlight
F setitem
F setitemgroup
F setlist
F setnotation

F setnotation
F setnotationsymbol
F setparagraph
F setproperty
F setpublication
F setregister
F setsorting
F setsynonym
F settablecell
F settabulatecell

F settabulatecell
F settagdelimitedsymbol
F settagsubsentencesymbol
F setupexport

F setuserproperties
D specifications
F start
F stop

T usewithcare

F strip
D taglist

# table (basic lua)

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

# tex (basic tex)

	+-b1-	and have	£
attribute	table	getbox	function
automigrationcodes	data table function	getboxdir	function function
badness		getboxresourcebox	
box	table	getboxresourcedimensions	function
boxresources	table	getcatcode 	function
F getbox		getcount	function
F getdimensions		getdelcode	function
F save		getdelcodes	function
F use		getdelimitermodevalues	function
catcode	table	getdimen	function
chardef	function	getdimensionvalue	function
codes	table	getdiscoptionvalues	function
conditionals	data table	getdiscstatevalues	function
constants	data table	geterrorvalues	function
count	table	getflagvalues	function
cprint	function	getfontoffamily	function
ctdcatcodes	number	getfrozenparvalues	function
ctxcatcodes	number	getglue	function
definefont	function	getglyphdata	function
delcode	table	getglyphoptionvalues	function
dimen	table	getglyphscript	function
dimensiondef	function	getglyphstate -	function
directives	data table	getgroupvalues	function
discoptioncodes	data table	gethelptext	function
enableprimitives	function	gethyphenationvalues	function
error	function	getinsertcontent	function
expandasvalue	function	getinsertdepth	function
experiments	data table	getinsertdistance	function
extraprimitives	function	getinsertheight	function
fatalerror	function	getinsertlimit	function
flagcodes	data table	getinsertmultiplier	function
fontidentifier	function	getinsertwidth	function
fontname	function	getintegervalue	function
forcehmode	function	getinteraction	function
forcesynctexline	function	getiovalues	function
forcesynctextag	function	getlargestusedmark	function
fprint	function	getlccode	function
frozenparcodes	data table	getlinedir	function
get	function	getlist	function
getattribute	function	getlocallevel	function
getautomigrationvalues	function	getmark	function

getmath	function	inicatcodes
getmathcode	function	integerdef
getmathcodes	function	isattribute
getmathcontrolvalues	function	isbox
getmathdir	function	iscount
getmathflattenvalues	function	isdefined
getmathoptionvalues	function	isdimen
getmathparametervalues	function	isglue
getmathstylenamevalues	function	ismuglue
getmathstylevalues	function	ismuskip
getmathvariantvalues	function	isprintable
getmode	function	isskip
getmodevalues	function	istoken
getmuglue	function	istoks
getmuskip	function	lastnodetype
getnest	function	lccode
getnormalizevalues	function	linebreak
getoutputactive	function	lists
getpacktypevalues	function	luacatcodes
getpagestate	function	magicconstants
getparbeginvalues	function	N awfulbad
getparcontextvalues	function	N decentcriterium
getpardir	function	N defaultcatcodetable
getparmodevalues	function	N defaultdeadcycles
getparstate	function	N defaulteqnogapstep
getprimitiveorigins	function	N defaulthangafter
getregisterindex	function	N defaultoutputbox
getrunstatevalues	function	N defaultpredisplaygap
getsfcode	function	N defaultrule
getshapingpenaltiesvalues	function	N defaultspacefactor
getskip	function	N defaulttolerance
getsynctexline	function	N deplorable
getsynctexmode	function	N ejectpenalty
getsynctextag	function	N ignoredepth
gettextcontrolvalues	function	N infinitebad
gettextdir	function	N infinitepenalty
gettoks	function	N infinity
getuccode	function	N largewidthexcess
glue	table	N loosecriterium
glyphoptioncodes	data table	N maxbytecodeindex
groupcodes	data table	N maxcardinal
hashtokens	function	N maxcategorycode
hyphenationcodes	data table	N maxcharactercode
ifs	data table	N maxcharcode

number function function function overloaded function function overloaded function function function overloaded function function overloaded function function function function table function table number table

N maxdatavalue N unusedstatevalue N maxdimen N zeroalue mathchardef function N maxfunctionreference mathcode table N maxhalfvalue mathcontrolcodes data table N maxhalfword mathflattencodes data table N maxinteger mathoptioncodes data table N maxmarkindex modelevels table N maxmathclasscode N horizontal N maxmathfamilyindex N maxnewlinecharacter N math N maxnofbytecodes N unset N maxnofcatcodetables N vertical data table N maxnoffonts modes mprint function N maxnoflanguages muglue table N maxnofmarks muskip table N maxnofmathfamilies table N maxnofregisters nest nilcatcodes number N maxquarterword normalizecodes data table N maxregisterindex notcatcodes number N maxsizeofword N maxspacefactor number function parcontextcodes data table N mincardinal function N mindatavalue poplocal function N mindimen primitives function N minhalfword print prtcatcodes number N mininfinity pushlocal function N mininteger quitlocal function N minquarterword N minspacefactor quittoks function function resetparagraph N nocatcodetable rlncatcodes number N null romannumeral function N nullflag N nullfont round function runlocal function N onebp runstring function N presetrulethickness runtoks function N runningrule saveboxresource function N smallstretchability scale function N texeqtbsize function scantoks N texhashprime function N texhashsize set setattribute function N two function setbox N unity setboxdir function N unusedattributevalue setcatcode function N unusedscriptvalue

setcount	function	settoks	function
setdelcode	function	setuccode	function
setdimen	function	sfcode	table
setdimensionvalue	function	shiftparshape	function
setglue	function	shipout	function
setglyphdata	function	showcontext	function
setglyphscript	function	skip	table
setglyphstate	function	snapshotpar	function
setinsertcontent	function	sp	function
setinsertdistance	function	splitbox	function
setinsertlimit	function	sprint	function
setinsertmultiplier	function	stringtocodesbitmap	function
setintegervalue	function	systemmodes	data table
setinteraction	function	takebox	function
setlccode	function	texcatcodes	number
setlinedir	function	textcontrolcodes	data table
setlist	function	toks	table
setmath	function	tonumber	function
setmathcode	function	toscaled	function
setmathdir	function	tpacatcodes	number
setmuglue	function	tpbcatcodes	number
setmuskip	function	tprint	function
setnest	function	trackers	data table
setpardir	function	triggerbuildpage	function
setrunstate	overloaded functi	ortxtcatcodes	number
setsfcode	function	type	function
setskip	function	uccode	table
setsynctexline	function	uprint	function
setsynctexmode	function	useboxresource	function
setsynctextag	function	vrbcatcodes	number
settextdir	function	write	function

# texconfig (basic tex)

buffersize	table	1	4-bl-
	table	languagesize	table
N size		N size	
N step		N step	
errorlinesize	table	marksize	table
N size		N size	
expandsize	table	N step	
N size		nestsize	table
filesize	table	N size	
N size		N step	
N step		nodesize	table
firstline	string	N size	
fontsize	table	N step	
N size		parametersize	table
N step		N size	
formatname	string	N step	
functionsize	number	poolsize	table
halferrorlinesize	table	N size	
N size		N step	
hashsize	table	propertiessize	number
N size		savesize	table
N step		N size	
init	overloaded function	N step	
inputsize	table	shell_escape	string
N size		stringsize	table
N step		N size	
insertsize	table	N step	
N size		tokensize	table
N step		N size	
kpse_init	boolean	N step	

# texio (basic tex)

closeinput	function	writenl	function
terminal	function	writeselector	function
write	function	writeselectorlf	function
write_nl	function	writeselectornl	function

# token (basic tex)

create	function	getexpandable	function
expand	function	getfields	function
expand macro	function	getflags	function
expandmacro	function	getfrozen	function
future expand	function	getfunctionvalues	function
futureexpand	function	getid	function
get_active	function	getimmutable	function
get cmdchrcs	function	getindex	function
get cmdname	function	getinstance	function
get command	function	getinteger	function
get csname	function	getmacro	function
get_cstoken	function	getmeaning	function
get_dimension	function	getnoaligned	function
get_expandable	function	getparameters	function
get_fields	function	getpermanent	function
get_flags	function	getprimitive	function
get_frozen	function	getprimitives	function
get_id	function	getprotected	function
get_immutable	function	getrange	function
get_index	function	gettok	function
get_instance	function	gettolerant	function
get_integer	function	gobble	function
get_macro	function	gobble_dimen	function
get_meaning	function	gobble_integer	function
get_noaligned	function	gobbledimen	function
<pre>get_parameters</pre>	function	gobbleinteger	function
get_permanent	function	is_defined	function
get_primitive	function	is_next_char	function
get_protected	function	is_token	function
get_range	function	isdefined	function
get_tok	function	isnextchar	function
get_tolerant	function	istoken	function
getactive	function	new	function
getcmdchrcs	function	peek_next	function
getcmdname	function	peek_next_char	function
getcommand	function	peek_next_expanded	function
getcommandid	function	peeknext	function
getcommandvalues	function	peeknextchar	function
getcsname	function	peeknextexpanded	function
getcstoken	function	pop_macro	function
getdimension	function	popmacro	function

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

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

# tokens (context)

accessors	table		U color	
F active	cubic		U colorde	falc
F cmd			U colorde	
F cmdchro			U colorde	
F cmdname			U colorde	
F command				hreference
F csname			U dostart	
F expanda	ahl a		U finishj	
F frozen	inte			oneargument
F index				twoarguments
F name				_
F protect	and		U goto	neargument
F range	.eu		U iftrue	
astable	function		U input	
bits	table			ndtypescriptfile
N active	cubic		U resetct	
N alignme	ant		U rlap	Ascumer
N begingr				ftwoarguments
N charact	•		U setfals	-
N close			U setsect	
N comment	-		U setupsy	
N endgrou			U startco	
N endofli			U startta	
N escape			U startti	
N ignore			U startxt	
N invalid	ı		U stopcol	
N letter	•		U stoptab	
N mathshi	ft		U stoptit	
N open			U stopxti	
N other			U texsetu	
N paramet	er		U xmlw	•
N space			mands	data table
N subscri	Lot	com	npile	function
N superso			stant	function
N whitesp		con	verters	<b>table</b>
cache	table		S toboole	an
U NC			S todimen	
U NR			S toglue	
U bf			S tonumbe	r
U buff fi	nish		S tostrin	g
U c font			eate	function
	= :			

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

F tokencode N open F tokenlist F report F tokens F scanargument F toks F scanargumentasis F value F scanarray F vbox F scanboolean F verbatim F scanbox F scanbracketed F vtop F scanbracketedasis F whd F word F scancardinal setinteger function F scanclose table setters F scancode F box F scanconditional F char F scancsname F count F scancsnameunchecked F dimen F scandelimited F glue F scandimen F scandimenargument F lua F scandimension F macro F skip F scanglue shortcuts table F scangluespec T bits F scangluevalues N active F scanhash N alignment F scanhbox N begingroup F scaninteger N character F scanintegerargument N close F scankeyword N comment F scankeywordcs N endgroup F scanletters N endofline F scanlist N escape T scanners N ignore F argument N invalid F argumentasis N letter F array N mathshift F boolean F box N open N other F bracketed F bracketedasis N parameter F cardinal N space N subscript F char N superscript F cmdchr N whitespace F cmdchrexpanded N close F code F inspect F conditional

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

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

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

F scanopen values data table

F scanoptional

### tracers (context)

printerror function printwarning function showlines function

# trackers (context)

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

# typesetters (context)

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

D factors		F apply	
		F apply	
F handler		F register F reset	
F keepligature			
D mapping		F split	
F set localboxes	+ahla	F startapply	
	table	F stopapply	
F handler	+ahla	F stripped	
manipulators -	table	F tostring	1 -
F apply		<b>rubies</b> tab	te
F applyspecific	cation	F attach	
T methods		F check	
F Word			ction
F Words		<b>spacings</b> tab	le
F abbreviated		F define	
F expandedjou	rnal	F handler	
F lowercase		D mapping	
F stripperiod		T numbers	
F uppercase		T frenchpunctuation	
T patterns		T characters	
U list		S name	
U pair		N number	
F splitspecific	cation	F reset	
margins	table	F set	
F finalhandler		F setup	
F globalhandler	-	<b>wrappers</b> tab	le
F localhandler		F handler	
F save		<b>xtables</b> tab	le
marksuspects	function	F cleanup	
paragraphs	table	F construct	
F addanchortoli	ne	F create	
F addtoline		F finish_row	
F calculatedelt	ca .	F flush	
F checkline		F initialize_construc	t
F handler		F initialize_reflow_h	eight
F moveinline		F initialize_reflow_w	idth
F set		F next_row	
periodkerns	table	F reflow_height	
D factors		F reflow_width	
F handler		F set_construct	
D mapping		F set_reflow_height	
F set		F set_reflow_width	
processors	table		

### updaters (context)

apply function
register function

# url (context)

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

# utf8 (basic lua)

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

# utilities (context)

debugger	table	F readsignedbyte		
F disable	cable	F readstring		
F enable		F readtag		
F savestats		•		
F savestats		F setposition F size		
F showtraceback files	table	F skip		
	tabte	F skiplong		
F close		F skipposition		
F getposition		F skipshort		
F getsize		F writebyte		
F look		F writecardinal1		
F open		F writecardinal1		
F read2dot14		F writecardinal2		
F readbyte		F writecardinal2		
F readbytes		F writecardinal3		
F readbytetable		F writecardinal3le		
F readcardinal		F writecardinal4		
F readcardinal1	_	F writecardinal4le		
F readcardinal1	le	F writeintegerl		
F readcardinal2		F writeinteger1le		
F readcardinal2	le	F writeinteger2		
F readcardinal3		F writeinteger2l	е	
F readcardinal3	le	F writeinteger3		
F readcardinal4		F writeinteger3le		
F readcardinal4		F writeinteger4		
F readcardinalta	able	F writeinteger4l	е	
F readchar		F writestring		
F readcline		formatters	table	
F readcstring		F formatcolumns		
F readfixed2		F list		
F readfixed4		F stripzeros		
F readinteger		ghostscript	table	
F readinteger1		F convert		
F readinteger1le	e	F statistics		
F readinteger2		graphicmagick	table	
F readinteger2le	e	F convert		
F readinteger3		F statistics		
F readinteger3le	e	graphicsmagick	table	
F readinteger4		F convert		
F readinteger4le	e	F statistics		
F readintegertal	ble	lua	table	

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

F popseed		Fsp	arse
F pushseed		stream	
F repeatable		F cl	ose
F reuseseed		F ge	tposition
F setseed		_	tsize
F setseedi		3	tstring
randomizers	table	F lo	-
F poisson		F op	en
sequencers	table	F op	enstring
F appendaction			ad2dot14
F appendgroup		F re	adbyte
F compile		F re	adbytes
F disableaction		F re	adbytetable
F disablegroup		F re	adcardinal
F enableaction		F re	adcardinal1
F enablegroup		F re	adcardinal1le
D functions		F re	adcardinal2
F localize		F re	adcardinal2le
F new		F re	adcardinal3
F nodeprocessor		F re	adcardinal3le
F prependaction		F re	adcardinal4
F prependgroup		F re	adcardinal4le
F removeaction		F re	adcardinaltable
F replaceaction		F re	adchar
F setkind		F re	adcline
F tostring		F re	adcstring
setters	table	F re	adfixed2
F disable		F re	adfixed4
F enable		F re	adinteger
F initialize		F re	adinteger1
F list		F re	adinteger1le
F new		F re	adinteger2
F register		F re	adinteger2le
F report		F re	adinteger3
F reset		F re	adinteger3le
F show		F re	adinteger4
stacker	table	F re	adinteger4le
F new		F re	adintegertable
storage	table		adsignedbyte
F allocate			adstring
F checked			tposition
F mark		F si	ze
F marked		F sk	ip
F setinitialize	-	F sk	ipbytes

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

# visualizers (context)

escapepatterns	data table	signal	string
• •		•	3
getspecification	function	signalpattern	userdata
getvisualizer	function	specifications	data table
load	function	visualize	function
makenested	function	visualizebuffer	function
makepattern	function	visualizefile	function
newgrammar	function	visualizestring	function
newhandler	function	write	function
parsedxml	function	writeargument	function
pattern	function	writedefault	function
register	function	writeemptyline	function
registerescapecommand	function	writenewline	function
registerescapeline	function	writespace	function
registerescapepattern	function		

# xcomplex (extra lua)

Marchion			
div	I	function	F sqrt
eq function table F tostring F tostring F I Fadd Fmul Fdiv Sname Fpow Fsub Fsub Fdiv			F tan
FI F totable  FI Fadd Fmul  Fdiv Sname  Feq Fpow  Tindex Fsub  FI Fsub  FI Fsub  F I Fsub  Fdiv Fabs  Fdiv Fabs  Feq Fpow  Facos  Fmul Facos  Sname Farg  Fpow Fasin  Fsub Fsub Fasin  Fsub Fsub Fasin  Ftostring Fatan  Funm Fatanh  Fbas Fconj  Facos  Facos Fcos  Facos Fcos  Facos Fcos  Facos Fcos  Facos Fcos  Fasin Fi  Fasin Fasin Fi  Fasin Fi  Fasin Fasin Fi  Fasin Fasin Fasin Fi  Fasin Fi  Fasin Fasin Fasin Fasin Fi  Fasin	div		F tanh
F   Godd			F topair
Fadd	inde	x table	F tostring
F _ eq         F _ pow           T _ index         F _ sub           F I         F _ tostring           F _ add         F _ unm           F _ div         F abs           F _ acos         F acosh           S _ name         F acosh           F _ mul         F acosh           F _ pow         F asin           F _ sub         F asinh           F _ tostring         F atanh           F _ unm         F atanh           F _ cosinh         F conj           F acos         F conj           F acosh         F cosh           F acosh         F cosh           F asinh         F imag           F atanh         F new           F conj         F pow           F cosh         F real           F exp         F sin           F imag         F sinh           F imag         F sinh           F imag         F sinh           F imag         F tanh           F pow         F topair           F totable <td< th=""><th></th><th></th><th>F totable</th></td<>			F totable
F _ eq	F	add	Fmul
Tindex         Fsub           F I         Ftostring           Fadd         Funm           Fdiv         F abs           Fdiv         F abs           Fdiv         F abs           Fdiv         F abs           Facos         F acosh           Fnmul         F acosh           Fsub         F asin           Fsub         F asinh           Funm         F atanh           F acos         F conj           F atanh         F inag           F atanh         F new           F cosh         F real           F conj         F sinh           F inag         F sinh           F inag         F sinh           F inag         F sinh	F	div	Sname
F I Ftostring Fadd Funm Fdiv F abs Feq F acos Fmul F acosh Sname F arg Fpow F asin Fsub F asinh Ftostring F atan Funm F atanh F abs F conj F acos F cos F acosh F cosh F arg F exp F asin F i F asinh F imag F atanh F atanh F imag F atanh F atanh F imag F atanh F atanh F imag F atanh F i i i i i i i i i i i i i i i i i i i	F	eq	Fpow
F _ add	Т	index	Fsub
F _ div	F :	I	Ftostring
F _ eq       F acos         F _ mul       F acosh         S _ name       F arg         F _ pow       F asin         F _ sub       F asinh         F _ sub       F asinh         F _ tostring       F atanh         F _ unm       F atanh         F abs       F conj         F acos       F cos         F acosh       F cosh         F arg       F exp         F asinh       F imag         F atanh       F new         F conj       F pow         F cosh       F proj         F cosh       F real         F exp       F sinh         F imag       F sqrt         F log       F tanh         F pow       F topair         F pow       F topair         F proj       F tostring         F real       F totable         F sin       Function	F	add	Funm
Fmul       F acosh         Sname       F arg         Fpow       F asin         Fsub       F asinh         Fsub       F asinh         Ftostring       F atan         Funm       F atanh         F abs       F conj         F acos       F cosh         F acosh       F cosh         F arg       F exp         F asinh       F imag         F atanh       F new         F conj       F pow         F cosh       F proj         F cosh       F real         F exp       F sinh         F imag       F sqrt         F log       F tan         F new       F tanh         F pow       F topair         F proj       F tostring         F real       F totable         F sin       Function	F .	div	F abs
Sname       F arg         Fpow       F asin         Fsub       F asinh         Ftostring       F atan         Funm       F atanh         F abs       F conj         F acos       F cos         F acosh       F cosh         F arg       F exp         F asin       F i         F asinh       F imag         F atanh       F new         F conj       F pow         F cosh       F proj         F cosh       F real         F exp       F sin         F imag       F sqrt         F log       F tan         F new       F tanh         F pow       F topair         F proj       F tostring         F real       F totable         F sin       mul	F	eq	F acos
Fpow       F asin         Fsub       F asinh         Ftostring       F atan         Funm       F atanh         F abs       F conj         F acos       F cos         F acosh       F cosh         F arg       F exp         F asin       F i         F asin       F i         F asin       F i         F atan       F log         F atanh       F new         F conj       F pow         F cosh       F proj         F cosh       F real         F exp       F sin         F imag       F sqrt         F log       F tan         F new       F tanh         F pow       F topair         F proj       F tostring         F real       F totable         F sin       function	F	mul	F acosh
Fsub F asinh Ftostring F atan Funm F atanh F abs F conj F acos F cos F acosh F cosh F arg F exp F asin F i F asinh F imag F atanh F onj F new F conj F pow F cos F proj F cosh F real F exp F i F sinh F imag F i tan F i mag F tan F i mag F tostring F i mag F tostring F real F pow F tostring F proj F tostring F real F sin F inew F tostring F real F totable F sin	S .	name	F arg
Ftostring Funm F _atanh F abs F conj F acos F acosh F acosh F arg F exp F asin F i F asinh F imag F atanh F new F conj F cos F cos F proj F cosh F i F sin F i F sinh F imag F tan F topair F tostring F real F proj F prod F tostring F proj F tostring F proj F tostring F proj F tostring F real F sin F sin F tostring F real F sin F totable F sin	F	pow	F asin
F _ unm F abs F conj F acos F acosh F acosh F arg F exp F asin F i F asinh F imag F atanh F new F conj F cos F cos F proj F cosh F i F exp F sin F i F sinh F imag F tan F proj F tosh F real F exp F sin F i F sinh F imag F syrt F log F tan F pow F tan F pow F tan F imag F syrt F log F tan F tan F pow F tan F pow F tan F tan F pow F tan F tan F pow F tan F tan F pow F topair F proj F tostring F real F totable F sinmul function	F	sub	F asinh
F abs F conj F acos F cos F acosh F cosh F arg F exp F asin F i F asinh F imag F atan F log F atanh F new F conj F pow F cos F proj F cosh F real F exp F sin F i F sinh F imag F sqrt F log F tan F pow F to F cosh F real F exp F sin F i F sinh F imag F sqrt F log F tan F pow F topair F proj F real F tostring F real F totable F sinmul function	F.	tostring	F atan
Facos Fcosh Facosh Fcosh Farg Fexp Fasin Fi Fasinh Fimag Fatan Flog Fatanh Fnew Fconj Fpow Fcos Fproj Fcosh Freal Fexp Fsin Fi Finag Fsin Fi Finag Fsin Fi Food Frod Frod Frod Frod Frod Frod Frod Frod	F	unm	F atanh
F acosh F arg F arg F asin F asin F i F asinh F imag F atan F log F atanh F conj F cos F proj F cosh F real F exp F sin F i F i F sinh F imag F sqrt F log F tan F new F tog F tan F new F tog F tan F real F syrt F log F tan F new F tan F new F tan F new F topair F proj F real F tostring F real F totable F sin	F	abs	F conj
F arg F exp F asin F i F asinh F imag F atan F log F atanh F new F conj F pow F cos F proj F cosh F real F exp F sin F i F sinh F imag F sqrt F log F tan F new F tanh F pow F topair F proj F tostring F real F totable F sinmul function	F	acos	F cos
F asin       F i         F asinh       F imag         F atan       F log         F atanh       F new         F conj       F pow         F cosh       F real         F exp       F sin         F i       F sinh         F imag       F sqrt         F log       F tan         F new       F tanh         F pow       F topair         F proj       F tostring         F real       F totable         F sin      mul	F	acosh	F cosh
F asinh F imag F atan F log F atanh F new F conj F pow F cos F proj F cosh F real F exp F sin F i F sinh F imag F sqrt F log F tan F new F tanh F pow F topair F proj F tostring F real F totable F sinmul function	F	arg	F exp
F atan F log F atanh F new F conj F pow F cos F proj F cosh F real F exp F sin F i F sinh F imag F sqrt F log F tan F new F tanh F pow F topair F proj F tostring F real F totable F sinmul function	F	asin	Fί
F atanh       F new         F conj       F pow         F cosh       F proj         F cosh       F real         F exp       F sin         F i       F sinh         F imag       F sqrt         F log       F tan         F new       F tanh         F pow       F topair         F proj       F tostring         F real       F totable         F sin      mul	F	asinh	F imag
F conj       F pow         F cos       F proj         F cosh       F real         F exp       F sin         F i       F sinh         F imag       F sqrt         F log       F tan         F new       F tanh         F pow       F topair         F proj       F tostring         F real       F totable         F sin      mul	F	atan	F log
F cos         F proj           F cosh         F real           F exp         F sin           F i         F sinh           F imag         F sqrt           F log         F tan           F new         F tanh           F pow         F topair           F proj         F tostring           F real         F totable           F sin        mul         function	F	atanh	F new
F cosh         F real           F exp         F sin           F i         F sinh           F imag         F sqrt           F log         F tan           F new         F tanh           F pow         F topair           F proj         F tostring           F real         F totable           F sin        mul         function	F	conj	F pow
F exp         F sin           F i         F sinh           F imag         F sqrt           F log         F tan           F new         F tanh           F pow         F topair           F proj         F tostring           F real         F totable           F sin        mul         function	F	cos	F proj
F i         F sinh           F imag         F sqrt           F log         F tan           F new         F tanh           F pow         F topair           F proj         F tostring           F real         F totable           F sin        mul         function	F	cosh	F real
F imag         F sqrt           F log         F tan           F new         F tanh           F pow         F topair           F proj         F tostring           F real         F totable           F sin        mul         function	F	exp	F sin
F log         F tan           F new         F tanh           F pow         F topair           F proj         F tostring           F real         F totable           F sin        mul         function	F	i	F sinh
F new F tanh F pow F topair F proj F tostring F real F totable F sinmul function	F:	imag	F sqrt
F pow F topair F proj F tostring F real F totable F sinmul function	F	log	F tan
F proj F tostring F real F totable F sinmul function	Fı	new	F tanh
F real F totable F sinmul function	F	pow	F topair
F sinmul function	F	proj	F tostring
<del></del>	F	real	F totable
F sinhname string	F s	sin	<b>mul</b> function
	F :	sinh	<b>name</b> string

function	i	function
function	imag	function
function	log	function
function	new	function
function	pow	function
function	proj	function
function	real	function
function	sin	function
function	sinh	function
function	sqrt	function
function	tan	function
function	tanh	function
function	topair	function
function	tostring	function
function	totable	function
function		
	function	function         imag           function         log           function         pow           function         proj           function         real           function         sin           function         sqrt           function         tan           function         tanh           function         topair           function         tostring           function         totable

# xdecimal (extra lua)

add	function		F getprecision
band	function		F ln
bor	function		F log
bxor	function		F max
div	function		F min
eq	function		F minus
idiv	function		F new
index	table		F plus
Fadd			F pow
Fband			F rotate
Fbor			F setprecision
Fbxor			F shift
Fdiv			F sqrt
Feq			F toengstring
Fidiv			F tonumber
Tindex			F tostring
Fadd			F trim
Fband		F	le
Fbor		F	lt
Fbxor		F	mod
Fdiv		F	mul
Feq		S	name
Fidiv		F	pow
Fle		F	shl
Flt		F	shr
Fmod		F	sub
Fmul		F	tostring
Sname		F	unm
Fpow		F	abs
Fshl		F	band
Fshr		F	bor
Fsub		F	bxor
Ftostring		F	conj
Funm		F	сору
F abs		F	exp
F band		F	getprecision
F bor		F	ln
F bxor		F	log
F conj		F	max
F copy			min
F exp		F	minus

F	new		band	function
F	plus		bor	function
F	pow		bxor	function
F	rotate		conj	function
F	setprecision	ı	сору	function
F	shift		exp	function
F	sqrt		getprecision	function
F	toengstring		ln	function
F	tonumber		log	function
F	tostring		max	function
F	trim		min	function
le		function	minus	function
lt		function	new	function
mo	d	function	plus	function
mu	l	function	pow	function
na	me	string	rotate	function
po	W	function	setprecision	function
sh	ι	function	shift	function
sh	r	function	sqrt	function
su	b	function	toengstring	function
to	string	function	tonumber	function
un	m	function	tostring	function
			4.0	

abs

function

trim

function

## xmath (extra lua)

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

## xml (context)

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

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

inheritedconvert	function	privatetoken	function
inject	function	process	function
inject_element	function	process attributes	function
<pre>inject_element_after</pre>	function	process_elements	function
inject_element_before		processattributes	function
injectafter	function	profiled	table
injecturter	function	pure	function
insert	function	pushmatch	function
insert element	function	raw	function
insert_element_after	function	registerentity	function
insert_element_before		registerns	function
insertafter	function	reindex	function
insertbefore	function	remap name	function
insertcdata	function	remap_namespace	function
insertcomment	function	remap_tag	function
inspect	function	remapname	function
is valid	function	remaphamespace	function
kind	function	remaptag	function
last	function	rename	function
lastmatch	function	renamespace	function
load	function	reparsedentitylpeg	userdata
lpath	function	replace	function
lpathcached	function	replace element	function
lpathcalls	function	resetinjectors	function
lshow	function	resolvens	function
makestandalone	function	root	function
match	function	save	function
name	function	selection	function
newhandlers	function	separate	function
nodesettostring	function	serialize	function
originalload	function	serializetotext	function
package	function	setcdata	function
parent	function	setcomment	function
parsedentitylpeg	userdata	sethandlersfunction	function
pihandlers	table	setinjectors	function
F injector		setproperty	function
F tex		settings	function
placeholders	table	specialcodes	table
F unknown_any_entity		S "	
F unknown_dec_entity		S #	
F unknown_hex_entity		S \$	
popmatch	function	S %	
position	function	S &	
privatecodes	table	S '	

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

# xzip (extra lua)

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

### zip (extra lua)

archives table
closearchive function

openarchive function
registeredfiles table

# zlib (extra lua)

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