

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

ConT_EXt LMTX

global (alias: _G)

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converters	table	kpse	table
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modules	table	select	function
mp	function	serial	table
mplib	table	set	table
next	function	setinspector	function
noads	table	setmathparameters	function
node	table	setmetatable	function
nodes	table	sha2	table
number	table	shipbox_ref_h	number
objects	table	shipbox_ref_v	number
optional	table	sio	table
optionalrequire	function	socket	table
os	table	sorters	table
p_number_p	userdata	sparse	table
p_number_u	userdata	statistics	table
package	table	status	table
pagebuilders	table	storage	table
pairs	function	streams	table
parametersets	table	string	table
pcall	function	structures	table
pdf	table	table	table

tex	table	unpack	function
texconditionals	data table	updaters	table
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texconstants	data table	userdata	table
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texio	table	utf8	table
texisdefined	data table	utilities	table
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texsystemmodes	data table	visualizers	table
thirddata	table	warn	function
toboollean	function	width	number
todecimal	function	xcomplex	table
token	table	xdecimal	table
tokens	table	xmath	table
tonumber	function	xml	table
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type	function	zip	table
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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 rgbbytes
- F rgbtocmyk
- F rgbtorgay
- F rgbtohsb

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

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

backends (context)

closeout function

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 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 presetsymbolist
 F processrendering
 F registerdocumentcloseaction
 F registerdocumentopenaction
 F registeredsymbol
 F registerfiguremask
 F registerfigurerange
 F registerpagecloseaction
 F registerpageopenaction
 F registerpattern
 F registersymbol
 F ruleactionbox
 F ruleactiondraw
 F ruleactionfill
 F ruleactionmp
 F ruleactionstroke
 F saveboxresource
 F scanimage
 F setattachmentsupport
 F setautoprefix
 F setencryption
 F setfieldcalculationset
 F setfigurecolorspace
 F setfiguremask
 F setformat
 F setformsmethod
 F setjobcomment
 F setpagetransition
 F settaggingsupport
 F setupviewerlayer
 F setuserdata
 F setxmpfile
 F startactualtext
 F startalternativetext
 F startlayer
 F startunicodetoactualtext
 F startunicodetoactualtextdirect
 F stopactualtext
 F stopalternativetext
 F stoplayer
 F stopunicodetoactualtext
 F stopunicodetoactualtextdirect
 F supportedformats
 F unicodetoactualtext

F useviewerlayer
 F validcompactor
 F validfield
 F validfieldcategory
 F validfieldset
 F vfstartcolor
 F vfstopcolor
 F wrapimage
 S name
 T nodeinjections
 F addtags
 F annotation
 F attachfile
 F changestackedlayer
 F cmykcolor
 F comment
 F destination
 F effect
 F getboxresourcedimensions
 F graycolor
 F injectbitmap
 F insertu3d
 F knockout
 F negative
 F overprint
 F positive
 F reference
 F rgbcolor
 F spotcolor
 F startalternate
 F startlayer
 F startstackedlayer
 F stopalternate
 F stoplayer
 F stopstackedlayer
 F transparency
 F typesetfield
 F useboxresource
 T registrations
 F cmykindexcolor
 F cmykspotcolor
 F getspotcolorreference
 F grayindexcolor
 F grayspotcolor

F `rgbindexcolor`
F `rgbspotcolor`
F `spotcolorname`
F `transparency`
T `tables`

registrations	table
setencryption	function
tables	table
writeout	function

basexx (extra lua)

decode16 function

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 start	
checksidefloat	function	F stop	
hpack	table	F tag	
F qualityactions			parpassidentifier function
F report			passnames data table
F show			profiling table
kernel	table	F add	
F collapsing		F adddrivers	
F hyphenating		F boxlinehandler	
F kerning		F distance	
F ligaturing		F fixedprofile	
F mlisttohlist		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		registerpaspasscallback 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 split		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

cache (context)

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

callback (basic tex)

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

callbacks (context)

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

catcodes (context)

names data table

numbers data table

register function

characters (context)

addcharacternames	function	T after_postscript	
adobename	function	T after_subscript	
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	
contextname	function	T post_mark	
csletters	data table	T pre_mark	
data	data table	T ra	
decomposed	data table	T stress_tone_mark	
description	function	T twopart_mark	
descriptions	data table	T vowel_modifier	
detailtags	data table	initialize	function
directions	table	is_character	data table
emoji	table	is_command	data table
F compact		is_hyphenator	data table
F known		is_letter	data table
F resolve		is_mark	data table
emojized	function	is_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)

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

containers (context)

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

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

environment (context)

argument	function	luafilechunk	function
arguments	data table	luatexengine	string
basicengines	data table	luatexfunctionality	number
currentrun	number	luatexverbose	string
definefilefallback	function	luatexversion	number
definefilesynonym	function	maxnofruns	number
engineflags	data table	oldhome	string
filename	string	originalarguments	data table
filenames	table	outputfilename	string
files	table	ownbin	string
filesynonyms	data table	ownmain	string
forcedruns	number	ownname	string
getargument	function	ownpath	string
globfiles	function	prerollrun	boolean
homedir	string	rawarguments	data table
initex	boolean	reconstructcommandline	function
initexmode	boolean	relativepath	function
initializearguments	function	setargument	function
initializefilenames	function	splitarguments	function
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		qrcode	function
T keys		registerpattern	function
F print		registerresource	function
F resetdata		registersuffix	function

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

file (basic lua)

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

fonts (context)

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

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

D pdfcache	T gsubhandlers
F plugininitializer	F alternate
F pluginprocessor	F chainedcontext
T plugins	F context
T text	F extension
D pngcache	F ligature
B pngenabled	F multiple
T readers	F reversechainedcontextsingle
F addunicodetable	F single
F avar	F gvar
F cbdt	F head
F 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 getsizes	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 glyphdimenfactor
 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		F registerfontalternative	
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	

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

B dist	N number
B half	B unicoding
B haln	T es
S indic	S language
B kern	N number
S language	S script
B locl	T et
S mode	S language
B nukt	N number
N number	S script
B pres	T f:fractions
B psts	B frac
B rkrf	N number
B rphf	T f:inferiors
S script	N number
B watu	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 watu	N number
T dingbats	T fr
S goodies	S language
S mode	N number

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

B abvs
 B 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 nukl
 N number
 B pres
 B pstf
 B psts
 B rphf
 S script
 B vatu
 T hebrew
 B analyze
 S autolanguage
 S autoscript
 B calt
 B ccmp
 B clig
 B curs
 B dlig
 B fina
 B init
 B isol
 B kern
 S language
 B liga
 B mark
 B medi
 B mkmk
 S mode
 N number
 B reordercombining

B rlig
 S script
 T hr
 S language
 N number
 S script
 T hu
 S language
 N number
 S script
 T indic-common
 B abvm
 B abvs
 B akhn
 B blwm
 B blws
 B calt
 B dist
 B haln
 S indic
 B kern
 S language
 B locl
 S mode
 B nukl
 N number
 B pres
 B psts
 B rphf
 T inlinenumbers
 N number
 B pnun
 B tnum
 T is
 S language
 N number
 S script
 T it
 S language
 N number
 S script
 T ja
 S language
 N number

S script	B dist
T jamoforms	B half
B ljmo	B haln
N number	S indic
B tjmo	B kern
B vjmo	S language
T just-os	B locl
S mode	S mode
N number	B nukt
B onum	N number
T kannada-one	B pref
B abvm	B pres
B abvs	B pstf
B akhn	B psts
B blwf	B rphf
B blwm	S script
B blws	T la
B calt	S language
B cjct	N number
B dist	S script
B half	T latn
B haln	N number
S indic	S script
B kern	T letterspacing
S language	B ccmp
B locl	B clig
S mode	B dlig
B nukt	S keepligatures
N number	B 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 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	B nukt
N number	N number
S script	B pres
S textcontrol	B pstf
B wipemath	B psts
T oriya-one	B rphf
B abvm	S script
B abvs	T pl
B akhn	S language
B blwf	N number
B blwm	S script
B blws	T primes
B calt	N number
B cjct	B primes
B dist	T pt
B haln	S language
S indic	N number
B kern	S script
S language	T quality
B locl	S expansion
S mode	N number
B nukt	S protrusion
N number	T reordercombining
B pres	N number
B pstf	B reordercombining
B psts	T ro
B rphf	S language
S script	N number
T oriya-two	S script
B abvm	T ru
B abvs	S language
B akhn	N number
B blwf	S script
B blwm	T semitic-complete
B blws	B analyze
B calt	S autolanguage
B cjct	S autoscript
B dist	B calt
B haln	B ccmp
S indic	B clig
B kern	B curs
S language	B dlig
B locl	B fina
S mode	B init

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

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

T telugu-one

B 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 telugu-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 th
S language
N number
S script
T tibetan
B abvm
B abvs
S autolanguage
S autoscript
B blwm
B blws
B calt
B ccmp
B checkmissing
B curs
B kern
S language
B liga
B locl
B mark
B mkmk
S mode
N number
S script
S textcontrol
B wipemath
T tr
S language
N number
S script
T uk
S language
N number
S script
T uppercasing
N number
B uppercasing
T us

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

gzip (context)

compress function
compressed function
decompress function

load function
save function
suffix function

helper (context)

getprofile	function
mathnested	function
mathprocess	function
mathstep	function
snapindeed	function

snplist	function
traversecharmmethod	function
traverseglyphmethod	function
traversehorizontal	function
traversevertical	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 gethvrpos	
D collected		F getpos	
D tobesaved		F getreserved	
objects	table	F getrpos	
D collected		F getsync	
F get		F gettobesaved	
F number		F getvpos	
F page		F hangafter	
F save		F hangindent	
F set		F height	
D tobesaved		F hsize	
pack	boolean	N lastr	
packversion	number	N lastx	
pagestates	table	N lasty	

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

language (basic tex)

clean	function
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		nofflattened	function
getdata	function	numbers	data table
getnumber	function	postexhyphenchar	function
goodiefiles	function	posthyphenchar	function
hjcounts	table	preexhyphenchar	function
hyphenate	function	prehyphenchar	function
hyphenators	table	registered	data table
T dictionaries		registeredactions	table
D featuresets		replacements	table
F handler		F add	
T methods		F addlist	
F expanded		F handler	
B none		F set	
F original		serializediscretionary	function
F tex		setexceptions	function
F traditional		setgoodieshandler	function
F popmethod		setoptions	function
F pushmethod		setpatterns	function
F setmethod		setsynonym	function
F setup		setwordhandler	function
F showhyphenationtrace		showdiscretionaries	function
T traditional		strippedgoodiewords	function
F definefeatures		tolang	function
F gettrace		transliteration	table
F hyphenate		F 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

basictex data table

builtin data table

extralua data table

extratex data table

functions data table

globals data table

optional data table

lmx (context)

color	function
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
popupfile	function
print	function
pv	function
report	function
reset	function
result	function
set	function
show	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
adddocumentcolorspace	function
adddocumenttextgstate	function
adddocumentpattern	function
adddocumentshade	function
addtocatalog	function
addtoinfo	function
addtonames	function
addtopageattributes	function
addtopageresources	function
addtopagesattributes	function
addxmpinfo	function
annotationspecification	function
array	function
attachmentsymbols	function
boolean	function
border	function
checkedkey	function
checkedresources	function
checkedvalue	function
circularshade	function
close	function
cmykcode	function
collectedresources	function
color	function
colorspace	function
colorspaceconstants	data table
colorspec	function
colorvalue	function
colorvalues	function
commentssymbols	function
compressdata	function
compresslevel	function
constant	function
copyarray	function
copyboolean	function
copyconstant	function
copydictionary	function
copyfloat	function
copyinteger	function
copynumber	function

copystring	function
copyunicode	function
deferredobject	function
delayedobject	function
destinationspecification	function
dictionary	function
docstring	function
encodingvalues	table
N base16	
N base85	
N decoded	
N encoded	
N plain	
N utf16be	
N utf16le	
epdf	table
F allcontent	
F analyzefonts	
F contentplugin	
F contenttostring	
F contenttotext	
D encryptioncodes	
F expanded	
F expandwidths	
F fontplugin	
F getpagecontent	
F getstructure	
T helpers	
F tounicodetable	
T image	
F close	
F copy	
F new	
F open	
F query	
F load	
F mergewidths	
D objectcodes	
F objectrange	
F objecttype	
F pageplugin	

F parsecontent		N Password	
F producer		N PopUp	
T resolvers		N PushButton	
F destinations		N Radio	
F embeddedfiles		N RadiosInUnison	
F javascripts		N ReadOnly	
F layers		N Required	
F pages		N RichText	
F structure		N Sort	
F widgets		N file	
F unload		N fixed	
F verboseobject		N nocheck	
escaped	function	N protected	
finalizeddocument	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		getformatoption	function
N Comb		getinfo	function
N CommitOnSelChange		getmatrix	function
N DoNotScroll		getnofpages	function
N DoNotSpellCheck		getpageproperties	function
N Edit		getpagereference	function
N FileSelect		getpagetags	function
N MultiLine		getpos	function
N NoExport		gettrailerid	function
N NoToggleToOff		getversion	function

getxformname	function	N assemble	
graycode	function	N extract	
h_hex_2	table	N fillin	
S		N modify	
S		N print	
S		N quality	
S		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	setpageorder	function
majorversion	function	setpagestate	function
makenametree	function	setpagetag	function
minorversion	function	setversion	function
noffontregistries	function	sharedobject	function
nofpages	function	shareobject	function
null	function	shareobjectreference	function
number	function	spotcode	function
object	function	stream	function
objectcompresslevel	function	string	function
pagereference	function	supportedformats	function
patternstream	function	tocidset	function
pdfcolor	function	toeight	function
pdftimestamp	function	topdfdoc	function
permissions	table	topermissions	function
N access		tosixteen	function
N add		transparency	function

transparencycode	function	N dejavusansmonoboldttf-1-0-0	
transparencygroups	table	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	getruntime	function
bytecode	table	getstacktop	function
bytedata	data table	getstartupfile	function
bytdone	table	getstringkeys	function
callbytecode	function	getversion	function
comparekeys	function	lastbytecode	number
finalizeinitex	function	messages	data table
firstbytecode	number	newindex	function
get_functions_table	function	newtable	function
getallkeys	function	numbers	data table
getbytecode	function	registercode	function
getcheckedkeys	function	registeredcodes	function
getcurrenttime	function	registerinitexfinalizer	function
getdebuginfo	function	registername	function
getexitcode	function	setbytecode	function
getfunctionstable	overloaded function	setexitcode	function
getnibble	function	setnibble	function
getnumerickeys	function	startupfile	string
getpreciseseconds	function	subnibble	function
getpreciseticks	function	version	string

luac (extra lua)

```
inspect function  
print    function
```

luatex (context)

abort	function	F disable	
cleanup	function	F enable	
cleanuptempfiles	function	F finish	
currentfile	function	F pause	
currentlevel	function	F popline	
currenttotal	function	F pushline	
poprunstate	function	F registerdisabler	
pushrunstate	function	F registerenabler	
registerdumpactions	function	F resetfilename	
registerpageactions	function	F resume	
registerstartactions	function	F setfilename	
registerstopactions	function	F setup	
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 fontname
tweakbeforecopyingfont	function	F inspect
tweaks	table	F keepbases
F accentdimensions		F kernpairs
F action		F kerns
F addactuarian		T kernsets
F addarrows		T .,
F addbars		F margins
F addcomposites		F message
F addequals		F moveitalics
F addfourier		F movelimits
F addmirrors		F parameters
F addparts		F radicalbodymargins
F addprivates		F radicaldegreeanchors
F addrules		F replace
F addscripts		F replacealphabets
F bigslots		F replacerules
F checkaccents		F setoptions
F checkspacing		F setovershoots
F copyaccents		F showinfo
T datasets		F simplifykerns
T accentdimensions		F sortvariants
T accent		F staircase
T over		T subsets
T under		T acenorsuvxz
T addarrows		T bhklt
T addscripts		T d
T checkspacing		T dotless
T copyaccents		T f
T fixprimes		T gjqy
T fixslashes		T horizontalfences
T wipecues		T i
F dimensions		T integrals
F extendaccents		T letterlike
F fallbacks		T mw

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

md5 (extra lua)

HEX	function
dec	function
hex	function

sum	function
sumHEXA	function
sumhexa	function

metapost (context)

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

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

pushvariable	function	N bp	
pushvariables	function	N cm	
quionerror	boolean	N em	
reducetogray	boolean	N ex	
registerdirect	function	N in	
registerscript	function	N mm	
registertokens	function	N pc	
remappedtext	function	N pt	
remaptext	function	N px	
reporterror	function	svgglyphtomp	function
reportsvgfonts	function	svgshapetomp	function
reset	function	svgshapetopdf	function
resetbackendoptions	function	svgsplitcolor	function
resetlastlog	function	svgtomp	function
resetplugins	function	svgtopdf	function
run	function	sxsy	function
runinternal	function	tex	table
runscript	function	F get	
scanparameters	function	F reset	
scriptindex	function	F set	
setbendtolerance	function	F setfrombuffer	
setbuffer	function	texerrors	boolean
setextensions	function	texexp	function
setlogging	function	theclippath	function
setmovetolerance	function	tographic	function
setoutercolor	function	totable	function
setparameter	function	types	table
setparameterset	function	N boolean	
setrecord	function	N cmykcolor	
settext	function	N color	
settolerance	function	N dependent	
setvariable	function	N independent	
showlog	boolean	N known	
showsvgpage	function	N nep	
simple	function	N numeric	
splitprescript	function	N pair	
startgraphic	function	N path	
startsvghashing	function	N pen	
stopgraphic	function	N picture	
stopsvghashing	function	N protodependent	
svformat	function	N string	
svgcolorremapper	function	N structured	
svgfactors	table	N suffixedmacro	
N %		N tokenlist	

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

mime (context)

b64 function

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

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

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

mplib (extra tex)

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

noads (context)

handlers	table		F 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		T suspicious	
F numbers		T unscript	
F relocate		T unstack	
F render		processouter	function
F showtree			

node (basic tex)

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

F getinputfields
F getkern
F getkerndimension
F getlanguage
F getleader
F getleftdelimiter
F getlist
F getlistdimensions
F getmvlolist
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 getusage
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 hasidsubtype
F hasusage
F hpack
F hyphenating
F id
F ignoremathskip
F insertafter
F insertbefore
F insertcurrentthead
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 setdenominator
F length	F setdepth
F ligaturing	F setdirection
F makeextensible	F setdisc
F migrate	F setdiscpart
F mlisttohlist	F setexcept
F naturalhsize	F setexpansion
F naturalwidth	F setfam
F new	F setfield
F newcontinuationatom	F setfielderror
F newmathglyph	F setfont
F newtextglyph	F setgeometry
F patchattributes	F setglue
F patchparshape	F setglyphdata
F prependbeforehead	F setheight
F prependcurrenttail	F setindex
F protectglyph	F setinputfields
F protectglyphs	F setkern
F protectglyphsbase	F setlanguage
F protectglyphsnone	F setleader
F protrusionskipable	F setleftdelimiter
F rangedimensions	F setlink
F remove	F setlist
F removefromlist	F setnext
F repack	F setnucleus
F reverse	F setnumerator
F serialized	F setoffsets
F setanchors	F setoptions
F setattribute	F setorientation
F setattributelist	F setpenalty
F setattributes	F setpost
F setboth	F setpre
F setbottom	F setprev
F setbottomdelimiter	F setprime
F setbox	F setproperty
F setchar	F setreplace
F setchardict	F setrightdelimiter
F setchoice	F setruledimensions
F setclass	F setscale
F setcontrol	F setscales
F setcurrenttail	F setscript
F setdata	F setscripts
F setdegree	F setshift
F setdelimiter	F setslant

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

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

nodes (context)

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

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

nuts

F addmargins
F addxoffset
F addxymargins
F addyoffset
F append
F appendaftertail
F apply
F applyvisuals
F beginofmath
F checkdiscretionaries
F checkdiscretionary
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
F firstglyph

table

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 getfirstdirectioninlist
F getfont

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

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

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

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

F <code>userrule</code>		takeattr	function
serialize	function	takebox	function
serializebox	function	tasks	table
serialized	function	F <code>actions</code>	
setattr	function	F <code>appendaction</code>	
setattribute	function	F <code>disableaction</code>	
setattrrlist	function	F <code>disablegroup</code>	
setboth	function	F <code>enableaction</code>	
setbox	function	F <code>enablegroup</code>	
setboxtonaturalwd	function	F <code>freeze</code>	
setchar	function	F <code>freezegroup</code>	
setfield	function	F <code>new</code>	
setfont	function	F <code>prependaction</code>	
setleader	function	F <code>removeaction</code>	
setlink	function	F <code>replaceaction</code>	
setlist	function	F <code>restart</code>	
setnext	function	F <code>setaction</code>	
setprev	function	F <code>showactions</code>	
setproperty	function	F <code>table</code>	
shadows	table	tobasepoints	function
F <code>handler</code>		tocentimeters	function
F <code>set</code>		tociceros	function
shifts	table	todidots	function
F <code>handler</code>		todimen	function
F <code>set</code>		toinches	function
showboxes	function	tomillimeters	function
showlist	function	tonode	function
showsimplelist	function	tonodes	function
skipcodes	data table	tonut	function
snapshots	table	topics	function
F <code>getsamples</code>		topoints	function
F <code>resetsamples</code>		toscaledpoints	function
F <code>takesample</code>		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 <code>colors</code>	
stripping	table	F <code>reset</code>	
T <code>glyphs</code>		F <code>set</code>	
F <code>set</code>		F <code>setlist</code>	
subtypes	data table	F <code>directions</code>	
tail	function	F <code>fontchar</code>	

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

N par
N penalty
N simple
N simplehbox
N simplevbox
N simplevtop
N space
N strut
N toddler
N user
N vbox
N vglue
N vkern

N vpenalty
N vtop
N whatsit
F register
F registercache
F setfont
F setlayer
F setruledglyph
F setvisual

vpack
whatsitcodes
write

function
data table
function

number (context)

	function
basepoints	function
bytetodecimal	function
compactfloat	function
decimaltobyte	function
dimenfactors	data table
formatted	function
formattedfloat	function
fractiontobyte	function
idiv	function
maxdimen	number
nopts	function
nubasepoints	function
nupoints	function
percent	function
points	function
pts	function
signed	function
sparseexponent	function
splitdimen	function

tol6dot16	function
tobasepoints	function
tobitstring	function
tocentimeters	function
toxiceros	function
tocontext	function
to didots	function
todimen	function
toediths	function
toevenhex	function
toinches	function
tomillimeters	function
tonumberf	function
tonumberg	function
topicas	function
topoints	function
toscaled	function
toscaledpoints	function
totoves	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 getnoisetypes
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 open	
F getmessage		zint	table
F initialize		F execute	
F open		F initialize	
sqlite	table	zstd	table
F close		F compress	
F execute		F decompress	
F getmessage		F initialize	
F initialize			

os (basic lua)

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

package (basic lua)

config	string	loadlib	function
cpath	string	luapaths	function
extralibpath	function	path	string
extralibpaths	function	poplibpath	function
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 addmvl
F block
F blockrows
F check
F clean
T data
F define
F definesub
F delayedsheet
F finishflush
F flushareas
F flushcolumn
F goto
F gotoslot
F limit
F noto
F prepareflush
F presetsheets
F presetspreadsheets
F put
F putdirect
F registerarea
F registersheet
F registerspreadsheets
F reset
F resetdirect

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

injections table

F flushafter
F flushbefore
F save

mixedcolumns table

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

pdf (context)

immediateobj function

pdf (extra tex)

arraytotable	function
close	function
closestream	function
dictionarytotable	function
getarray	function
getboolean	function
getbox	function
getcatalag	function
getdictionary	function
getencodingvalues	function
getfieldtypes	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
getstatusvalues	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 registerunit
F registers	shortcut	D tables

pngdecode (extra tex)

applyfilter function
expand function
interlace function
makemask function

splitmask function
tocmyk function
tomask function

posit (extra lua)

NaN	function	exp2	function
NaR	function	expand	function
__add	function	floor	function
__band	function	frombyte	function
__bor	function	fromchar	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	tobyte	function
ceil	function	tochar	function
conj	function	tonumber	function
copy	function	toposit	function
cos	function	tostring	function
exp	function		

potrace (extra tex)

checked	function
concat	function
contourplot	function
convert	function
count	function
flush	function
free	function
fromfile	function
getbitmap	function

getnewfields	function
getpolicyvalues	function
getprocessfields	function
new	function
process	function
setbitmap	function
stripped	function
totable	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	

qrcodegen (context)

bitmap function
generate function

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	registerfile	function
knownvariables	function	registerfilehash	function
libraries	table	registerintrees	function
F optionalloaded		registermethod	function
F validoptional		registerzipfile	function
load	function	relations	data table
loadbinfile	function	renew	function
loaders	data table	renewcache	function
loadlualib	function	repath	function
loadtexfile	function	reset	function
loadtime	function	resetextrapaths	function
locateformat	function	resetresolve	function
locators	data table	resolve	function
luacnffallback	string	savers	data table
luacnfname	string	scandata	function
luacnfspec	string	scanfiles	function
luacnfstate	string	schemes	table
macros	table	T cleaners	
F convertfile		F md5	
F decodecomment		F none	
F enablecomment		F strip	
F encodecomment		F cleannname	
F preprocessed		F fetchstring	
F processmk		F fetchtable	
F processmklx		F install	
F processmkvi		setdynamic	function
F version		setenv	function
maxreadlevel	number	showpath	function
methodhandler	function	simplescanfiles	function
missinglibrary	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

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

sandbox (context)

disablelibraries	function
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

serial (context)

__gc	function
__name	string
__tostring	function
close	function

open	function
send	function
tostring	function
write	function

set (context)

contains function

create function

tolist function

tonumber function

totable function

sha2 (extra lua)

HASH256	function
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-range
_SETSIZE	number	S content-transfer-encoding
_SOCKETINVALID	number	S content-type
bind	function	S cookie
choose	function	S date
connect	function	S diagnostic-code
connect4	function	S dsn-gateway
connect6	function	S etag
dns	table	S expect
F getaddrinfo		S expires
F gethostname		S final-log-id
F getnameinfo		S final-recipient
F tohostname		S from
F toip		S host
gettime	function	S if-match
headers	table	S if-modified-since
T canonic		S if-none-match
S accept		S if-range
S accept-charset		S if-unmodified-since
S accept-encoding		S in-reply-to
S accept-language		S keywords
S accept-ranges		S last-attempt-date
S action		S last-modified
S age		S location
S allow		S max-forwards
S alternate-recipient		S message-id
S arrival-date		S mime-version
S authorization		S original-envelope-id
S bcc		S original-recipient
S cache-control		S pragma
S cc		S proxy-authenticate
S comments		S proxy-authorization
S connection		S range
S content-description		S received
S content-disposition		S received-from-mta
S content-encoding		S references
S content-id		S referer
S content-language		S remote-mta
S content-length		S reply-to
S content-location		S reporting-mta
S content-md5		S resent-bcc

S resent-cc
 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
sourcecet 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
url table
 F absolute
 F build
 F build_path
 F escape
 F parse
 F parse_path
 F unescape

sorters (context)

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

sparse (extra lua)

concat	function
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)

getbalancestate	function	getluastate	function
getbufferstate	function	getmarkstate	function
getcallbackstate	function	getmvlstate	function
getconstants	function	getneststate	function
geterrorlinestate	function	getnodestate	function
geterrorstate	function	getparameterstate	function
getexpandstate	function	getpoolstate	function
getfilestate	function	getreadstate	function
getfontstate	function	getsavestate	function
gethalferrorlinestate	function	getsparsestate	function
gethashstate	function	getstringstate	function
gethyphenationstate	function	gettexstate	function
getinputstate	function	gettokenstate	function
getinsertstate	function	getwarningstate	function
getlanguagestate	function	iocodes	table
getlinebreakstate	function	list	function
getlookupstate	function	resetmessages	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	octtointeger	function
autosingle	function	optionalquoted	function
booleanstring	function	pack	function
byte	function	packrowscolumns	function
bytepairs	function	packsize	function
bytes	function	quote	function
bytetable	function	quoted	function
char	function	rep	function
characterpairs	function	replacenewlines	function
characters	function	reverse	function
checkedsplit	function	split	function
chrtointeger	function	splitlines	function
collapsespaces	function	splitup	function
containsws	function	strip	function
count	function	sub	function
dectointeger	function	texhashed	function
dump	function	texnewlines	function
escapedpattern	function	tformat	function
escapedquotes	function	toHEX	function
explode	function	toboolean	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
longtostring	function	unquote	function
lower	function	unquoted	function
match	function	upper	function
nospaces	function	utf16toutf8	function
nspaces	table	utfcharacter	function

utfcharacters	function
utfcharacter table	function
utflength	function
utfpadd	function
utfpadding	function

utfvalue	function
utfvalues	function
utfvalue table	function
valid	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	
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 rawrealpage	
F rawuserpage	
F realpage	
F reorder	
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 userpage	
F uservalue	
marks	table
F number	
F title	
notes	table
F check_spacing	
F checkpagechange	
F define	
F doifonsamepageasprevious	
F flushrange	
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 setstate
D states
F store

pages

F allmarked
F analyze
D collected
F fraction
F getlabels
F in_body
F is_odd
F mark
F marked
F markedlist
N nopages
F number
F on_right
F save
D tobesaved
F toranges

references

F analyze
F checked
F checkedfile
F checkedfileorurl
F checkedprogram
F checkedrealpage
F checkedurl
D collected
U componentsplitter
F currentmetadata
F currentorder
D currentset
F define
D defined
D derived
F enhance
D executers
F export

table

table

T files
T data
F define
F found
F get
F filter
F filterdefault
D filters
D flaginternals
F forceinnermode
F from
D functions
F get
F getcurrentlabel
F getcurrentmetadata
F getcurrentprefixspec
F getinnermethod
F getinternalcachedlistreference
F getinternallistreference
F getinternalreference
F getoutermethod
D handlers
F identify
F import
F inject
F injectcurrentset
S innermethod
F integrate
D internals
F load
F loadpresets
F mark
S outermethod
F pagefromhash
D pages
U prefixsplitter
D productdata
T programs
T data
F define
F get
F realpageofpage
U referencesplitter
D referred

- F referredpage
- F registerfinalizer
- F registerinitializer
- 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

- 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

- 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

table

table

- 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 gettablecell
F mmultiscripts	F gettabulatecell
F mover	F handler
F msub	T ignored
F msubsup	F initializeexport
F msup	D labels
F munder	F last
F munderover	F lastinchain
F paragraph	F localexport
F publication	F locatedtag
F reference	D overloads
F registerlocation	T patterns
F registerpages	U splitter
F registerseparator	F pop
F section	D properties
F sorting	F push
F subsentencesymbol	F registerextradata
F synonym	F registermetadata
F tablecell	F restart
F tabulate	F setaspect
F tabulatecell	F 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 setupexport

F setuserproperties

D specifications

F start

F stop

F strip

D taglist

T usewithcare

table (basic lua)

allkeys	function	orderedhash	function
append	function	pack	function
are_equal	function	prepend	function
collapsed	function	print	function
collapsedhash	function	remove	function
combine	function	reverse	function
compact	function	reversed	function
concat	function	save	function
contains	function	sequenced	function
copy	function	serialize	function
count	function	setmetatablecall	function
create	function	setmetatableindex	function
derive	function	setmetatableindices	function
deserialize	function	setmetatablekey	function
drop	function	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	discpartcodes	data table
attribute	table	dontcomplain	function
automigrationcodes	data table	doublescriptoptioncodes	data table
autoparagraphcodes	data table	enableprimitives	function
badness	function	error	function
badnessmodecodes	data table	expandasvalue	function
balance	function	experiments	data table
balancecallbackcodes	data table	extraprimitives	function
boundaries	table	fatalerror	function
D names		fillcodes	data table
D numbers		flagcodes	data table
F system		fontidentifier	function
box	table	fontname	function
boxoptioncodes	data table	forcehmode	function
boxresources	table	forceinputstatefile	function
F getbox		forceinputstateline	function
F getdimensions		fprint	function
F save		frozenparcodes	data table
F use		get	function
breakcodes	data table	getadjustoptionvalues	function
buildcodes	data table	getalignmentcontextvalues	function
catcode	table	getamcode	function
cccode	table	getappendadjustcontextvalues	function
charactercontrolcodes	data table	getappendmigratecontextvalues	function
charactertagcodes	data table	getattribute	function
chardef	function	getautomigrationvalues	function
classoptioncodes	data table	getautoparagraphvalues	function
codes	table	getbadnessmodevalues	function
conditionals	data table	getbalancecallbackvalues	function
constants	data table	getbalanceparameterfields	function
count	table	getbalanceresultfields	function
cprint	function	getbalancestepoptionvalues	function
ctdcatcodes	number	getbox	function
ctxcatcodes	number	getboxdir	function
definefont	function	getboxoptionvalues	function
delcode	table	getboxresourcebox	function
dimen	table	getboxresource dimensions	function
dimensiondef	function	getbreakcontextvalues	function
directioncodes	data table	getbuildcontextvalues	function
directives	data table	getcardinalvalue	function
discoptioncodes	data table	getcatcode	function

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

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

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

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

setinputstatemode	function	skip	table
setinsertcontent	function	snappingcodes	data table
setinsertdistance	function	snapshotpar	function
setinsertlimit	function	sp	function
setinsertmultiplier	function	specialmathclasscodes	data table
setintegervalue	function	specificationoptioncodes	data table
setinteraction	function	splitbox	function
setlcode	function	splitcodes	data table
setlinedir	function	sprint	function
setlist	function	stringtocodesbitmap	function
setlocalbox	function	systemmodes	data table
setmath	function	takebox	function
setmathcode	function	texcatcodes	number
setmathdir	function	textcontrolcodes	data table
setmuglue	function	toks	table
setmuskip	function	tonumber	function
setnest	function	toscaled	function
setpardir	function	tpacatcodes	number
setpositvalue	function	tpbcacodes	number
setrunstate	overloaded function	tpprint	function
setsfcode	function	trackers	data table
setskip	function	triggerbuildpage	function
settexmdir	function	txtcatcodes	number
settoks	function	uccode	table
setuccode	function	uprint	function
sfcode	table	useboxresource	function
shapingpenaltiescodes	data table	userdiscoptioncodes	data table
shiftparshape	function	userglyphoptioncodes	data table
shipout	function	vrbcacodes	number
showcontext	function	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		parameter 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	property size	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
getselectorvalues	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	getexpandable	function
expand	function	getexpansion	function
expand_macro	function	getfields	function
expandmacro	function	getflags	function
future_expand	function	getfrozen	function
futureexpand	function	getfunctionvalues	function
get_active	function	getid	function
get_cmdchrscs	function	getimmutable	function
get_cmdname	function	getindex	function
get_command	function	getinstance	function
get_csname	function	getinteger	function
get_cstoken	function	getlength	function
get_dimension	function	getmacro	function
get_expandable	function	getmeaning	function
get_fields	function	getnoaligned	function
get_flags	function	getparameters	function
get_frozen	function	getpermanent	function
get_id	function	getprimitive	function
get_immutable	function	getprimitives	function
get_index	function	getprotected	function
get_instance	function	getrange	function
get_integer	function	gettok	function
get_macro	function	gettolerant	function
get_meaning	function	gobble	function
get_noaligned	function	gobble_dimension	function
get_parameters	function	gobble_integer	function
get_permanent	function	gobbledimension	function
get_primitive	function	gobbleinteger	function
get_protected	function	grab	function
get_range	function	inhibit	function
get_tok	function	is_defined	function
get_tolerant	function	is_next_char	function
getactive	function	is_token	function
getcmdchrscs	function	isactivestring	function
getcmdname	function	isdefined	function
getcommand	function	isnextchar	function
getcommandvalues	function	istoken	function
getconstant	function	locatemacro	function
getcsname	function	new	function
getcstoken	function	peek_next	function
getdimension	function	peek_next_char	function

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

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

tokens (context)

accessors table

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

isactivestring 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		F luainteger	
T 5 strings		F luanumber	
T 6 strings		F lxmlid	
T 7 strings		F next	
T 8 strings		F nextchar	
pushmacro	function	F nextexpanded	
scanners	table	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 cmdchrexploded		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 dimension		F vbox	
F dimensionargument		F verbatim	
F float		F vtop	
F glue		F whd	
F gluespec		F word	
F gluevalues		setinteger	function
F hash		setters	table
F hbox		F box	
F integer		F char	
F integerargument		F count	
F ischar		F dimen	
F key		F glue	
F keyword		F lua	
F keywordcs		F macro	
F letters		F skip	
F list		shortcuts	table
F lua		T bits	
F luacardinal		N active	

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

F scanbracketed	F detokened
F scanbracketedasis	F dimen
F scancardinal	F dimension
F scanclose	F dimensionargument
F scancode	F float
F scanconditional	F glue
F scanscname	F gluespec
F scanscnameunchecked	F gluevalues
F scandelimited	F hash
F scandetokened	F hbox
F scandimen	F integer
F scandimension	F integerargument
F scandimensionargument	F ischar
F scanfloat	F key
F scanglue	F keyword
F scangluespec	F keywordcs
F scangluevalues	F letters
F scanhash	F list
F scanhbox	F lua
F scaninteger	F luacardinal
F scanintegerargument	F luainteger
F scankeyword	F luanumber
F scankeywordcs	F 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 toks	S toglue
F value	S tonumber
F vbox	S toString
F verbatim	F create
F vtop	F defined
F whd	F flags
F word	F getinteger
F scannumber	T getters
F scanopen	F box
F scanoptional	F count
F scanposit	F ctoken
F scanstring	F dimen
F scantable	F glue
F scantokenlist	F macro
F scantokenstring	F meaning
F scantoks	F skip
F scanvbox	F token
F scanverbatim	F gobble
F scanvtop	F isactivestring
F scanword	F isdefined
F toboolean	F istoken
F todimen	F new
T tokens	F pickup
T accessors	F popmacro
F active	T presets
F cmd	F pushmacro
F cmdchrsc	F setinteger
F cmdname	T setters
F command	F box
F csname	F char
F expandable	F count
F frozen	F dimen
F index	F glue
F name	F lua
F protected	F macro
F range	F skip
F astable	T shortcuts
D cache	N close
D commands	F inspect
F compile	N open
F constant	F report
T converters	F scanargument
S toboolean	F scanargumentasis
S todimen	F scanarray

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

tracers (context)

printerror function
printwarning function

showlines function

trackers (context)

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

typesetters (context)

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

F keepligature	
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	
swapping	table
F handler	
synchronize	table
F handler	
tighten	table
F handler	
wrappers	table
xtables	table
F cleanup	
F construct	
F create	
F finish_row	
F flush	
F initialize_construct	
F initialize_reflow_height	
F initialize_reflow_width	
F next_row	
F reflow_height	
F reflow_width	
F set_construct	

F set_reflow_height

F set_reflow_width

updaters (context)

apply function
register function

url (context)

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

F splitthousands		F new	
F stepper		F register	
F stripped_settings_to_array		F report	
F totime		F reset	
F unittotex		F show	
F unittoxml		signals	table
randomizer	table	S configuration	
F get		F initialize	
F getnumber		F loadstate	
F getrepeatable		F report	
F getrepeatableseed		F savestate	
F getseed		F serialclose	
F newrepeatable		F serialfast	
F popseed		F serialopen	
F pushseed		F serialsend	
F repeatable		F serialwrite	
F reuseseed		N version	
F setseed		stacker	table
F setseedi		F new	
randomizers	table	storage	table
F poisson		F allocate	
sequencers	table	F checked	
F appendaction		F mark	
F appendgroup		F marked	
F compile		F setinitializer	
F disableaction		F sparse	
F disablegroup		streams	table
F enableaction		F close	
F enablegroup		F getposition	
D functions		F getsizes	
F localize		F getstring	
F new		F look	
F nodeprocessor		F open	
F prependaction		F openstring	
F prependgroup		F read2dot14	
F removeaction		F readbyte	
F replaceaction		F readbytes	
F setkind		F readbytetable	
F tostring		F readcardinal	
setters	table	F readcardinal1	
F disable		F readcardinal11e	
F enable		F readcardinal2	
F initialize		F readcardinal21e	
F list		F readcardinal3	

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

F list
F pack
F unpack
templates table
F load
F replace
F replacer
F resolve
zipfiles table

F close
F found
F hash
F list
F open
F unzip
F unzipdir
F zipdir

vector (context)

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

triangulate	function
truncate	function
type	function

visualizers (context)

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

xcomplex (extra lua)

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

xdecimal (extra lua)

__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
acosh function
asin function
asinh function
atan function
atan2 function
atanh function
cbrt function
ceil function
copysign function
cos function
cosh function
deg function
erf function
erfc function
exp function
exp2 function
expm1 function
fabs function
fdim function
floor function
fma function
fmax function
fmin function
fmod function
frexp function
gamma function
hypot function
inf number
isfinite function
isinf function
isnan function

isnormal function
j0 function
j1 function
jn function
ldexp function
lgamma function
log function
log10 function
log1p function
log2 function
logb function
modf function
nan number
nearbyint function
nextafter function
pi number
pow function
rad function
remainder function
remquo function
round function
scalbn function
sin function
sinh function
sqrt function
tan function
tanh function
tgamma function
trunc function
y0 function
y1 function
yn function

xml (context)

addentitiesdoctype	function	F family	
addspecialcode	function	F fontspecification	
after	function	F mappedstylevalue	
all	function	F padding	
applylpath	function	F size	
applyselector	function	F style	
assign	function	F stylevalue	
attribute	function	F todimension	
badinclusions	function	F variant	
before	function	F weight	
body	function	defaulthandlers	table
builtinentities	table	D file	
B amp		D parsedxml	
B apos		D string	
B gt		D tex	
B lt		D texline	
B quot		D texspace	
CDATA	function	D verbose	
CDATATOTEXT	function	defaultprotocol	string
checkbom	function	delete	function
checkedempty	function	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