

MP aes attributes backends basexx bit32 blobs
boolean buffers builders caches callback
callbacks catcodes characters chemistry
commands containers context converters
coroutine ctxrunner debug dir directives
document documentdata drivers environment
experiments figures file fio floats font fonts
functions global graphics gzip images
interactions interfaces io job 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 pdfx physics
pngdecode posit potrace publications regimes
resolvers sandbox scripts set sha2 sio socket
sorters sparse statistics status storage
streams string structures table tex
texconditionals texconfig texconstants texifs
texio texisdefined texmodes texsystemmodes
thirddata token tokens tracers trackers
typesetters updaters url userdata utf8
utilities visualizers xcomplex xdecimal xmath
xml xzip zip zlib

ConT_EXt LMTX

global (alias: _G)

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LUATEXFORMATID	number	document	table
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MP	function	error	function
aes	table	experiments	table
arg	table	figures	table
asnumber_p	function	file	table
assert	function	fio	table
attributes	table	floats	table
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commands	table	job	table
containers	table	kpse	table
context	function	language	table
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coroutine	table	last_pdf	number
count	number	layouts	table
createmask	function	lfs	table
ctxrunner	table	libraries	table

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loaders	data table	<code>potracefrompng</code>	function
<code>loadfile</code>	function	<code>print</code>	function
<code>loadstring</code>	function	<code>profilelines</code>	function
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lpdf	table	<code>pushleaderlevel</code>	function
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<code>lua</code>	table	<code>rawget</code>	function
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lxml	table	<code>recolor</code>	function
<code>math</code>	table	<code>regimes</code>	table
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<code>mime</code>	table	<code>scripts</code>	table
<code>moduledata</code>	table	<code>select</code>	function
modules	table	<code>set</code>	table
mp	function	<code>setinspector</code>	function
<code>mplib</code>	table	<code>setmathparameters</code>	function
<code>next</code>	function	<code>setmetatable</code>	function
<code>noads</code>	table	<code>sha2</code>	table
<code>node</code>	table	<code>shipbox_ref_h</code>	number
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number	table	<code>sio</code>	table
<code>objects</code>	table	<code>socket</code>	table
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<code>package</code>	table	<code>streams</code>	table
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<code>pairs</code>	function	<code>structures</code>	table
<code>parametersets</code>	table	<code>table</code>	table
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pdf	table	<code>texconditionals</code>	data table
<code>pdfdecode</code>	table	<code>texconfig</code>	table
<code>pdfx</code>	table	<code>texconstants</code>	data table
physics	table	<code>texifs</code>	data table
<code>pngdecode</code>	table	<code>texio</code>	table
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texsystemmodes	data table	utf	table
thirddata	table	utf8	table
toboollean	function	utilities	table
todecimal	function	visualizers	table
token	table	warn	function
tokens	table	width	number
tonumber	function	xcomplex	table
tostring	function	xdecimal	table
tracers	table	xmath	table
trackers	table	xml	table
type	function	xpcall	function
typesetters	table	xshift	number
unpack	function	xzip	table
updaters	table	zip	table
url	table	zlib	table

aes (extra lua)

decode function
encode function

random function

attributes (context)

alternates table

N attribute
D data
F enable
F handler
F register
D registered
D values

applyoverloads function

checkvalues function

colorintents table

N attribute
D data
F enable
F handler
F register
D registered

colors table

N attribute
F cmyk
F cmyktogray
F cmyktorgb
F colorcomponents
D counts
B couple
F currentmodel
F currentnamedmodel
D data
N default
F defineintermediatecolor
F definemultitonecolor
F defineprocesscolor
F defineprocesscolordirect
F definesimplegray
F definespotcolor
F definetransparency
F enable
F filter
N forced
F forcedmodel
F forcesupport

F formatcolor
F formatgray
F formatluminance
F formatluminanceratio
F getpagecolormodel
F gray
F graytohsb
F handler
T helpers
F complement
F inbetween
F justone
F hsvtorgay
F hsvtorgb
F hwbtorgb
F iccprofile
F isblack
F labtolch
F labtorgb
F labtoxyz
F lchtolab
F lchtorgb
N main
S model
D models
F mpcolor
F mpnamedcolor
F mpoptions
F namedcolorattributes
N none
F popset
F processcolorcomponents
F pushset
F register
D registered
F registerspotcolor
F rgb
F rgbtocmyk
F rgbtorgay
F rgbtohsb
F rgbtoxyz

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	
F register		N overlay	

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
F definedlayoutcomponent		

backends (context)

closeout function

codeinjections table

F registerboxresource

F registerfont

F restoreboxresource

current string

defaults table

T codeinjections

F prerollreference

F setautoprefix

F vfstartcolor

F vfstopcolor

T nodeinjections

F cmykcolor

F destination

F graycolor

F injectknockout

F injectoverprint

F reference

F rgbcolor

F spotcolor

F transparency

T registrations

F transparency

D tables

getcallbackstate function

included table

B context

B date

B id

B metadata

B pdf

initialize function

latelua function

nodeinjections table

nothing function

openout function

registered table

T pdf

T codeinjections

F addbookmarks

F analyzenormalsymbol

F analyzesymbol

F attachmentid

F bitmap

F clonefield

F copyimage

F defaultprofile

F definefield

F definefieldset

F defineviewerlayer

F discardpages

F embedfile

F embedimage

F enabletags

F exportformdata

F fieldsurrounding

F flushmergelayer

F getbookmarks

F getboxresourcebox

F getdefaultfieldvalue

F getfieldcategory

F getfieldset

F getformatoption

F getinfo

F getlinkstructureparent

F getpreviewfigure

F getreferencestructureobject

F getrefobj

F insertrenderingwindow

F jp2

F jpg

F maptag

F mergebookmarks

F mergecomments

F mergefields

F mergereferences

F mergerenditions

F mergeviewerlayers

F newimage

F png

F prerollreference

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

T tables		tables	table
registrations	table	writeout	function
setencryption	function		

basexx (extra lua)

decode16 function

decode64 function

decode85 function

decodeLZW function

decodeRL function

encode16 function

encode64 function

encode85 function

encodeLZW function

encodeRL function

bit32 (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
dimensions	function
dispose	function
new	function
pack	function
strdp	function
strhd	function

strht	function
strwd	function
tohpack	function
tonodes	function
tovpack	function
write	function

boolean (context)

tocontext function

tonumber function

buffers (context)

append	function
assign	function
collectcontent	function
empty	function
erase	function
exists	function
get	function
getcontent	function
getctxlua	function
getlines	function
getmkvi	function
gettex	function
loadcontent	function

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

builders (context)

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

F injectpenalty

F injectskip

F interceptsamepagecontent

F pagehandler

F pageoverflow

F popatsame

F pushatsame

F setmap

F setskip

F snapbox

F synchronizepage

F tocategories

F tocategory

F vboxhandler

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

callback (basic tex)

find function
known function
list function

register overloaded function
usage function

callbacks (context)

freeze function

functions table

F start_page_number

F stop_page_number

known function

list data table

pop function

push function

register function

report function

supported table

B alignment_filter

B append_line_filter

B append_to_vlist_filter

B begin_paragraph

B buildpage_filter

B define_font

B find_format_file

B find_log_file

B get_attribute

B get_math_dictionary

B get_noad_class

B glyph_run

B handle_overload

B handle_uleader

B hpack_filter

B hpack_quality

B hyphenate

B insert_distance

B insert_par

B intercept_lua_error

B intercept_tex_error

B italic_correction

B kerning

B ligaturing

B line_break

B linebreak_filter

B linebreak_quality

B local_box_filter

B make_extensible

B math_rule

B missing_character

B mlist_to_hlist

B open_data_file

B packed_vbox_filter

B paragraph_context

B paragraph_pass

B post_linebreak_filter

B pre_dump

B pre_linebreak_filter

B pre_output_filter

B process_character

B process_jobname

B quality_font

B register_extensible

B show_build

B show_error_message

B show_loners

B show_lua_call

B show_warning_message

B show_whatsit

B start_file

B start_run

B stop_file

B stop_run

B tail_append

B trace_memory

B vpack_filter

B vpack_quality

B wrapup_run

catcodes (context)

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numbers data table

register function

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adobename	function	T after_subscript	
bidirectional	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	
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data	data table	T ra	
decomposed	data table	T stress_tone_mark	
description	function	T twopart_mark	
descriptions	data table	T vowel_modifier	
detailtags	data table	initialize	function
directions	table	is_character	data table
emoji	table	is_command	data table
F compact		is_hyphenator	data table
F known		is_letter	data table
F resolve		is_mark	data table
emojized	function	is_nothing	data table
encodes	data table	is_punctuation	data table
entities	data table	is_spacing	data table
fallbacks	data table	is_symbol	data table
filters	data table	lcchars	data table
fractions	table	lccode	function
fromnumber	function	lccodes	data table
fschars	data table	lettered	function
fscodes	data table	lhash	data table
getrange	function	linebreaks	data table
graphemes	data table	lower	function
hangul	data table	mathlists	data table
indicgroups	table	mirrors	table
T above_mark		otfscripts	data table
T after_half		ranges	data table
T after_main		registerentities	function

remap_hangul_syllable	function	tex	table
scripthash	table	D accentmapping	
setactivecatcodes	function	D commandmapping	
setlettercatcodes	function	F defineaccents	
setothercatcodes	function	F safechar	
shape	function	F strtoutf	
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)

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

containers (context)

cleannname function
content function
define function
is_usable function

is_valid function
read function
usecache boolean
write function

converters (context)

A	function	cn-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	maxchrs	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	spaceddigits	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
uchexnumbers
upper
verbose

D data

function
function
function
table

F translate

weekday
word
words

function
function
function

coroutine (basic lua)

close	function
create	function
isyieldable	function
resume	function

running	function
status	function
wrap	function
yield	function

ctxrunner (context)

load	function	prepfiles	data table
preparedfile	function	resolve	function

debug (basic lua)

getinfo function

sethook function

traceback function

dir (context)

collectpattern	function
current	function
expandlink	function
expandname	function
found	function
glob	function
globdirs	function

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

directives (context)

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

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

document (context)

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

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

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
inputfilebarename	string	suffix	string
inputfilename	string	texfile	function
inputfilesuffix	string	texmfos	string
jobfilefullname	string	texos	string
jobfilename	string	texroot	string
jobfilesuffix	string	truefilename	function
kindofrun	number	uselua module	function
lmtxmode	number	usemodules	function
loadexamodes	function	validengines	data table
loadluafile	function	version	string
luafile	function		

experiments (context)

data	data table	register	function
default	function	report	function
disable	function	reset	function
enable	function	show	function
list	function	value	function
name	string	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	
existsers	data table	N pdf	
exists	function	N png	
formats	data table	N stream	
found	data table	F wrap	
get	function	include	function
getinfo	function	includers	data table
getpdfinfo	function	initialize	function
getrealpage	function	loaded	data table
guess	function	localpaths	data table
guessfromstring	function	magics	data table
hash	function	mergegoodies	function
identifiers	data table	nofmissing	number
identify	function	nofprocessed	number
images	table	order	data table
F check		paths	data table
F checksize		patterns	data table
F copy		pop	function
F create		preferquality	boolean
F embed		programs	data table
F embedfromstore		push	function
F fetchdata		registerpattern	function
T keys		registerresource	function
F print		registersuffix	function
F resetdata		remappers	data table

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

file (basic lua)

addsuffix	function
basename	function
checksum	function
collapsepath	function
copy	function
dirname	function
expandname	function
extname	function
is_qualified_path	function
is_readable	function
is_rootbased_path	function
is_writable	function
isreadable	function
iswritable	function
join	function
joinpath	function
loadchecksum	function
nameonly	function
nametotable	function
needs Updating	function

needsupdating	function
pathpart	function
readdata	function
removesuffix	function
replacesuffix	function
reslash	function
robustname	function
savechecksum	function
savedata	function
size	function
splitbase	function
splitname	function
splitpath	function
strip	function
suffix	function
suffixes	function
suffixesonly	function
suffixonly	function
syncmtimes	function
withinbase	function

fio (extra lua)

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

readinteger1le	function
readinteger2	function
readinteger2le	function
readinteger3	function
readinteger3le	function
readinteger4	function
readinteger4le	function
readintegertable	function
setposition	function
skipposition	function
writecardinal1	function
writecardinal1le	function
writecardinal2	function
writecardinal2le	function
writecardinal3	function
writecardinal3le	function
writecardinal4	function
writecardinal4le	function

floats (context)

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

font (basic tex)

addcharacters	function
addquality	function
current	function
define	function
getfont	function
getfontdimen	function
getfontspec	function
getmathindex	function

getmathspec	function
id	function
max	function
nextid	function
setfont	function
setfontdimen	function
xscaled	function
yscaled	function

fonts (context)

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

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

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 cblc	T helpers
F cff	F axistofactors
F cff2	F cleanname
T cffencoder	F getaxisscale
F checkhash	F getfactors
F cmap	F getscales
F colr	F gotodatatable
F compact	F normalizedaxis
F condense	T normalizedaxisishash
F cpal	F readvariationdata
F dsig	F reportskippedtable
F ebdt	F setvariabledata
F eblc	F hhea
F ebsc	F hmtx
F expand	F hvar
F extend	F kern
F fvar	F loadfont
F gdef	F loadshapes
F getcomponents	F loca
F getinfo	F math
F glyf	F maxp
F gpos	F mvar
T gposhandlers	F name
F chainedcontext	F os/2
F context	F pack
F cursive	F parsecharstrings
F extension	F post
F marktobase	F 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	N nofsharedfonts	
N mset	N nofsharedhashes	
N rclt	N nofsharedvectors	
N rlig	N privateoffset	
N version	D privateslots	
T pfb	F readanddefine	
F filterencoding	F registerfeature	
F filtermetadata	F registerscriptset	
F loadvector	F resetfeature	
N version	B resolvevirtualtoo	
T tfm	F scale	
D cache	F scaled	
D features	F setfactor	
N maxnestingdepth	F setfeature	
N maxnestingsize	F setmathparameter	
T readers	F setname	
F loadpk	B sharefonts	
F loadtfm	F trytosharefont	
F loadtfmvf	N version	
F loadvf	current	function
F pktopdf	currentid	function
F potracetopdf	definers	table
F showpk	F addlookup	
F reencode	F analyze	
F setfeatures	F applypostprocessors	
N version	F checkedmode	
T vf	F checkedscript	
T combinations	S defaultlookup	

- F define
- F getspecification
- F internal
- F loadfont
- F makespecification
- T methods
 - F install
 - D variants
- F read
- F register
- F registered
- F registerfallbackfont
- F registersplit
- F resetnullfont
- F resolve
- T resolvers
 - F file
 - F name
 - F spec

definetypeface function

dropins table

- F clone
- F getshape
- F getshapes
- F nextid
- F provide
- F registerglyph
- F registerglyphs
- F swap
- F swapone

effects table

encodings table

- T agl
 - D ctxcodes
 - D extras
 - D synonyms
 - D unicodes
- D cache
- F is_known
- D known
- F load
- F make_unicode_vector
- D math
- N version

- enhanceid** function
- expansions** data table
- formats** data table
- getalternate** function
- getindices** function
- getkern** function
- getmultiple** function
- getsubstitution** function
- getters** table

- T alternate
 - F opentype
- T kern
 - F opentype
 - F type1
 - F type3
- T multiple
 - F opentype
- T substitution
 - F opentype

goodies table

- D colorschemes
- T data
 - T common-math.lfg
 - S author
 - S comment
 - S copyright
 - B initialized
 - T mathematics
 - T tweaks
- T presets
 - F addmathkerns
 - F braille
 - F eulertocalligraphic
 - F fallbacks
 - F moderntocalligraphic
 - F moveintegrals
 - F moveitalics
 - F pagellaradical
 - F rsfstoscript
 - F rsfsuprighttoscript
 - F scripttocalligraphic
 - F smallldigits
 - F wipeanchors
 - F wipeitalics

- F xitsarabic
- S name
- S version
- T dejavu-math
 - S author
 - S comment
 - S copyright
 - B initialized
 - T mathematics
 - T alternates
 - T dotless
 - S comment
 - S feature
 - N value
 - T bigslots
 - T parameters
 - N AccentBaseDepth
 - N AccentTopShiftUp
 - N DelimiterDisplayPercent
 - N DelimiterDisplayShortfall
 - N DelimiterPercent
 - N DelimiterShortfall
 - N DisplayOperatorMinHeight
 - N FlattenedAccentTopShiftUp
 - N FractionRuleThickness
 - S PrimeBaselineDropMax
 - S PrimeShiftUp
 - S PrimeShiftUpCramped
 - N SubscriptShiftDown
 - S SubscriptShiftDownWithSuperscript
 - N SuperscriptShiftUp
 - T tweaks
 - T aftercopying
 - S name
 - S version
- T dejavu-text
 - S author
 - S comment
 - S copyright
 - T extensions
 - B initialized
 - S name
 - S version
- D designsizes

- D filenames
- F getcompositions
- T list
- F load
- F prepare_features
- F register
- F registerpostprocessor
- F report
- T suffixes

handlers	table
hashes	table

- D characters
- D classes
- D csnames
- D descriptions
- D dynamics
- D emwidths
- D exheights
- D features
- D identifiers
- D italics
- D lastmathids
- D marks
- D mathparameters
- D modes
- D originals
- D parameters
- T processes
- D properties
- D quads
- D resources
- T setdynamics
- T shapes
- D spaces
- D spacings
- T streams
- D unicodes
- D unislots
- D variants
- D xheights

helpers	table
----------------	-------

- F addextraprivate
- F addprivate
- F appendcommands

F appendcommandtable
 F checkflags
 F checkmerge
 F checksteps
 F collectanchors
 F combineglyphs
 D commands
 F composecharacters
 F descriptiontoslot
 F dimenfactor
 F expandglyph
 D extraprivates
 F fontpatternhassize
 F getcoloredglyphs
 F getdigitwidth
 F getinstancespec
 F getparameters
 F getprivatecharornode
 F getprivatenode
 F getprivates
 F getprivateslot
 F hasprivate
 F indextoslot
 F isprivate
 F mathscriptslots
 F name
 F nametoslot
 F newprivateslot
 F prependcommands
 F prependcommandtable
 F privateslot
 F registerglyphbox
 F scalecommands
 F setboxdirectly
 F setboxglyph
 F setboxglyphs
 F setdigitwidth
 F setmetaglyph
 F setmetaglyphs
 D sharedprivates
 F splitfontpattern
 F tochar
 T vfinjectors
 F startcolor

F stopcolor
 T vfspecials
 T backgrounds
 T outlines

infofont function
iterators table

F characters
 F descriptions
 F glyphs
loggers table
 F format
 F onetimemessage
 F register
 F reportdefinedfonts
 F reportusedfeatures

mappings table

F addtounicode
 F fromunicode16
 F getentry
 F loadfile
 F loadline
 F makenameparser
 D overloads
 F reset
 F tounicode
 F tounicode16
 F tounicode16sequence

metapost table

F baseline
 F boundingbox
 F boxtomp
 F draw
 F fill
 F glyph
 F maxbounds
 F paths
 F widthline
 F zeroline

mode function
names data table
nulldata data table
privateoffsets table

B keepnames
 N mathbase

N mathextrabase		F registerfontfamily	
N textbase		F textfallback	
N textextrabase		F typeface	
protrusions	data table	F typescript	
readers	table	F userdata	
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	N number	
reserveid	function	S script	
select	table	T always	
D alternatives		S autolanguage	
F bodyfont		S autoscript	
D data		B checkmissing	
F default		B curs	
D defaults		B kern	
F definefallbackfamily		B mark	
F definefontfamily		B mkmk	
F definefontfamilypreset		S mode	
D extras		N number	
F fallback		S script	
D fallbacks		S textcontrol	
F features		B wipemath	
F filefallback		T arabic	
F fontdata		B analyze	
F fontfallback		S autolanguage	
F fontsynonym		S autoscript	
F goodies		B calt	
F mathfallback		B ccmp	
D methods		B clig	
D presets		B curs	
F registerfallback		B dlig	
F registerfiles		B fina	
F registerfontalternative		B init	

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 psts
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 psts	N number
B rphf	T boldened-30
S script	S effect

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 blwm
B mark	B blws
B mkmk	B calt
S mode	B cjct
N number	B dist

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 liga
B vatu	N number
T dingbats	T fr
S goodies	S language
S mode	N number
N number	S script

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 cjct	B abvs

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 nukl	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 nukl
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 pnun
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
B rlig	S script

T jamoforms	B half
B l jmo	B haln
N number	S indic
B t jmo	B kern
B v jmo	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 liga
B pref	N number
B pres	B rlig
B pstf	T ligatures
B psts	S autolanguage
B rphf	S autoscript
S script	B checkmissing
T kannada-two	B curs
B abvm	B kern
B abvs	B liga
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 dist	B wipemath

T lm-math-bold

S effect

N number

T lowercasing

B lowercasing

N number

T malayalam-one

B abvm

B abvs

B akhn

B blwf

B blwm

B blws

B calt

B cjct

B dist

B half

B haln

S indic

B kern

S language

B locl

S mode

B nukt

N number

B pref

B pres

B pstf

B psts

B rphf

S script

T malayalam-two

B abvm

B abvs

B akhn

B blwf

B blwm

B blws

B calt

B cjct

B dist

B half

B haln

S indic

B kern

S language

B locl

S mode

B nukt

N number

B pref

B pres

B pstf

B psts

B rphf

S script

T math

B compactmath

B flattenaccents

B kern

S language

B mathalternates

S mathexpansion

S mode

N number

S script

B ssty

B wipemath

T math-script

B compactmath

B flattenaccents

B kern

S language

B mathalternates

S mathexpansion

S mode

N number

S script

N ssty

B wipemath

T math-scriptscript

B compactmath

B flattenaccents

B kern

S language

B mathalternates

S mathexpansion

S mode

N number
 S script
 N ssty
 B wipemath
 T math-text
 B compactmath
 B flattenaccents
 B kern
 S language
 B mathalternates
 S mathexpansion
 S mode
 N number
 S script
 B ssty
 B wipemath
 T mathematics
 B compactmath
 B flattenaccents
 B kern
 S language
 B mathalternates
 S mathexpansion
 S mode
 N number
 S script
 B wipemath
 T mixed
 T mongolian
 S autolanguage
 S autoscript
 B calt
 B checkmissing
 B curs
 B fina
 B init
 B isol
 B itlc
 B kern
 B liga
 B mark
 B medi
 B mkmk
 S mode

S mset
 N number
 B rclt
 B rlig
 S script
 S textcontrol
 B wipemath
 T nl
 S language
 N number
 S script
 T none
 B features
 S mode
 N number
 T oldstyle
 S autolanguage
 S autoscript
 B checkmissing
 B curs
 B kern
 B liga
 B mark
 B mkmk
 S mode
 N number
 B onum
 S script
 S textcontrol
 B wipemath
 T oldstylenumbers
 N number
 B onum
 T original
 S autolanguage
 S autoscript
 B checkmissing
 B curs
 B itlc
 B kern
 B liga
 B mark
 B mkmk
 S mode

N number
 S script
 S textcontrol
 B wipemath
 T oriya-one
 B abvm
 B abvs
 B akhn
 B blwf
 B blwm
 B blws
 B calt
 B cjct
 B dist
 B haln
 S indic
 B kern
 S language
 B locl
 S mode
 B nukt
 N number
 B pres
 B pstf
 B psts
 B rphf
 S script
 T oriya-two
 B abvm
 B abvs
 B akhn
 B blwf
 B blwm
 B blws
 B calt
 B cjct
 B dist
 B haln
 S indic
 B kern
 S language
 B locl
 S mode
 B nukt

N number
 B pres
 B pstf
 B psts
 B rphf
 S script
 T pl
 S language
 N number
 S script
 T primes
 N number
 B primes
 T pt
 S language
 N number
 S script
 T quality
 S expansion
 N number
 S protrusion
 T reordercombining
 N number
 B reordercombining
 T ro
 S language
 N number
 S script
 T ru
 S language
 N number
 S script
 T semitic-complete
 B analyze
 S autolanguage
 S autoscript
 B calt
 B ccmp
 B clig
 B curs
 B dlig
 B fina
 B init
 B isol

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
N number	B smcp

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 tamil-one	T telugu-one

B abvm	B pres
B abvs	B pstf
B akhn	B psts
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 psts	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
B pref	S language

- N number
- S script
- T virtualmath
- B compactmath
- B flattenaccents
- B kern
- S language
- B mathalternates
- S mathexpansion
- S mode
- N number
- S script
- B wipemath
- T vn
- S language
- N number
- S script
- T zero
- N number
- B zero

- F showcontext
- F splitcontext
- D synonyms
- D variants
- symbols** table
- T emoji
- F checked
- F resolved
- F uselibrary
- tables** table
- toeffect** function
- tracers** table
- treatments** table
- F applyfixes
- D data
- S filename
- F ignoredfile
- F report
- F trace
- typefaces** table

functions (context)

dummy function

graphics (context)

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

gzip (context)

compress function
compressed function
decompress function

load function
save function
suffix function

images (context)

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

interactions (context)

attachments data table

fields table

- F clone
- F define
- F defineset
- F insert

general table

- F getidentity
- F getidentityvariable

help table

- F collect
- F reference
- F register

javascripts table

- F addtopreamble
- F code
- D codes
- F flushpreambles

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

linkedLists data table

pages table

F setpagetransition

F setupcanvas

references table

F setcloseddocumentaction

F setclosepageaction

F setopendocumentaction

F setopenpageaction

renderings data table

interfaces (context)

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

io (basic lua)

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

job (context)

comment	function	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	table
embedded	table	D collected	
D collected		D tobesaved	
D tobesaved		positions	table
fileobjreferences	table	F b_column	
D collected		F b_region	
D tobesaved		F c	
files	table	D collected	
D collected		F column	
F context		F columnofpos	
B forcerun		F copy	
F run		F depth	
D tobesaved		F e_column	
getrandomseed	function	F e_region	
initialize	function	F enhance	
linkedlists	table	F extra	
D collected		F get	
D tobesaved		F getcolumndata	
load	function	F getfree	
loadother	function	F gethpos	
meshedup	table	F getpos	
D collected		F getreserved	
D tobesaved		F getrpos	
objects	table	F getsync	
D collected		F gettobesaved	
F get		F getvpos	
F number		F hangafter	
F page		F hangindent	
F save		F height	
F set		F hsize	
D tobesaved		N lastx	
pack	boolean	N lasty	
packversion	number	F leftskip	
pagestates	table	F lowerleft	

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

language (basic tex)

clean	function
clearhyphenation	function
clearpatterns	function
current	function
gethjcode	function
has_language	function
hyphenate	function
hyphenation	function
hyphenationmin	function

id	function
new	function
patterns	function
postexhyphenchar	function
posthyphenchar	function
preexhyphenchar	function
prehyphenchar	function
sethjcode	function
setwordhandler	function

languages (context)

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

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

layouts (context)

getcanvas	function	status	table
getpagedimensions	function	F isleftpage	
setupcanvas	function	F lefttorrightpageaction	

lfs (extra lua)

attributes	overloaded function
chdir	overloaded function
currentdir	function
dir	overloaded function
isdir	overloaded function
isfile	overloaded function
isfound	function
isreadabledir	function
isreadablefile	function
iswriteabledir	function
iswriteablefile	function

link	overloaded function
mkdir	overloaded function
mkdirs	function
modification	function
readlink	function
rmdir	overloaded function
setexecutable	function
symlink	function
symlinktarget	function
touch	overloaded function
walkdir	function

libraries (context)

basiclua	data table	extratex	data table
basictex	data table	functions	data table
builtin	data table	globals	data table
extralua	data table	optional	data table

lmx (context)

color	function
convert	function
convertfile	function
convertstring	function
einject	function
eprint	function
escape	function
finalized	function
finject	function
fprint	function
get	function
getvariables	function
htmfile	function
html	table
F a	
F td	
F th	
include	function
inherited	table
S color-background-four	
S color-background-one	
S color-background-three	
S color-background-two	
S title	
initialize	function
inject	function
lmxfile	function

loadedfile	function
make	function
new	function
overloaderror	function
popupfile	function
print	function
pv	function
report	function
reset	function
result	function
set	function
show	function
showerror	function
stripcss	function
tv	function
type	function
urlescape	function
variable	function
variables	table
S color-background-blue	
S color-background-body	
S color-background-green	
S color-background-main	
S color-background-purple	
S color-background-yellow	
S title-default	

logs (context)

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

lpdf (context)

action	function	copyunicode	function
adddocumentcolorspace	function	deferredobject	function
adddocumenttextgstate	function	delayedobject	function
adddocumentpattern	function	destinationspecification	function
adddocumentshade	function	dictionary	function
addtocatalog	function	docstring	function
addtoinfo	function	encodingvalues	table
addtonames	function	N base16	
addtopageattributes	function	N base85	
addtopageresources	function	N decoded	
addtopagesattributes	function	N encoded	
addxmpinfo	function	N plain	
annotationspecification	function	N utf16be	
array	function	N utf16le	
attachmentsymbols	function	epdf	table
boolean	function	F allcontent	
border	function	F analyzefonts	
checkedkey	function	F contentplugin	
checkedresources	function	F contenttostring	
checkedvalue	function	F contenttotext	
circularshade	function	D encryptioncodes	
close	function	F expanded	
cmykcode	function	F expandwidths	
collectedresources	function	F fontplugin	
color	function	F getpagecontent	
colorspace	function	F getstructure	
colorspaceconstants	data table	T helpers	
colorspec	function	F tounicodetable	
colorvalue	function	T image	
colorvalues	function	F close	
commentssymbols	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	
copystring	function	F parsecontent	

F producer		N PopUp	
T resolvers		N PushButton	
F destinations		N Radio	
F embeddedfiles		N RadiosInUnion	
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	flushfonts	function
T annotations		flushgroup	function
N AutoView		flushobject	function
N Hidden		flushstreamfileobject	function
N Invisible		flushstreamobject	function
N Locked		fonts	table
N LockedContents		F color_direct	
N NoRotate		F color_indirect	
N NoView		formats	data table
N NoZoom		frombytes	function
N Print		fromeight	function
N Printable		frompdfdoc	function
N ReadOnly		fromsixteen	function
N ToggleNoView		getcatalog	function
N auto		getcompression	function
N hidden		getfontname	function
N printable		getfontobjectnumber	function
T widgets		getinfo	function
N Comb		getmatrix	function
N CommitOnSelChange		getnofpages	function
N DoNotScroll		getpageproperties	function
N DoNotSpellCheck		getpagereference	function
N Edit		getpagetags	function
N FileSelect		getpos	function
N MultiLine		gettrailerid	function
N NoExport		getversion	function
N NoToggleToOff		getxformname	function
N Password		graycode	function

h_hex_2	table	N fillin	
S		N modify	
S		N print	
S		N quality	
S		prepresignature	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
lastreferredpage	function	rgbcode	function
layerreference	function	rotationcm	function
limited	function	setcompression	function
linearshade	function	setencryption	function
literal	function	setincludecidset	function
majorversion	function	setincludeprocset	function
makenametree	function	setpageorder	function
minorversion	function	setpagestate	function
noffontregistries	function	setpagetag	function
nofpages	function	setuserdata	function
null	function	setversion	function
number	function	sharedobject	function
object	function	shareobject	function
objectcompresslevel	function	shareobjectreference	function
pagereference	function	spotcode	function
patternstream	function	stream	function
pdfcolor	function	string	function
pdftimestamp	function	tocidset	function
permissions	table	toeight	function
N access		topdfdoc	function
N add		topermissions	function
N assemble		tosixteen	function
N extract		transparency	function

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

lpeg (basic lua)

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

lua (basic tex)

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

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	
registertempfile	function	F start	
starttime	number	F stop	
synctex	table	F wrapup	
F blockfilename		wrapup	function
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
badinclusions	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	ifattempty	function
context	function	include	function
convert	function	inclusion	function
count	function	inclusions	function
delete	function	index	function
depth	function	inlineverbatimim	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
displayverbatimim	function	loaddata	function
doif	function	loaded	table
doifelse	function	main	function
doifelseempty	function	match	function
doifelsetext	function	name	function
doifempty	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
raw	function
rawroot	function
rawtex	function
refatt	function
register	function
registerentity	function
removesetup	function
replace	function
resetcdata	function
resetsetups	function
resolvedentity	function
root	function
save	function
serialize	function
setaction	function
setatt	function
setattribute	function
setcdata	function
setcommandtonone	function
setcommandtotext	function
setpar	function
setparam	function
setparameter	function
setsetup	function
snippet	function

sorters	table
F add	
F compare	
F flush	
F reset	
F show	
F sort	
splitid	function
startraw	function
startunesescaped	function
stopraw	function
stopunesescaped	function
store	function
strip	function
stripped	function
tag	function
texatt	function
text	function
tobuffer	function
tofile	function
toparameters	function
toverbatim	function
verbatim	function
withindex	function
xmltexhandler	data table

math (basic lua)

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

mathematics (context)

addfallbacks	function	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
classnameses	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
F groupsetgroup		T less	
F name		T more	
D names		T zero	
F registercharacter		privatebase	number
F registergroup		registerextensible	function
F registergroupset		registersimplematrix	function
D sets		registerverboselabel	function
D variants		remapalphabets	function
dimensions	function	renderextensible	function
disablecollecting	function	renderings	table
domainlabels	table	D mappings	
domainnames	table	D numbers	
N default		D sets	
enablecollecting	function	renderset	function
extensiblecode	function	resetattributes	function
extensibles	data table	scaleparameters	function
extrabase	number	setextensibledata	function
fallbacks	table	setmathsymbol	function
F apply		sets	data table
F install		setsnapping	function
fallbackstyleattr	function	setvariant	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 inspect
tweakbeforecopyingfont	function	F keepbases
tweaks	table	F kernpairs
F accentdimensions		F kerns
F action		T kernsets
F addactuarian		T .,
F addarrows		F margins
F addbars		F message
F addcomposites		F moveitalics
F addequals		F movelimits
F addfourier		F parameters
F addmirrors		F radicalbodymargins
F addparts		F radicaldegreeanchors
F addprivates		F replace
F addrules		F replacealphabets
F addscripts		F replacerules
F bigslots		F setoptions
F checkaccents		F setovershoots
F checkspacing		F showinfo
F copyaccents		F simplifykerns
T datasets		F sortvariants
T accentdimensions		F staircase
T accent		T subsets
T over		T acenorsuvxz
T under		T bhklt
T addarrows		T d
T addscripts		T dotless
T checkspacing		T f
T copyaccents		T gjqy
T fixprimes		T horizontalfences
T fixslashes		T i
T wipecues		T integrals
F dimensions		T letterlike
F extendaccents		T mw
F fallbacks		T p

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
utfmathaccent	function		

md5 (extra lua)

HEX	function
dec	function
hex	function

sum	function
sumHEXA	function
sumhexa	function

metapost (context)

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

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

registerscript	function	N in	
registertokens	function	N mm	
remappedtext	function	N pc	
remaptext	function	N pt	
reporterror	function	N px	
reportsvgfonts	function	svgglyphstomp	function
reset	function	svgshapestomp	function
resetbackendoptions	function	svgshapestopdf	function
resetlastlog	function	svgsplitcolor	function
resetplugins	function	svgtomp	function
run	function	svgtopdf	function
runinternal	function	sxsy	function
runscript	function	tex	table
scanparameters	function	F get	
scripterror	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 %		N tokenlist	
N bp		N transform	
N cm		N unknownboolean	
N em		N unknownnep	
N ex		N unknownpath	

N unknownpen	typesvgpage	function
N unknownpicture	unload	function
N unknownstring	untagvariable	function
N unsuffixedmacro	variables	table
N vacuous		

mime (context)

b64 function

decode function

decodet table

F base64

F quoted-printable

dot function

encode function

encodet table

F base64

F quoted-printable

eol function

normalize function

qp function

qpwrp function

report function

stuff function

unb64 function

unqp function

wrap function

wrapt table

F base64

F default

F quoted-printable

F text

wrp function

mp (context)

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

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

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

mplib (extra tex)

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

noads (context)

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

node (basic tex)

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

F getlist
F getlistdimensions
F getnext
F getnodes
F getnormalizedline
F getnucleus
F getnumerator
F getoffsets
F getoptions
F getorientation
F getparstate
F getpenalty
F getpost
F getpre
F getprev
F getprime
F getpropertystable
F getproperty
F getreplace
F getrightdelimiter
F getruledimensions
F getscale
F getscales
F getscrip
F getscripts
F getshift
F getslant
F getspeciallist
F getstate
F getsub
F getsubpre
F getsubtype
F getsup
F getsuppre
F gettop
F gettopdelimiter
F gettotal
F getusedattributes
F getweight
F getwhd
F getwidth
F getwordrange
F getxscale
F getxyscales

F getsyscale
F gluetostring
F hasattribute
F hasdimensions
F hasdiscoption
F hasfield
F hasgeometry
F hasglyph
F hasglyphoption
F hpack
F hyphenating
F id
F ignoremathskip
F insertafter
F insertbefore
F isboth
F ischar
F isdirect
F isglyph
F isitalicglyph
F isloop
F isnext
F isnextchar
F isnextglyph
F isnode
F isprev
F isprevchar
F isprevglyph
F issimilarglyph
F isspeciallist
F isvalid
F iszeroglue
F kerning
F lastnode
F length
F ligaturing
F makeextensible
F migrate
F mlisttohtml
F naturalhsize
F naturalwidth
F new
F newcontinuationatom
F newmathglyph

F newtextglyph
F patchattributes
F patchparshape
F prependbeforehead
F protectglyph
F protectglyphs
F protectglyphsnone
F protrusionskipable
F rangedimensions
F remove
F removefromlist
F repack
F reverse
F serialized
F setanchors
F setattribute
F setattributelist
F setattributes
F setboth
F setbottom
F setbottomdelimiter
F setbox
F setchar
F setchardict
F setchoice
F setclass
F setcontrol
F setdata
F setdegree
F setdelimiter
F setdenominator
F setdepth
F setdirection
F setdisc
F setdiscpart
F setexcept
F setexpansion
F setfam
F setfield
F setfont
F setgeometry
F setglue
F setglyphdata
F setheight

F setindex
F setinputfields
F setkern
F setlanguage
F setleader
F setleftdelimiter
F setlink
F setlist
F setnext
F setnucleus
F setnumerator
F setoffsets
F setoptions
F setorientation
F setpenalty
F setpost
F setpre
F setprev
F setprime
F setproperty
F setreplace
F setrightdelimiter
F setruledimensions
F setscales
F setscript
F setscripts
F setshift
F setslant
F setspeciallist
F setsplit
F setstate
F setsub
F setsubpre
F setsubtype
F setsup
F setsuppre
F settop
F settopdelimiter
F setttotal
F setweight
F setwhd
F setwidth
F show
F size

F slide		getproperty	function
F softenhyphens		gluetostring	function
F startofpar		hasattribute	function
F subtypes		hasfield	function
F tail		hasglyph	function
F todirect		hpack	function
F tonode		hyphenating	function
F tostring		id	function
F tovaliddirect		insertafter	function
F traverse		insertbefore	function
F traversechar		instock	function
F traversecontent		inuse	function
F traverseglyph		isnode	function
F traverseid		iszeroglue	function
F traverseitalic		kerning	function
F traverseleader		lastnode	function
F traverselist		length	function
F type		ligaturing	function
F types		makeextensible	function
F unprotectglyph		mlisttohlist	function
F unprotectglyphs		new	function
F unsetattribute		protectglyph	function
F unsetattributes		protectglyphs	function
F usedlist		protrusionskipppable	function
F usesfont		rangedimensions	function
F verticalbreak		remove	function
F vpack		serialized	function
F write		setattribute	function
F xscaled		setfield	function
F yscaled		setglue	function
effectiveglue	function	setproperty	function
endofmath	function	show	function
family_font	function	size	function
fields	function	slide	function
findattribute	function	subtypes	function
flattendiscretionaries	function	tail	function
flushlist	function	todirect	function
flushnode	function	tonode	function
free	function	tostring	function
getattribute	function	traverse	function
getcachestate	function	traverseid	function
getfield	function	type	function
getglue	function	types	function
getpropertyestable	function	unprotectglyph	function

unprotectglyphs
unsetattribute
usedlist

function
function
function

usesfont
vpack
write

function
function
function

nodes (context)

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

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

nodecodes**nopts****nuts**

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

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

F firstglyph
 F firstglyphnode
 F firstitalicglyph
 F flattendiscretionaries
 F flattenleaders
 F flush
 F flushlist
 F flushnode
 F free
 F freeze
 F fullhpack
 F getanchors
 F getattr
 F getattribute
 F getattributelist
 F getattributes
 F getattrlist
 F getattrs
 F getboth
 F getbottom
 F getbottomdelimiter
 F getbox
 F getboxglue
 F getchar
 F getchardict
 F getcharspec
 F getchoice
 F getclass
 F getcomponents
 F getcornerkerns
 F getdata
 F getdegree
 F getdelimiter
 F getdenominator
 F getdepth
 F getdirection
 F getdisc
 F getdiscpart
 F getdiscretionary
 F getexcept
 F getexpansion
 F getfam
 F getfield
 F getfont

F getgeometry
F getglue
F getglyphdata
F getglyphdimensions
F getheight
F getid
F getindex
F getinputfields
F getkern
F getkerndimension
F getlang
F getlanguage
F getleader
F getleftdelimiter
F getlist
F getlistdimensions
F getmiddle
F getmiddledelimiter
F getnext
F getnormalizedline
F getnucleus
F getnumerator
F getoffsets
F getoptions
F getorientation
F getparstate
F getpenalty
F getpost
F getpre
F getprev
F getprime
F getprop
F getreplace
F getrightdelimiter
F getruledata
F getruledimensions
F getscale
F getscales
F getscrip
F getscripts
F getshift
F getslant
F getspeciallist
F getstate

F getsub
F getsubpre
F getsubtype
F getsup
F getsuppre
F getsurround
F gettop
F gettopdelimiter
F gettotal
F getusedattributes
F getvalue
F getweight
F getwhd
F getwidth
F getwordrange
F getxscale
F getxyscales
F getsyscale
F gluetostring
F hasattribute
F hasdimensions
F hasdiscoption
F hasfield
F hasgeometry
F hasglyph
F hasglyphoption
F hpack
F hyphenating
F ignoremathskip
F insertafter
F insertbefore
F insertlistafter
F is_display_math
F isboth
F ischar
F isdirect
F isdone
F isglyph
F isitalicglyph
F isnext
F isnextchar
F isnextglyph
F isnode
F isnut

F isprev	F imagerule
F isprevchar	F indentskip
F isprevglyph	F italickern
F issimilarglyph	F kern
F iszeroglue	F latelua
F kerning	F leader
F lastnode	F lefthangskip
F length	F leftmarginkern
F ligaturing	F leftskip
F link	F lineskip
F linked	F literal
F locate	F luaboundary
F migrate	F mathchar
F migratebox	F mathtextchar
F mlisttohlist	F negatedglue
F naturalhsize	F noad
F naturalwidth	F originliteral
F nestedtracedslide	F outlinerule
F new	F pageliteral
F newcontinuationatom	F penalty
F newmathglyph	F radical
F openup	F rawliteral
F patchattributes	F register
F patchparshape	F restore
T pool	F righthangskip
F accent	F rightmarginkern
F baselineskip	F rightskip
F boundary	F rule
F boxrule	F save
F choice	F savepos
F cleanup	F setmatrix
F delim	F setstate
F delimiter	F shrink
F direction	F spacefontkern
F directliteral	F startrotation
F disc	F stock
F emptyrule	F stretch
F fence	F strutrue
F fontkern	F subbox
F fraction	F sublist
F glue	F temp
F gluespec	F usage
F glyph	F userdefined
F hlist	T userids

F usernode	F setchardict
F userrule	F setchoice
F virtualrule	F setclass
F vlist	F setcomponents
F wordboundary	F setdata
F prepend	F setdegree
F prependbeforehead	F setdelimiter
F processranges	F setdenominator
F processwords	F setdepth
F protectglyph	F setdirection
F protectglyphs	F setdisc
F protectglyphsnone	F setdiscpart
F protrusionskipable	F setdiscretionary
F rangedimensions	F setexcept
F rawprop	F setexpansion
F reference	F setfam
F rehpick	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 setattr	F setnumerator
F setattribute	F setoffsets
F setattributelist	F setoptions
F setattributes	F setorientation
F setattrlist	F setparproperty
F setattrts	F setpenalty
F setboth	F setpost
F setbottom	F setpre
F setbox	F setprev
F setboxglue	F setprime
F setchar	F setprop

F setreplace	F tracedslide
F setrightdelimiter	F traverse
F setruledata	F traversesechar
F setruledimensions	F traversesecontent
F setscale	F traverseseglyph
F setscales	F traverseseid
F setscript	F traverseseitalic
F setscripts	F traverseseleader
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 softenhyphens	F whatsit
F somepenalty	T treversers
F somespace	F char
F splitbox	F content
F startofpar	F glyph
F striprange	F leader
F tail	F list
F takeattr	F node
F takebox	T typesetters
F takelist	F tohbox
F theprop	F tohpack
F tonode	F tonodes
F tonodes	F to vbox
F tonut	F tovpack
F tosequence	F unprotectglyph
F toString	F unprotectglyphs

F unsetattribute		F savepos	
F unsetattributes		F setmatrix	
F untracedslide		F stock	
F usedlist		F usage	
F usesfont		F usernode	
F verticalbreak		F vlist	
F vianodes		prepend	function
F vianuts		print	function
F vpack		processors	table
F write		F alignment_filter	
F xscaled		F append_line_filter	
F yscaled		F glyph_run	
packlist	function	F post_linebreak_filter	
parcodes	data table	F pre_linebreak_filter	
penaltycodes	data table	F trace_glyph_run_a	
plugindata	table	F trace_glyph_run_b	
F finalizer		properties	table
F initializer		T data	
S name		pts	function
T namespace		radicalcodes	data table
N attribute		references	table
D data		N attribute	
F enable		T done	
F handler		F handler	
F register		T stack	
D registered		reheap	function
D values		remove	function
F processor		repackhlist	function
points	function	replace	function
pool	table	report	function
F baselineskip		rightmarginwidth	function
F cleanup		rulecodes	data table
F directliteral		rules	table
F glyph		F handler	
F hlist		F process	
F latelua		F set	
F leader		F userrule	
F lineskip		serialize	function
F literal		serializebox	function
F luaboundary		serialized	function
F originliteral		setattr	function
F register		setattribute	function
F restore		setattrlist	function
F save		setboth	function

setbox	function	F enablegroup	
setboxtonaturalwd	function	F freeze	
setchar	function	F freezegroup	
setfield	function	F new	
setfont	function	F prependaction	
setleader	function	F removeaction	
setlink	function	F replaceaction	
setlist	function	F restart	
setnext	function	F setaction	
setprev	function	F showactions	
setproperty	function	F table	
shadows	table	tobasepoints	function
F handler		tocentimeters	function
F set		tociceros	function
shifts	table	todidots	function
F handler		todimen	function
F set		toinches	function
showboxes	function	tomillimeters	function
showlist	function	tonode	function
showsimplelist	function	tonodes	function
skipcodes	data table	tonut	function
snapshots	table	topicsas	function
F getsamples		topoints	function
F resetsamples		toscaledpoints	function
F takesample		tosequence	function
somepenalty	function	tostring	function
somespace	function	totable	function
specialskipcodes	table	totree	function
splitbox	function	toutf	function
startofpar	function	tracers	table
stripdiscretionaries	function	T colors	
stripping	table	F reset	
T glyphs		F set	
F set		F setlist	
subtypes	data table	F directions	
tail	function	F fontchar	
takeattr	function	T frequencies	
takebox	function	F register	
tasks	table	T pool	
F actions		T nodes	
F appendaction		F rule	
F disableaction		T nuts	
F disablegroup		F rule	
F enableaction		F resetproperties	

F rule		F enable
F setlist		T filters
F setproperties		N hglue
F start		N hkern
T steppers		N hpenalty
F check		N vglue
F codes		N vkern
F features		N vpenalty
F font		F getusedfont
F glyphs		F handler
F message		F markfonts
F messages		T modes
F nofsteps		N boundary
F register		N depth
F reset		N dir
F start		N discretionary
F stop		N expansion
F stop		N fontkern
T transparencies		N glue
F reset		N glyph
F set		N hbox
F setlist		N hglue
traverse	function	N hkern
traverseid	function	N hpenalty
typesetters	table	N insert
F hbox		N italic
F hpack		N kern
F tohbox		N line
F tohpack		N marginkern
F tonodes		N mark
F tovbox		N math
F tovpack		N mathglue
F vpack		N mathkern
unsetattribute	function	N origin
upcomingproperties	function	N par
usedlist	function	N penalty
vianodes	function	N simple
vianuts	function	N simplehbox
visualizebox	function	N simplevbox
visualizers	table	N simplevtop
F attribute		N space
T attributes		N strut
F box		N user
F definelayer		N vbox

N vglue	F setfont	
N vkern	F setlayer	
N vpenalty	F setruledglyph	
N vtop	F setvisual	
N whatsit	vpack	function
F register	whatsitcodes	data table
F registercache	write	function

number (context)

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

objects (context)

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

optional (context)

curl table

F escape
F fetch
F getversion
F initialize
F unescape

foreign table

F abivalues
F getbuffer
F initialize
F load
F newbuffer
F totable
F types

ghostscript table

F execute
F initialize

graphicsmagick table

F execute
F initialize

hb table

F getshapers
F getversion
F initialize
F loadfont
F shapestring

imagemagick table

F execute
F initialize

kpse table

F expand_braces
F expand_path
F expand_var
F find_file
F find_files
F get_file_types
F initialize
F readable_file
F set_program_name
F var_value

library table

F load

loaded table

lz4 table

F compress
F decompresssize
F framecompress
F framedecompress
F initialize

lzma table

F compress
F decompress
F initialize

lzo table

F compress
F decompresssize
F initialize

mujs table

F dofile
F execute
F initialize
F reset
F setclosefile
F setconsole
F setfindfile
F setopenfile
F setreadfile
F setseekfile

mysql table

F close
F execute
F getmessage
F initialize
F open

openssl table

F getversion
F initialize
F sign
F verify

postgres table

F close
F execute

F getmessage

F initialize

F open

sqlite **table**

F close

F execute

F getmessage

F initialize

F open

zint

table

F execute

F initialize

zstd **table**

F compress

F decompress

F initialize

os (basic lua)

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

package (basic lua)

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

pagebuilders (context)

columnsets table

- F add
- F block
- F check
- F currentcolumn
- F define
- F finishflush
- F flushareas
- F flushcolumn
- F flushrest
- F goto
- F noto
- F prepareflush
- F put
- F registerarea
- F reset
- F setarea

- F sethsize
- F sethspace
- F setlines
- F setproperties
- F setstart
- F setvsize

injections table

- F flushafter
- F flushbefore
- F save

mixedcolumns table

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

pdf (context)

immediateobj function

pdf (extra tex)

arraytotable	function
close	function
closestream	function
dictionarytotable	function
getarray	function
getboolean	function
getbox	function
getcatalag	function
getdictionary	function
getencodingvalues	function
getfromarray	function
getfromdictionary	function
getfromobject	function
getfromreference	function
getfromstream	function
getinfo	function
getinteger	function
getmemoryusage	function
getname	function
getnofobjects	function
getnofpages	function

getnumber	function
getobjectrange	function
getpage	function
getpages	function
getpermissions	function
getsize	function
getstatus	function
getstream	function
getstring	function
gettrailer	function
getversion	function
new	function
open	function
openfile	function
openstream	function
pagestotable	function
readfromstream	function
readwholestream	function
type	function
unencrypt	function

physics (context)

units table

F registershortcut

F registerunit

D tables

pngdecode (extra tex)

applyfilter function

expand function

interlace function

makemask function

splitmask function

tocmyk function

tomask function

posit (extra lua)

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

potrace (extra tex)

checked	function	getbitmap	function
concat	function	new	function
contourplot	function	process	function
convert	function	setbitmap	function
count	function	stripped	function
flush	function	totable	function
free	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 combiinlist		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
F nofregistered		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 nofdatasets		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		usedataset	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	

regimes (context)

backmapping	data table
cleanup	function
disable	function
enable	function
fromregime	function
list	function

mapping	data table
pop	function
process	function
push	function
toregime	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	F collectstructure	
expandpathfromvariable	function	F currentcomponent	
expansion	function	F currentenvironment	
extendtexmfvariable	function	F currentproduct	
filtered_from_content	function	F currentproject	
find_file	function	F currentstructure	
find_files	function	F justacomponent	
findbinfile	function	F namelist	
findctxfile	function	D processors	
finders	data table	F productcomponent	
findfile	function	F usefile	

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

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

sandbox (context)

disablelibraries	function
disablerunners	function
enable	function
filehandlerone	function
filehandlertwo	function
finalizer	function
getrunner	function
initializer	function
iohandler	function
logcalls	function
logfiles	function
original	function
overload	function

possiblepath	function
redefine	function
register	function
registerbinary	function
registerlibrary	function
registerroot	function
registerrunner	function
report	function
setfilenamelogger	function
setlogger	function
setreporter	function
settrace	function
validfilename	function

scripts (context)

autofontfeature table

F disable
F enable
F handler

colors data table

decomposehangul function

defaults table

N inter_char_half_shrink_factor
N inter_char_half_stretch_factor
N inter_char_hangul_penalty
N inter_char_quarter_shrink_factor
N inter_char_quarter_stretch_factor
N inter_char_shrink_factor
N inter_char_stretch_factor
N inter_word_stretch_factor

getdata function

getinjector function

getsplitter function

getstatus function

handlers data table

helpers data table

injectors data table

inserters table

F nobreakspace_after

F nobreakspace_before

F space_after

F space_before

F zerowidthspace_after

F zerowidthspace_before

installdataset function

installmethod function

numbertodataset data table

numbertohandler data table

reset function

set function

setstatus function

splitters data table

set (context)

contains function

create function

tolist function

tonumber function

totable function

sha2 (extra lua)

HASH256	function
HASH384	function
HASH512	function
HEX256	function
HEX384	function
HEX512	function
digest256	function
digest384	function
digest512	function

hash256	function
hash384	function
hash512	function
hex256	function
hex384	function
hex512	function
sum256	function
sum384	function
sum512	function

sio (extra lua)

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

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

socket (extra lua)

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

S resent-bcc
 S resent-cc
 S resent-date
 S resent-from
 S resent-message-id
 S resent-reply-to
 S resent-sender
 S resent-to
 S retry-after
 S return-path
 S sender
 S server
 S smtp-remote-recipient
 S status
 S subject
 S te
 S to
 S trailer
 S transfer-encoding
 S upgrade
 S user-agent
 S vary
 S via
 S warning
 S will-retry-until
 S www-authenticate
 S x-mailer
 F lower
 F normalize
http table
 N TIMEOUT
 S USERAGENT
 F genericform
 F open
 F request
newtry function

protect function
report function
select function
sink function
sinkt table
 F close-when-done
 F default
 F http-chunked
 F keep-open
skip function
sleep function
source function
sourcet table
 F by-length
 F default
 F http-chunked
 F until-closed
tcp function
tcp4 function
tcp6 function
tp table
 N TIMEOUT
 F connect
try function
udp function
udp4 function
udp6 function
url table
 F absolute
 F build
 F build_path
 F escape
 F parse
 F parse_path
 F unescape

sorters (context)

basicsorter function

comparers table

F basic

constants table

S defaultdigits

S defaultlanguage

S defaultmethod

N digitmaximum

N digitoffset

N ignoredoffset

N replacementoffset

T validmethods

B ch

B mc

B mm

B pc

B pm

B uc

B zc

B zm

definitions data table

firstofsplit function

packch function

packuc function

replacementlist function

setlanguage function

sort function

splitters table

F utf

strip function

tracers data table

update function

sparse (extra lua)

concat	function
get	function
max	function
min	function
new	function

range	function
restore	function
set	function
traverse	function
wipe	function

statistics (context)

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

status (basic tex)

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

storage (context)

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

streams (context)

collect	function
disable	function
enable	function
flush	function
initialize	function

push	function
start	function
stop	function
synchronize	function

string (basic lua)

autodouble	function	longtostring	function
autosingle	function	lower	function
booleanstring	function	match	function
byte	function	nospaces	function
bytepairs	function	nspace	table
bytes	function	octtointeger	function
bytetable	function	optionalquoted	function
char	function	pack	function
characterpairs	function	packrowscolumns	function
characters	function	packsize	function
checkedsplit	function	quote	function
chrtointeger	function	quoted	function
collapsespaces	function	rep	function
containsws	function	replacenewlines	function
count	function	reverse	function
dawson	function	split	function
dectointeger	function	splitlines	function
dump	function	splitup	function
erf	function	strip	function
erfc	function	sub	function
erfcx	function	texhashed	function
erfi	function	texnewlines	function
escapedpattern	function	tformat	function
escapedquotes	function	toHEX	function
explode	function	toboollean	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	tounicode16	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	unescapedquotes	function
linetable	function	unpack	function

unquote	function
unquoted	function
upper	function
utf16toutf8	function
utfcharacter	function
utfcharacters	function
utfcharacter table	function
utf length	function
utfpadd	function

utfpadding	function
utfvalue	function
utfvalues	function
utfvalue table	function
valid	function
voigt	function
voigt_hwhm	function
wordsplitter	function

structures (context)

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

F title	
F touserdata	
inserts	table
F attach	
D data	
F define	
F detach	
F getdata	
F getlocation	
F getname	
F getnumber	
F nofdetached	
F setlocation	
F setup	
D stored	
itemgroups	table
D collected	
D tobesaved	
lists	table
F addto	
F analyze	
B autoreorder	
D cached	
D collected	
F discard	
F enhance	
T enhancers	
F external	
F filter	
F formulainumber	
F getresult	
F groupindex	
F hasnumberdata	
F haspagedata	
F hastitledata	
F integrate	
F iscached	
D kinds	
F label	
F location	
D names	
F number	
D ordered	
F page	

F popnesting	
F prefix	
F prefixednumber	
F prefixedpage	
F process	
D pushed	
F pushnesting	
F rawnumber	
F realpage	
F reordered	
T result	
F savedlistnumber	
F savedlistprefixednumber	
F savedlisttitle	
D sectionblocks	
F sectionnumber	
F size	
F title	
D tobesaved	
F use	
F userdata	
F uservalue	
marks	table
F number	
F title	
notes	table
F check_spacing	
F checkpagechange	
F define	
F doifonsamepageasprevious	
F get	
F getdeltapage	
F getinternal	
F getn	
F getstate	
F hascontent	
F internal	
F internalid	
F listindex	
D numbers	
F ordered	
F postpone	
F resetpostponed	
F restore	

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

- F reset
- D runners
- F set
- F setandgetattribute
- F setinternalreference
- F setlinkmethod
- F setnextinternal
- F setnextorder
- F setreferencerealpage
- F setstructure
- D specials
- F splitcomponent
- F splitprefix
- F splitreference
- F synchronizepage
- T testrunners
 - F inner
 - F special
 - F special operation
 - F special operation with arguments

- T testspecials
 - F deltapage
 - F i
 - F internal
 - F page
 - F realpage
 - F section
 - F userpage
- D tobereferred
- D tobesaved
- D tracedpages
- T urls
 - T data
 - F define
 - F found
 - F get
 - F untex
- D usedinternals
- D usedviews
- F valid

registers
table

- F analyze
- D collected
- F compare

- F define
- F enhance
- F extend
- F filter
- F filtercollected
- F finalize
- F findinternal
- F flush
- F get
- F integrate
- F prepare
- F process
- F setmethod
- F sort
- F store
- D tobesaved
- F tweak
- F unique
- F use
- F userdata

sections
table

- F autodepth
- F cct
- D collected
- F current
- F currentblock
- F currentid
- F currentlevel
- F currentsectionindex
- F depthnumber
- F finddata
- F findnumber
- F fullnumber
- F getcurrentlevel
- F getlevel
- F getnumber
- F internalreference
- D levelmap
- D levels
- F matchingtilldepth
- F numberatdepth
- F numbers
- F popblock
- F prefixedconverted

- F pushblock
- F register
- D registered
- F reportstructure
- F save
- T sectionblockdata
 - T bodypart
 - S bookmark
- F set
- F setblock
- F setchecker
- F setentry
- F setinitialblock
- F setlevel
- F setnumber
- F showstructure
- F structuredata
- F title
- D tobesaved
- F typesetnumber
- F userdata
- B verbose

sets table

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

specials table

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

synonyms table

- F analyzed
- D collected
- F compare
- F define
- F enhance
- F filter
- F finalize
- F flush
- F isshown
- F isused
- F meaning

- F pages
- F prepare
- F process
- F register
- F registershown
- F registerused
- F reset
- F resetall
- F resetlist
- F resetshown
- F resetused
- F sort
- F synonym
- D tobesaved

tags table

- T backend
- T checks
 - F marginanchor
 - F margintext
 - F math
 - F mrow
 - F mtable
- T destinationhash
- T extras
 - F adddestination
 - F addimplicit
 - F addinternal
 - F addreference
 - F combination
 - F combinationpair
 - F delimitedsymbol
 - F description
 - F descriptionsymbol
 - F document
 - F float
 - F formulacontent
 - F image
 - F item
 - F itemgroup
 - F link
 - F listitem
 - F mmultiscripts
 - F mover
 - F msub

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 setattributefield
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 gettablecell	F setupexport
F gettabulatecell	F setuserproperties
F handler	D specifications
T ignored	F start

F stop

T usewithcare

F strip

D taglist

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	setmetatablenewindex	function
fastcopy	function	sort	function
fastserialize	function	sorted	function
filtered	function	sortedhash	function
flattened	function	sortedhashkeys	function
fromhash	function	sortedhashonly	function
getmetatablekey	function	sortedindexonly	function
getn	function	sortedkeys	function
has_one_entry	function	sortedpairs	function
hashed	function	sparse	function
identical	function	strip	function
imerge	function	sub	function
imerged	function	swapped	function
insert	function	tocontext	function
is_empty	function	tocsv	function
is_simple_table	function	tofile	function
keys	function	tohandle	function
load	function	tohash	function
loweredkeys	function	toxml	function
makewweak	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	expandasvalue	function
attribute	table	experiments	data table
automigrationcodes	data table	extraprimitives	function
autoparagraphcodes	data table	fatalerror	function
badness	function	fillcodes	data table
boundaries	table	flagcodes	data table
D names		fontidentifier	function
D numbers		fontname	function
F system		forcehmode	function
box	table	forceinputstatefile	function
boxresources	table	forceinputstateline	function
F getbox		fprint	function
F getdimensions		frozenparcodes	data table
F save		get	function
F use		getalignmentcontextvalues	function
breakcodes	data table	getamcode	function
buildcodes	data table	getappendlinecontextvalues	function
catcode	table	getattribute	function
cccode	table	getautomigrationvalues	function
charactercontrolcodes	data table	getautoparagraphvalues	function
charactertagcodes	data table	getbox	function
chardef	function	getboxdir	function
classoptioncodes	data table	getboxresourcebox	function
codes	table	getboxresourcedimensions	function
conditionals	data table	getbreakcontextvalues	function
constants	data table	getbuildcontextvalues	function
count	table	getcardinalvalue	function
cprint	function	getcatcode	function
ctdcatcodes	number	getcccode	function
ctxcatcodes	number	getcharactercontrolvalues	function
definefont	function	getcharactertagvalues	function
delcode	table	getcount	function
dimen	table	getdelcode	function
dimensiondef	function	getdelcodes	function
directioncodes	data table	getdimen	function
directives	data table	getdimensionvalue	function
discoptioncodes	data table	getdirectionvalues	function
dontcomplain	function	getdiscoptionvalues	function
doublescriptoptioncodes	data table	getdiscstatevalues	function
enableprimitives	function	getdoublescriptoptionvalues	function
error	function	geterrorvalues	function

getfillvalues	function	getmath	function
getflagvalues	function	getmathclassoptionvalues	function
getfloat	function	getmathcode	function
getfontofffamily	function	getmathcodes	function
getfrozenparvalues	function	getmathcontrolvalues	function
getglue	function	getmathdir	function
getglueoptionvalues	function	getmathgluevalues	function
getglyphdata	function	getmathoptionvalues	function
getglyphoptionvalues	function	getmathparametervalues	function
getglyphscales	function	getmathscriptordervalue	function
getglyphscript	function	getmathscriptsmodevalues	function
getglyphstate	function	getmathstylenamevalues	function
getgroupvalues	function	getmathstylevalues	function
gethccode	function	getmathstylevariant	function
gethelptext	function	getmathsurroundvalues	function
gethmcode	function	getmathvariantpresets	function
gethyphenationvalues	function	getmathvariantvalues	function
getitypes	function	getmeasure	function
getinputstatefile	function	getmode	function
getinputstateline	function	getmodevalues	function
getinputstatemode	function	getmuglue	function
getinsertcontent	function	getmuskip	function
getinsertdepth	function	getnest	function
getinsertdistance	function	getnestlevel	function
getinsertheight	function	getnoadooptionvalues	function
getinsertlimit	function	getnormalizelinevalues	function
getinsertmultiplier	function	getnormalizeparvalues	function
getinsertwidth	function	getoutputactive	function
getintegervalue	function	getpacktypevalues	function
getinteraction	function	getpagecontextvalues	function
getinteractionmodes	function	getpagestate	function
getiovalues	function	getparametermodevalues	function
getkerneloptionvalues	function	getparcontextvalues	function
getlargestusedmark	function	getpardir	function
getlccode	function	getparmodevalues	function
getlinebreakstatevalues	function	getparstate	function
getlinedir	function	getpartriggervalue	function
getlist	function	getpenaltyoptionvalues	function
getlistanchorvalues	function	getpositvalue	function
getlistgeometryvalues	function	getprepoststatevalues	function
getlistsignvalues	function	getprimitiveorigins	function
getlocalbox	function	getprotrusionboundaryvalues	function
getlocallevel	function	getregisterindex	function
getmark	function	getruleoptionvalues	function

getrunstatevalues	function	luacatcodes	number
getsfcode	function	magicconstants	table
getshapingpenaltiesvalues	function	N assumedmathcontrol	
getskip	function	N awfulbad	
getspecialmathclassvalues	function	N decentcriterion	
getspecificationoptionvalues	function	N defaultcatcodetable	
gettextcontrolvalues	function	N defaultcharactercontrol	
gettextdir	function	N defaultdeadcycles	
gettoks	function	N defaulteqnogapstep	
getuicode	function	N defaulthangafter	
getunitclassvalues	function	N defaultoutputbox	
glue	table	N defaultpredisplaygap	
glueoptioncodes	data table	N defaulttrue	
glyphoptioncodes	data table	N defaultspacefactor	
groupcodes	data table	N defaulttolerance	
hashtokens	function	N deplorable	
hccode	table	N ejectpenalty	
hmcode	table	N ignoredepth	
hshcatcodes	number	N infinitebad	
hyphenationcodes	data table	N infinitepenalty	
ifs	data table	N infinity	
inimatcodes	number	N largewidthexcess	
integerdef	function	N loosecriterion	
interactioncodes	data table	N mathallclass	
isattribute	function	N mathbeginclass	
isbox	function	N mathdefaultpenalty	
iscount	function	N mathendclass	
isdefined	function	N mathfirstuserclass	
isdimen	function	N mathlastuserclass	
isfloat	function	N maxattributeregisterindex	
isglue	function	N maxboxregisterindex	
ismuglue	function	N maxbytecodeindex	
ismuskip	function	N maxcalculatedbadness	
isprintable	function	N maxcardinal	
isskip	function	N maxcategorycode	
istoks	function	N maxcharactercode	
lastnodetype	function	N maxdatavalue	
lccode	table	N maxdimen	
linebreak	function	N maxdimenregisterindex	
linebreakstatecodes	data table	N maxdimension	
listanchorcodes	data table	N maxdimensionregisterindex	
listgeometrycodes	data table	N maxendlinecharacter	
lists	table	N maxfloatregisterindex	
listsigncodes	data table	N maxfontadjustshrinkfactor	

N maxfontadjuststep	N presetrulethickness	
N maxfontadjuststretchfactor	N runningrule	
N maxfunctionreference	N smallstretchability	
N maxglueregisterindex	N specialspacefactor	
N maxhalfvalue	N texeqtbsize	
N maxhalfword	N texhashprime	
N maxinteger	N texhashsize	
N maxintegerregisterindex	N two	
N maxintregisterindex	N undefinedmathparameter	
N maxlimitedscale	N unity	
N maxmarkindex	N unusedattributevalue	
N maxmathclasscode	N unusedmathfamily	
N maxmathfamilyindex	N unusedmathstyle	
N maxmathscalingfactor	N unusedscriptvalue	
N maxmathstylescale	N unusedstatevalue	
N maxmuglueregisterindex	N zeroglu	
N maxnewlinecharacter	mathchardef	function
N maxnofbytecodes	mathcode	table
N maxnofcatcodetables	mathcontrolcodes	data table
N maxnoffonts	mathoptioncodes	data table
N maxnoflanguages	mathparametercodes	data table
N maxnofmarks	mathscriptordercodes	data table
N maxnofmathfamilies	mathscriptsmodecodes	data table
N maxquarterword	modelevels	table
N maxscalefactor	N horizontal	
N maxsizeofword	N math	
N maxspacefactor	N unset	
N maxtoksregisterindex	N vertical	
N maxtwinlength	modes	data table
N mincardinal	mprint	function
N mindatavalue	muglue	table
N mindimen	muskip	table
N mindimension	nest	table
N minhalfword	nilcatcodes	number
N mininfinity	noadoptioncodes	data table
N mininteger	normalizelinecodes	data table
N minquarterword	normalizeparcodes	data table
N minscalefactor	notcatcodes	number
N minspacefactor	number	function
N nocatcodetable	parcontextcodes	data table
N null	partriggercodes	data table
N nullflag	penaltyoptioncodes	data table
N nullfont	poplocal	function
N onebp	popsavelevel	function

posit	table	setinputstatemode	function
positdef	function	setinsertcontent	function
preparelinebreak	function	setinsertdistance	function
primitives	function	setinsertlimit	function
print	function	setinsertmultiplier	function
protrusionboundarycodes	data table	setintegervalue	function
prtcatcodes	number	setinteraction	function
pushlocal	function	setlccode	function
pushsavelevel	function	setlinedir	function
quitlocal	function	setlist	function
quittoks	function	setlocalbox	function
resetparagraph	function	setmath	function
rlncatcodes	number	setmathcode	function
romannumeral	function	setmathdir	function
round	function	setmuglue	function
ruleoptioncodes	data table	setmuskip	function
runlocal	function	setnest	function
runstring	function	setpardir	function
runtoks	function	setpositvalue	function
saveboxresource	function	setrunstate	overloaded function
scale	function	setsfcode	function
scantoks	function	setskip	function
set	function	settetxtdir	function
setamcode	function	settoks	function
setattribute	function	setuccode	function
setbox	function	sfcode	table
setboxdir	function	shapingpenaltiescodes	data table
setcardinalvalue	function	shiftparshape	function
setcatcode	function	shipout	function
setcccode	function	showcontext	function
setconditional	function	skip	table
setcount	function	snapshotpar	function
setdelcode	function	sp	function
setdimen	function	specialmathclasscodes	data table
setdimensionvalue	function	specificationoptioncodes	data table
setfloat	function	splitbox	function
setglue	function	sprint	function
setglyphdata	function	stringtocodesbitmap	function
setglyphscript	function	systemmodes	data table
setglyphstate	function	takebox	function
sethccode	function	texcatcodes	number
sethmcode	function	textcontrolcodes	data table
setinputstatefile	function	toks	table
setinputstateline	function	tonumber	function

toscaled	function	uccode	table
tpacatcodes	number	uprint	function
tpbcatcodes	number	useboxresource	function
tprint	function	userdiscoptioncodes	data table
trackers	data table	userglyphoptioncodes	data table
triggerbuildpage	function	vrbcacodes	number
txtcatcodes	number	write	function

texconfig (basic tex)

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

texio (basic tex)

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

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

token (basic tex)

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

peeknextexpanded	function	scan_value	function
pop_macro	function	scan_word	function
popmacro	function	scanargument	function
push_macro	function	scanbox	function
pushmacro	function	scancardinal	function
put_back	function	scanchar	function
put_next	function	scancmdchr	function
putback	function	scancmdchrexploded	function
putnext	function	scancode	function
save_lua	function	scancsname	function
savelua	function	scanctoken	function
scan_argument	function	scandelimited	function
scan_box	function	scandetokened	function
scan_cardinal	function	scandimen	function
scan_char	function	scandimenargument	function
scan_cmdchr	function	scandimension	function
scan_cmdchr_expanded	function	scandimensionargument	function
scan_code	function	scanfloat	function
scan_csname	function	scan glue	function
scan_delimited	function	scanint	function
scan_dimen	function	scaninteger	function
scan_dimen_argument	function	scanintegerargument	function
scan_float	function	scankey	function
scan_glue	function	scankeyword	function
scan_integer	function	scankeywordcs	function
scan_integer_argument	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	scannextexploded	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
scan_toks	function	scanword	function

serialize	function	setlua	function
set_char	function	setmacro	function
set_dimension	function	skip_next	function
set_integer	function	skip_next_expanded	function
set_lua	function	skipnext	function
set_macro	function	skipnextexpanded	function
setchar	function	type	function
setdimension	function	undefine_macro	function
setinteger	function	undefinemacro	function

tokens (context)

accessors table

F active
F cmd
F cmdchrsc
F cmdname
F command
F csname
F expandable
F frozen
F index
F name
F protected
F range

astable function

bits table

N active
N alignment
N begingroup
N character
N close
N comment
N endgroup
N endofline
N escape
N ignore
N invalid
N letter
N mathshift
N open
N other
N parameter
N space
N subscript
N superscript
N whitespace

cache data table

commands data table

compile function

constant function

converters table

S toboolean

S todimen

S toglue

S tonumber

S tostring

create function

defined function

flags function

getinteger function

getters table

F box

F count

F cstoken

F dimen

F glue

F macro

F meaning

F skip

F token

gobble function

isdefined function

istoken function

new function

pickup function

popmacro function

presets table

T 1 argument

T 1 integer

T 1 optional

T 1 string

T 2 arguments

T 2 integers

T 2 optionals

T 2 strings

T 3 arguments

T 3 integers

T 3 optionals

T 3 strings

T 4 arguments

T 4 integers

T 4 optionals

T 4 strings

T 5 strings
T 6 strings
T 7 strings
T 8 strings
pushmacro function
scanners table

F argument
F argumentasis
F array
F boolean
F box
F bracketed
F bracketedasis
F cardinal
F char
F cmdchr
F cmdchrexplained
F code
F conditional
F count
F csname
F csnameunchecked
F delimited
F detokened
F dimen
F dimenargument
F dimension
F float
F glue
F gluespec
F gluevalues
F hash
F hbox
F integer
F integerargument
F ischar
F key
F keyword
F keywordcs
F letters
F list
F lua
F luacardinal
F luainteger

F luanumber
F lxmlid
F next
F nextchar
F nextexpanded
F number
F optional
F peek
F peekchar
F peekexpanded
F posit
F real
F scanclose
F scanopen
F skip
F skipexpanded
F string
F table
F token
F tokencode
F tokenlist
F tokens
F tokenstring
F toks
F value
F vbox
F verbatim
F vtop
F whd
F word

setinteger function
setters table

F box
F char
F count
F dimen
F glue
F lua
F macro
F skip

shortcuts table

T bits
N active
N alignment

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 floor
N mathshift	F fromposit
N open	F integer
N other	F log
N parameter	F log10
N space	F loglp
N subscript	F log2
N superscript	F logb
N whitespace	F max
N close	F min
F inspect	F modf
N open	F new
T posit	F pow
F NaN	F rotate
F NaR	F round
F __add	F rounded
F __band	F shift
F __bor	F sin
F __bxor	F sqrt
F __div	F tan
F __eq	F tonumber
F __le	F toposit
F __lt	F tostring
F __mul	F report
S __name	F scanargument
F __pow	F scanargumentasis
F __shl	F scanarray
F __shr	F scanboolean
F __sub	F scanbox
F __tostring	F scanbracketed
F __unm	F scanbracketedasis
F abs	F scancardinal
F acos	F scanclose
F asin	F scancode
F atan	F scanconditional

F scancsname	F gluespec
F scancsnameunchecked	F gluevalues
F scandalimited	F hash
F scandetokened	F hbox
F scandimen	F integer
F scandimenargument	F integerargument
F scandimension	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 scankeywords	F lxmlid
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 cmdchrexplanded	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 detokened	F toks
F dimen	F value
F dimenargument	F vbox
F dimension	F verbatim
F float	F vtop
F glue	F whd

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 isdefined
F scanword	F istoken
F toboolean	F new
F todimen	F pickup
T tokens	F popmacro
T accessors	T presets
F active	F pushmacro
F cmd	F setinteger
F cmdchr	T setters
F cmdname	F box
F command	F char
F csname	F count
F expandable	F dimen
F frozen	F glue
F index	F lua
F name	F macro
F protected	F skip
F range	T shortcuts
F astable	N close
D cache	F inspect
D commands	N open
F compile	F report
F constant	F scanargument
T converters	F scanargumentasis
S toboolean	F scanarray
S todimen	F scanboolean
S toglue	F scanbox
S tonumber	F scanbracketed
S toString	F scanbracketedasis
F create	F scancardinal
F defined	F scanclose
F flags	F scancode

- F scanconditional
- F scanscname
- F scanscnameunchecked
- F scandelimited
- F scandetokened
- F scandimen
- F scandimenargument
- F scandimension
- F scanfloat
- F scanglue
- F scangluespec
- F scangluevalues
- F scanhash
- F scanhbox
- F scaninteger
- F scanintegerargument
- F scankeyword
- F scankeywordcs
- F scanletters
- F scanlist
- F scanlua

```
values      data table
```

tracers (context)

printerror function
printwarning function

showlines function

trackers (context)

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

typesetters (context)

alignments table

F handler
F set

breakpoints table

F define
F handler
D mapping
T methods
T numbers
F set
F setreplacement

cases table

T actions
F handler
F register
F set

characteralign table

F handler
F resetcharacteralign
F setcharacteralign

characters table

F handler
T methods
F replacensp
F replacenspaces

checkers table

F handler
F reset
F set

cleaners table

F handler
F set

corrections table

F handler

digits table

T actions
F handler
F set

directions table

F getfences
F getglobal

F getmethod

F handler
T handlers
F installhandler
F set
F setcolor
F tomode

firstlines table

T actions
F default
F line
F word
F handler
F set

fontkerns table

F handler

initials table

T actions
F default
F handler
F set

injectors table

F check
T list
F mark
F reset
F set
F show

italics table

F enablemath
F enabletext
F handler

kerns table

D factors
F handler
F keepeligature
D mapping
F set

localboxes table

F handler

manipulators table

F apply	
F applyspecification	
T methods	
F Word	
F Words	
F abbreviatedjournal	
F expandedjournal	
F lowercase	
F stripperperiod	
F uppercase	
T patterns	
U list	
U pair	
F splitspecification	
margins	table
F finalhandler	
F globalhandler	
F localhandler	
F save	
marksuspects	function
paragraphs	table
F addanchortoline	
F addtoline	
F calculatedelta	
F checkline	
F moveinline	
periodkerns	table
D factors	
F handler	
D mapping	
F set	
processors	table
F apply	
F register	
F reset	
F split	
F startapply	
F stopapply	
F stripped	
F tostring	
rubies	table
F attach	
F check	
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	
synchronize	table
F handler	
tighten	table
F handler	
wrappers	table
xtables	table
F cleanup	
F construct	
F create	
F finish_row	
F flush	
F initialize_construct	
F initialize_reflow_height	
F initialize_reflow_width	
F next_row	
F reflow_height	
F reflow_width	
F set_construct	
F set_reflow_height	
F set_reflow_width	

updaters (context)

apply function

register function

url (context)

addscheme	function
barepath	function
construct	function
decode	function
encode	function
escape	function
filename	function

hashed	function
hasscheme	function
query	function
split	function
toquery	function
unescape	function
unescapeget	function

utf8 (basic lua)

char function
charpattern string
codepoint function

codes function
len function
offset function

utilities (context)

debugger table

F disable
F enable
F savestats
F showstats
F showtraceback

files table

F close
F getposition
F getsize
F look
F open
F read2dot14
F readbyte
F readbytes
F readbytetable
F readcardinal
F readcardinal1
F readcardinal1le
F readcardinal2
F readcardinal2le
F readcardinal3
F readcardinal3le
F readcardinal4
F readcardinal4le
F readcardinaltable
F readchar
F readcline
F readcstring
F readfixed2
F readfixed4
F readinteger
F readinteger1
F readinteger1le
F readinteger2
F readinteger2le
F readinteger3
F readinteger3le
F readinteger4
F readinteger4le
F readintegertable

F readsignedbyte
F readstring
F readtag
F setposition
F size
F skip
F skiplong
F skipposition
F skipshort
F writebyte
F writecardinal1
F writecardinal1le
F writecardinal2
F writecardinal2le
F writecardinal3
F writecardinal3le
F writecardinal4
F writecardinal4le
F writeinteger1
F writeinteger1le
F writeinteger2
F writeinteger2le
F writeinteger3
F writeinteger3le
F writeinteger4
F writeinteger4le
F writestring

formatters table

F formatcolumns
F list
F stripzeros

ghostscript table

F convert
F statistics

graphicmagick table

F convert
F statistics

graphicsmagick table

F convert
F statistics

json table

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

F splitmethod		F list	
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		stacker	table
randomizer	table	F new	
F get		storage	table
F getnumber		F allocate	
F getrepeatable		F checked	
F getrepeatableseed		F mark	
F getseed		F marked	
F newrepeatable		F setinitializer	
F popseed		F sparse	
F pushseed		streams	table
F repeatable		F close	
F reuseseed		F getposition	
F setseed		F getsizes	
F setseedi		F getstring	
randomizers	table	F look	
F poisson		F open	
sequencers	table	F openstring	
F appendaction		F read2dot14	
F appendgroup		F readbyte	
F compile		F readbytes	
F disableaction		F readbytetable	
F disablegroup		F readcardinal	
F enableaction		F readcardinal1	
F enablegroup		F readcardinal11e	
D functions		F readcardinal2	
F localize		F readcardinal21e	
F new		F readcardinal3	
F nodeprocessor		F readcardinal31e	
F prependaction		F readcardinal4	
F prependgroup		F readcardinal41e	
F removeaction		F readcardinaltable	
F replaceaction		F readchar	
F setkind		F readcline	
F tostring		F readcstring	
setters	table	F readfixed2	
F disable		F readfixed4	
F enable		F readinteger	
F initialize		F readinteger1	

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	
T striplinepatterns		F list	
U collapse		F pack	
U collapse all		F unpack	
U prune		templates	table
U prune and collapse		F load	
U prune and no empty		F replace	
U prune and to space		F replacer	
U retain		F resolve	
U retain and collapse		zipfiles	table
U retain and no empty		F close	
F striplines		F found	

F hash

F unzip

F list

F unzipdir

F open

F zipdir

visualizers (context)

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

xcomplex (extra lua)

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

xdecimal (extra lua)

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

xmath (extra lua)

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

xml (context)

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

F idstring		F 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 recursetext	

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

settings	function	tostring	function
specialcodes	data table	totable	function
specialhandler	table	toxml	function
sprint	function	tprint	function
string	function	traverse	function
strip	function	unescaped	function
strip_whitespace	function	unescapedentitylpeg	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	xmlns	table
toelement	function		

xzip (extra lua)

adler32 function

compress function

compresssize function

crc32 function

decompress function

decompresssize function

zip (context)

archives	table	openarchive	function
closearchive	function	registeredfiles	table

zlib (context)

adler32	function
compress	function
compresssize	function

crc32	function
decompress	function
decompresssize	function