

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

ConTeXt LMTX

global (alias: _G)

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

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

tex	table	unpack	function
texconditionals	data table	updaters	table
texconfig	table	url	table
texconstants	data table	userdata	table
texifs	data table	utf	table
texio	table	utf8	table
texisdefined	data table	utilities	table
texmodes	data table	vector	table
texsystemmodes	data table	visualizers	table
thirddata	table	warn	function
toboolean	function	width	number
todecimal	function	xcomplex	table
token	table	xdecimal	table
tokens	table	xmath	table
tonumber	function	xml	table
tostring	function	xpcall	function
tracers	table	xshift	number
trackers	table	xzip	table
type	function	zip	table
typesetters	table	zlib	table

aes (extra lua)

decode function
encode function

random function

attributes (context)

alternates	table	F formatcolor F formatgray F formatluminance F formatluminanceratio F getpagecolormodel F gray F graytohsv F handler T helpers F complement F inbetween F justone F hsvtogram F hsvtorgb F hwbtorbg F iccprofile F isblack F labtolch F labtorgb F labtoxyz F lchtolab F lchtorbg N main S model D models F mpcolor F mpnamedcolor F mpoptions F namedcolorattributes N none F popset F processcolorcomponents F pushset F register D registered F registerspotcolor F rgbrgb F rgbcmyk F rgbtocmyk F rgbtogray F rgbohsv
applyoverloads	function	
checkvalues	function	
colorintents	table	
N attribute D data F enable F handler F register D registered D values		
colors	table	
N attribute F cmyk F cmyktogray F cmyktorgb F colorcomponents D counts B couple F currentmodel F currentnamedmodel D data N default F defineintermediatecolor F definemultitonecolor F defineprocesscolor F defineprocesscolordirect F definesimplegray F definespotcolor F definetransparency F enable F filter N forced F forcedmodel F forcesupport		

F	rgbtosxyz		F	register
N	selector		D	registered
F	setlist		F	set
F	setmodel		numbers	data table
F	setpagecolormodel		ofnode	function
D	sets		private	function
F	spec		public	function
F	spot		registervalue	function
F	spotcolorname		restore	function
F	spotcolorparent		save	function
F	spotcolorvalue		setcleaner	function
B	supported		showcurrent	function
F	toattributes		states	table
F	transparencycomponents		F	disabletriggering
B	triggering		F	enabletriggering
F	usecolors		F	finalize
D	valid		F	initialize
F	value		F	process
D	values		F	selective
B	weightgray		F	simple
F	xyztolab		F	stacked
F	xyztorgb		F	stacker
counts		data table	system	function
define		function	tooverloads	function
effects		table	transparencies	table
N	attribute		N	attribute
D	data		D	data
F	enable		F	enable
F	handler		F	forcesupport
F	register		F	handler
D	registered		T	names
D	values		N	color
getvalue		function	N	colorburn
getvalues		function	N	colordodge
handlers		table	N	darken
hasvalues		function	N	difference
list		data table	N	exclusion
markasoverload		function	N	hardlight
names		data table	N	hue
negatives		table	N	lighten
N	attribute		N	luminosity
D	data		N	multiply
F	enable		N	none
F	handler		N	normal

N overlay	F definedlayoutcomponent	
N saturation	F enable	
N screen	F forcesupport	
N softlight	F handler	
N none	B hasorder	
F register	D listwise	
D registered	F register	
B supported	D registered	
F toattribute	F resolve_begin	
B triggering	F resolve_end	
F value	F resolve_reset	
D values	F resolve_step	
unsetvalue	number	D scopes
values	data table	F setfeatures
viewerlayers	table	F setup
N attribute	F start	
F cleanup	F stop	
D data	B supported	
F define	D values	

backends (context)

closeout	function	F analyzenormalsymbol
codeinjections	table	F analyzesymbol
F registerboxresource		F attachmentid
F registerfont		F bitmap
F restoreboxresource		F clonefield
current	string	F copyimage
defaults	table	F defaultprofile
T codeinjections		F definefield
F prerollreference		F definefieldset
F setautoprefix		F defineviewerlayer
F vfstartcolor		F discardpages
F vfstopcolor		F embedfile
T nodeinjections		F embedimage
F cmykcolor		F enabletags
F destination		F exportformdata
F graycolor		F fieldsurrounding
F injectknockout		F flushmergelayer
F injectoverprint		F getbookmarks
F reference		F getboxresourcebox
F rgbcolor		F getdefaultfieldvalue
F spotcolor		F getfieldcategory
F transparency		F getfieldset
T registrations		F getformatoption
F transparency		F getinfo
D tables		F getlinkstructureparent
getcallbackstate	function	F getreferencestructureobject
included	table	F getrefobj
B context		F insertrenderingwindow
B date		F jp2
B id		F jpg
B metadata		F maptag
B pdf		F mergebookmarks
initialize	function	F mergecomments
latelua	function	F mergefields
nodeinjections	table	F mergereferences
nothing	function	F mergerenditions
openout	function	F mergeviewerlayers
registered	table	F newimage
T pdf		F png
T codeinjections		F prerollreference
F addbookmarks		F presymbol

F presesymbollist	F useviewerlayer
F processrendering	F validcompactor
F registerdocumentcloseaction	F validfield
F registerdocumentopenaction	F validfieldcategory
F registeredsymbol	F validfieldset
F registerfiguremask	F vfstartcolor
F registerfigurerange	F vfstopcolor
F registerpagecloseaction	F wrapimage
F registerpageopenaction	S name
F registerpattern	T nodeinjections
F registersymbol	F addtags
F ruleactionbox	F annotation
F ruleactiondraw	F attachfile
F ruleactionfill	F changestackedlayer
F ruleactionmp	F cmykcolor
F ruleactionstroke	F comment
F saveboxresource	F destination
F scanimage	F effect
F setattachmentsupport	F getboxresourcedimensions
F setautoprefix	F graycolor
F setencryption	F injectbitmap
F setfieldcalculationset	F insertu3d
F setfigurecolorspace	F knockout
F setfiguremask	F negative
F setformat	F overprint
F setformsmethod	F positive
F setjobcomment	F reference
F setpagetransition	F rgbcolor
F settaggingsupport	F spotcolor
F setupviewerlayer	F startalternate
F setuserdata	F startlayer
F setxmpfile	F startstackedlayer
F startactualtext	F stopalternate
F startalternativetext	F stoplayer
F startlayer	F stopstackedlayer
F startunicodetoactualtext	F transparency
F startunicodetoactualtextdirect	F typesetfield
F stopactualtext	F useboxresource
F stopalternativetext	T registrations
F stoplayer	F cmykindexcolor
F stopunicodetoactualtext	F cmykspotcolor
F stopunicodetoactualtextdirect	F getspotcolorreference
F supportedformats	F grayindexcolor
F unicodetoactualtext	F grayspotcolor

F rgbindexcolor
F rgbspotcolor
F spotcolorname
F transparency
T tables

registrations table
setencryption function
tables table
writeout function

basexx (extra lua)

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

bit32 (context)

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

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

blobs (context)

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

builders (context)

checkparcontext	function	F start
checksidefloat	function	F stop
hpack	table	F tag
		parpassidentifier function
		passnames data table
		profiling table
		F add
		F adddrivers
		F boxlinehandler
		F distance
		F fixedprofile
		F get
		F getrivers
		F list
		F pagehandler
		F pagelinehandler
		F profilebox
		F profilelines
		F set
		F setlines
		registerpaspasscallback function
		vpack table
		F qualityactions
		F report
		vspacing table
		D categories
		F checkstrutdepth
		F collapsevbox
		T data
		D map
		D skip
		D snapmethods
		F definesnapmethod
		B fixed
		F flushcontributions
		F forcepageflush
		F forcestrutdepth
		F getnofpreviouslines
		F inject
		F injectdisable
		F injectpenalty

F injectskip	F setskip
F interceptsamepagecontent	F snapbox
F pagehandler	F synchronizepage
F pageoverflow	F tocATEGORIES
F popatsame	F tocATEGORY
F pushatsame	F vboxhandler
F setmap	

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	list	function
getindex	function	names	function
getoptions	function	register	overloaded function
getoptionvalues	function	setoptions	function
getstate	function	setstate	function
getstatevalues	function	testonly	function
known	function	usage	function

callbacks (context)

freeze	function	register	function
functions	table	report	function
F start_page_number		statecodes	table
F stop_page_number			N disabled
known	function		N frozen
optimizer	function		N fundamental
optioncodes	table		N private
N direct			N selective
N trace			N set
pop	function		N touched
push	function		N tracing

catcodes (context)

names data table
numbers data table

register function

characters (context)

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

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

chemistry (context)

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

containers (context)

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

converters (context)

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

uchexnumber	function	F translate	
uchexnumbers	function	weekday	function
upper	function	word	function
verbose	table	words	function

D data

coroutine (basic lua)

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

ctxrunner (context)

load	function	prefiles	data table
preparedfile	function	resolve	function

debug (basic lua)

getinfo	function	traceback	function
sethook	function		

dir (context)

collectpattern	function	globfiles	function
current	function	globpattern	function
expandlink	function	ls	function
expandname	function	makedirs	function
found	function	mkdirs	function
glob	function	pop	function
globdirs	function	push	function

directives (context)

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

document (context)

arguments	data table	pdf_cleanup_procsets	function
files	table	pdf_identify_content	function
functions	table	pdf_serialize_content	function
getargument	function	pdf_strip_content	function
getfilename	function	pdf_strip_page	function
options	table	setargument	function
T commandline		setcommandline	function
D environments		setDefaultargument	function
D modes		setenvironments	function
D modules		setfilename	function
T ctxfile		setfilenames	function
D environments		setmodes	function
D modes		setmodules	function
D modules		variables	data table
pdf_cleanup_cidsets	function		

documentdata (context)

variable function

drivers (context)

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

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

environment (context)

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

experiments (context)

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

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

figures (context)

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

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

file (basic lua)

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

fio (extra lua)

getposition	function	readinteger1le	function
read2dot14	function	readinteger2	function
readbytes	function	readinteger2le	function
readbytetable	function	readinteger3	function
readcardinal1	function	readinteger3le	function
readcardinal1le	function	readinteger4	function
readcardinal2	function	readinteger4le	function
readcardinal2le	function	readintegerstable	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
readcstring	function	writecardinal3	function
readfixed2	function	writecardinal3le	function
readfixed4	function	writecardinal4	function
readinteger1	function	writecardinal4le	function

floats (context)

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

font (basic tex)

addcharacters	function	getmathspec	function
addquality	function	getparameterfields	function
current	function	gettextcharacterfields	function
define	function	id	function
getfont	function	max	function
getfontdimen	function	nextid	function
getfontfields	function	setfont	function
getfontspec	function	setfontdimen	function
getmathcharacterfields	function	xscaled	function
getmathindex	function	yscaled	function

fonts (context)

analyzers	table	F beforepassingfonttotex D cache F calculatescale F checkedfeatures F checkedfilename F collectprocessors F currentfonthasfeature D designsizes F enhanceparameters T enhancers T afm F apply F patch T patches F register F report F register F report T otf F addfeature F apply F enhance F patch T patches F register F report F register F report T tfm F apply F patch T patches F register F report F register F report N factor T features D afm D otf D tfm
callbacks	table	F compile F devirtualize
checkers	table	F getmissing D mapping F missing F placeholder
cid	table	F getmap F loadfile
collections	table	F checkenabled F clonevector F define T definitions F direct F found F prepare F process F register F registermain F report F reset T rscales T vectors
constructors	table	F addcharacters F addcoreunicodes F aftercopyingcharacters F applyfinalizers F applymanipulators F assignmathparameters F beforecopyingcharacters

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

D pdfcache	T gsubhandlers
F plugininitializer	F alternate
F pluginprocessor	F chainedcontext
T plugins	F context
T text	F extension
D pngcache	F ligature
B pngenabled	F multiple
T readers	F reversechainedcontextsingle
F addunicodetable	F single
F avar	F gvar
F cbdt	F head
F cbdc	T helpers
F cff	F axisoftfactors
F cff2	F cleanname
Tcffencoder	F getaxissscale
F checkhash	F getfactors
F cmap	F getscales
F colr	F gotodatatable
F compact	F normalizedaxis
F condense	T normalizeddaxishash
F cpal	F readvariationdata
F dsig	F reportskippedtable
F ebdt	F setvariabledata
F eblc	F hhea
F ebdc	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 potracetocff
F marktoligature	F registerextender
F marktomark	F rehash
F pair	F sbix
F single	F stat
F gsub	T streamreader

F close	F writecardinal1
F getposition	F writecardinal1le
F getsize	F writecardinal2
F look	F writecardinal2le
F open	F writecardinal3
F read2dot14	F writecardinal3le
F readbyte	F writecardinal4
F readbytes	F writecardinal4le
F readbytetable	F writeinteger1
F readcardinal	F writeinteger1le
F readcardinal1	F writeinteger2
F readcardinal1le	F writeinteger2le
F readcardinal2	F writeinteger3
F readcardinal2le	F writeinteger3le
F readcardinal3	F writeinteger4
F readcardinal3le	F writeinteger4le
F readcardinal4	F writestring
F readcardinal4le	F stripredundant
F readcardinaltable	F svg
F readchar	N tableversion
F readcline	F unifymissing
F readcstring	F unpack
F readfixed2	F vhea
F readfixed4	F vmtx
F readinteger	F vorg
F readinteger1	F vvar
F readinteger1le	F woff2otf
F readinteger2	F registerpalette
F readinteger2le	F registerplugin
F readinteger3	F reorderlookups
F readinteger3le	F scriptandlanguage
F readinteger4	F setdynamics
F readinteger4le	F setfeatures
F readintegertable	T statistics
F readsignedbyte	D usedfeatures
F readstring	D svgcache
F readtag	B svgenabled
F setposition	T tables
F size	D baselines
F skip	D features
F skiplong	D featuretypes
F skipposition	D languages
F skipshort	D scripts
F writebyte	F texthandler

T vectors	F combine
T arab	T combiner
T gpos	D commands
N curs	D helpers
N kern	D math
N mark	D predefined
N mkmk	N version
T gsub	D whatever
N calt	F hashfeatures
N ccmp	F hashinstance
N cswh	T hashmethods
N dlig	F normal
N fina	F virtual
N init	F initializefeatures
N isol	D loadedfonts
N liga	N noffontsloaded
N medi	Nnofsharedfonts
N mset	Nnofsharedhashes
N rclt	Nnofsharedvectors
N rlig	Nprivateoffset
N version	Dprivateslots
T pfb	Freadanddefine
Ffilterencoding	Fregisterfeature
Ffiltermetadata	Fregisterscriptset
Floadvector	Fresetfeature
Nversion	Bresolvevirtualtoo
Ttfm	Fscale
Dcache	Fscaled
Dfeatures	Fsetfactor
Nmaxnestingdepth	Fsetfeature
Nmaxnestingsize	Fsetmathparameter
Treaders	Fsetname
Floadpk	Bsharefonts
Floadtfm	Ftrytosharefont
Floadtfmvf	Nversion
Floadvf	current function
Fpktopdf	currentid function
Fpotracedtopdf	definers table
Fshowpk	Faddlookup
Freencode	Fanalyze
Fsetfeatures	Fapplypostprocessors
Nversion	Fcheckedmode
Tvf	Fcheckedscript
Tcombinations	Sdefaultlookup

F define		enhanceid	function
F getspecification		expansions	data table
F internal		formats	data table
F loadfont		getalternate	function
F makespecification		getindices	function
T methods		getkern	function
F install		getmultiple	function
D variants		getsubstitution	function
F read		getters	table
F register		T alternate	
F registered		F opentype	
F registerfallbackfont		T kern	
F registersplit		F opentype	
F resetnullfont		F type1	
F resolve		F type3	
T resolvers		T multiple	
F file		F opentype	
F name		T substitution	
F spec		F opentype	
definetypeface	function	goodies	table
dropins	table	D colorschemes	
F clone		T data	
F getshape		T common-math.lfg	
F getshapes		S author	
F nextid		S comment	
F provide		S copyright	
F registerglyph		B initialized	
F registerglyphs		T mathematics	
F swap		T tweaks	
F swapone		T presets	
effects	table	F addmathkerns	
encodings	table	F braille	
T agl		F eulertocalligraphic	
D ctxcodes		F fallbacks	
D extras		F moderntocalligraphic	
D synonyms		F moveintegrals	
D unicodes		F moveitalics	
D cache		F pagellaradical	
F is_known		F rsfstoscript	
D known		F rsfsuprighttoscript	
F load		F scripttocalligraphic	
F make_unicode_vector		F smalldigits	
D math		F wipeanchors	
N version		F wipeitalics	

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

F appendcommandtable	F startcolor
F checkflags	F stopcolor
F checkmerge	T vfspecials
F checksteps	T backgrounds
F collectanchors	T outlines
F combineglyphs	infofont function
D commands	iterators table
F composecharacters	F characters
F descriptiontoslot	F descriptions
F dimenfactor	F glyphs
F expandglyph	loggers table
D extraprivates	F format
F fontpatternhassize	F onetimemessage
F getcoloredglyphs	F register
F getdigitwidth	F reportdefinedfonts
F getinstancespec	F reportusedfeatures
F getparameters	mappings table
F getprivatecharornode	F addtounicode
F getprivatenode	F fromunicode16
F getprivates	F getentry
F getprivateslot	F loadfile
F glyphdimenfactor	F loadline
F hasprivate	F makenameparser
F indextoslot	D overloads
F isprivate	F reset
F mathscriptslots	F tounicode
F name	F tounicode16
F nametoslot	F tounicode16sequence
F newprivateslot	metapost table
F prependcommands	F baseline
F prependcommandtable	F boundingbox
F privateslot	F boxtomp
F registerglyphbox	F draw
F scalecommands	F fill
F setboxdirectly	F glyph
F setboxglyph	F maxbounds
F setboxglyphs	F paths
F setdigitwidth	F widthline
F setmetaglyph	F zeroline
F setmetaglyphs	mode function
D sharedprivates	names data table
F splitfontpattern	nulldata data table
F tochar	privateoffsets table
T vfinjectors	B keepnames

N mathbase	F registerfontalternative
N mathextrabase	F registerfontfamily
N textbase	F textfallback
N textextrabase	F typeface
protrusions	data table
readers	table
F afm	specifiers table
F check_lua	D contextmerged
F check_tfm	F contextnumber
F lua	D contextnumbers
F ofm	D contextsetups
F opentype	F contexttostring
F otf	F definecontext
F pfb	F mergecontext
D sequence	F presetcontext
F tfm	F registercontext
F ttc	T scriptsets
F ttf	T af
F woff	S language
registersanitizer	function
reserveid	function
select	table
D alternatives	N number
F bodyfont	S script
D data	T always
F default	S autolanguage
D defaults	S autoscript
F definefallbackfamily	B checkmissing
F definefontfamily	B curs
F definefontfamilypreset	B kern
D extras	B mark
F fallback	B mkmk
D fallbacks	S mode
F features	N number
F filefallback	S script
F fontdata	S textcontrol
F fontfallback	B wipemath
F fontsynonym	T arabic
F goodies	B analyze
F mathfallback	S autolanguage
D methods	S autoscript
D presets	B calt
F registerfallback	B cmp
F registerfiles	B clig
	B curs
	B dlig
	B fina

B init	S script
B isol	B vatu
B kern	T bengali-two
S language	B abvm
B liga	B abvs
B mark	B akhn
B medi	B blwf
B mkmk	B blwm
S mode	B blws
N number	B calt
B rlig	B cjct
S script	B dist
T ba	B half
S language	B haln
N number	S indic
S script	B init
T bandw:overlay	B kern
B ccmp	S language
B dist	B locl
N number	S mode
T bengali-one	B nukt
B abvm	N number
B abvs	B pres
B akhn	B pstf
B blwf	B pts
B blwm	B rphf
B blws	S script
B calt	B vatu
B cjct	T boldened
B dist	S effect
B half	N number
B haln	T boldened-10
S indic	S effect
B init	N number
B kern	T boldened-15
S language	S effect
B locl	N number
S mode	T boldened-20
B nukt	S effect
N number	N number
B pres	T boldened-25
B pstf	S effect
B pts	N number
B rphf	T boldened-30

S effect	N number
N number	S script
T ca	S textcontrol
S language	B wipemath
N number	T cy
S script	S language
T camelcasing	N number
B camelcasing	S script
N number	T cz
T cn	S language
S language	N number
N number	S script
S script	T de
T color	S language
B ccmp	N number
S color	S script
B dist	T default
N number	S autolanguage
T color:bitmap	S autoscript
B ccmp	B checkmissing
B dist	B curs
N number	B itlc
B sbix	B kern
T color:overlay	B liga
B ccmp	B mark
B colr	B mkmk
B dist	S mode
N number	N number
T color:svg	S script
B ccmp	S textcontrol
B dist	B wipemath
N number	T deo
B svg	S language
T complete	N number
S autolanguage	S script
S autoscript	T devanagari-one
B checkmissing	B abvm
B compose	B abvs
B curs	B akhn
B kern	B blwf
B liga	B blws
B mark	B calt
B mkmk	B cjct
S mode	

B dist	N number
B half	B unicoding
B haln	T es
S indic	S language
B kern	N number
S language	S script
B locl	T et
S mode	S language
B nukt	N number
N number	S script
B pres	T f:fractions
B psts	B frac
B rkrf	N number
B rphf	T f:inferiors
S script	N number
B vatu	B subs
T devanagari-two	T f:kern
B abvm	B kern
B abvs	N number
B akhn	T f:kerns
B blwf	B kern
B blwm	N number
B blws	T f:oldstyle
B calt	N number
B cjct	B onum
B dist	T f:smallcaps
B half	N number
B haln	B smcp
S indic	T f:superiors
B kern	N number
S language	B sups
B locl	T f:tabular
S mode	N number
B nukt	B tnum
N number	T fi
B pres	S language
B psts	N number
B rkrf	S script
B rphf	T followtext
S script	B ligा
B vatu	N number
T dingbats	T fr
S goodies	S language
S mode	N number

S script	B cjct
T fullprotrusion	B dist
N number	B half
S protrusion	B haln
T gr	S indic
S language	B kern
N number	S language
S script	B locl
T grek	S mode
N number	B nukt
S script	N number
T gujarati-one	B pres
B abvm	B psts
B abvs	B rkrf
B akhn	B rphf
B blwf	S script
B blwm	B vatu
B blws	T gurmukhi-one
B calt	B abvm
B cjct	B abvs
B dist	B akhn
B half	B blwf
B haln	B blwm
S indic	B blws
B kern	B calt
S language	B cjct
B locl	B dist
S mode	B half
B nukt	B haln
N number	S indic
B pres	B kern
B psts	S language
B rkrf	B locl
B rphf	S mode
S script	B nukt
B vatu	N number
T gujarati-two	B pres
B abvm	B pstf
B abvs	B psts
B akhn	B rphf
B blwf	S script
B blwm	B vatu
B blws	T gurmukhi-two
B calt	B abvm

B abvs	B rlig
B akhn	S script
B blwf	T hr
B blwm	S language
B blws	N number
B calt	S script
B cjct	T hu
B dist	S language
B half	N number
B haln	S script
S indic	T indic-common
B kern	B abvm
S language	B abvs
B locl	B akhn
S mode	B blwm
B nukt	B blws
N number	B calt
B pres	B dist
B pstf	B haln
B psts	S indic
B rphf	B kern
S script	S language
B vatu	B locl
T hebrew	S mode
B analyze	B nukt
S autolanguage	N number
S autoscript	B pres
B calt	B psts
B ccmp	B rphf
B clig	T inlinenumbers
B curs	N number
B dlig	B pnum
B fina	B tnum
B init	T is
B isol	S language
B kern	N number
S language	S script
B liga	T it
B mark	S language
B medi	N number
B mkmk	S script
S mode	T ja
N number	S language
B reordercombining	N number

S script	B dist
T jamoforms	B half
B ljmo	B haln
N number	S indic
B tjmo	B kern
B vjmo	S language
T just-os	B locl
S mode	S mode
N number	B nukt
B onum	N number
T kannada-one	B pref
B abvm	B pres
B abvs	B pstf
B akhn	B psts
B blwf	B rphf
B blwm	S script
B blws	T la
B calt	S language
B cjct	N number
B dist	S script
B half	T latn
B haln	N number
S indic	S script
B kern	T letterspacing
S language	B ccmp
B locl	B clig
S mode	B dlig
B nukt	S keepligatures
N number	B ligा
B pref	N number
B pres	B rlig
B pstf	T ligatures
B psts	S autolangauge
B rphf	S autoscript
S script	B checkmissing
T kannada-two	B curs
B abvm	B kern
B abvs	B ligা
B akhn	B mark
B blwf	B mkmk
B blwm	S mode
B blws	N number
B calt	S script
B cjct	S textcontrol

B wipemath	S indic
T lm-math-bold	B kern
S effect	S language
N number	B locl
T lowercasing	S mode
B lowercasing	B nukt
N number	N number
T malayalam-one	B pref
B abvm	B pres
B abvs	B pstf
B akhn	B psts
B blwf	B rphf
B blwm	S script
B blws	T math
B calt	B compactmath
B cjct	B flattenaccents
B dist	B kern
B half	S language
B haln	B mathalternates
S indic	S mathexpansion
B kern	S mode
S language	N number
B locl	S script
S mode	B sssty
B nukt	B wipemath
N number	T math-script
B pref	B compactmath
B pres	B flattenaccents
B pstf	B kern
B psts	S language
B rphf	B mathalternates
S script	S mathexpansion
T malayalam-two	S mode
B abvm	N number
B abvs	S script
B akhn	N sssty
B blwf	B wipemath
B blwm	T math-scriptscript
B blws	B compactmath
B calt	B flattenaccents
B cjct	B kern
B dist	S language
B half	B mathalternates
B haln	S mathexpansion

S mode	S mode
N number	S mset
S script	N number
N ssty	B rclt
B wipemath	B rlig
T math-text	S script
B compactmath	S textcontrol
B flattenaccents	B wipemath
B kern	T nl
S language	S language
B mathalternates	N number
S mathexpansion	S script
S mode	T none
N number	B features
S script	S mode
B ssty	N number
B wipemath	T oldstyle
T mathematics	S autolanguage
B compactmath	S autoscript
B flattenaccents	B checkmissing
B kern	B curs
S language	B kern
B mathalternates	B ligia
S mathexpansion	B mark
S mode	B mkmk
N number	S mode
S script	N number
B wipemath	B onum
T mixed	S script
T mongolian	S textcontrol
S autolanguage	B wipemath
S autoscript	T oldstylenumbers
B calt	N number
B checkmissing	B onum
B curs	T original
B fina	S autolanguage
B init	S autoscript
B isol	B checkmissing
B itlc	B curs
B kern	B itlc
B ligia	B kern
B mark	B ligia
B medi	B mark
B mkmk	B mkmk

S mode	B nukt
N number	N number
S script	B pres
S textcontrol	B pstf
B wipemath	B pts
T oriya-one	B rphf
B abvm	S script
B abvs	T pl
B akhn	S language
B blwf	N number
B blwm	S script
B blws	T primes
B calt	N number
B cjct	B primes
B dist	T pt
B haln	S language
S indic	N number
B kern	S script
S language	T quality
B locl	S expansion
S mode	N number
B nukt	S protrusion
N number	T reordercombining
B pres	N number
B pstf	B reordercombining
B pts	T ro
B rphf	S language
S script	N number
T oriya-two	S script
B abvm	T ru
B abvs	S language
B akhn	N number
B blwf	S script
B blwm	T semitic-complete
B blws	B analyze
B calt	S autolanguage
B cjct	S autoscript
B dist	B calt
B haln	B ccmp
S indic	B clig
B kern	B curs
S language	B dlig
B locl	B fina
S mode	B init

B isol	N number
B kern	B rlig
S language	S script
B liga	T simplehebrew
B mark	B analyze
B medi	S autolanguage
B mkmk	S autoscript
S mode	B calt
N number	B ccmp
B rlig	B curs
T semitic-simple	B fina
B analyze	B init
S autolanguage	B isol
S autoscript	B kern
B calt	S language
B ccmp	B mark
B curs	B medi
B fina	B mkmk
B init	S mode
B isol	N number
B kern	B rlig
S language	S script
B mark	T sk
B medi	S language
B mkmk	N number
S mode	S script
N number	T sl
B rlig	S language
T simplearabic	N number
B analyze	S script
S autolanguage	T slanted
S autoscript	N number
B calt	N slant
B ccmp	T smallcaps
B curs	S autolanguage
B fina	S autoscript
B init	B checkmissing
B isol	B curs
B kern	B kern
S language	B mark
B mark	B mkmk
B medi	S mode
B mkmk	N number
S mode	S script

B smcp	T tamil-one
S textcontrol	B abvm
B wipemath	B abvs
T sv	B akhn
S language	B blwm
N number	B blws
S script	B calt
T syriac	B dist
B analyze	B half
S autolanguage	B haln
S autoscript	S indic
B calt	B kern
B ccmp	S language
B clig	B locl
B curs	S mode
B dlig	B nukt
B fin2	N number
B fin3	B pref
B fina	B pres
B init	B psts
B isol	B rphf
B kern	S script
S language	T tamil-two
B liga	B abvm
B mark	B abvs
B med2	B akhn
B medi	B blwm
B mkmk	B blws
S mode	B calt
N number	B dist
B rlig	B half
S script	B haln
T system:tabnum	S indic
B lnum	B kern
N number	S language
B tnum	B locl
T tabledigits	S mode
N number	B nukt
B tabledigits	N number
B tnum	B pref
T tabularnumbers	B pres
N number	B psts
B pnum	B rphf
B tnum	S script

T telugu-one		B pref
B abvm		B pres
B abvs		B pstf
B akhn		B pts
B blwf		B rphf
B blwm		S script
B blws	T th	
B calt		S language
B cjct		N number
B dist		S script
B half	T tibetan	
B haln		B abvm
S indic		B abvs
B kern		S autolanguage
S language		S autoscript
B locl		B blwm
S mode		B blws
B nukt		B calt
N number		B ccmp
B pref		B checkmissing
B pres		B curs
B pstf		B kern
B pts		S language
B rphf		B liga
S script		B locl
T telugu-two		B mark
B abvm		B mkmk
B abvs		S mode
B akhn		N number
B blwf		S script
B blwm		S textcontrol
B blws		B wipemath
B calt	T tr	
B cjct		S language
B dist		N number
B half		S script
B haln	T uk	
S indic		S language
B kern		N number
S language		S script
B locl	T uppercasing	
S mode		N number
B nukt		B uppercasing
N number	T us	

S language	F showcontext
N number	F splitcontext
S script	D synonyms
T virtualmath	D variants
B compactmath	symbols table
B flattenaccents	T emoji
B kern	F checked
S language	F resolved
B mathalternates	F uselibrary
S mathexpansion	tables table
S mode	toeffect function
N number	tracers table
S script	treatments table
B wipemath	F applyfixes
T vn	D data
S language	S filename
N number	F ignoredfile
S script	F report
T zero	F trace
N number	typefaces table
B zero	

functions (context)

dummy function

graphics (context)

backgrounds	table	identify	function
F fetchmultipar		registerpdfcompactor	function
F pair		registerpdffont	function
F path		synchronizers	table
F point		F collapse	
bitmaps	table	F collect	
F flush		F extend	
F new		F getbottom	
F placeholder		F getd	
F tocontext		F geth	
bpsize	function	F getkind	
colorspaces	table	F getsize	
identifiers	table	F gettask	
F bitmap		F gettop	
F jp2		F getw	
F jpeg		F getx	
F jpg		F gety	
F png		F prune	

gzip (context)

compress function
compressed function
decompress function

load function
save function
suffix function

helper (context)

getprofile	function	snaplist	function
mathnested	function	traversecharmethod	function
mathprocess	function	traverseglyphmethod	function
mathstep	function	traversehorizontal	function
snapindeed	function	traversevertical	function

images (context)

check	function	B crop
checksize	function	B media
copy	function	B none
create	function	B trim
embed	function	storeddata function
embedfromstore	function	totable function
fetchdata	function	types table
keys	table	N jbig2
print	function	N jp2
resetdata	function	N jpg
resetstore	function	N none
scan	function	N pdf
serialize	function	N png
sizes	table	N stream
B art		
B bleed		wrap function

interactions (context)

attachments	data table	D functions
fields	table	D preambles
F clone		F setpreamble
F define		F storecode
F defineset		F storepreamble
F insert		F usepreamblenow
general	table	F usescripts
F getidentity		
F getidentityvariable		
help	table	
F collect		
F reference		
F register		
javascripts	table	
F addtopreamble		
F code		
D codes		
F flushpreambles		
		linkedlists data table
		pages table
		F setpagetransition
		F setupcanvas
		references table
		F setclosedocumentaction
		F setclosepageaction
		F setopendocumentaction
		F setopenpageaction
		renderings data table

interfaces (context)

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

io (basic lua)

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

job (context)

comment	function	D collected
datasets	table	F countervalue
D collected		F extend
F extend		F realpage
F getdata		F realpageorder
F setdata		F setstate
D tobesaved		D tobesaved
disablesave	function	parwrappers
embedded	table	table
D collected		D collected
D tobesaved		D tobesaved
fileobj	table	positions
references		table
D collected		F b_column
D tobesaved		F b_region
files	table	F c
D collected		D collected
F context		F column
B forcerun		F columnofpos
F run		F copy
D tobesaved		F depth
getrandomseed	function	F e_column
initialize	function	F e_region
linkedlists	table	F enhance
D collected		F extra
D tobesaved		F get
load	function	F getcolumndata
loadother	function	F getfree
meshedup	table	F gethpos
D collected		F gethvpos
D tobesaved		F getpos
objects	table	F getreserved
D collected		F getrpos
F get		F getsync
F number		F gettobesaved
F page		F getvpos
F save		F hangafter
F set		F hangindent
D tobesaved		F height
pack	boolean	F hsize
packversion	number	N lastr
pagestates	table	N lastx
		N lasty

F leftskip	F whd
F lowerleft	F width
F lowerright	F x
F markregionbox	F xy
F n	F y
F onsamepage	register function
F overlapping	save function
F p	structure table
F page	D collected
F paragraph	T components
F parindent	T namestack
F position	T tobesaved
F r	T branches
F region	S name
F registerhandlers	S type
F replace	variables table
F rightskip	D checksums
F set	D collected
F setall	F getchecksum
F setregionbox	F makechecksum
F setspec	F restore
F settobesaved	F save
D tobesaved	F setchecksum
F upperleft	D tobesaved
F upperright	version number
F used	

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	preehyphenchar	function
hyphenate	function	prehyphenchar	function
hyphenation	function	sethjcode	function
hyphenationmin	function	setwordhandler	function

languages (context)

addgoodiesdata	function	F installmethod
addgoodiesfile	function	F lasttrace
appliedoptions	table	F loadpatterns
associate	function	F registerexception
associated	data table	F registerpattern
association	function	F setfeatures
counters	data table	installed function
current	function	installhandler function
data	data table	labels table
decimals	data table	F define
define	function	F split
explicithyphen	function	loadable function
flatten	function	loadwords function
frequencies	table	logger table
		F report
		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
		registeredactions table
T dictionaries		replacements table
D featuresets		
F handler		
T methods		
F expanded		F add
B none		F addlist
F original		F handler
F tex		F set
F traditional		serializeddiscretionary function
F popmethod		setexceptions function
F pushmethod		setgoodieshandler function
F setmethod		setoptions function
F setup		setpatterns function
F showhyphenationtrace		setsynonym function
T traditional		setwordhandler function
F definefeatures		showdiscretionaries function
F gettrace		strippedgoodiewords function
F hyphenate		tolang function
F injecthyphens		transliteration table
		F exception
		F handler

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

layouts (context)

getcanvas function
getpagedimensions function
setupcanvas function

status table
F isleftpage
F leftorrightpageaction

lfs (extra lua)

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

libraries (context)

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

extratex data table
functions data table
globals data table
optional data table

lmx (context)

color	function	lmxfile	function
convert	function	loadedfile	function
convertfile	function	make	function
convertstring	function	new	function
inject	function	popupfile	function
eprint	function	print	function
escape	function	pv	function
finalized	function	report	function
inject	function	reset	function
fprint	function	result	function
get	function	set	function
getvariables	function	show	function
htmfile	function	stripcss	function
html	table	tv	function
F a		type	function
F td		urlescape	function
F th		variable	function
include	function	variables	table
inherited	table	S color-background-blue	
S color-background-four		S color-background-body	
S color-background-one		S color-background-green	
S color-background-three		S color-background-main	
S color-background-two		S color-background-purple	
S title		S color-background-yellow	
initialize	function	S title-default	
inject	function		

logs (context)

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

lpdf (context)

action	function	copystring	function
adddocumentcolorspace	function	copyunicode	function
adddocumenttextgstate	function	deferredobject	function
adddocumentpattern	function	delayedobject	function
adddocumentshade	function	destinationspecification	function
addtocatalog	function	dictionary	function
addtoinfo	function	docstring	function
addtonames	function	encodingvalues	table
addtopageattributes	function	N base16	
addtopageresources	function	N base85	
addtopagesattributes	function	N decoded	
addxmpinfo	function	N encoded	
annotationspecification	function	N plain	
array	function	N utf16be	
attachmentsymbols	function	N utf16le	
boolean	function	epdf	table
border	function	F allcontent	
checkedkey	function	F analyzefonts	
checkedresources	function	F contentplugin	
checkedvalue	function	F contenttostring	
circularshade	function	F contenttotext	
close	function	D encryptioncodes	
cmykcode	function	F expanded	
collectedresources	function	F expandwidths	
color	function	F fontplugin	
colorspace	function	F getpagecontent	
colorspaceconstants	data table	F getstructure	
colorspec	function	T helpers	
colorvalue	function	F tounicodabletable	
colorvalues	function	T image	
commentsymbols	function	F close	
compressdata	function	F copy	
compresslevel	function	F new	
constant	function	F open	
copyarray	function	F query	
copyboolean	function	F load	
copyconstant	function	F mergewidths	
copydictionary	function	D objectcodes	
copyfloat	function	F objectrange	
copyinteger	function	F objecttype	
copynumber	function	F pageplugin	

F parsecontent		N Password
F producer		N PopUp
T resolvers		N PushButton
F destinations		N Radio
F embeddedfiles		N RadiosInUnison
F javascripts		N ReadOnly
F layers		N Required
F pages		N RichText
F structure		N Sort
F widgets		N file
F unload		N fixed
F verboseobject		N nocheck
escaped	function	N protected
finalizedocument	function	N readonly
finalizepage	function	N required
finalizesignature	function	N sorted
finishtransparencycode	function	N unavailable
flags	table	
T annotations		flushfonts function
N AutoView		flushgroup function
N Hidden		flushobject function
N Invisible		flushstreamfileobject function
N Locked		flushstreamobject function
N LockedContents		fonts table
N NoRotate		F color_direct
N NoView		F color_indirect
N NoZoom		formats data table
N Print		frombytes function
N Printable		fromeight function
N ReadOnly		frompdfdoc function
N ToggleNoView		fromsixteen function
N auto		getcatalog function
N hidden		getcompression function
N printable		getfontname function
T widgets		getfontobjectnumber function
N Comb		getformatoption function
N CommitOnSelChange		getinfo function
N DoNotScroll		getmatrix function
N DoNotSpellCheck		getnofpages function
N Edit		getpageproperties function
N FileSelect		getpagerefERENCE function
N MultiLine		getpagetags function
N NoExport		getpos function
N NoToggleToOff		gettrailerid function
		getversion function

getxformname	function	N assemble
graycode	function	N extract
h_hex_2	table	N fillin
S		N modify
S		N print
S		N quality
S		preparesignature function
S		print function
S (procset function
S)		protectresources boolean
S \		quads function
h_hex_4	table	rectangle function
hasmatrix	function	reference function
immediateobject	function	registerannotation function
includeimage	function	registerdestination function
initialize	function	registerdocumentfinalizer function
injectors	table	registerfontmethod function
F bitmap		registerinitializer function
F jp2		registerpagefinalizer function
F jpg		registerpattern function
F png		registersignature function
injectxmpinfo	function	replacexmpinfo function
insertxmpinfo	function	reserveobject function
lastreferreddpage	function	rgbcode function
layerreference	function	rotationcm function
limited	function	setcompression function
linearshade	function	setencryption function
literal	function	setpageorder function
majorversion	function	setpagestate function
makenametree	function	setpagetag function
minorversion	function	setversion function
noffontregistries	function	sharedobject function
nofpages	function	shareobject function
null	function	shareobjectreference function
number	function	spotcode function
object	function	stream function
objectcompresslevel	function	string function
pagerefERENCE	function	supportedformats function
patternstream	function	tocidset function
pdfcolor	function	toeight function
pdftimestamp	function	topdfdoc function
permissions	table	topermissions function
N access		tosixteen function
N add		transparency function

transparencycode	function	N dejavusansmonoboldttf-1-0-0
transparencygroups	table	table
B none		N dejavusansmonoboldttf-1-0-0
transparencyvalue	function	usedfontobjects
unicode	function	data table
usedcharacters	table	usedindices
usedfontnames	table	T dejavusansmonoboldttf-1-0-0
		verbose
		function

lpeg (basic lua)

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

lua (basic tex)

addnibble	function	getruntime	function
bytecode	table	getstacktop	function
bytedata	data table	getstartupfile	function
bytedone	table	getstringkeys	function
callbytecode	function	getversion	function
comparekeys	function	lastbytecode	number
finalizeinitex	function	messages	data table
firstbytecode	number	newindex	function
get_functions_table	function	newtable	function
getallkeys	function	numbers	data table
getbytecode	function	registercode	function
getcheckedkeys	function	registeredcodes	function
getcurrenttime	function	registerinitexfinalizer	function
getdebuginfo	function	registername	function
getexitcode	function	setbytecode	function
getfunctionstable	overloaded function	setexitcode	function
getnibble	function	setnibble	function
getnumerickeys	function	startupfile	string
getpreciseseconds	function	subnibble	function
getpreciseticks	function	version	string

luac (extra lua)

inspect function

print function

luatex (context)

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

lxml (context)

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

pushmatch	function	sorters	table
raw	function	F add	
rawroot	function	F compare	
rawtex	function	F flush	
refatt	function	F reset	
register	function	F show	
registerentity	function	F sort	
removesetup	function	splitid	function
replace	function	starraw	function
resetcdata	function	startunescape	function
resetsetups	function	stopraw	function
resolvedentity	function	stopunescape	function
root	function	store	function
save	function	strip	function
serialize	function	stripped	function
setaction	function	tag	function
setatt	function	texatt	function
setattribute	function	text	function
setcdata	function	tobuffer	function
setcommandtonone	function	tofile	function
setcommandtotext	function	toparameters	function
setpar	function	toverbatim	function
setparam	function	verbatim	function
setparameter	function	withindex	function
setup	function	xmltexhandler	data table
snippet	function		

math (basic lua)

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

mathematics (context)

addfallbacks	function	familyname	function
addvariant	function	functiontype	function
alphabets	data table	gaps	data table
alternatives	data table	getblobindex	function
beforepassingfonttotex	function	getboth	function
big	function	getdomainname	function
boldmap	data table	getextensibledata	function
categories	table	getmathblob	function
D functions		getoptionallabel	function
charactersets	data table	getstyle	function
checkaftercopyingfont	function	gettextblob	function
classes	data table	getverboselabel	function
classnames	data table	horizontalcode	function
codes	data table	initializeparameters	function
define	function	makefont	function
dictionaries	table	mapremap	data table
D data		markblobindexdone	function
D defaults		overloadparameters	function
D groups		preset	function
F groupset		presets	table
T less			
T more			
T zero			
F groupsetgroup		privatebase	number
F name		registerextensible	function
D names		registersimplematrix	function
F registercharacter		registerverboselabel	function
F registergroup		remapalphabets	function
F registergroupset		renderextensible	function
D sets		renderings	table
D variants		D mappings	
dimensions	function	D numbers	
disablecollecting	function	D sets	
domainlabels	table	renderset	function
domainnames	table	resetattributes	function
N default		scaleparameters	function
enablecollecting	function	setextensibledata	function
extensiblecode	function	setmathsymbol	function
extensibles	data table	sets	data table
extrabase	number	setsnapping	function
fallbacks	table	setvariant	function
F apply			
F install			
fallbackstyleattr	function		

styles	data table	F fixaccents
syncboth	function	F fixellipses
syncname	function	F fixintegrals
syncstyle	function	F fixoldschool
tagging	table	F fixprimes
B mfenced		F fixradicals
toengineclass	function	F fixslashes
toname	function	F fixvariants
tostyle	function	F flattenaccents
tweakaftercopyingfont	function	F fontname
tweakbeforecopyingfont	function	F inspect
tweaks	table	F keepbases
F accentdimensions		F kernpairs
F action		F kerns
F addactuarian		T kernsets
F addarrows		T ..,
F addbars		F margins
F addcomposites		F message
F addequals		F moveitalics
F addfourier		F movelimits
F addmirrors		F parameters
F addparts		F radicalbodymargins
F addprivates		F radicaldegreeanchors
F addrules		F replace
F addscripts		F replacealphabets
F bigslots		F replacerules
F checkaccents		F setoptions
F checkspacing		F setovershoots
F copyaccents		F showinfo
T datasets		F simplifykerns
T accentdimensions		F sortvariants
T accent		F staircase
T over		T subsets
T under		T acenorsuvxz
T addarrows		T bhklt
T addscripts		T d
T checkspacing		T dotless
T copyaccents		T f
T fixprimes		T gjqy
T fixslashes		T horizontalfences
T wipecues		T i
F dimensions		T integrals
F extendaccents		T letterlike
F fallbacks		T mw

T p	utfmathaccent	function
F substitute	utfmathclass	function
F topanchors	utfmathcommand	function
F tweaks	utfmathfiller	function
F version	utfmathstretch	function
F wipeanchors	variantcode	function
F wipecues	variantcount	function
F wipeitalics	virtualize	function
F wipevariants	virtualized	data table

md5 (extra lua)

HEX	function	sum	function
dec	function	sumHEXA	function
hex	function	sumhexa	function

metapost (context)

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

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

pushvariable	function	N bp
pushvariables	function	N cm
quitonerror	boolean	N em
reducetogray	boolean	N ex
registerdirect	function	N in
registerscript	function	N mm
registertokens	function	N pc
remappedtext	function	N pt
remaptext	function	N px
reporterror	function	svgglyphomp function
reportsvgfonts	function	svgshapestomp function
reset	function	svgshapestopdf function
resetbackendoptions	function	svgsplitcolor function
resetlastlog	function	svgtomp function
resetplugins	function	svgtopdf function
run	function	sxsy function
runinternal	function	tex table
runscript	function	F get
scanparameters	function	F reset
scriptindex	function	F set
setbendtolerance	function	F setfrombuffer
setbuffer	function	texerrors boolean
setextensions	function	texexp function
setlogging	function	theclippath function
setmovetolerance	function	tographic function
setoutercolor	function	totable function
setparameter	function	types table
setparameterset	function	N boolean
setrecord	function	N cmykcolor
settext	function	N color
settolerance	function	N dependent
setvariable	function	N independent
showlog	boolean	N known
showsvgpage	function	N nep
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 tokenlist
N %		

N transform	N unsuffixedmacro
N unknownboolean	N vacuous
N unknownnep	typesvgpage function
N unknownpath	unload function
N unknownpen	untagvariable function
N unknownpicture	variables table
N unknownstring	

mime (context)

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

mp (context)

autoinject	function	format	function
aux	function	formatted	function
F boolean		fprint	function
F color		get	table
F direct		F hashentry	
F draw		getbytemap	function
F fill		getbytemapdata	function
F flush		getlastaddtype	function
F fprintf		graphformat	function
F integer		inject	function
F number		F boolean	
F numeric		F cmykcolor	
F pair		F color	
F pairpoints		F integer	
F path		F number	
F pathpoints		F numeric	
F points		F pair	
F print		F path	
F quadruple		F pt	
F quadrupolepoints		F quadruplet	
F quoted		F string	
F size		F transform	
F string		F triplet	
F transform		F vector	
F triplet		F vectors	
F tripletpoints		F whatever	
F vprint		F whd	
boolean	function	F xy	
bytemap_load_from_file	function	integer	function
cleaned	function	lmt_color_functions	table
color	function	F shade	
dataset	function	F step	
datasets	function	lmt_contours_bitmap_get	function
F load		lmt_contours_bitmap_set	function
direct	function	lmt_contours_cleanup	function
draw	function	lmt_contours_color	function
expandtex	function	lmt_contours_edge_get_band	function
fill	function	lmt_contours_edge_get_cell	function
fillbytemap	function	lmt_contours_edge_paths	function
flatten	function	lmt_contours_edge_set	function
flush	function	lmt_contours_edge_set_by_band	function

lmt_contours_edge_set_by_cell	function	mf_blob_dimensions	function
lmt_contours_format	function	mf_blob_index	function
lmt_contours_function	function	mf_blob_new	function
lmt_contours_maxmean	function	mf_blob_raw_content	function
lmt_contours_maxz	function	mf_blob_raw_dimensions	function
lmt_contours_minmean	function	mf_blob_raw_reset	function
lmt_contours_minz	function	mf_blob_raw_toutf	function
lmt_contours_novalues	function	mf_blob_raw_wipe	function
lmt_contours_nx	function	mf_blob_size	function
lmt_contours_ny	function	mf_blob_width	function
lmt_contours_range	function	mf_external_figure	function
lmt_contours_shade_paths	function	mf_finish_saving_data	function
lmt_contours_shade_set	function	mf_formatted_text	function
lmt_contours_shape_paths	function	mf_get_outline_text	function
lmt_contours_start	function	mf_graphic_text	function
lmt_contours_stop	function	mf_inject_blob	function
lmt_contours_value	function	mf_map_move	function
lmt_contours_xrange	function	mf_map_text	function
lmt_contours_yrange	function	mf_named_color	function
lmt_function_x	function	mf_outline_text	function
lmt_glyphshape Accent	function	mf_save_data	function
lmt_glyphshape baseline	function	mf_script_index	function
lmt_glyphshape boundingbox	function	mf_start_saving_data	function
lmt_glyphshape depth	function	mf_stop_saving_data	function
lmt_glyphshape height	function	mode	function
lmt_glyphshape italic	function	n	function
lmt_glyphshape llx	function	newbytemap	function
lmt_glyphshape n	function	number	function
lmt_glyphshape path	function	numeric	function
lmt_glyphshape start	function	pair	function
lmt_glyphshape stop	function	pairpoints	function
lmt_glyphshape usedbox	function	path	function
lmt_glyphshape usedline	function	pathpoints	function
lmt_glyphshape width	function	points	function
lmt_mesh_set	function	print	function
lmt_mesh_update	function	F boolean	
lmt_poisson_generate	function	F color	
lmt_start_potrace	function	F direct	
lmt_step_potrace	function	F draw	
lmt_stop_potrace	function	F fill	
lmt_surface_do	function	F flush	
lmt_svg_include	function	F fprintf	
mesh_register	function	F integer	
mf_blob_add	function	F number	

F numeric		F next	
F pair		F number	
F pairpoints		F numeric	
F path		F pair	
F pathpoints		F path	
F points		F pen	
F print		F property	
F quadruple		F string	
F quadruplepoints		F symbol	
F quoted		F token	
F size		T tokencollectors	
F string		F transform	
F transform		T typescanners	
F triplet		F whatever	
F tripletpoints		set	table
F vprint		setbytemap	function
processingmode	function	size	function
quadruple	function	skip	table
quadruplepoints	function	F token	
quoted	function	solve	function
report	function	string	function
scan	table	systemmode	function
F boolean		transform	function
F cmykcolor		triplet	function
F color		tripletpoints	function
F expression		vprint	function
F integer			

mplib (extra tex)

execute	function	injectpair	function
expandtex	function	injectpath	function
fillbytemap	function	injectstring	function
finder	function	injecttransform	function
finders	table	injectvector	function
F file		injectvectors	function
F mpstemplate		injectwhatever	function
finish	function	new	overloaded function
getbytemap	function	newbytemap	function
getbytemapdata	function	peninfo	function
getcallbackstate	function	propertycodes	table
getcodes	function	realtimelogging	boolean
getcolormodels	function	scanboolean	function
getfields	function	scancmykcolor	function
gethashentries	function	scancolor	function
gethashentry	function	scanexpression	function
getinternalactions	function	scaninteger	function
getknotstates	function	scannext	function
getlastaddtype	function	scannumber	function
getlogtargets	function	scannumeric	function
getobjecttypes	function	scanpair	function
getresultstatus	function	scanpath	function
getscantypes	function	scanpen	function
getstates	function	scanproperty	function
getstatistics	function	scanstring	function
getstatus	function	scansymbol	function
gettolerance	function	scantoken	function
gettype	function	scantransform	function
gettypes	function	setbytemap	function
injectboolean	function	settolerance	function
injectcmykcolor	function	showcontext	function
injectcolor	function	skiptoken	function
injectinteger	function	solvepath	function
injectnumber	function	version	function
injectnumeric	function		

noads (context)

handlers	table	
F alternates		F snap
F autofences		F spacing
F classes		F suspicious
F collapse		F tags
F dictionaries		F unscript
F export		F unstack
F families		F variants
F fencing		process function
F intervals		processnested function
F kernpairs		processors table
F makeup		
F normalize		T dictionaries
F numbers		T intervals
F relocate		T suspicious
F render		T unscript
F showtree		T unstack
		processouter function

node (basic tex)

checkdiscretionaries	function	F getanchors
checkdiscretionary	function	F getattribute
copy	function	F getattributelist
copylist	function	F getattributes
count	function	F getboth
currentattributes	function	F getbottom
dimensions	function	F getbottomdelimiter
direct	table	F getbox
F addmargins		F getcachestate
F addxoffset		F getchar
F addxymargins		F getchardict
F addyoffset		F getcharspec
F appendaftertail		F getchoice
F appendcurrenttail		F getclass
F beginofmath		F getcontrol
F checkdiscretionaries		F getcornerkerns
F checkdiscretionary		F getcurrenttail
F collapsing		F getdata
F copy		F getdegree
F copylist		F getdelimiter
F copyonly		F getdenominator
F count		F getdepth
F currentattributes		F getdirection
F dimensions		F getdisc
F effectiveglue		F getdiscpart
F endofmath		F getexcept
F exchange		F getexpansion
F fields		F getfam
F findattribute		F getfield
F findattributerange		F getfielderror
F findnode		F getfirstdirectioninlist
F firstchar		F getfont
F firstglyph		F getgeometry
F firstglyphnode		F getglue
F firstitalicglyph		F getglyphdata
F flattendiscretionaries		F getglyphdimensions
F flattenleaders		F getheight
F flushlist		F getid
F flushnode		F getidsubtype
F free		F getidsubtypenext
F freeze		F getindex

F getinputfields	F getusage
F getkern	F getusedattributes
F getkerndimension	F getweight
F getlanguage	F getwhd
F getleader	F getwidth
F getleftdelimiter	F getwordrange
F getlist	F getxscale
F getlistdimensions	F getxyscales
F getmvllist	F getscale
F getnext	F gluetostring
F getnodes	F hasattribute
F getnormalizedline	F hasdimensions
F getnucleus	F hasdiscription
F getnumerator	F hasfield
F getoffsets	F hasgeometry
F getoptions	F hasglyph
F getorientation	F hasglyphoption
F getparstate	F hasidsubtype
F getpenalty	F hasusage
F getpost	F hpack
F getpre	F hyphenating
F getprev	F id
F getprime	F ignoremathskip
F getpropertiesstable	F insertafter
F getproperty	F insertbefore
F getreplace	F insertcurrenthead
F getrightdelimiter	F isboth
F getruledimensions	F ischar
F getscale	F isdirect
F getscales	F isglyph
F getscript	F isitalicglyph
F getscripts	F isloop
F getshift	F isnext
F getslant	F isnextchar
F getspeciallist	F isnextglyph
F getstate	F isnode
F getsub	F isprev
F getsubpre	F isprevchar
F getsubtype	F isprevglyph
F getsup	F issimilarglyph
F getsuppre	F isspeciallist
F gettop	F isvalid
F gettopdelimiter	F iszeroogue
F gettotal	F kerning

F lastnode	F setdenominator
F length	F setdepth
F ligaturing	F setdirection
F makeextensible	F setdisc
F migrate	F setdiscpart
F mlisttohlist	F setexcept
F naturalhsize	F setexpansion
F naturalwidth	F setfam
F new	F setfield
F newcontinuationatom	F setfielderror
F newmathglyph	F setfont
F newtextglyph	F setgeometry
F patchattributes	F setglue
F patchparshape	F setglyphdata
F prependbeforehead	F setheight
F prependcurrenttail	F setindex
F protectglyph	F setinputfields
F protectglyphs	F setkern
F protectglyphsbase	F setlanguage
F protectglyphsnone	F setleader
F protrusionskippable	F setleftdelimiter
F rangedimensions	F setlink
F remove	F setlist
F removefromlist	F setnext
F repack	F setnucleus
F reverse	F setnumerator
F serialized	F setoffssets
F setanchors	F setoptions
F setattribute	F setorientation
F setattributelist	F setpenalty
F setattributes	F setpost
F setboth	F setpre
F setbottom	F setprev
F setbottomdelimiter	F setprime
F setbox	F setproperty
F setchar	F setreplace
F setchardict	F setrightdelimiter
F setchoice	F setruledimensions
F setclass	F setscale
F setcontrol	F setscales
F setcurrenttail	F setscript
F setdata	F setscripts
F setdegree	F setshift
F setdelimiter	F setslant

F setspeciallist	F usesfont
F setsplit	F vbalance
F setstate	F verticalbreak
F setsub	F vpack
F setsubpre	F write
F setsubtype	F xscaled
F setup	F yscaled
F setsuppre	effectiveglue function
F settop	endofmath function
F settopdelimter	family_font function
F settotal	fields function
F setweight	findattribute function
F setwhd	flattendiscretionaries function
F setwidth	flushlist function
F show	flushnode function
F size	free function
F slide	getattribute function
F softenhypens	getcachestate function
F startofpar	getfield function
F subtypes	getfielderror function
F tail	getglue function
F todirect	getpropertiesstable function
F tonode	getproperty function
F tostring	gluetostring function
F tovaliddirect	hasattribute function
F traverse	hasfield function
F traversechar	hasglyph function
F traversecontent	hpack function
F traverseglyph	hyphenating function
F traverseid	id function
F traverseitalic	insertafter function
F traverseleader	insertbefore function
F traverselist	instock function
F type	inuse function
F types	isnode function
F unprotectglyph	iszeroglue function
F unprotectglyphs	kerning function
F unsetattribute	lastnode function
F unsetattributes	length function
F updatefirstandbotmark	ligaturing function
F updatefirstmarks	makeextensible function
F updatemarks	mlisttohlist function
F updatetopmarks	new function
F usedlist	protectglyph function

protectglyphs	function	todirect	function
protrusionskippable	function	tonode	function
rangedimensions	function	tostring	function
remove	function	traverse	function
serialized	function	traverseid	function
setattribute	function	type	function
setfield	function	types	function
setfielderror	function	unprotectglyph	function
setglue	function	unprotectglyphs	function
setProperty	function	unsetattribute	function
show	function	usedlist	function
size	function	usesfont	function
slide	function	vpack	function
subtypes	function	write	function
tail	function		

nodes (context)

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

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

nuts	table	
F addmargins		F firstglyphnode
F addxoffset		F firstitalicglyph
F addxymargins		F flattendiscretionaries
F addyoffset		F flattenleaders
F append		F flush
F appendaftertail		F flushlist
F apply		F flushnode
F applyvisuals		F free
F beginofmath		F freeze
F checkdiscretionaries		F fullhpack
F checkdiscretionary		F getanchors
F checkslide		F getattr
F collapsing		F getattribute
T colors		F getattributelist
F set		F getattributes
T components		F getatrrlist
F copynocomponents		F getatrrs
F copyonlyglyphs		F getboth
F count		F getbottom
F flush		F getbottomdelimiter
F get		F getbox
F set		F getboxglue
F concat		F getchar
F copy		F getchardict
F copy_properties		F getcharspec
F copylist		F getchoice
F copynode		F getclass
F copyonly		F getcomponents
F copyvisual		F getcornerkerns
F count		F getdata
F countall		F getdegree
F currentattributes		F getdelimter
F delete		F getdenominator
F dimensions		F getdepth
F dirdimensions		F getdirection
F effectiveglue		F getdisc
F endofmath		F getdiscpart
F exchange		F getdiscretionary
F findattribute		F getexcept
F findattributerange		F getexpansion
F findnode		F getfam
F firstchar		F getfield
F firstglyph		F getfirstdirectioninlist
		F getfont

F getgeometry	F getslant
F getglue	F getspeciallist
F getglyphdata	F getstate
F getglyphdimensions	F getsub
F getheight	F getsubpre
F getid	F getsubtype
F getidsubtype	F getsup
F getidsubtypenext	F getsuppre
F getindex	F getsurround
F getinputfields	F gettop
F getkern	F gettopdelimiter
F getkerndimension	F gettotal
F getlang	F getusedattributes
F getlanguage	F getvalue
F getleader	F getweight
F getleftdelimitter	F getwhd
F getlist	F getwidth
F getlistdimensions	F getwordrange
F getmiddle	F getxscale
F getmiddledelimitter	F getxyscales
F getmvllist	F getyscale
F getnext	F gluetostring
F getnormalizedline	F hasattribute
F getnucleus	F hasdimensions
F getnumerator	F hasdisoption
F getoffsetsets	F hasfield
F getoptions	F hasgeometry
F getorientation	F hasglyph
F getparstate	F hasglyphoption
F getpenalty	F hasidsubtype
F getpost	F hpack
F getpre	F hyphenating
F getprev	F ignoremathskip
F getprime	F insertafter
F getprop	F insertbefore
F getreplace	F insertlistafter
F getrightdelimitter	F is_display_math
F getruledata	F isboth
F getruledimensions	F ischar
F getscale	F isdirect
F getscales	F isdone
F getscript	F isglyph
F getscripts	F isitalicglyph
F getshift	F isnext

F isnextchar	F glue
F isnextglyph	F glucspec
F isnode	F glyph
F isnut	F hlist
F isprev	F imagerule
F isprevchar	F indentskip
F isprevglyph	F italiccorrection
F issimilarglyph	F italic kern
F iszero glue	F kern
F kerning	F latelua
F lastnode	F leader
F length	F lefthangskip
F ligaturing	F leftmarginkern
F link	F leftskip
F linked	F lineskip
F locate	F literal
F migrate	F luaboundary
F migratebox	F mathchar
F mlisttohlist	F mathtextchar
F naturalhsize	F negatedglue
F naturalwidth	F noad
F nestedtracedslide	F originliteral
F new	F outlinerule
F newcontinuationatom	F pageliteral
F newmathglyph	F penalty
F openup	F radical
F patchattributes	F rawliteral
F patchparshape	F register
T pool	F restore
F accent	F righthangskip
F baselineskip	F rightmarginkern
F boundary	F rightskip
F boxrule	F rule
F choice	F save
F cleanup	F savepos
F delim	F setmatrix
F delimiter	F setstate
F direction	F shrink
F directliteral	F spacefontkern
F disc	F spacingrule
F emptyrule	F startrotation
F fence	F startscaling
F fontkern	F stock
F fraction	F stoprotation

F stopscaling	F setattribute
F stretch	F setattributelist
F strule	F setattributes
F subbox	F setattrlist
F submlist	F setattrrs
F temp	F setboth
F usage	F setbottom
F userdefined	F setbox
T userids	F setboxglue
F usernode	F setchar
F userrule	F setchardict
F virtualrule	F setchoice
F vlist	F setclass
F wordboundary	F setcomponents
F prepend	F setdata
F prependbeforehead	F setdegree
F processranges	F setdelimiter
F processwords	F setdenominator
F protectglyph	F setdepth
F protectglyphs	F setdirection
F protectglyphsbase	F setdisc
F protectglyphsnone	F setdiscpart
F protrusionskippable	F setdiscretionary
F rangedimensions	F setexcept
F rawprop	F setexpansion
F reference	F setfam
F rehpak	F setfield
F remove	F setfont
F removefromlist	F setgeometry
F repack	F setglue
F repackhlist	F setglyphdata
F replace	F setheight
F reverse	F setinputfields
T rules	F setkern
T ruleactions	F setlang
F box	F setlanguage
F draw	F setleader
F fill	F setleftdelimiter
F mp	F setlink
F stroke	F setlist
F userrule	F setmiddledelimiter
F serialized	F setnext
F setanchors	F setnucleus
F setattrr	F setnumerator

F setoffsets	F tail
F setoptions	F takeattr
F setorientation	F takebox
F setparproperty	F takelist
F setpenalty	F theprop
F setpost	F tonode
F setpre	F tonodes
F setprev	F tonut
F setprime	F tosequence
F setprop	F tostring
F setreplace	F tracedslide
F setrightdelimiter	F traverse
F setruledata	F traversechar
F setruledimensions	F traversecontent
F setscale	F traverseglyph
F setscales	F traverseid
F setscript	F traverseitalic
F setscripts	F traverseleader
F setshift	F traverselist
F setslant	T traversers
F setspeciallist	F alignrecord
F setsplit	F boundary
F setstate	F char
F setsub	F content
F setsubpre	F dir
F setsubtype	F disc
F setup	F glue
F setsuppre	F glyph
F setsurround	F hlist
F settop	F leader
F setvalue	F list
F setvisual	F mark
F setvisuals	F next
F setweight	F node
F setwhd	F penalty
F setwidth	F rule
F show	F unset
F slide	F vlist
F softenhypens	F whatsit
F somepenalty	T treversers
F somespace	F char
F splitbox	F content
F startofpar	F glyph
F striprange	F leader

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 leader
F tovpack		F lineskip
F unprotectglyph		F literal
F unprotectglyphs		F originliteral
F unsetattribute		F register
F unsetattributes		F restore
F untracedslide		F save
F updatefirstandbotmark		F savepos
F updatefirstmarks		F setmatrix
F updatemarks		F stock
F updatetopmarks		F usage
F usedlist		F usernode
F usesfont		F vlist
F verticalbreak		prepend function
F vianodes		print function
F vianuts		processors table
F vpack		F trace_glyph_run_a
F write		F trace_glyph_run_b
F xscaled		properties table
F yscaled		T data
packlist	function	pts function
parcodes	data table	radicalcodes data table
penaltycodes	data table	references table
plugindata	table	N attribute
F finalizer		T done
F initializer		F handler
S name		T stack
T namespace		rehpack function
N attribute		remove function
D data		repackhlist function
F enable		replace function
F handler		report function
F register		rightmarginwidth function
D registered		rulecodes data table
D values		rules table
F processor		F handler
points	function	F process
pool	table	F set

F userrule			function
serialize	function	takeattr	function
serializebox	function	takebox	function
serialized	function	tasks	table
setattr	function	F actions	
setattribute	function	F appendaction	
setattrlist	function	F disableaction	
setboth	function	F disablegroup	
setbox	function	F enableaction	
setboxtonaturalwd	function	F enablegroup	
setchar	function	F freeze	
setfield	function	F freezegroup	
setfont	function	F new	
setleader	function	F prependaction	
setlink	function	F removeaction	
setlist	function	F replaceaction	
setnext	function	F restart	
setprev	function	F setaction	
setProperty	function	F showactions	
shadows	table	F table	
F handler		tobasepoints	function
F set		tocentimeters	function
shifts	table	tociceros	function
F handler		todidots	function
F set		todimen	function
showboxes	function	toinches	function
showlist	function	tomillimeters	function
showsimplelist	function	tonode	function
skipcodes	data table	tonodes	function
snapshots	table	tonut	function
F getsamples		topicas	function
F resetsamples		topoints	function
F takesample		toscaledpoints	function
somepenalty	function	tosequence	function
somespace	function	toString	function
specialskipcodes	table	totable	function
splitbox	function	totree	function
startofpar	function	touff	function
stripdiscretionaries	function	tracers	table
stripping	table	T colors	
T glyphs		F reset	
F set		F set	
subtypes	data table	F setlist	
tail	function	directions	
		F fontchar	

T frequencies		vianodes	function
F register		vianuts	function
T pool		visualizebox	function
T nodes		visualizers	table
F rule		F attribute	
T nuts		T attributes	
F rule		F box	
F resetproperties		F definelayer	
F rule		F enable	
F setlist		T filters	
F setproperties		N continuation	
F start		N hglue	
T steppers		N hkern	
F check		N hpenalty	
F codes		N toddler	
F features		N vglue	
F font		N vkern	
F glyphs		N vpenalty	
F message		F getusedfont	
F messages		F handler	
F nofsteps		F markfonts	
F register		T modes	
F reset		N boundary	
F start		N depth	
F stop		N dir	
F stop		N discretionary	
T transparencies		N expansion	
F reset		N fontkern	
F set		N glue	
F setlist		N glyph	
traverse	function	N hbox	
traverseid	function	N hglue	
typesetters	table	N hkern	
F hbox		N hpenalty	
F hpack		N insert	
F tobbox		N italic	
F tohpack		N kern	
F tonodes		N line	
F tovbox		N marginkern	
F tovpack		N mark	
F vpack		N math	
unsetattribute	function	N mathglue	
upcomingproperties	function	N mathkern	
usedlist	function	N origin	

N par	N vpenalty
N penalty	N vtop
N simple	N whatsit
N simplehbox	F register
N simplevbox	F registercache
N simplevtop	F setfont
N space	F setlayer
N strut	F setruledglyph
N toddler	F setvisual
N user	vpack
N vbox	whatsitcodes
N vglue	write
N vkern	function data table 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
fractiontobyte	function		toediths	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		totoves	function
splitdimen	function		valid	function

objects (context)

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

optional (context)

curl	table	library	table
F escape		F load	
F fetch		loaded	table
F getversion		lz4	table
F initialize		F compress	
F unescape		F decompresssize	
foreign	table	F framecompress	
F abivalue		F framedecompress	
F getbuffer		F initialize	
F initialize		lzma	table
F load		F compress	
F newbuffer		F decompress	
F totable		F initialize	
F types		lzo	table
ghostscript	table	F compress	
F execute		F decompresssize	
F initialize		F initialize	
graphicsmagick	table	muj	table
F execute		F dofile	
F getnoisetypes		F execute	
F initialize		F initialize	
hb	table	F reset	
F getshapers		F setclosefile	
F getversion		F setconsole	
F initialize		F setfindfile	
F loadfont		F setopenfile	
F shapestring		F setreadfile	
imagemagick	table	F setseekfile	
F execute		mysql	table
F initialize		F close	
kpse	table	F execute	
F expand_braces		F getmessage	
F expand_path		F initialize	
F expand_var		F open	
F find_file		openssl	table
F find_files		F getversion	
F get_file_types		F initialize	
F initialize		F sign	
F readable_file		F verify	
F set_program_name		postgress	table
F var_value		F close	

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

os (basic lua)

__getenv__	function	platform	string
__setenv__	function	remove	overloaded function
binsuffix	string	rename	overloaded function
binsuffixes	table	resultof	function
bits	number	runtime	function
clock	function	selfarg	table
converttime	function	selfbin	string
date	overloaded function	selfcore	string
difftime	function	selfdir	string
enableansi	function	selflink	string
env	data table	selfname	string
execute	overloaded function	selfpath	string
exit	overloaded function	serialwrite	function
fulltime	function	setenv	overloaded function
getcodepage	function	setexitcode	function
getenv	overloaded function	setlocale	overloaded function
getnamevalues	function	sleep	function
gettimeofday	function	startuptime	function
gettypevalues	function	time	function
getunamefields	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
nofdays	function	weekday	function
now	function	where	function
pipeto	function	which	function

package (basic lua)

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

pagebuilders (context)

columnsets table

F add
F addmvl
F block
F blockrows
F check
F clean
T data
F define
F definesub
F delayedsheet
F finishflush
F flushareas
F flushcolumn
F goto
F gotoslot
F limit
F noto
F prepareflush
F presetsheets
F prespreadsheets
F put
F putdirect
F registerarea
F registersheet
F registerspreadsheets
F reset
F resetdirect

F reshape
F setarea
F setextra
F sethsize
F sethspan
F setlines
F setmvl
F setpresent
F setproperties
F setstart
F shape
F showshape
F state
F status
F submvl
F submvlbalance

injections table

F flushafter
F flushbefore
F save

mixedcolumns table

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

pdf (context)

immediateobj function

pdfe (extra tex)

arraytotable	function	getnumber	function
close	function	getobjectrange	function
closestream	function	getpage	function
dictionarytotable	function	getpages	function
getarray	function	getpermissions	function
getboolean	function	getsize	function
getbox	function	getstatus	function
getcatalog	function	getstatusvalues	function
getdictionary	function	getstream	function
getencodingvalues	function	getstring	function
getfieldtypes	function	gettrailer	function
getfromarray	function	getversion	function
getfromdictionary	function	new	function
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
getnofpages	function		

physics (context)

units table

F registershortcut

F registerunit

D tables

pngdecode (extra tex)

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

posit (extra lua)

<code>NaN</code>	function	<code>exp2</code>	function
<code>NaN</code>	function	<code>expand</code>	function
<code>_add</code>	function	<code>floor</code>	function
<code>_band</code>	function	<code>frombyte</code>	function
<code>_bor</code>	function	<code>fromchar</code>	function
<code>_bxor</code>	function	<code>fromposit</code>	function
<code>_div</code>	function	<code>integer</code>	function
<code>_eq</code>	function	<code>log</code>	function
<code>_le</code>	function	<code>log10</code>	function
<code>_lt</code>	function	<code>log1p</code>	function
<code>_mul</code>	function	<code>log2</code>	function
<code>_name</code>	string	<code>logb</code>	function
<code>_pow</code>	function	<code>max</code>	function
<code>_shl</code>	function	<code>min</code>	function
<code>_shr</code>	function	<code>modf</code>	function
<code>_sub</code>	function	<code>new</code>	function
<code>_tostring</code>	function	<code>pow</code>	function
<code>_unm</code>	function	<code>rotate</code>	function
<code>abs</code>	function	<code>round</code>	function
<code>acos</code>	function	<code>rounded</code>	function
<code>asin</code>	function	<code>shift</code>	function
<code>atan</code>	function	<code>sin</code>	function
<code>band</code>	function	<code>sqrt</code>	function
<code>bor</code>	function	<code>tan</code>	function
<code>bxor</code>	function	<code>tobyte</code>	function
<code>ceil</code>	function	<code>tochar</code>	function
<code>conj</code>	function	<code>tonumber</code>	function
<code>copy</code>	function	<code>toposit</code>	function
<code>cos</code>	function	<code>tostring</code>	function
<code>exp</code>	function		

potrace (extra tex)

checked	function	getnewfields	function
concat	function	getpolicyvalues	function
contourplot	function	getprocessfields	function
convert	function	new	function
count	function	process	function
flush	function	setbitmap	function
free	function	stripped	function
fromfile	function	totable	function
getbitmap	function	trace	function

publications (context)

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

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

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

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

qrcodegen (context)

bitmap function
generate function

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	findpk	function
cleanedpathlist	function	findtexfile	function
cleaners	data table	findwildcardfile	function
cleanpath	function	findwildcardfiles	function
cleanpathlist	function	formatofsuffix	function
cleanupbinfile	function	formatofvariable	function
concatinators	data table	formats	data table
configbanner	string	foundintree	function
configurationfiles	function	foundintrees	function
dangerous	data table	generators	data table
datastate	function	get_from_content	function
decompressors	table	getenv	function
	F register	getextrapaths	function
	F unregister	getfilehashes	function
defaultsuffixes	table	gethashes	function
dirstatus	function	getownpath	function
dowithfilesandreport	function	getreadfilename	function
dowithfilesintree	function	hashers	data table
dowithpath	function	homedir	string
dowithvariable	function	ignorelibrary	function
executers	table	initialized	function
expandbraces	function	installinputfilehandler	function
expandedpathfromlist	function	installinputlinehandler	function
expandedpathlist	function	jobpath	function
expandedpathlistfromvariable	function	jobs	table
expandpath	function		
expandpathfromvariable	function	F collectstructure	
expansion	function	F currentcomponent	
extendtexmvariable	function	F currentenvironment	
filtered_from_content	function	F currentproduct	
find_file	function	F currentproject	
find_files	function	F currentstructure	
findbinfile	function	F justacomponent	
findctxfile	function	F namelist	
finders	data table	D processors	
findfile	function	F productcomponent	
		F usefile	

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

unresolve	function	validatedpath	function
updaterelations	function	variable	function
updatescript	function	variableofformat	function
uselibrary	function	variableofformatorsuffix	function
usertypes	data table	wildcardpattern	function
usezipfile	function		

sandbox (context)

disablelibraries	function	possiblepath	function
disablerunners	function	redefine	function
enable	function	register	function
filehandlerone	function	registerbinary	function
filehandlertwo	function	registerlibrary	function
finalizer	function	registerroot	function
getrunner	function	registerrunner	function
initializer	function	report	function
iohandler	function	setfilename logger	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	
getstatus	function	
handlers	data table	
helpers	data table	
injectors	data table	
inserters	table	
F nobreakspace_after		
F nobreakspace_before		
F space_after		
F space_before		
F zerowidthspace_after		
F zerowidthspace_before		
installdataset	function	
installmethod	function	
numbertodataset	data table	
numbertohandler	data table	
reset	function	
set	function	
setstatus	function	
splitters	data table	

serial (context)

__gc function
__name string
_tostring function
close function

open function
send function
tostring function
write function

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	readinteger1le	function
readbytes	function	readinteger2	function
readbytetable	function	readinteger2le	function
readcardinal1	function	readinteger3	function
readcardinal1le	function	readinteger3le	function
readcardinal2	function	readinteger4	function
readcardinal2le	function	readinteger4le	function
readcardinal3	function	readintegertable	function
readcardinal3le	function	tocardinal1	function
readcardinal4	function	tocardinal1le	function
readcardinal4le	function	tocardinal2	function
readcardinaltable	function	tocardinal2le	function
readcline	function	tocardinal3	function
readcstring	function	tocardinal3le	function
readfixed2	function	tocardinal4	function
readfixed4	function	tocardinal4le	function
readinteger1	function		

socket (extra lua)

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

S resent-cc	newtry	function
S resent-date	protect	function
S resent-from	report	function
S resent-message-id	select	function
S resent-reply-to	sink	function
S resent-sender	sinkt	table
S resent-to	F close-when-done	
S retry-after	F default	
S return-path	F http-chunked	
S sender	F keep-open	
S server	skip	function
S smtp-remote-recipient	sleep	function
S status	source	function
S subject	sourcet	table
S te	F by-length	
S to	F default	
S trailer	F http-chunked	
S transfer-encoding	F until-closed	
S upgrade	tcp	function
S user-agent	tcp4	function
S vary	tcp6	function
S via	tp	table
S warning	N TIMEOUT	
S will-retry-until	F connect	
S www-authenticate	try	function
S x-mailer	url	table
F lower	F absolute	
F normalize	F build	
http	table	
N TIMEOUT	F build_path	
S USERAGENT	F escape	
F genericform	F parse	
F open	F parse_path	
F request	F unescape	

sorters (context)

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

sparse (extra lua)

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
elapsedetime	function	starttiming	function
enable	boolean	stoptiming	function
formatruntime	function	threshold	number
hastiming	function	timed	function
memused	function	tracefunction	function
register	function		

status (basic tex)

<code>getbalancestate</code>	function	<code>getluastate</code>	function
<code>getbufferstate</code>	function	<code>getmarkstate</code>	function
<code>getcallbackstate</code>	function	<code>getmvlstate</code>	function
<code>getconstants</code>	function	<code>getneststate</code>	function
<code>geterrorlinestate</code>	function	<code>getnodestate</code>	function
<code>geterrorstate</code>	function	<code>getparameterstate</code>	function
<code>getexpandstate</code>	function	<code>getpoolstate</code>	function
<code>getfilestate</code>	function	<code>getreadstate</code>	function
<code>getfontstate</code>	function	<code>getsavestate</code>	function
<code>gethalferrorlinestate</code>	function	<code>getsparsestate</code>	function
<code>gethashstate</code>	function	<code>getstringstate</code>	function
<code>gethyphenationstate</code>	function	<code>gettexstate</code>	function
<code>getinputstate</code>	function	<code>gettokenstate</code>	function
<code>getinsertstate</code>	function	<code>getwarningstate</code>	function
<code>getlanguagestate</code>	function	<code>iocodes</code>	table
<code>getlinebreakstate</code>	function	<code>list</code>	function
<code>getlookupstate</code>	function	<code>resetmessages</code>	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	octtointeger	function
autosingle	function	optionalquoted	function
booleanstring	function	pack	function
byte	function	packrowscolumns	function
bytelpairs	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
chrtointeger	function	splitlines	function
collapsespaces	function	splitup	function
containsws	function	strip	function
count	function	sub	function
dectointeger	function	texhashed	function
dump	function	texnewlines	function
escapedpattern	function	tformat	function
escapedquotes	function	toHEX	function
explode	function	tobool	function
f6	function	tobytes	function
find	function	tocontext	function
format	function	todec	function
formatter	function	todimen	function
formatters	function	tohex	function
fullstrip	function	tonodes	function
gmatch	function	topattern	function
gsub	function	totable	function
hextocharacters	function	tonicode16	function
hextointeger	function	toutf	function
is_boolean	function	toutf32	function
is_empty	function	toutf8	function
itself	function	tracedchar	function
len	function	tracedchars	table
limit	function	unescapequotes	function
linetable	function	unpack	function
longtostring	function	unquote	function
lower	function	unquoted	function
match	function	upper	function
nospaces	function	utf16toutf8	function
nspaces	table	utfcharacter	function

utfcharacters	function	utfvalue	function
utfcharactertable	function	utfvalues	function
utflength	function	utfvaluetable	function
utfpadd	function	valid	function
utfpadding	function	wordsplitter	function

structures (context)

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

F title	
F touserdata	
inserts	table
F attach	F prefix
D data	F prefixednumber
F define	F prefixedpage
F detach	F process
F getdata	D pushed
F getlocation	F pushnesting
F getname	F rawnumber
F getnumber	F rawrealpage
F nodetached	F rawuserpage
F setlocation	F realpage
F setup	F reorder
D stored	F reordered
itemgroups	table
D collected	T result
D tobesaved	F savedlistnumber
lists	table
F addto	F savedlistprefixednumber
F analyze	F savedlisttitle
D cached	D sectionblocks
D collected	F sectionnumber
F discard	F size
F enhance	F title
T enhancers	D tobesaved
F external	F use
F filter	F userdata
F formulanumber	F userpage
F getresult	F uservalue
F groupindex	marks
F hasnumberdata	table
F haspagedata	F number
F hastitledata	F title
F integrate	notes
F iscached	table
D kinds	F check_spacing
F label	F checkpagechange
F location	F define
D names	F doifonsamepageasprevious
F number	F flushrange
D ordered	F get
F page	F getdeltapage
F popnesting	F getinternal
	F getn
	F getstate
	F hascontent
	F internal
	F internalid
	F listindex
	D numbers

F ordered	T files
F postpone	T data
F resetpostponed	F define
F restore	F found
F save	F get
F setstate	F filter
D states	F filterdefault
F store	D filters
pages	table
F allmarked	D flaginternals
F analyze	F forceinnermode
D collected	F from
F fraction	D functions
F getlabels	F get
F in_body	F getcurrentlabel
F is_odd	F getcurrentmetadata
F mark	F getcurrentprefixspec
F marked	F getinnermethod
F markedlist	F getinternalcachedlistreference
N numpages	F getinternallistreference
F number	F getinternalreference
F on_right	F getoutermethod
F save	D handlers
D tobesaved	F identify
F toranges	F import
references	table
F analyze	F inject
F checked	F injectcurrentset
F checkedfile	S innermethod
F checkedfileorurl	F integrate
F checkedprogram	D internals
F checkedrealpage	F load
F checkedurl	F loadpresets
D collected	F mark
U componentsplitter	S outermethod
F currentmetadata	F pagefromhash
F currentorder	D pages
D currentset	U prefixesplitter
F define	D productdata
D defined	T programs
D derived	T data
F enhance	F define
D executers	F get
F export	F realpageofpage
	U referencesplitter
	D referred

F referredpage	registers	table
F registerfinalizer	F analyze	
F registerinitializer	D collected	
F registerpage	F compare	
F reset	F define	
D runners	F enhance	
F set	F extend	
F setandgetattribute	F filter	
F setinternalreference	F filtercollected	
F setlinkmethod	F finalize	
F setnextinternal	F findinternal	
F setnextorder	F flush	
F setreferencerealpage	F get	
F setstructure	F integrate	
D specials	F prepare	
F splitcomponent	F process	
F splitprefix	F setmethod	
F splitreference	F sort	
F synchronizepage	F store	
T testrunners	D tobesaved	
F inner	F tweak	
F special	F unique	
F special operation	F use	
F special operation with arguments	F userdata	
T testspecials	sections	table
F deltapage	F autodepth	
F i	F cct	
F internal	D collected	
F page	F current	
F realpage	F currentblock	
F section	F currentid	
F userpage	F currentlevel	
D tobereferrer	F currentsectionindex	
D tobesaved	F depthnumber	
D tracedpages	F finddata	
T urls	F findnumber	
T data	F fullnumber	
F define	F getcurrentlevel	
F found	F getlevel	
F get	F getnumber	
F untex	F internalreference	
D usedinternals	D levelmap	
D usedviews	D levels	
F valid	F matchingtilde	

F	numberatdepth	F	flush
F	numbers	F	isshown
F	popblock	F	isused
F	prefixedconverted	F	meaning
F	pushblock	F	pages
F	register	F	prepare
D	registered	F	process
F	reportstructure	F	register
F	save	F	registershown
T	sectionblockdata	F	registerused
T	bodypart	F	reset
S	bookmark	F	resetall
F	set	F	resetlist
F	setblock	F	resetshown
F	setchecker	F	resetused
F	setentry	F	sort
F	setinitialblock	F	synonym
F	setlevel	D	tobesaved
F	setnumber	tags	
F	showstructure	table	
F	structuredata	T	backend
F	title	T	checks
D	tobesaved	F	marginanchor
F	typesetnumber	F	margintext
F	userdata	F	math
B	verbose	F	mrow
sets		F	mtable
F	define	T	destinationhash
F	get	T	extras
F	getall	F	adddestination
D	setlist	F	addimplicit
specials		F	addinternal
D	collected	F	addrference
F	retrieve	F	combination
F	store	F	combinationpair
D	tobesaved	F	delimitedsymbol
synonyms		F	description
F	analyzed	F	descriptionsymbol
D	collected	F	document
F	compare	F	float
F	define	F	formulacontent
F	enhance	F	image
F	filter	F	item
F	finalize	F	itemgroup
		F	link

F listitem	F gettablecell
F mmultiscripts	F gettabulatecell
F mover	F handler
F msub	T ignored
F msubsup	F initializeexport
F msup	D labels
F munder	F last
F munderover	F lastinchain
F paragraph	F localexport
F publication	F locatedtag
F reference	D overloads
F registerlocation	T patterns
F registerpages	U splitter
F registerseparator	F pop
F section	D properties
F sorting	F push
F subsentencesymbol	F registerextradata
F synonym	F registermetadata
F tablecell	F restart
F tabulate	F setaspect
F tabulatecell	F setattributehash
T finalizers	F setcodepoint
F descriptions	F setcombination
T fixes	F setcombinationpair
F linenumber	F setconstruct
F fontfaced	F setfigure
T listdata	F setfloat
T referencehash	F setformulacontent
F setattribute	F sethighlight
F tofontface	F setitem
T usedimages	F setitemgroup
T image	F setlist
T usedstyles	F setnotation
T construct	F setnotationsymbol
T highlight	F setparagraph
F current	F setproperty
F elementtag	F setpublication
F enabled	F setregister
F exportbox	F setsorting
F finishexport	F setsynonym
F getextradata	F settablecell
F getid	F settabulatecell
F getitemgroup	F settagdelimitedsymbol
F getmetadata	F settagsubsentencesymbol

F setupexport
F setuserproperties
D specifications
F start

F stop
F strip
D taglist
T usewithcare

table (basic lua)

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

tex (basic tex)

amcode	table	discpartcodes	data table
attribute	table	dontcomplain	function
automigrationcodes	data table	doublescriptoptioncodes	data table
autoparagraphcodes	data table	enableprimitives	function
badness	function	error	function
badnessmodecodes	data table	expandasvalue	function
balance	function	experiments	data table
balancecallbackcodes	data table	extraprimitives	function
boundaries	table	fatalerror	function
D names		fillcodes	data table
D numbers		flagcodes	data table
F system		fontidentifier	function
box	table	fontname	function
boxoptioncodes	data table	forcechmode	function
boxresources	table	forceinputstatefile	function
F getbox		forceinputstateline	function
F getdimensions		fprint	function
F save		frozenparcodes	data table
F use		get	function
breakcodes	data table	getadjustoptionvalues	function
buildcodes	data table	getalignmentcontextvalues	function
catcode	table	getamcode	function
ccode	table	getappendadjustcontextvalues	function
charactercontrolcodes	data table	getappendmigratecontextvalues	function
charertagcodes	data table	getattribute	function
chardef	function	getautomigrationvalues	function
classoptioncodes	data table	getautoparagraphvalues	function
codes	table	getbadnessmodevalues	function
conditionals	data table	getbalancecallbackvalues	function
constants	data table	getbalanceparameterfields	function
count	table	getbalanceresultfields	function
cprint	function	getbalancestepoptionvalues	function
ctdcatcodes	number	getbox	function
ctxcatcodes	number	getboxdir	function
definefont	function	getboxoptionvalues	function
delcode	table	getboxresourcebox	function
dimen	table	getboxresourcedimensions	function
dimensiondef	function	getbreakcontextvalues	function
directioncodes	data table	getbuildcontextvalues	function
directives	data table	getcardinalvalue	function
disoptioncodes	data table	getcatcode	function

getcccde	function	getinsertwidth	function
getcharactercontrolvalues	function	getintegervalue	function
getcharactertagvalues	function	getinteraction	function
getcount	function	getinteractionmodes	function
getcurrentmvl	function	getiovalues	function
getdelcode	function	getkerneloptionvalues	function
getdelcodes	function	getkernoptionvalues	function
getdimen	function	getlargestusedmark	function
getdimensionvalue	function	getlccode	function
getdirectionvalues	function	getlinebreakparameterfields	function
getdiscriptionvalues	function	getlinebreakresultfields	function
getdiscpartvalues	function	getlinebreakstatevalues	function
getdoublescriptoptionvalues	function	getlinedir	function
getemptyparagraphmodevalues	function	getlist	function
geterrorvalues	function	getlistanchorvalues	function
getfillvalues	function	getlistfields	function
getflagvalues	function	getlistgeometryvalues	function
getfloat	function	getlistsignvalues	function
getfontoffamily	function	getlocalbox	function
getfrozenparvalues	function	getlocalboxlocations	function
getglue	function	getlocallevel	function
getglueoptionvalues	function	getmark	function
getglyphdata	function	getmarknames	function
getglyphdiscvalues	function	getmath	function
getglyphoptionvalues	function	getmathclassoptionvalues	function
getglyphprotectionvalues	function	getmathcode	function
getglyphscales	function	getmathcodes	function
getglyphscript	function	getmathcontrolvalues	function
getglyphstate	function	getmathdir	function
getgroupvalues	function	getmathgluevalues	function
gethccde	function	getmathoptionvalues	function
gethelptext	function	getmathparametervalues	function
gethmcode	function	getmathscriptordervalues	function
gethyphenationvalues	function	getmathscriptsmodedvalues	function
getiftypes	function	getmathstylenamevalues	function
getinputstatefile	function	getmathstylevalues	function
getinputstateline	function	getmathstylevariant	function
getinputstatemode	function	getmathsurroundvalues	function
getinsertcontent	function	getmathvariantpresets	function
getinsertdepth	function	getmathvariantvalues	function
getinsertdistance	function	getmeasure	function
getinsertheight	function	getmissingcharactervalues	function
getinsertlimit	function	getmode	function
getinsertmultiplier	function	getmodevalues	function

getmuglue	function	getusedmarks	function
getmuskip	function	getvsplitcontextvalues	function
getmvloptionvalues	function	glue	table
getnest	function	glueoptioncodes	data table
getnestfields	function	glyphdisccodes	data table
getnestlevel	function	glyphoptioncodes	data table
getnoadoptionvalues	function	groupcodes	data table
getnormalize;linevalues	function	hashtokens	function
getnormalize;parvalues	function	hccode	table
getoutputactive	function	hmcode	table
getpacktypevalues	function	hshcatcodes	number
getpagecontextvalues	function	hyphenationcodes	data table
getpagestate	function	ifs	data table
getpagestatevalues	function	inicatcodes	number
getparametermodevalues	function	integerdef	function
getparcontextvalues	function	interactioncodes	data table
getpardataspecifications	function	isattribute	function
getpardir	function	isbox	function
getparmodevalues	function	iscount	function
getparstate	function	isdefined	function
getparstatefields	function	isdimen	function
getpartriggervalues	function	isfloat	function
getpenaltyoptionvalues	function	isglue	function
getpositivevalue	function	ismuglue	function
getprepoststatevalues	function	ismuskip	function
getprimitiveorigins	function	isprintable	function
getprotrusionboundaryvalues	function	isskip	function
getregisterindex	function	istoks	function
getruleoptionvalues	function	lastnodetype	function
getrunstate	function	lccode	table
getrunstatevalues	function	linebreak	function
getsfcode	function	linebreakstatecodes	data table
getshapingpenaltiesvalues	function	listanchorcodes	data table
getskip	function	listgeometrycodes	data table
getsnappingvalues	function	lists	table
getspecialmathclassvalues	function	listsigncodes	data table
getspecification	function	luacatcodes	number
getspecificationoptionvalues	function	magicconstants	table
gettextcontrolvalues	function	S activecharacternamespace	
gettextdir	function	N allfitnessvalues	
gettoks	function	N assumedmathcontrol	
getuccode	function	N awfulbad	
getuleaderlocationvalues	function	N decentcriterion	
getunitclassvalues	function	N defaultcatcodetable	

N defaultcharactercontrol	N maxintegerregisterindex
N defaultdeadcycles	N maxintregisterindex
N defaulteqnogapstep	N maxlimitedscale
N defaulthangafter	N maxmarkindex
N defaultoutputbox	N maxmathclasscode
N defaultpredisplaygap	N maxmathfamilyindex
N defaultrule	N maxmathscalingfactor
N defaultspacefactor	N maxmathstylescale
N defaulttolerance	N maxmugleregisterindex
N deplorable	N maxmvlindex
N ejectpenalty	N maxnewlinecharacter
N ignoredepth	N maxnofbytecodes
N infinitebad	N maxnofcatcodetables
N infinitepenalty	N maxnofitnessvalues
N infinity	N maxnoffonts
N largewidthexcess	N maxnoflanguages
N loosecriterion	N maxnofmarks
N mathallclass	N maxnofmathfamilies
N mathbeginclass	N maxquarterword
N mathdefaultpenalty	N maxscalefactor
N mathendclass	N maxsizeofword
N mathfirstuserclass	N maxspacefactor
N mathlastuserclass	N maxtoksregisterindex
N maxattributeregisterindex	N maxtwinlength
N maxboxregisterindex	N mincardinal
N maxbytecodeindex	N mindatavalue
N maxcalculatedbadness	N mindimen
N maxcardinal	N mindimension
N maxcharactercode	N minhalfword
N maxdatavalue	N mininfinity
N maxdimen	N mininteger
N maxdimenregisterindex	N minmvlindex
N maxdimension	N minnofitnessvalues
N maxdimensionregisterindex	N minquarterword
N maxendlinecharacter	N minscalefactor
N maxfloatregisterindex	N minspacefactor
N maxfontadjustshrinkfactor	N nocatcodetable
N maxfontadjuststep	N null
N maxfontadjuststretchfactor	N nullflag
N maxfunctionreference	N nullfont
N maxglueregisterindex	N onebp
N maxhalfvalue	N presetrulethickness
N maxhalfword	N runningrule
N maxinteger	N smallstretchability

N specialspacefactor	preparelinebreak	function
N texeqtbsize	primitives	function
N texhashprime	print	function
N texhashsize	protrusionboundarycodes	data table
N two	prtcatcodes	number
N undefinedmathparameter	pushlocal	function
N unity	pushsavelevel	function
N unusedattributevalue	quitlocal	function
N unusedmathfamily	quittoks	function
N unusedmathstyle	resetparagraph	function
N unusedscriptvalue	rlncatcodes	number
N unusedstatevalue	romannumeral	function
N zeroglue	round	function
mathchardef	ruleoptioncodes	data table
mathcode	runlocal	function
mathcontrolcodes	runstatecodes	data table
mathoptioncodes	runstring	function
mathparametercodes	runtoks	function
mathscriptordercodes	saveboxresource	function
mathscriptsmodecodes	scale	function
modelevels	scantoks	function
N horizontal	set	function
N math	setamcode	function
N unset	setattribute	function
N vertical	setbalanceshape	function
modes	setbox	function
mprint	setboxdir	function
muglue	setcardinalvalue	function
muskip	setcatcode	function
mvoptioncodes	setcccode	function
nest	setconditional	function
nilcatcodes	setcount	function
noadoptioncodes	setdelcode	function
normalizelinecodes	setdimen	function
normalizeparcodes	setdimensionvalue	function
notcatcodes	setfloat	function
number	setglue	function
parcontextcodes	setglyphdata	function
partriggercodes	setglyphscript	function
penaltyoptioncodes	setglyphstate	function
poplocal	sethccode	function
popsavelevel	sethmcode	function
posit	setinputstatefile	function
positdef	setinputstateline	function

setinputstatemode	function	skip	table
setinsertcontent	function	snappingcodes	data table
setinsertdistance	function	snapshotpar	function
setinsertlimit	function	sp	function
setinsertmultiplier	function	specialmathclasscodes	data table
setintegervalue	function	specificationoptioncodes	data table
setinteraction	function	splitbox	function
setlccode	function	splitcodes	data table
setlinedir	function	sprint	function
setlist	function	stringtocodebitmap	function
setlocalbox	function	systemmodes	data table
setmath	function	takebox	function
setmathcode	function	texcatcodes	number
setmathdir	function	textcontrolcodes	data table
setmuglue	function	toks	table
setmuskip	function	tonumber	function
setnest	function	toscaled	function
setpardir	function	tpacatcodes	number
setpositvalue	function	tpbcatcodes	number
setrunstate	overloaded function	tpprint	function
setsfcode	function	trackers	data table
setskip	function	triggerbuildpage	function
settextdir	function	txtcatcodes	number
settoks	function	uccode	table
setuccode	function	uprint	function
sfcode	table	useboxresource	function
shapingpenaltiescodes	data table	userdiscoptioncodes	data table
shiftparshape	function	userglyphoptioncodes	data table
shipout	function	vrbcatcodes	number
showcontext	function	write	function

texconfig (basic tex)

buffersize	table	languagesize	table
N size		N size	
N step		N step	
errorlinesize	table	marksizesize	table
N size		N size	
expandsize	table	N step	
N size		nestsizesize	table
filesize	table	N size	
N size		N step	
N step		nodesizesize	table
firstline	string	N size	
fontsize	table	N step	
N size		parametersizesize	table
N step		N size	
formatname	string	N step	
functionsizesize	number	poolsizesize	table
halferrorlinesize	table	N size	
N size		N step	
hashsize	table	propertiessizesize	number
N size		savesizesize	table
N step		N size	
init	overloaded function	N step	
inputsizesize	table	shell_escape	string
N size		stringsizesize	table
N step		N size	
insertsize	table	N step	
N size		tokensizesize	table
N step		N size	
kpse_init	boolean	N step	

texio (basic tex)

<code>closeinput</code>	function	<code>write</code>	function
<code>forceendoffile</code>	function	<code>write_nl</code>	function
<code>getinputindex</code>	function	<code>writenl</code>	function
<code>getselectorvalues</code>	function	<code>writeselector</code>	function
<code>getsourcefilename</code>	function	<code>writeselectorlf</code>	function
<code>setlogfile</code>	function	<code>writeselectornl</code>	function
<code>terminal</code>	function		

token (basic tex)

create	function	getexpandable	function
expand	function	getexpansion	function
expand_macro	function	getfields	function
expandmacro	function	getflags	function
future_expand	function	getfrozen	function
futureexpand	function	getfunctionvalues	function
get_active	function	getid	function
get_cmdchrcs	function	getimmutable	function
get_cmdname	function	getindex	function
get_command	function	GetInstance	function
get_curname	function	getinteger	function
get_cstoken	function	getlength	function
get_dimension	function	getmacro	function
get_expandable	function	getmeaning	function
get_fields	function	getnoaligned	function
get_flags	function	getparameters	function
get_frozen	function	getpermanent	function
get_id	function	getprimitive	function
get_immutable	function	getprimitives	function
get_index	function	getprotected	function
get_instance	function	getrange	function
get_integer	function	gettok	function
get_macro	function	gettolerant	function
get_meaning	function	gobble	function
get_noaligned	function	gobble_dimension	function
get_parameters	function	gobble_integer	function
get_permanent	function	gobbledimension	function
get_primitive	function	gobbleinteger	function
get_protected	function	grab	function
get_range	function	inhibit	function
get_tok	function	is_defined	function
get_tolerant	function	is_next_char	function
getactive	function	is_token	function
getcmdchrcs	function	isactivestring	function
getcmdname	function	isdefined	function
getcommand	function	isnextchar	function
getcommandvalues	function	istoken	function
getconstant	function	locatemacro	function
getcsname	function	new	function
getcstoken	function	peek_next	function
getdimension	function	peek_next_char	function

peek_next_expanded	function	scan_toks	function
peeknext	function	scan_value	function
peeknextchar	function	scan_word	function
peeknextexpanded	function	scanargument	function
pop_macro	function	scanbox	function
popmacro	function	scancardinal	function
push_macro	function	scanchar	function
pushmacro	function	scancmdchr	function
put_back	function	scancmdchexpanded	function
put_next	function	scancode	function
putback	function	scancsname	function
putnext	function	scancstoken	function
save_lua	function	scandelimited	function
savelua	function	scandetokened	function
scan_argument	function	scandimen	function
scan_box	function	scandimenargument	function
scan_cardinal	function	scandimension	function
scan_char	function	scandimensionargument	function
scan_cmdchr	function	scanfloat	function
scan_cmdchr_expanded	function	scanglue	function
scan_code	function	scaint	function
scan_csname	function	scaninteger	function
scan_delimited	function	scanintegerargument	function
scan_dimen	function	scankey	function
scan_float	function	scankeyword	function
scan_glue	function	scankeywordcs	function
scan_integer	function	scanletters	function
scan_key	function	scanluacardinal	function
scan_keyword	function	scanluainteger	function
scan_keyword_cs	function	scanluanumber	function
scan_letters	function	scannext	function
scan_luacardinal	function	scannextchar	function
scan_luainteger	function	scannextexpanded	function
scan_luanumber	function	scanposit	function
scan_next	function	scanreal	function
scan_next_char	function	scanscale	function
scan_next_expanded	function	scanskip	function
scan_real	function	scanstring	function
scan_scale	function	scantoken	function
scan_skip	function	scantokencode	function
scan_string	function	scantokenlist	function
scan_token	function	scantokenstring	function
scan_token_code	function	scantoks	function
scan_tokenlist	function	scanvalue	function

scanword	function	setmacrofrommark	function
serialize	function	setmacrotonothing	function
set_dimension	function	skip_next	function
set_integer	function	skip_next_expanded	function
set_lua	function	skipnext	function
set_macro	function	skipnextexpanded	function
setdimension	function	type	function
setinteger	function	undefine_macro	function
setlua	function	undefinemacro	function
setmacro	function		

tokens (context)

accessors	table	S todimen S togue S tonumber S tostring
F active		
F cmd		
F cmdchrcs		
F cmdname		create function
F command		defined function
F csname		flags function
F expandable		getinteger function
F frozen		getters table
F index		F box
F name		F count
F protected		F cstoken
F range		F dimen
astable	function	F glue
bits	table	F macro
N active		F meaning
N alignment		F skip
N begingroup		F token
N character		gobble function
N close		isactivestring function
N comment		isdefined function
N endgroup		istoken function
N endofline		new function
N escape		pickup function
N ignore		popmacro function
N invalid		presets table
N letter		T 1 argument
N mathshift		T 1 integer
N open		T 1 optional
N other		T 1 string
N parameter		T 2 arguments
N space		T 2 integers
N subscript		T 2 optionals
N superscript		T 2 strings
N whitespace		T 3 arguments
cache	data table	T 3 integers
commands	data table	T 3 optionals
compile	function	T 3 strings
constant	function	T 4 arguments
converters	table	T 4 integers
S toboolean		T 4 optionals

T 4 strings	F luainteger
T 5 strings	F luanumber
T 6 strings	F lxmlid
T 7 strings	F next
T 8 strings	F nextchar
pushmacro	function
scanners	table
F argument	F nextexpanded
F argumentasis	F number
F array	F optional
F boolean	F peek
F box	F peekchar
F bracketed	F peekexpanded
F bracketedasis	F posit
F cardinal	F real
F char	F scanclose
F cmdchr	F scanopen
F cmdchrexpanded	F skip
F code	F skipexpanded
F conditional	F string
F count	F table
F csname	F token
F csnameunchecked	F tokencode
F delimited	F tokenlist
F detokened	F tokens
F dimen	F tokenstring
F dimension	F toks
F dimensionargument	F value
F float	F vbox
F glue	F verbatim
F gluespec	F vtop
F gluevalues	F whd
F hash	F word
F hbox	setinteger function
F integer	setters table
F integerargument	F box
F ischar	F char
F key	F count
F keyword	F dimen
F keywordcs	F glue
F letters	F lua
F list	F macro
F lua	F macro
F luocardinal	F skip
	shortcuts table
	T bits
	N active

N alignment	F atan
N begingroup	F band
N character	F bor
N close	F bxor
N comment	F ceil
N endgroup	F conj
N endofline	F copy
N escape	F cos
N ignore	F exp
N invalid	F exp2
N letter	F expand
N mathshift	F floor
N open	F frombyte
N other	F fromchar
N parameter	F fromposit
N space	F integer
N subscript	F log
N superscript	F log10
N whitespace	F log1p
N close	F log2
F inspect	F logb
N open	F max
T posit	F min
F NaN	F modf
F NaR	F new
F __add	F pow
F __band	F rotate
F __bor	F round
F __bxor	F rounded
F __div	F shift
F __eq	F sin
F __le	F sqrt
F __lt	F tan
F __mul	F tobyte
S __name	F tochar
F __pow	F tonumber
F __shl	F toposit
F __shr	F tostring
F __sub	F report
F __tostring	F scanargument
F __unm	F scanargumentasis
F abs	F scanarray
F acos	F scanboolean
F asin	F scanbox

F scanbracketed	F detokened
F scanbracketedasis	F dimen
F scand Cardinal	F dimension
F scanclose	F dimensionargument
F scancode	F float
F scanconditional	F glue
F scancsname	F glucspec
F scancsnameunchecked	F gluevalues
F scandelimited	F hash
F scandetokened	F hbox
F scandimen	F integer
F scandimension	F integerargument
F scandimensionargument	F ischar
F scanfloat	F key
F scanglue	F keyword
F scangluespec	F keywordcs
F scangluevalues	F letters
F scanhash	F list
F scanhbox	F lua
F scaninteger	F luacardinal
F scanintegerargument	F luainteger
F scankeyword	F luanumber
F scankeywordcs	F lxmid
F scanletters	F next
F scanlist	F nextchar
F scanlua	F nextexpanded
T scanners	F number
F argument	F optional
F argumentasis	F peek
F array	F peekchar
F boolean	F peekexpanded
F box	F posit
F bracketed	F real
F bracketedasis	F scanclose
F cardinal	F scanopen
F char	F skip
F cmdchr	F skipexpanded
F cmdchrexpanded	F string
F code	F table
F conditional	F token
F count	F tokencode
F csname	F tokenlist
F csnameunchecked	F tokens
F delimited	F tokenstring

F toks	S togtrue
F value	S tonumber
F vbox	S tostring
F verbatim	F create
F vtop	F defined
F whd	F flags
F word	F getinteger
F scannumber	T getters
F scanopen	F box
F scanoptional	F count
F scanposit	F cstoken
F scanstring	F dimen
F scantable	F glue
F scantokenlist	F macro
F scantokenstring	F meaning
F scantoks	F skip
F scanvbox	F token
F scanverbatim	F gobble
F scanvtop	F isactivestring
F scanword	F isdefined
F toboolean	F istoken
F todimen	F new
T tokens	F pickup
T accessors	F popmacro
F active	T presets
F cmd	F pushmacro
F cmdchrcs	F setinteger
F cmdname	T setters
F command	F box
F csname	F char
F expandable	F count
F frozen	F dimen
F index	F glue
F name	F lua
F protected	F macro
F range	F skip
F astable	T shortcuts
D cache	N close
D commands	F inspect
F compile	N open
F constant	F report
T converters	F scanargument
S toboolean	F scanargumentasis
S todimen	F scanarray

F scanboolean	F scanletters
F scanbox	F scanlist
F scanbracketed	F scanlua
F scanbracketedasis	F scannumber
F scancardinal	F scanopen
F scanclose	F scanoptional
F scancode	F scanposit
F scanconditional	F scanstring
F scancsname	F scantable
F scancsnameunchecked	F scantokenlist
F scandelimited	F scantokenstring
F scandetokened	F scantoks
F scandimen	F scanvbox
F scandimension	F scanverbatim
F scandimensionargument	F scanvtop
F scanfloat	F scanword
F scanglue	F toboolean
F scangluespec	F todimen
F scangluevalues	F tonumber
F scanhash	F tostring
F scanhbox	D values
F scaninteger	F tonumber
F scanintegerargument	F tostring
F scankeyword	values data table
F scankeywordcs	

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
dumphashstofile	function	show	function
enable	function	value	function
list	function	values	function
name	string		

typesetters (context)

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

F keepligature	
D mapping	
F set	
localboxes	table
F handler	
manipulators	table
F apply	
F applicspecification	
T methods	
F Word	
F Words	
F abbreviatedjournal	
F expandedjournal	
F lowercase	
F stripperiod	
F uppercase	
T patterns	
U list	
U pair	
F splitspecification	
margins	table
F finalhandler	
F globalhandler	
F localhandler	
F save	
marksuspects	function
paragraphs	table
F addanchortoline	
F addtoline	
F calculatedelta	
F checkline	
F moveinline	
periodkerns	table
D factors	
F handler	
D mapping	
F set	
processors	table
F apply	
F register	
F reset	
F split	
F startapply	
F stopapply	
	F stripped
	F tostring
rubies	table
F attach	
F check	
showinvisibles	function
showsuspects	function
spacings	table
F define	
F handler	
D mapping	
T numbers	
T frenchpunctuation	
T characters	
S name	
N number	
F reset	
F set	
F setup	
stacking	table
F getindex	
F getselection	
F handler	
swapping	table
F handler	
synchronize	table
F handler	
tighten	table
F handler	
wrappers	table
xtables	table
F cleanup	
F construct	
F create	
F finish_row	
F flush	
F initialize_construct	
F initialize_reflow_height	
F initialize_reflow_width	
F next_row	
F reflow_height	
F reflow_width	
F set_construct	

F set_reflow_height

F set_reflow_width

updaters (context)

apply function
register function

url (context)

addscheme	function	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
charpattern string
codepoint function

codes function
len function
offset function

utilities (context)

debugger	table	F readsignedbyte F readstring F readtag F setposition F size F skip F skiplong F skipposition F skipshort F writebyte F writecardinal1 F writecardinal1le F writecardinal2 F writecardinal2le F writecardinal3 F writecardinal3le F writecardinal4 F writecardinal4le F writeinteger1 F writeinteger1le F writeinteger2 F writeinteger2le F writeinteger3 F writeinteger3le F writeinteger4 F writeinteger4le F writestring
files	table	F close F getposition F getsize F look F open F read2dot14 F readbyte F readbytes F readbytetable F readcardinal F readcardinal1 F readcardinal1le F readcardinal2 F readcardinal2le F readcardinal3 F readcardinal3le F readcardinal4 F readcardinal4le F readcardinaltable F readchar F readline F readcstring F readfixed2 F readfixed4 F readinteger F readinteger1 F readinteger1le F readinteger2 F readinteger2le F readinteger3 F readinteger3le F readinteger4 F readinteger4le F readintegertable
		formatters table F formatcolumns F list F stripzeros
		ghostscript table F convert F statistics
		graphicmagick table F convert F statistics
		graphicsmagick table F convert F statistics
		json table

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

F	splitthousands	F	new
F	stepper	F	register
F	stripped_settings_to_array	F	report
F	totime	F	reset
F	unittotex	F	show
F	unittoxml		
randomizer	table	signals	table
F	get	S	configuration
F	getnumber	F	initialize
F	getrepeatable	F	loadstate
F	getrepeatableseed	F	report
F	getseed	F	savestate
F	newrepeatable	F	serialclose
F	popseed	F	serialfast
F	pushseed	F	serialopen
F	repeatable	F	serialsend
F	reuseseed	F	serialwrite
F	setseed	N	version
F	setseedi		
randomizers	table	stacker	table
F	poisson	F	new
sequencers	table	storage	table
F	appendaction	F	allocate
F	appendgroup	F	checked
F	compile	F	mark
F	disableaction	F	marked
F	disablegroup	F	setinitializer
F	enableaction	F	sparse
F	enablegroup		
D	functions	streams	table
F	localize	F	close
F	new	F	getposition
F	nodeprocessor	F	getsize
F	prependaction	F	getstring
F	prependgroup	F	look
F	removeaction	F	open
F	replaceaction	F	openstring
F	setkind	F	read2dot14
F	tostring	F	readbyte
setters	table	F	readbytes
F	disable	F	readbytetable
F	enable	F	readcardinal
F	initialize	F	readcardinal1
F	list	F	readcardinal1l
		F	readcardinal2
		F	readcardinal2le
		F	readcardinal3

F readcardinal3le	T striplinepatterns
F readcardinal4	U collapse
F readcardinal4le	U collapse all
F readcardinaltable	U prune
F readchar	U prune and collapse
F readline	U prune and no empty
F readcstring	U prune and to space
F readfixed2	U retain
F readfixed4	U retain and collapse
F readinteger	U retain and no empty
F readinteger1	F striplines
F readinteger1le	F striplong
F readinteger2	F tabtospace
F readinteger2le	T tracers
F readinteger3	tables table
F readinteger3le	F accesstable
F readinteger4	F definedtable
F readinteger4le	F definetable
F readintegertable	F encapsulate
F readsignedbyte	F insertaftervalue
F readstring	F insertbeforevalue
F setposition	F migratetable
F size	F removevalue
F skip	F replacevalue
F skipbytes	tar table
F skiplong	T archives
F skipshort	F closearchive
F tocardinal1	T files
F tocardinal1le	F fetch
F tocardinal2	F hash
F tocardinal2le	F list
F tocardinal3	F pack
F tocardinal3le	F unpack
F tocardinal4	F openarchive
F tocardinal4le	T registeredfiles
strings table	T streams
F collapse	F fetch
F collapsecrlf	F hash
T formatters	F list
F add	F pack
F new	F unpack
F newcollector	T strings
F newrepeater	F fetch
F nice	F hash

F list	F close
F pack	F found
F unpack	F hash
templates	table
F load	F list
F replace	F open
F replacer	F unzip
F resolve	F unzipdir
zipfiles	table
F zipdir	

vector (context)

add	function	identity	function
append	function	inner	function
average	function	insert	function
ceiling	function	inverse	function
checkoverlap	function	ismesh	function
collectoverlap	function	issingular	function
concat	function	isvector	function
contour	table	iszero	function
F average		mesh	table
F checkoverlap		F get	
F collectoverlap		F getdimensions	
F getarea		F ismesh	
F getmesh		F new	
F overlapping		F set	
F show		F tostring	
F sort		F totable	
F triangulate		F type	
copy	function	meshname	function
crossproduct	function	mul	function
delete	function	negate	function
determinant	function	new	function
div	function	normalize	function
equal	function	onecolumn	function
exchange	function	onerow	function
floor	function	product	function
get	function	remove	function
getdimensions	function	replace	function
getepsilon	function	round	function
getmesh	function	rowechelon	function
getrc	function	set	function
getrow	function	setepsilon	function
getstacking	function	setnext	function
gettype	function	setrc	function
helpers	table	setstacking	function
F points		slice	function
F transform		sort	function
F xrotation		sub	function
F xyzscale		swap	function
F yrotation		tostring	function
F zrotation		totable	function
homogenize	function	transpose	function

triangulate function
truncate function
type function

visualizers (context)

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

xcomplex (extra lua)

I	function	erf	function
__add	function	erfc	function
__div	function	erfcx	function
__eq	function	erfi	function
__mul	function	exp	function
__name	string	i	function
__pow	function	imag	function
__sub	function	log	function
__tostring	function	new	function
__unm	function	pow	function
abs	function	proj	function
acos	function	real	function
acosh	function	sin	function
arg	function	sinh	function
asin	function	sqrt	function
asinh	function	tan	function
atan	function	tanh	function
atanh	function	topair	function
conj	function	tostring	function
cos	function	totable	function
cosh	function	voigt	function
dawson	function	voigt_hwhm	function

xdecimal (extra lua)

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

xmath (extra lua)

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

xml (context)

addentities	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
bardinclusions	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
checkbox	function	delete function
checkedempty	function	delete_element function
checkerror	function	despecialized function
checknamespace	function	each function
checkns	function	each_element function
cleansed	function	elements function
collect	function	elementtodata function
collect_elements	function	empty function
collect_tags	function	entities data table
collect_texts	function	erase function
collected	function	errorhandler function
collecttexts	function	escaped function
compactelement	function	expand function
content	function	expressions table
convert	function	F attribute
copy	function	F boolean
count	function	F child
cprint	function	F contains
css	table	F count
F applyselector		F error
F colorspecification		F find
F dimension		F hasclass

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

include	function	F tex
inclusion	function	
inclusions	function	
index	function	
inheritattributes	function	
inheritedconvert	function	
inject	function	
inject_element	function	
inject_element_after	function	
inject_element_before	function	
injectafter	function	
injectbefore	function	
insert	function	
insert_element	function	
insert_element_after	function	
insert_element_before	function	
insertafter	function	
insertbefore	function	
insertcdata	function	
insertcomment	function	
inspect	function	
is_valid	function	
kind	function	
last	function	
lastmatch	function	
load	function	
lpath	function	
lpathcached	function	
lpathcalls	function	
lshow	function	
makestandalone	function	
match	function	
mml	table	
	F stripped	
	F verbose	
name	function	
newhandlers	function	
nodesettoString	function	
originalload	function	
package	function	
parent	function	
parsedentitylpeg	userdata	
pihandlers	table	
	F injector	
placeholders table		
	F unknown_any_entity	
	F unknown_dec_entity	
	F unknown_hex_entity	
popmatch	function	
position	function	
privatecodes	data table	
privatetoken	function	
process	function	
process_attributes	function	
process_elements	function	
processattributes	function	
profiled	table	
pure	function	
pushmatch	function	
raw	function	
registerentity	function	
registers	function	
reindex	function	
remap_name	function	
remap_namespace	function	
remap_tag	function	
remapname	function	
remapnamespace	function	
remaptag	function	
rename	function	
renamespace	function	
reparsedentitylpeg	userdata	
replace	function	
replace_element	function	
resetinjectors	function	
resolvens	function	
root	function	
save	function	
selection	function	
separate	function	
serialize	function	
serializetotext	function	
setCDATA	function	
setcomment	function	
sethandlersfunction	function	
setinjectors	function	
setProperty	function	

settings	function	tostring	function
specialcodes	data table	totable	function
specialhandler	table	toxml	function
sprint	function	tprint	function
string	function	traverse	function
strip	function	unescape	function
strip whitespace	function	unescapeentitylpeg	userdata
stripelement	function	unprivatized	function
stripleadingspaces	function	unspecialized	function
table	function	wipe	function
text	function	withelement	function
textonly	function	withelements	function
texttocdata	function	wrap	function
tocdata	function	xmllns	table
toelement	function		

xzip (extra lua)

adler32 function
compress function
compresssize function

crc32 function
decompress function
decompresssize function

zip (context)

archives table
closearchive function

openarchive function
registeredfiles table

zlib (context)

adler32 function
compress function
compresssize function

crc32 function
decompress function
decompresssize function