MP attributes backends bit bit32 blobs
boolean buffers builders caches callback
callbacks catcodes characters chemistry
commands containers context converters
coroutine ctxrunner debug dir directives
document documentdata environment epdf
experiments figures file floats font
fontloader fonts functions global graphics
gzip img interactions interfaces io jit job
lang languages layouts lfs libraries lmx
logs lpdf lpeg ltn12 lua luatex lxml math
mathematics mbox md5 metapost mime
moduledata modules mp mplib newtoken noads
node nodes number os package pagebuilders
parametersets pdf pdfscanner physics
profiler publications regimes resolvers
sandbox scripts set socket sorters
statistics status storage streams string
structures table tex texconfig texio
thirddata tokens tracers trackers
typesetters unicode url userdata utilities
vf visualizers xml zip zlib

ConTeXt MkIV

global (alias: _G)

MP	table	**figures**	table
_LUAVERSION	number	**file**	table
_MAJORVERSION	number	**floats**	table
_MINORVERSION	number	**font**	table
arg	table	**fontloader**	table
assert	function	**fonts**	table
attributes	table	**frozen**	boolean
backends	table	**functions**	table
beginpage	function	**gcinfo**	function
bit	table	**getfenv**	function
bit32	table	**getmetatable**	function
blobs	table	**getpos**	function
boolean	table	**getvpos**	function
buffers	table	**global**	table
builders	table	**graphics**	table
caches	table	**gzip**	table
callback	table	**img**	table
callbacks	table	**inspect**	function
catcodes	table	**interactions**	table
characters	table	**interfaces**	table
chemistry	table	**io**	table
collectgarbage	function	**ipairs**	function
commands	table	**jit**	table
containers	table	**job**	table
context	function	**lang**	table
converters	table	**languages**	table
coroutine	table	**layouts**	table
ctx_doifelse	function	**lfs**	table
ctxrunner	table	**libraries**	table
debug	table	**lmx**	table
dimen	function	**load**	function
dir	table	**loadfile**	function
directives	table	**loadstring**	function
document	table	**logs**	table
documentdata	table	**lpdf**	table
dofile	function	**lpeg**	table
endpage	function	**ltn12**	table
environment	table	**lua**	table
epdf	table	**luatex**	table
error	function	**lxml**	table
experiments	table	**math**	table

mathematics	table		**setfenv**	function
mbox	table		**setinspector**	function
md5	table		**setmetatable**	function
metapost	table		**socket**	table
mime	table		**sorters**	table
module	function		**statistics**	table
moduledata	table		**status**	table
modules	table		**storage**	table
mp	table		**streams**	table
mplib	table		**string**	table
newproxy	function		**structures**	table
newtoken	table		**swiglib**	function
next	function		**table**	table
noads	table		**tex**	table
node	table		**texconfig**	table
nodes	table		**texio**	table
number	table		**thirddata**	table
optionalrequire	function		**toboolean**	function
os	table		**tokens**	table
outputpagestree	function		**tonumber**	function
package	table		**tostring**	function
pagebuilders	table		**tracers**	table
pairs	function		**trackers**	table
parametersets	table		**type**	function
pcall	function		**typesetters**	table
pdf	table		**unicode**	table
pdfscanner	table		**unpack**	function
physics	table		**url**	table
print	function		**userdata**	table
profiler	table		**utf**	table
protect	function		**utilities**	table
publications	table		**vf**	table
rawequal	function		**visualizers**	table
rawget	function		**xml**	table
rawlen	function		**xpcall**	function
rawset	function		**zip**	table
regimes	table		**zlib**	table
require	function			
resolvers	table			
resolvestoredfunction	function			
sandbox	table			
scripts	table			
select	function			
set	table			

attributes (context)

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
- B couple
- D data
- N default
- F defineintermediatecolor
- F definemultitonecolor
- F defineprocesscolor
- F definesimplegray
- F definespotcolor
- F definetransparency
- F enable
- F filter
- F forcedmodel
- F forcesupport
- F formatcolor
- F formatgray
- F gray
- F graytohsv
- F handler
- F hsvtogray
- F hsvtorgb
- F iccprofile
- F isblack
- N main
- S model
- D models
- F mpcolor
- F mpnamedcolor
- F mpoptions

- U none
- F popset
- F processcolorcomponents
- F pushset
- F register
- D registered
- F registerspotcolor
- F rgb
- F rgbtocmyk
- F rgbtogray
- F rgbtohsv
- N selector
- F setlist
- F setmodel
- D sets
- F spec
- F spot
- F spotcolorname
- F spotcolorparent
- F spotcolorvalue
- B supported
- F transparencycomponents
- B triggering
- F usecolors
- F value
- D values
- B weightgray

define   function

effects   table
- N attribute
- D data
- F enable
- F handler
- F register
- D registered
- D values

handlers   table

list   data table

names   data table

negatives   table
- N attribute

D	data	D	registered
F	enable	F	resolve_begin
F	handler	F	resolve_end
F	register	F	resolve_reset
D	registered	F	resolve_step
numbers	data table	D	scopes
ofnode	function	F	setfeatures
private	function	F	start
public	function	F	stop
showcurrent	function	B	supported
states	table	D	values

states table
    F disabletriggering
    F enabletriggering
    F finalize
    F initialize
    F process
    F selective
    F stacked
    F stacker

system function
transparencies table
    N attribute
    D data
    F enable
    F forcesupport
    F handler
    U none
    F register
    D registered
    B supported
    B triggering
    F value
    D values

unsetvalue number
viewerlayers table
    N attribute
    D data
    F define
    F enable
    F forcesupport
    F handler
    B hasorder
    D listwise
    F register

backends (context)

codeinjections table
   F synchronizecolormodel
current   string
defaults   table
   T codeinjections
    F gethpos
    F getmatrix
    F getpos
    F getvpos
    F hasmatrix
   T nodeinjections
   T registrations
   D tables
install   function
nodeinjections table
   F restore
   F save
   F transform
nothing   function
pdf   table
   T codeinjections
    F addbookmarks
    F attachmentid
    F clonefield
    F definefield
    F definefieldset
    F defineviewerlayer
    F embedfile
    F enabletags
    F exportformdata
    F getbookmarks
    F getdefaultfieldvalue
    F getfieldcategory
    F getfieldset
    F getformatoption
    F gethpos
    F getmatrix
    F getoutputfilename
    F getpos
    F getpreviewfigure
    F getvpos

    F hasmatrix
    F insertrenderingwindow
    F mergebookmarks
    F mergereferences
    F mergeviewerlayers
    F prerollreference
    F presetsymbol
    F presetsymbollist
    F processrendering
    F registerdocumentcloseaction
    F registerdocumentopenaction
    F registeredsymbol
    F registerpagecloseaction
    F registerpageopenaction
    F registersymbol
    F setfieldcalculationset
    F setfigurealternative
    F setfigurecolorspace
    F setfiguremask
    F setformat
    F setformsmethod
    F setpagetransition
    F setupcanvas
    F setupidentity
    F setxmpfile
    F startlayer
    F stoplayer
    F supportedformats
    F unicodetoactualtext
    F useviewerlayer
    F validfield
    F validfieldcategory
    F validfieldset
   S comment
   T nodeinjections
    F addtags
    F annotation
    F attachfile
    F changestackedlayer
    F cmykcolor
    F comment

```
         F destination
         F effect
         F graycolor
         F injectbitmap
         F insertmovie
         F insertsound
         F insertswf
         F insertu3d
         F knockout
         F negative
         F overprint
         F positive
         F reference
         F rgbcolor
         F spotcolor
         F startlayer
         F startstackedlayer
         F stoplayer
         F stopstackedlayer
         F transparency
         F typesetfield
       T registrations
         F cmykindexcolor
         F cmykspotcolor
         F getspotcolorreference
         F grayindexcolor
         F grayspotcolor
         F rgbindexcolor
         F rgbspotcolor
         F spotcolorname
         F transparency
       T tables
         D vfspecials
```

registrations	table
tables	table

bit (context)

arshift	function
band	function
bnot	function
bor	function
bswap	function
bxor	function
lshift	function
rol	function
ror	function
rshift	function
tobit	function
tohex	function

bit32 (basic lua)

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
tohpackfast	function
tonodes	function
tovpack	function
tovpackfast	function
write	function

boolean (context)

tocontext   function
tonumber   function

buffers (context)

append	function
assign	function
collectcontent	function
erase	function
exists	function
getcontent	function
getlines	function
loadcontent	function
parallel	table
F define	
F hassomecontent	
F next	
F place	
F reset	
F save	
prepend	function
raw	function
undent	function

builders (context)

kernel   table
  F hyphenation
  F kerning
  F ligaturing
  F mlist_to_hlist
  T originals
   F hyphenate
   F kerning
   F ligaturing
paragraphs table
  T constructors
   N attribute
   F define
   F disable
   F enable
   F handler
   T methods
    F basic
    F default
    F oneline
   D names
   D numbers
   F set
   F start
   F stop
  T expansion
   F trace
  F keeptogether
  F registertogether
  T solutions
   T splitters
    F define
    F optimize
    T registered
    F reset
    F set
    F split
    F start
    F stop
  F tag
vspacing table

F analyze
D categories
F collapsevbox
T data
 D map
 D skip
 D snapmethods
F definesnapmethod
B fixed
F pagehandler
F resetprevdepth
F setmap
F setskip
F snapbox
F tocategories
F tocategory
F vboxhandler

caches (context)

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

callback (basic tex)

find   function
list   function
register overloaded function

callbacks (context)

freeze	function
known	function
list	data table
pop	function
push	function
register	function
report	function

catcodes (context)

names   data table
numbers data table
register function

characters (context)

activeoffset	number	S ai	
adobename	function	S al	
bidi	data table	S b2	
blockrange	function	S ba	
blocks	data table	S bb	
casemap	table	S bk	
categories	data table	S cb	
category	function	S cj	
categorytags	data table	S cl	
collapsed	data table	S cm	
combined	data table	S cp	
contextname	function	S cr	
data	data table	S ex	
decomposed	data table	S gl	
define	function	S h2	
description	function	S h3	
descriptions	data table	S hl	
directions	table	S hy	
enccodes	data table	S id	
entities	data table	S in	
fallbacks	data table	S is	
filters	data table	S jl	
fromnumber	function	S jt	
fschars	data table	S jv	
fscodes	data table	S lf	
getrange	function	S nl	
graphemes	data table	S ns	
hangul	data table	S nu	
initialize	function	S op	
is_character	data table	S po	
is_command	data table	S pr	
is_letter	data table	S qu	
is_mark	data table	S ri	
is_punctuation	data table	S sa	
is_spacing	data table	S sg	
lcchars	data table	S sp	
lccode	function	S sy	
lccodes	data table	S wj	
lettered	function	S xx	
lhash	data table	S zw	
linebreaks	table	**lower**	function

math	table
mathpairs	data table
mirrors	table
otfscripts	data table
ranges	data table
registerentities	function
remap_hangul_syllabe	function
setcodes	function
shape	function
shaped	function
shash	data table
shchars	data table
shcodes	data table
showstring	function
specialchars	data table
specials	data table
splits	table
T char	
T compat	
subscripts	table
superscripts	table
synonyms	data table
tex	table
D accentmapping	
D commandmapping	
F defineaccents	
F safechar	
F toutf	
F toutfpattern	
textclasses	table
tonumber	function
ucchars	data table
uccode	function
uccodes	data table
uhash	data table
unicodechar	function
upper	function

chemistry (context)

component	function
define	function
definitions	data table
format	string
instance	string
molecule	function
moleculeparser	userdata
start	function
stop	function
structures	number
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		**month**	function
AK	function		**nofdays**	function
Alphabetic	function		**number**	function
Character	function		**numbers**	function
Characters	function		**octstringtonumber**	function
Characters:es	function		**ordinal**	function
I	function		**r**	function
KA	function		**rawcharacter**	function
KR	function		**romannumerals**	function
R	function		**second**	function
RK	function		**sequences**	data table
Romannumerals	function		**sloviannumerals**	function
Sloviannumerals	function		**spanishnumerals**	function
Spanishnumerals	function		**textime**	function
Word	function		**toabjad**	function
Words	function		**tochinese**	function
a	function		**toroman**	function
abjadnodotnumerals	function		**upper**	function
abjadnumerals	function		**verbose**	table
alphabetic	function		D data	
character	function		F translate	
characters	function		**weekday**	function
characters:es	function		**word**	function
chineseallnumerals	function		**words**	function
chinesecapnumerals	function		**year**	function
chinesenumerals	function			
chr	function			
chrs	function			
cn	function			
cn-a	function			
cn-c	function			
convert	function			
define	function			
hexstringtonumber	function			
hour	function			
i	function			
isleapyear	function			
leapyear	function			
lower	function			
maxchrs	function			
minute	function			

coroutine (basic lua)

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

ctxrunner (context)

load   function
prepfiles data table
resolve function

debug (basic lua)

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

dir (context)

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

directives (context)

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

document (context)

arguments	data table
files	table
getargument	function
getfilename	function
options	table
T commandline	
D environments	
D modes	
D modules	
T ctxfile	
D environments	
D modes	
D modules	
setargument	function
setdefaultargument	function
setfilename	function
variables	data table

environment (context)

argument	function	**texroot**	string
arguments	data table	**truefilename**	function
basicengines	data table	**validengines**	data table
currentrun	number		
default_texmfcnf	string		
engineflags	data table		
filename	string		
files	table		
filesynonyms	data table		
forcedruns	number		
getargument	function		
homedir	string		
initex	boolean		
initializearguments	function		
initializefilenames	function		
inputfilebarename	string		
inputfilename	string		
inputfilesuffix	string		
jobfilename	string		
jobfilesuffix	string		
kindofrun	number		
loadluafile	function		
luafile	function		
luafilechunk	function		
maxnofruns	number		
originalarguments	data table		
outputfilename	string		
ownbin	string		
ownmain	string		
ownname	string		
ownpath	string		
prerollrun	boolean		
rawarguments	data table		
reconstructcommandline	function		
relativepath	function		
setargument	function		
splitarguments	function		
suffix	string		
texfile	function		
texmfos	string		
texos	string		

epdf (extra tex)

Array	function
Attribute	function
AttributeOwner_Type	function
Attribute_Type	function
Dict	function
Object	function
PDFRectangle	function
StructElement_Type	function
open	overloaded function
type	function

experiments (context)

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

figures (context)

applyratio	function		F totable
badname	function		F types
bases	data table		F write
bitmapimage	function	**include**	function
boxnumber	number	**includers**	data table
cachepaths	data table	**initialize**	function
check	function	**loaded**	data table
checkers	data table	**localpaths**	data table
converters	data table	**magics**	data table
current	function	**mergegoodies**	function
defaultdepth	number	**nofprocessed**	number
defaultheight	number	**order**	data table
defaultsearch	boolean	**paths**	data table
defaultwidth	number	**patterns**	data table
done	function	**pop**	function
dummy	function	**preferquality**	boolean
existers	data table	**programs**	data table
exists	function	**push**	function
formats	data table	**registerpattern**	function
found	data table	**registerresource**	function
get	function	**registersuffix**	function
getrealpage	function	**resources**	data table
guess	function	**scale**	function
hash	function	**setlookups**	function
identifiers	data table	**setorder**	function
identify	function	**setpaths**	function
images	table	**suffixes**	data table
	F boxes	**used**	data table
	F check		
	F checksize		
	F clone		
	F copy		
	F immediatewrite		
	F keys		
	F new		
	F node		
	F ofindex		
	F package		
	F print		
	F scan		
	F serialize		

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

floats (context)

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

font (basic tex)

current	function
define	function
each	function
fonts	table
frozen	function
getfont	overloaded function
id	function
max	function
nextid	function
read_tfm	function
read_vf	function
setfont	function

fontloader (extra tex)

apply_afmfile	function
apply_featurefile	function
close	function
fields	function
fullinfo	function
info	overloaded function
open	overloaded function
to_table	function
totable	function

fonts (context)

analyzers   table
   T features
    N blwf
    N fina
    N half
    N init
    N isol
    N medi
    N pref
    N pstf
    N rphf
   D initializers
   D methods
   F setstate
   T states
    N blwf
    N fina
    N half
    N init
    N isol
    N mark
    N medi
    N pref
    N pstf
    N rest
    N rphf
   B useunicodemarks
checkers   table
   F getmissing
   F missing
cid   table
   F getmap
   F loadfile
collections   table
   F checkenabled
   F clonevector
   F define
   T definitions
   F prepare
   F process
   F registermain

   F report
   F reset
   T vectors
constructors   table
   F addcoreunicodes
   F aftercopyingcharacters
   F applymanipulators
   F assignmathparameters
   B autocleanup
   F beforecopyingcharacters
   D cache
   B cacheintex
   F calculatescale
   F checkedfeatures
   F checkedfilename
   F checkvirtualids
   F cleanuptable
   F collectprocessors
   F currentfonthasfeature
   D designsizes
   D dontembed
   F enhanceparameters
   N factor
   F finalize
   F getfeatureaction
   F hashfeatures
   F hashinstance
   T hashmethods
    F normal
    F virtual
   F initializefeatures
   T keys
    T character
     S depth
     S height
     S italic
     S width
    T description
     T boundingbox
     S depth
     S height

```
  S width                           S autoitalicamount
T parameters                      T cidinfo
  S ascender                        S embedding
  S descender                       S encodingbytes
  S designsize                      S filename
  T expansion                       S finalized
    S auto                          S fontname
    S shrink                        S format
    S step                          S fullname
    S stretch                       S hasitalics
  S extendfactor                    S hasmath
  S factor                          S mathitalics
  S hfactor                         S mode
  S mathsize                        S name
  T protrusion                      S noglyphnames
    S auto                          S nostackmath
  S quad                            S psname
  S scaledpoints                    S textitalics
  S scriptpercentage                S virtualized
  S scriptscriptpercentage        D loadedfonts
  S size                          S namemode
  S slantfactor                   F newfeatures
  S slantperpoint                 F newhandler
  T spacing                       N noffontsloaded
    S extra                       N nofsharedfonts
    S shrink                      N nofsharedhashes
    S stretch                     N nofsharedvectors
    S width                       N privateoffset
  T synonyms                      F readanddefine
    S em                          F registerfeature
    S ex                          B resolvevirtualtoo
    S extra_space                 F scale
    S extraspace                  F scaled
    S slant                       F setfactor
    S space                       F setname
    S space_shrink                B sharefonts
    S space_stretch               F trytosharefont
    S spaceshrink                 N version
    S spacestretch              current          function
    S x_height                  currentid        function
  S units                       definers         table
  S vfactor                       F addlookup
  S xheight                       F analyze
T properties                      F applypostprocessors
```

F checkedmode	N Escyrillic
F checkedscript	N Fitacyrillic
F current	N Gcedilla
S defaultlookup	N Gdot
F define	N Gecyrillic
F getspecification	N Gheupturncyrillic
F internal	N Gjecyrillic
F loadfont	N Hardsigncyrillic
F makespecification	N IAcyrillic
T methods	N IUcyrillic
F install	N Icyrillic
D variants	N Idot
F read	N Iecyrillic
F register	N Iicyrillic
F registered	N Iishortcyrillic
F registersplit	N Iocyrillic
F resetnullfont	N Izhitsacyrillic
F resolve	N Jecyrillic
T resolvers	N Kacyrillic
F file	N Kcedilla
F name	N Khacyrillic
F spec	N Kjecyrillic
definetypeface function	N Lcedilla
encodings table	N Ljecyrillic
T agl	N Ncedilla
D extras	N Njecyrillic
D names	N Ocyrillic
T synonyms	N Odblacute
N Acyrillic	N Ohm
N Becyrillic	N Pecyrillic
N Cdot	N Rcedilla
N Checyrillic	N Shacyrillic
N Decyrillic	N Shchacyrillic
N Djecyrillic	N Softsigncyrillic
N Dzecyrillic	N Tcedilla
N Dzhecyrillic	N Tecyrillic
N Ecyrillic	N Tsecyrillic
N Edot	N Tshecyrillic
N Efcyrillic	N Ucyrillic
N Elcyrillic	N Udblacute
N Emcyrillic	N Ushortcyrillic
N Encyrillic	N Vecyrillic
N Ercyrillic	N Yatcyrillic
N Ereversedcyrillic	N Yericyrillic

N Yicyrillic
N Zdot
N Zecyrillic
N Zhecyrillic
N acutecmb
N acyrillic
N afii00208
N afii08941
N afii57694
N afii57695
N afii57700
N afii57705
N afii57723
N alef
N alefmaksurainitialarabic
N alefmaksuramedialarabic
N approximatelyequal
N asteriskaltonearabic
N ayin
N bet
N betdagesh
N blackdownpointingtriangle
N blackleftpointingpointer
N blackrectangle
N blackrightpointingpointer
N blacksmilingface
N blacksquare
N blackuppointingtriangle
N bulletinverse
N cdot
N compass
N dagesh
N dalet
N daletdagesh
N dalethatafpatah
N dalethatafpatahhebrew
N dalethatafsegol
N dalethatafsegolhebrew
N dalethebrew
N dalethiriq
N dalethiriqhebrew
N daletholam
N daletholamhebrew
N daletpatah

N daletpatahhebrew
N daletqamats
N daletqamatshebrew
N daletqubuts
N daletqubutshebrew
N daletsegol
N daletsegolhebrew
N daletsheva
N daletshevahebrew
N dalettsere
N dammaarabic
N dammatanaltonearabic
N dargahebrew
N dbllowline
N decimalseparatorarabic
N dialytikatonos
N dotbelowcmb
N doubleyodpatah
N doubleyodpatahhebrew
N edot
N eightarabic
N eighthnotebeamed
N etnahtafoukhhebrew
N etnahtafoukhlefthebrew
N etnahtahebrew
N fathaarabic
N finalkaf
N finalkafdagesh
N finalkafhebrew
N finalkafqamats
N finalkafqamatshebrew
N finalkafsheva
N finalmem
N finalnun
N finalpe
N finaltsadi
N fivearabic
N forall
N fourarabic
N gcedilla
N gdot
N gimel
N gimeldagesh
N gravecmb

N haaltonearabic
N hamzaarabic
N hamzadammaarabic
N hamzadammatanarabic
N hamzafathaarabic
N hamzafathatanarabic
N hamzalowarabic
N hamzalowkasraarabic
N hamzalowkasratanarabic
N hatafpatah
N hatafpatah16
N hatafpatah23
N hatafpatah2f
N hatafpatahhebrew
N hatafpatahnarrowhebrew
N hatafpatahquarterhebrew
N hatafqamats
N hatafqamats1b
N hatafqamats28
N hatafqamats34
N hatafqamatshebrew
N hatafqamatsnarrowhebrew
N hatafqamatsquarterhebrew
N hatafsegol
N hatafsegol17
N hatafsegol24
N hatafsegol30
N hatafsegolhebrew
N hatafsegolnarrowhebrew
N hatafsegolquarterhebrew
N he
N hedagesh
N hehfinalalttwoarabic
N het
N hiriq
N hiriq14
N hiriq21
N hiriq2d
N hiriqhebrew
N hiriqnarrowhebrew
N hiriqquarterhebrew
N holam
N holam19
N holam26

N holam32
N holamhebrew
N holamnarrowhebrew
N holamquarterhebrew
N ilde
N integralbottom
N integraltop
N kaf
N kafdagesh
N kashidaautoarabic
N kashidaautonosidebearingarabic
N kcedilla
N lamed
N lameddagesh
N lamedhebrew
N lamedholam
N lamedholamdagesh
N lamedholamdageshhebrew
N laminitialarabic
N lammeemjeeminitialarabic
N lcedilla
N logicalnotreversed
N mahapakhhebrew
N mem
N memdagesh
N merkhahebrew
N merkhakefulahebrew
N middot
N munahhebrew
N nbspace
N ncedilla
N newsheqelsign
N ninearabic
N noonhehinitialarabic
N nun
N nundagesh
N odblacute
N onearabic
N overscore
N patah
N patah11
N patah1d
N patah2a
N patahhebrew

N patahnarrowhebrew
N patahquarterhebrew
N pe
N pedagesh
N qamats
N qamats10
N qamats1a
N qamats1c
N qamats27
N qamats29
N qamats33
N qamatsde
N qamatshebrew
N qamatsnarrowhebrew
N qamatsqatanhebrew
N qamatsqatannarrowhebrew
N qamatsqatanquarterhebrew
N qamatsqatanwidehebrew
N qamatsquarterhebrew
N qof
N qofdagesh
N qofhatafpatah
N qofhatafpatahhebrew
N qofhatafsegol
N qofhatafsegolhebrew
N qofhebrew
N qofhiriq
N qofhiriqhebrew
N qofholam
N qofholamhebrew
N qofpatah
N qofpatahhebrew
N qofqamats
N qofqamatshebrew
N qofqubuts
N qofqubutshebrew
N qofsegol
N qofsegolhebrew
N qofsheva
N qofshevahebrew
N qoftsere
N qubuts
N qubuts18
N qubuts25

N qubuts31
N qubutshebrew
N qubutsnarrowhebrew
N qubutsquarterhebrew
N quoteleftreversed
N rafe
N rcedilla
N reharabic
N resh
N reshhatafpatah
N reshhatafpatahhebrew
N reshhatafsegol
N reshhatafsegolhebrew
N reshhebrew
N reshhiriq
N reshhiriqhebrew
N reshholam
N reshholamhebrew
N reshpatah
N reshpatahhebrew
N reshqamats
N reshqamatshebrew
N reshqubuts
N reshqubutshebrew
N reshsegol
N reshsegolhebrew
N reshsheva
N reshshevahebrew
N reshtsere
N reviahebrew
N samekh
N samekhdagesh
N segol
N segol13
N segol1f
N segol2c
N segolhebrew
N segolnarrowhebrew
N segolquarterhebrew
N sevenarabic
N sfthyphen
N shaddaarabic
N sheqel
N sheva

```
N sheva115                          N yoddagesh
N sheva15                           N zayin
N sheva22                           N zayindagesh
N sheva2e                           N zdot
N shevahebrew                       N zeroarabic
N shevanarrowhebrew               D unicodes
N shevaquarterhebrew            D cache
N shin                          F is_known
N shindagesh                    D known
N shindageshshindot             F load
N shindageshsindot              F make_unicode_vector
N shinshindot                   D math
N shinsindot                    N version
N siluqhebrew             expansions     data table
N sixarabic               formats        data table
N tav                     goodies        table
N tavdages                      D colorschemes
N tavdagesh                     D data
N tcedilla                      D designsizes
N tchehinitialarabic            D filenames
N tet                           F getcompositions
N tetdagesh                     T list
N tevirhebrew                     F compositions
N thousandsseparatorarabic        F designsizes
N threearabic                     F expansions
N tildecmb                        F featureset
N tipehahebrew                    F filenames
N tsadi                           F files
N tsadidagesh                     F mathematics
N tsere                           F protrusions
N tsere12                         F solutions
N tsere1e                         F treatments
N tsere2b                         F typefaces
N tserehebrew                   F load
N tserenarrowhebrew             F prepare_features
N tserequarterhebrew            F register
N twoarabic                     F registerpostprocessor
N udblacute                     F report
N vav                     handlers       table
N vavdagesh                     T afm
N vavdagesh65                     B addkerns
N vavholam                        B addligatures
N yerahbenyomohebrew              B addtexligatures
N yod                             B autoprefixed
```

```
  D cache                                F gsub_ligature
  D features                             F gsub_multiple
  T helpdata                             F gsub_reversecontextchain
    D bothkerned                         F gsub_single
    D leftkerned                       F load
    D ligatures                        F scriptandlanguage
    D rightkerned                      F setcontextchain
    D texligatures                     F setdynamics
  F load                               F setfeatures
  F setfeatures                        T statistics
  B syncspace                            D usedfeatures
  N version                            T tables
T otf                                    D baselines
  F addfeature                           D features
  D cache                                D languages
  T chainhandlers                        D scripts
    F normal                           N version
    F verbose                        T pfb
  F collectlookups                   T tfm
  F dataset                            D features
  S defaultbasealternate               F setfeatures
  S defaultnodealternate             T vf
  D enhancers                          T combinations
  D features                           F combine
  F fileformat                         T combiner
  F getalternate                         D commands
  T glists                             F find
  T handlers                           D helpers
    F contextchain                     D math
    F devanagari_remove_joiners        D predefined
    F devanagari_reorder_matras        D whatever
    F devanagari_reorder_pre_base_reordering_consonants    table
    F devanagari_reorder_reph          D characters
    F gpos_context                     D csnames
    F gpos_contextchain                D descriptions
    F gpos_cursive                     D dynamics
    F gpos_mark2base                   D emwidths
    F gpos_mark2ligature               D exheights
    F gpos_mark2mark                   D extensibles
    F gpos_pair                        D features
    F gpos_single                      D identifiers
    F gsub_alternate                   D italics
    F gsub_context                     D lastmathids
    F gsub_contextchain                D marks
```

D	modes	F	loadlumtable
D	originals	F	makenameparser
D	parameters	D	overloads
T	processes	F	reset
D	properties	F	tounicode
D	quads	F	tounicode16
D	resources	F	tounicode16sequence
T	setdynamics	**mp**	table
D	spaces	D	cache
D	spacings	B	inline
D	unicodes	N	version
D	xheights	**names**	data table
helpers	table	**nulldata**	data table
F	addprivate	**protrusions**	data table
F	dimenfactor	**readers**	table
F	expandglyph	F	afm
F	fontpatternhassize	F	check_lua
F	getdigitwidth	F	check_tfm
F	getparameters	F	dfont
F	getprivatenode	F	lua
F	hasprivate	F	opentype
F	indextoslot	F	otf
F	name	F	pfb
F	nametoslot	D	sequence
F	setdigitwidth	F	tfm
F	splitfontpattern	F	ttc
F	tochar	F	ttf
iterators	table	**select**	table
F	characters	T	data
F	descriptions	F	definetypeface
F	glyphs	T	fallbacks
loggers	table	F	filterinput
F	add_placeholders	T	methods
D	category_to_placeholder	F	default
F	format	F	features
F	onetimemessage	F	file
F	register	F	goodies
F	reportdefinedfonts	F	name
F	reportusedfeatures	F	selectfont
mappings	table	F	simplefonts
F	addtounicode	F	spec
F	fromunicode16	F	style
F	loadfile	F	registerfallback
F	loadline	F	searchfiles

specifiers table

　　D contextmerged

　　F contextnumber

　　D contextnumbers

　　D contextsetups

　　F contexttostring

　　F definecontext

　　F mergecontext

　　F presetcontext

　　F registercontext

　　F showcontext

　　F splitcontext

　　D synonyms

　　D variants

symbols table

　　F uselibrary

tables table

tracers table

treatments table

　　F applyfixes

　　D data

　　S filename

　　F ignoredfile

　　F report

　　F trace

typefaces data table

functions (context)

dummy function

graphics (context)

backgrounds table
    F calculatemultipar
    F fetchmultipar
    F pair
    F path
    F point

gzip (extra lua)

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

img (basic tex)

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

interactions (context)

attachments data table
fields   table
   F clone
   F define
   F defineset
   F insert
general   table
   F getidentity
   F setupidentity
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 setclosedocument
   F setclosepage
   F setopendocument
   F setopenpage
renderings data table
soundclips data table

interfaces (context)

addvalidkeys	function	F MPw
cachedsetups	data table	F MPx
cachesetup	function	F MPxy
checkedspecification	function	F MPxywhd
complete	data table	F MPy
constants	data table	F addcounter
corenamespaces	data table	F addfeature
definecommand	function	F addtolist
doifelsemessage	function	F analyzelist
elements	data table	F assignbuffer
formats	data table	F autofinishstructurelevels
getcheckedparameters	function	F autonextstructurelevel
getmessage	function	F bposcolumn
hashedsetups	data table	F bposcolumnregistered
implement	function	F btxauthorfield
interfacedcommand	function	F btxdetail
interfaces	table	F btxdirect
invalidkey	function	F btxdoif
is_command	function	F btxdoifelse
namespaces	table	F btxdoifelsesameasprevious
F define		F btxdoifnot
F list		F btxfield
registernamespace	function	F btxfieldname
scanners	table	F btxfieldtype
F MPc		F btxfirstofrange
F MPd		F btxflush
F MPh		F btxfoundname
F MPll		F btxfoundtype
F MPlr		F btxoneorrange
F MPls		F btxsingularplural
F MPn		F checkcountersetup
F MPp		F chemicalcomponent
F MPpardata		F cleanupbox
F MPplus		F colorcomponents
F MPpos		F copyposition
F MPposset		F countervalue
F MPr		F currentbtxfirstnames
F MPrest		F currentbtxinitials
F MPrs		F currentbtxjuniors
F MPul		F currentbtxsurnames
F MPur		F currentbtxvons

F currentsectiontolist
F decrementcounter
F decrementedcounter
F decrementsubcounter
F definecounter
F definefont_one
F definefont_two
F definefontfeature
F defineintermediatecolor
F definemarking
F definemultitonecolorglobal
F defineprocesscolordummy
F defineprocesscolorglobal
F defineprocesscolorlocal
F definesnapmethod
F definespotcolorglobal
F definetransparency
F defrostrandomseed
F depthnumber
F disableregime
F discardfromlist
F doifblackelse
F doifcounter
F doifdrawingblackelse
F doifelsebuffer
F doifelsecounter
F doifelsecurrentfonthasfeature
F doifelsemarking
F doifelsemessage
F doifelsepositionsused
F doifelserangeonpage
F doiffileexistselse
F doifinelementelse
F doiflisthasentry
F doiflisthasnumberelse
F doiflisthaspageelse
F doiflisthastitleelse
F doifnotcounter
F doifobjectreferencefoundelse
F doifoverlappingelse
F doifparentfileelse
F doifpathexistselse
F doifposition
F doifpositionelse

F doifpositiononpageelse
F doifpositionsonsamepageelse
F doifpositionsonthispageelse
F dosaveposition
F dosavepositionplus
F dosavepositionwhd
F dosetposition
F dosetpositionbox
F dosetpositionplus
F dosetpositionstrut
F dosetpositionwhd
F enableregime
F enhancelist
F eposcolumn
F eposcolumnregistered
F erasebuffer
F featureattribute
F featurelist
F feedback
F fetchallmarks
F fetchmultipar
F fetchmultishape
F fetchonemark
F fetchposboxes
F fetchtwomarks
F figure_check
F figure_done
F figure_dummy
F figure_identify
F figure_include
F figure_pop
F figure_push
F figure_scale
F figurefilename
F figurefilepath
F figurefiletype
F figurerequest
F figurestatus
F figureused
F finalizebox
F firstcountervalue
F firstsubcountervalue
F fontchar
F fontcharbyindex

F formatcolor	F mpgettext
F formatgray	F mpgraphic
F freezerandomseed	F mpoptions
F getbodyfontsizes	F mprunset
F getbuffer	F mpruntab
F getbufferctxlua	F mprunvar
F getbuffermkvi	F mpsetclippath
F getelementtag	F mpsetoutercolor
F getfullstructurenumber	F mpsetsxsy
F getmarking	F mpsettext
F getmessage	F mptexget
F getmpextensions	F mptexreset
F getrandomdimen	F mptexset
F getrandomfloat	F mptexsetfrombuffer
F getrandomnumber	F namedstructureuservariable
F getrandomseed	F namedstructurevariable
F getsomefullstructurenumber	F nbfs
F getsomestructurenumber	F nextcountervalue
F getspecificstructuretitle	F nextsubcountervalue
F getstructurelevel	F objectnumber
F getstructurenumber	F objectpage
F gettexbuffer	F parpos
F incrementcounter	F pdfrotation
F incrementedcounter	F pdfstartmatrix
F incrementsubcounter	F pdfstartmirroring
F lastcountervalue	F pdfstartrotation
F lastsubcountervalue	F pdfstartscaling
F listgroupindex	F pdfstopmatrix
F listlabel	F pdfstopmirroring
F listlocation	F pdfstoprotation
F listprefixednumber	F pdfstopscaling
F listprefixedpage	F pgfxcolorspec
F listrealpage	F pickupbuffer
F listsize	F poplist
F listtitle	F popregime
F listuserdata	F popsectionblock
F markingnumber	F prefixedconverted
F markingtitle	F prevcountervalue
F markregionbox	F previoussubcountervalue
F markregionboxcorrected	F processbodyfontsizes
F markregionboxtagged	F processbuffer
F mpcolor	F processcolorcomponents
F mpflushliteral	F processlist
F mpflushreset	F processsynonyms

F purefontname	F setfontfeature
F pushlist	F setfontofid
F pushregime	F setinterfaceconstant
F pushsectionblock	F setinterfaceelement
F rawcountervalue	F setinterfacemessage
F rawsubcountervalue	F setinterfacemessages
F registerbodyfontsize	F setinterfacevariable
F registerfigurepattern	F setinternalreference
F registerfiguresuffix	F setmarking
F registerlanguagefeatures	F setmathalphabet
F registermaintextcolor	F setmathattribute
F registernamespace	F setmathstyle
F registersection	F setmpextensions
F registersynonym	F setobject
F registerusedsynonym	F setowncounter
F relatemarking	F setownsubcounter
F replacefeature	F setrandomseed
F replacepospxywhd	F setsectionblock
F reportstructure	F setsectionentry
F resetcounter	F setstructurelevel
F resetfeature	F setstructurenumber
F resetfontfeature	F setsubcounter
F resetmarking	F settagaspect
F resetprevdepth	F settaggedmetadata
F resetsubcounter	F settagproperty
F restartcounter	F settagproperty_b
F restartsubcounter	F settagproperty_n
F restorecounter	F showassignerror
F revivefeature	F showcounter
F runbuffer	F showmessage
F savebuffer	F splitfilename
F savecounter	F spotcolorname
F savedlistnumber	F spotcolorparent
F savedlistprefixednumber	F spotcolorvalue
F savedlisttitle	F startcolorset
F saveobject	F startregime
F savepagedata	F starttag
F setcharactercasing	F starttag_c
F setcolormodel	F starttag_d
F setcounter	F starttag_u
F setelementuserproperties_o	F stopcolorset
F setelementuserproperties_t	F stopregime
F setfigurelookuporder	F stoptag
F setfigurepaths	F structureautocatcodedget

F structurecatcodedget	F xmlconcatrange
F structuregivencatcodedget	F xmlcontext
F structurenumber	F xmlcount
F structuretitle	F xmldelete
F structureuservariable	F xmldirect
F structurevariable	F xmldirectives
F subcountervalue	F xmldirectivesafter
F subcountervalues	F xmldirectivesbefore
F subsubcountervalues	F xmldisplayverbatim
F subtractfeature	F xmldoif
F synchronizemarking	F xmldoifelse
F synonymmeaning	F xmldoifelseempty
F synonymname	F xmldoifelseselfempty
F tochar	F xmldoifelsetext
F transparencycomponents	F xmldoifempty
F type	F xmldoifnot
F typebuffer	F xmldoifnotempty
F typefile	F xmldoifnotselfempty
F useMPlibrary	F xmldoifnottext
F usecolors	F xmldoifselfempty
F usefigurebase	F xmldoiftext
F vspacing	F xmlelement
F vspacingcollapse	F xmlfilter
F vspacingdefine	F xmlfilterlist
F vspacingsetamount	F xmlfirst
F vspacingsnap	F xmlflush
F way	F xmlflushcontext
F writestatus	F xmlflushdocumentsetups
F xmlafterdocumentsetup	F xmlflushlinewise
F xmlaftersetup	F xmlflushspacewise
F xmlall	F xmlfunction
F xmlappenddocumentsetup	F xmlgetindex
F xmlappendsetup	F xmlinclude
F xmlatt	F xmlincludeoptions
F xmlattdef	F xmlinclusion
F xmlattribute	F xmlinclusions
F xmlattributedef	F xmlindex
F xmlbeforedocumentsetup	F xmlinfo
F xmlbeforesetup	F xmlinlineverbatim
F xmlchainatt	F xmllast
F xmlchainattdef	F xmlload
F xmlchecknamespace	F xmlloadbuffer
F xmlcommand	F xmlloaddata
F xmlconcat	F xmlloaddirectives

F	xmlloadregistered	**setelement**	function
F	xmlmain	**setformat**	function
F	xmlmatch	**setmacro**	function
F	xmlname	**setmessage**	function
F	xmlnamespace	**setmessages**	function
F	xmlnonspace	**settranslation**	function
F	xmlpos	**setuserinterface**	function
F	xmlprependdocumentsetup	**setvalidkeys**	function
F	xmlprependsetup	**setvariable**	function
F	xmlraw	**showmessage**	function
F	xmlregisterns	**storedscanners**	data table
F	xmlremapname	**syntax**	data table
F	xmlremapnamespace	**tolist**	function
F	xmlremovedocumentsetup	**translations**	data table
F	xmlremovesetup	**variables**	data table
F	xmlresetdocumentsetups	**writestatus**	function
F	xmlsave		
F	xmlsetcommandtonone		
F	xmlsetcommandtotext		
F	xmlsetentity		
F	xmlsetfunction		
F	xmlsetsetup		
F	xmlsnippet		
F	xmlstartraw		
F	xmlstarttiming		
F	xmlstopraw		
F	xmlstoptiming		
F	xmlstrip		
F	xmlstripanywhere		
F	xmlstripnolines		
F	xmlstripped		
F	xmlstrippednolines		
F	xmltag		
F	xmltexentity		
F	xmltext		
F	xmltobuffer		
F	xmltobufferverbose		
F	xmltofile		
F	xmltoparameters		
F	xmlverbatim		
F	xmlwithindex		
setconstant	function		
setcount	function		
setdimen	function		

io (basic lua)

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

jit (context)

arch   string
attach   function
flush   function
off   function
on   function
opt   table
   F start
os   string
status   function
util   table
   F funcbc
   F funcinfo
   F funck
   F funcuvname
   F ircalladdr
   F traceexitstub
   F traceinfo
   F traceir
   F tracek
   F tracemc
   F tracesnap
version   string
version_num   number

job (context)

comment function
datasets table
   D collected
   F extend
   F getdata
   F setdata
   D tobesaved
disablesave function
files table
   D collected
   F context
   B forcerun
   F run
   D tobesaved
initialize function
load function
loadother function
objects table
   D collected
   F get
   F number
   F page
   F save
   F set
   D tobesaved
pack boolean
packversion number
pagestates table
   D collected
   F extend
   F realpage
   F setstate
   D tobesaved
passes table
   F check
   D collected
   F count
   F define
   F find
   F first
   F get

F getcollected
F getdata
F getfield
F gettobesaved
F inlist
F last
F list
F save
F savetagged
D tobesaved
positions table
   F b_col
   F b_region
   F c
   D collected
   F column
   F copy
   F depth
   F e_col
   F e_region
   F enhance
   F extra
   F get
   F getreserved
   F hangafter
   F hangindent
   F height
   F hsize
   F leftskip
   F lowerleft
   F lowerright
   F markregionbox
   F n
   F onsamepage
   F overlapping
   F p
   F page
   F paragraph
   F parindent
   F position
   F r

```
      F region
      F replace
      F rightskip
      F set
      F setall
      F setdim
      D tobesaved
      F upperleft
      F upperright
      S used
      F width
      F x
      F xy
      F y
register      function
save          function
structure     table
    D collected
    T components
    T tobesaved
      T branches
      S name
      S type
variables     table
    D checksums
    D collected
    F getchecksum
    F makechecksum
    F restore
    F save
    F setchecksum
    D tobesaved
version       number
```

lang (basic tex)

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

languages (context)

associate	function	**numbers**	data table
associated	data table	**postexhyphenchar**	function
association	function	**posthyphenchar**	function
counters	data table	**preexhyphenchar**	function
current	function	**prehyphenchar**	function
data	data table	**registered**	data table
define	function	**replacements**	table
expand	function	F add	
expanders	table	F handler	
frequencies	table	F set	
F averagecharwidth		**righthyphenmin**	function
F getdata		**serializediscretionary**	function
getdata	function	**setexceptions**	function
getnumber	function	**setsynonym**	function
hyphenate	function	**unload**	function
hyphenators	table	**version**	number
T dictionaries		**visualizediscretionaries**	function
D featuresets		**words**	table
F handler		F check	
F popmethod		T data	
F pushmethod		F disable	
F setmethod		F enable	
T traditional		T enablers	
F definefeatures		B enables	
F gettrace		F found	
F hyphenate		F load	
F injecthyphens		T methods	
F installmethod		N threshold	
F lasttrace			
F loadpatterns			
F registerexception			
F registerpattern			
installed	function		
labels	table		
F define			
F split			
lefthyphenmin	function		
loadable	function		
loadwords	function		
logger	table		
F report			

layouts (context)

status table
    F isleftpage
    F leftorrightpagection

lfs (extra lua)

attributes	overloaded function
chdir	overloaded function
currentdir	function
dir	overloaded function
isdir	overloaded function
isfile	overloaded function
lock	function
lock_dir	overloaded function
mkdir	overloaded function
mkdirs	function
readlink	overloaded function
rmdir	overloaded function
setmode	overloaded function
shortname	overloaded function
symlinkattributes	overloaded function
touch	overloaded function
unlock	function

libraries (context)

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

lmx (context)

color	function		**stripcss**	function
convert	function		**tv**	function
convertfile	function		**type**	function
convertstring	function		**urlescape**	function
einject	function		**variable**	function
eprint	function		**variables**	table

color   function
convert   function
convertfile   function
convertstring   function
einject   function
eprint   function
escape   function
finalized   function
finject   function
fprint   function
get   function
getvariables   function
htmfile   function
html   table
   F a
   F td
   F th
include   function
inherited   table
   S color-background-four
   S color-background-one
   S color-background-three
   S color-background-two
   S title
initialize   function
inject   function
lmxfile   function
loadedfile   function
make   function
new   function
overloaderror   function
popupfile   function
print   function
pv   function
report   function
reset   function
result   function
set   function
show   function
showdebuginfo   function
showerror   function

stripcss   function
tv   function
type   function
urlescape   function
variable   function
variables   table
   S color-background-blue
   S color-background-body
   S color-background-green
   S color-background-main
   S color-background-purple
   S color-background-yellow
   S title-default

logs (context)

application	function	**simplelines**	function
categories	function	**start_page_number**	function
direct	function	**status**	function
disable	function	**stop_page_number**	function
enable	function	**subdirect**	function
exporters	table	**subreport**	function
extendbanner	function	**system**	function
flush	function	**texerrormessage**	function
help	function	**writer**	function
messenger	function		
new	function		
newline	function		
poptarget	function		
pushtarget	function		
report	function		
reportbanner	function		
reporter	function		
reporters	table		

   F banner
   F export
   F help
   F info
   F lines
   F version

reportline	function
reportlines	function
setformats	function
setformatters	function
setlogfile	function
setmessenger	function
setprocessor	function
setprogram	function
settarget	function
settimedlog	function
settranslations	function
show	function
show_close	function
show_load	function
show_open	function
simple	function
simpleline	function

lpdf (context)

action	function	**finalizepage**	function
adddocumentcolorspace	function	**finishtransparencycode**	function
adddocumenttextgstate	function	**flushobject**	function
adddocumentpattern	function	**flushstreamfileobject**	function
adddocumentshade	function	**flushstreamobject**	function
addtocatalog	function	**formats**	data table
addtoinfo	function	**frompdfdoc**	function
addtonames	function	**fromsixteen**	function
addtopageattributes	function	**gethpos**	function
addtopageresources	function	**getmatrix**	function
addtopagesattributes	function	**getpos**	function
addxmpinfo	function	**getvpos**	function
annotationspecification	function	**graycode**	function
array	function	**hasmatrix**	function
boolean	function	**id**	function
border	function	**injectxmpinfo**	function
checkedkey	function	**insertxmpinfo**	function
checkedvalue	function	**layerreference**	function
circularshade	function	**limited**	function
cmykcode	function	**linearshade**	function
collectedresources	function	**nametree**	function
color	function	**null**	function
colorspace	function	**number**	function
colorspaceconstants	data table	**pagedestinations**	data table
colorspec	function	**pagereference**	function
colorvalue	function	**pagereferences**	data table
colorvalues	function	**pdfcolor**	function
constant	function	**pdftimestamp**	function
delayedobject	function	**protectresources**	boolean
destinationspecification	function	**rectangle**	function
dictionary	function	**reference**	function
docstring	function	**registerannotation**	function
epdf	table	**registerdestination**	function
F contenttotext		**registerdocumentfinalizer**	function
F expand		**registerpagefinalizer**	function
F expanded		**reserveobject**	function
F getpagecontent		**rgbcode**	function
F getstructure		**rotationcm**	function
F load		**shareobject**	function
F unload		**shareobjectreference**	function
finalizedocument	function	**spotcode**	function

stream	function
string	function
timestamp	function
toeight	function
topdfdoc	function
tosixteen	function
transform	function
transparency	function
transparencycode	function
transparencygroups	table
B none	
transparencyvalue	function
unicode	function
verbose	function

lpeg (basic lua)

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

ltn12 (extra lua)

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

lua (basic tex)

bytecode	table
bytedata	data table
bytedone	table
B toks-new	
collectgarbage	function
delay	function
finalize	function
firstbytecode	number
flush	function
flushdelayed	function
get_functions_table	function
getbytecode	function
getluaname	function
lastbytecode	number
mask	string
messages	data table
name	table
numbers	data table
registercode	function
registeredcodes	function
registerfinalizer	function
registername	function
setbytecode	function
setluaname	function
startupfile	string
version	string

luatex (context)

cleanuptempfiles	function
registerstartactions	function
registerstopactions	function
registertempfile	function
starttime	number

lxml (context)

addindex	function		**flushsetups**	function
all	function		**flushspacewise**	function
applyfunction	function		~~**get_id**~~	~~function~~
att	function		**getid**	function
attribute	function		**getindex**	function
chainattribute	function		**id**	function
checkindex	function		**idsplitter**	userdata
collected	function		**include**	function
command	function		**inclusion**	function
concat	function		**inclusions**	function
concatrange	function		**index**	function
content	function		**info**	function
context	function		**inlineverbatim**	function
convert	function		**installsetup**	function
count	function		**last**	function
delete	function		**load**	function
direct	function		**loadbuffer**	function
directives	table		**loaddata**	function
F after			**loaded**	table
F before			**loadregistered**	function
F handle			**main**	function
F load			**match**	function
F setup			**name**	function
displayverbatim	function		**namespace**	function
doif	function		**nonspace**	function
doifelse	function		**pos**	function
doifelseempty	function		**position**	function
doifelsetext	function		**raw**	function
doifempty	function		**rawroot**	function
doifnot	function		**register**	function
doifnotempty	function		**registerentity**	function
doifnottext	function		**removesetup**	function
doiftext	function		**resetcdata**	function
element	function		**resetsetups**	function
elements	function		**resolvedentity**	function
entities	data table		**root**	function
filter	function		**save**	function
filterlist	function		**serialize**	function
first	function		**setaction**	function
flush	function		**setcdata**	function
flushlinewise	function		**setcommandtonone**	function

setcommandtotext	function
setsetup	function
snippet	function
sorters	table

    F add

    F compare

    F flush

    F reset

    F show

    F sort

splitid	function
startraw	function
stopraw	function
store	function
strip	function
stripped	function
tag	function
text	function
tobuffer	function
tofile	function
toparameters	function
toverbatim	function
verbatim	function
withindex	function
xmltexhandler	data table

math (basic lua)

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

mathematics (context)

addfallbacks	function		**resetitalics**	function
alphabets	data table		**scaleparameters**	function
alternatives	data table		**setalternate**	function
big	function		**setitalics**	function
boldmap	data table		**sets**	data table
categories	table		**styles**	data table
D functions			**syncboth**	function
charactersets	data table		**syncname**	function
checkaccentbaseheight	function		**syncstyle**	function
checkprivateparameters	function		**toname**	function
classes	data table		**tostyle**	function
codes	data table		**tweakaftercopyingfont**	function
define	function		**tweakbeforecopyingfont**	function
dimensions	function		**tweaks**	table
extensiblecode	function		**utfmathaccent**	function
extensibles	data table		**utfmathclass**	function
extrabase	number		**utfmathcommand**	function
extras	table		**utfmathfiller**	function
F add			**utfmathstretch**	function
F copy				
fallbacks	table			
F apply				
F install				
fallbackstyleattr	function			
families	data table			
gaps	data table			
getboth	function			
getstyle	function			
initializeparameters	function			
injectfallbacks	function			
makefont	function			
mapremap	data table			
overloaddimensions	function			
overloadparameters	function			
privatebase	number			
remapalphabets	function			
renderings	table			
D mappings				
D numbers				
D sets				
renderset	function			

mbox (context)

parse	function
parse_from	function
parse_header	function
parse_headers	function
parse_message	function
split_headers	function
split_mbox	function
split_message	function

md5 (extra lua)

HEX	function
crypt	function
dec	function
decrypt	function
exor	function
hex	function
sum	function
sumhexa	function

metapost (context)

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

settext	function
showlog	boolean
svformat	function
tex	table
F get	
F reset	
F set	
texerrors	boolean
textextsdata	function
theclippath	function
totable	function
unload	function
untagvariable	function
variables	table

mime (extra lua)

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
stuff   function
unb64   function
unqp   function
wrap   function
wrapt   table
    F base64
    F default
    F quoted-printable
    F text
wrp   function

mp (context)

_f_   function
dataset   function
datasets table
    F load
format   function
get   table
    F boolean
    F number
    F numeric
    F string
n   function
numeric   function
pair   function
path   function
print   function
quadruple function
quoted   function
size   function
triplet   function

mplib (extra tex)

fields   function
finder   function
finders   table
   F file
get_boolean function
get_number   function
get_numeric function
get_string   function
new   overloaded function
pen_info   function
preprocessed function
version   function

newtoken (basic tex)

create	function
get_next	function
is_token	function
scan_code	function
scan_dimen	function
scan_glue	function
scan_int	function
scan_keyword	function
scan_string	function
scan_token	function
scan_toks	function
scan_word	function
set_macro	function
type	function

noads (context)

handlers   table
    F check
    F classes
    F collapse
    F families
    F italics
    F relocate
    F render
    F resize
    F showtree
    F tags
    F unscript
    F variants
process   function
processors   table
    T collapse
    F mlist_to_hlist
    T relocate
    T render
    T resize
    T unscript

node (basic tex)

copy	function	F protect_glyphs	
copy_list	function	F protrusion_skippable	
count	function	F remove	
current_attr	function	F set_attribute	
dimensions	function	F set_properties_mode	
direct	table	F setbox	
F copy		F setfield	
F copy_list		F setproperty	
F count		F slide	
F current_attr		F tail	
F dimensions		F todirect	
F do_ligature_n		F tonode	
F end_of_math		F tostring	
F first_glyph		F traverse	
F flush_list		F traverse_id	
F flush_node		F unprotect_glyphs	
F flush_properties_table		F unset_attribute	
F free		F usedlist	
F get_properties_table		F vpack	
F getbox		F write	
F getchar		**do_ligature_n**	function
F getfield		**end_of_math**	function
F getfont		**family_font**	function
F getid		**fields**	function
F getleader		**first_character**	function
F getlist		**first_glyph**	function
F getnext		**flush_list**	function
F getprev		**flush_node**	function
F getproperty		**flush_properties_table**	function
F getsubtype		**free**	function
F has_attribute		**get_properties_table**	function
F has_field		**getchar**	function
F has_glyph		**getfield**	function
F hpack		**getfont**	function
F insert_after		**getid**	function
F insert_before		**getleader**	function
F is_direct		**getlist**	function
F is_node		**getnext**	function
F last_node		**getprev**	function
F length		**getproperty**	function
F new		**getsubtype**	function

has_attribute	function
has_field	function
has_glyph	function
hpack	function
id	function
insert_after	function
insert_before	function
is_node	function
kerning	function
last_node	function
length	function
ligaturing	function
mlist_to_hlist	function
new	function
next	function
prev	function
protect_glyphs	function
protrusion_skippable	function
remove	function
set_attribute	function
set_properties_mode	function
setfield	function
setproperty	function
slide	function
subtype	function
tail	function
tostring	function
traverse	function
traverse_id	function
type	function
types	function
unprotect_glyphs	function
unset_attribute	function
usedlist	function
vpack	function
whatsits	function
write	function

nodes (context)

accentcodes	data table	**free_spec**	function
aligned	function	**getattr**	function
append	function	**getattribute**	function
astable	function	**getbox**	function
basepoints	function	**getchar**	function
builders	table	**getfield**	function
F buildpage_filter		**getfont**	function
F vpack_filter		**getid**	function
codes	data table	**getleader**	function
concat	function	**getlist**	function
copy	function	**getnext**	function
copy_list	function	**getprev**	function
copy_spec	function	**getskip**	function
count	function	**getsubtype**	function
current_attr	function	**gluecodes**	data table
delete	function	**glyphcodes**	data table
destinations	table	**glyphdir_is_equal**	data table
N attribute		**glyphdir_is_opposite**	data table
T done		**glyphdir_is_orthogonal**	data table
F handler		**gonuts**	boolean
T stack		**handlers**	table
dimensionfields	data table	F accessibility	
dimensions	function	F alignbackgrounds	
dir_is_pop	data table	F backgrounds	
dir_negation	data table	F characters	
disccodes	data table	F checkforleaks	
discretionarycodes	data table	F checkglyphs	
do_ligature_n	function	F cleanupbox	
end_of_math	function	F cleanuppage	
fasthpack	function	F export	
fencecodes	data table	F finalize	
fields	function	F migrate	
fillcodes	data table	F protectglyphs	
first_character	function	F stripping	
first_glyph	function	F unprotectglyphs	
firstcharacter	function	**has_attribute**	function
firstcharinbox	function	**has_field**	function
firstglyph	function	**has_glyph**	function
flush_list	function	**hpack**	function
flush_node	function	**idstostring**	function
free	function	**ignorablefields**	data table

injections	table	**listablefields**	data table
F copy		**listcodes**	data table
F getligaindex		**listtoutf**	function
F handler		**load**	function
F installnewkern		**locate**	function
F keepcounts		**margincodes**	data table
F reset		**markers**	table
F resetcounts		F get	
F setcursive		**mathcodes**	data table
F setkern		**maxboxwidth**	function
F setligaindex		**mlist_to_hlist**	function
F setmark		**new**	function
F setpair		**noadcodes**	data table
insert_after	function	**nodecodes**	data table
insert_before	function	**nopts**	function
insert_list_after	function	**nuts**	table
installattributehandler	function	F append	
is_direct	function	F concat	
is_display_math	function	F copy	
is_mirrored	data table	F copy_list	
is_node	function	F copy_properties	
is_nut	function	F count	
is_rotated	data table	F current_attr	
kerncodes	data table	F delete	
kerning	function	F dimensions	
keys	table	F do_ligature_n	
T whatsit		F end_of_math	
last_node	function	F fasthpack	
leftmarginwidth	function	F first_glyph	
ligaturing	function	F firstcharacter	
lines	table	F firstcharinbox	
T boxed		F firstglyph	
F register		F flush_list	
F setup		F flush_node	
F stage_one		F free	
F stage_two		F getattr	
F stage_zero		F getattribute	
D data		F getbox	
F finalize		F getchar	
F number		F getfield	
N scratchbox		F getfont	
link	function	F getid	
linked	function	F getleader	
list	function	F getlist	

F getnext
F getprev
F getprop
F getskip
F getsubtype
F has_attribute
F has_field
F has_glyph
F hpack
F insert_after
F insert_before
F insert_list_after
F is_direct
F is_display_math
F is_node
F is_nut
F kerning
F last_node
F leftmarginwidth
F ligaturing
F link
F linked
F locate
F mlist_to_hlist
F nestedtracedslide
F new
T pool
  F baselineskip
  F cleanup
  F disc
  F fontkern
  F glue
  F gluespec
  F glyph
  F hlist
  F kern
  F latelua
  F lateluafunction
  F leftmarginkern
  F leftskip
  F lineskip
  F negatedglue
  F noad
  F pdfannotation

F pdfdestination
F pdfdirect
F pdfliteral
F pdfrestore
F pdfsave
F pdfsetmatrix
F penalty
F register
F rightmarginkern
F rightskip
F rule
F shrink
F special
F stretch
F temp
F textdir
F usage
T userids
  N margins.inline
  N property
  N splitters.one
  N splitters.two
F userlist
F usernumber
F userstring
F usertokens
F vlist
F zeroglue
F prepend
F protect_glyphs
F protrusion_skippable
F reference
F remove
F repackhlist
F replace
F rightmarginwidth
F set_attribute
F setattr
F setattribute
F setattributes
F setbox
F setfield
F setprop
F setunsetattributes

F slide		N attribute	
F somepenalty		D data	
F somespace		F enable	
F tail		F handler	
F takebox		F register	
F tonode		D registered	
F tonodes		D values	
F tonut		F processor	
F tosequence		**points**	function
F tostring		**pool**	table
F tracedslide		F baselineskip	
F traverse		F cleanup	
F traverse_id		F glyph	
T typesetters		F kern	
F fast_hpack		F latelua	
F hpack		F lateluafunction	
F tohpack		F lineskip	
F tohpackfast		F pdfdirect	
F tonodes		F pdfliteral	
F tovpack		F pdfrestore	
F tovpackfast		F pdfsave	
F vpack		F pdfsetmatrix	
F unprotect_glyphs		F register	
F unset_attribute		F rule	
F unsetattribute		F special	
F unsetattributes		F usage	
F untracedslide		F usernumber	
F usedlist		**prepend**	function
F vianodes		**print**	function
F vianuts		**processors**	table
F vpack		B enabled	
F writable_spec		F hpack_filter	
F write		F post_linebreak_filter	
packlist	function	F pre_linebreak_filter	
pardir_is_equal	data table	F tracer	
pardir_is_opposite	data table	**processwords**	function
pardir_is_parallel	data table	**properties**	table
partextdir_is_equal	data table	T actions	
penaltycodes	data table	F delayed	
plugindata	table	F fdelayed	
F finalizer		F immediate	
F initializer		F attach	
S name		T data	
T namespace		F delayed	

protect_glyphs	function		F resetsamples
protrusion_skippable	function		F takesample
pts	function	**somepenalty**	function
reference	function	**somespace**	function
references	table	**stripping**	table
N attribute		T glyphs	
T done		F set	
F handler		**striprange**	function
T stack		**tail**	function
remove	function	**takebox**	function
repackhlist	function	**tasks**	table
replace	function	F actions	
report	function	F appendaction	
rightmarginwidth	function	F disableaction	
rules	table	F disablegroup	
D data		F enableaction	
F define		F enablegroup	
F enable		F freeze	
F handler		F freezegroup	
save	function	F new	
serialize	function	F prependaction	
serializebox	function	F removeaction	
set_attribute	function	F replaceaction	
setattr	function	F restart	
setattribute	function	F setaction	
setattributes	function	F showactions	
setbox	function	F table	
setfield	function	**textdir_is_equal**	data table
setunsetattributes	function	**textdir_is_is**	data table
shifts	table	**textdir_is_opposite**	data table
D data		**textdir_is_parallel**	data table
F define		**tobasepoints**	function
F enable		**tocentimeters**	function
F handler		**tociceros**	function
show	function	**todidots**	function
showboxes	function	**todimen**	function
showcodes	function	**toinches**	function
showlist	function	**tomillimeters**	function
showsimplelist	function	**tonewciceros**	function
skipcodes	data table	**tonewdidots**	function
slide	function	**tonode**	function
snapshots	table	**tonodes**	function
F getparameters		**tonut**	function
F getsamples		**topicas**	function

topoints function
toscaledpoints function
tosequence function
tostring function
totable function
totree function
toutf function
tracers table
  T characters
    F collect
    F equal
    F start
    F string
    F unicodes
  T colors
    F reset
    F set
    F setlist
  F fontchar
  T frequencies
    F register
  T pool
    T nodes
      F rule
    T nuts
      F rule
  F resetproperties
  F rule
  F setlist
  F setproperties
  F start
  T steppers
    F check
    F codes
    F features
    F font
    F glyphs
    F message
    F messages
    F nofsteps
    F register
    F reset
    F start
    F stop

    F stop
  T transparencies
    F reset
    F set
    F setlist
traverse function
traverse_id function
typesetters table
  F hpack
  F tohpack
  F tohpackfast
  F tonodes
  F tovpack
  F tovpackfast
  F vpack
unprotect_glyphs function
unset_attribute function
unsetattribute function
unsetattributes function
usedlist function
vianodes function
vianuts function
visualizebox function
visualizers table
  F box
  F handler
  F markfonts
  F setfont
  F setlayer
  F setvisual
vpack function
whatcodes data table
whatsitcodes data table
writable_spec function
write function

number (context)

	function
basepoints	function
bit	function
bits	function
clearbit	function
dimenfactors	data table
formatted	function
hasbit	function
maxdimen	number
nopts	function
percent	function
points	function
pts	function
setbit	function
signed	function
sparseexponent	function
splitdimen	function
tobasepoints	function
tobitstring	function
tocentimeters	function
tociceros	function
todidots	function
todimen	function
toevenhex	function
toinches	function
tomillimeters	function
tonewciceros	function
tonewdidots	function
tonumberf	function
tonumberg	function
topicas	function
topoints	function
toscaled	function
toscaledpoints	function
toset	function
valid	function

os (basic lua)

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

package (basic lua)

config	string
cpath	string
extralibpath	function
extralibpaths	function
extraluapath	function
extraluapaths	function
helpers	table
libpaths	function
loaded	table
loaders	table
loadlib	function
luapaths	function
path	string
preload	table
searchpath	function
seeall	function

pagebuilders (context)

injections   table
- F flushafter
- F flushbefore
- F save

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

pdf (basic tex)

getcatalog	function
gethpos	function
getinfo	function
getmatrix	function
getnames	function
getpageattributes	function
getpageresources	function
getpagesattributes	function
getpos	function
gettrailer	function
getvpos	function
hasmatrix	function
immediateobj	function
mapfile	function
mapline	function
maxobjnum	function
obj	function
objtype	function
pageref	function
print	function
refobj	function
registerannot	overloaded function
reserveobj	function
setcatalog	overloaded function
setinfo	overloaded function
setnames	overloaded function
setpageattributes	overloaded function
setpageresources	overloaded function
setpagesattributes	overloaded function
settrailer	overloaded function

pdfscanner (context)

scan function

physics (context)

units table
   D tables

profiler (extra lua)

pause   function
resume function
start   function
stop   function

publications (context)

addtexentry	function		S editor
analyze	function		S journal
anywhere	function		S keywords
authorcache	table		S number
authorcollapsers	data table		S pages
casters	table		S title
F author			S volume
F keyword			S year
F pagenumber			T optional
F range			T required
citevariants	table		T sets
F author			T author
F authornum			T virtual
F authoryear		T book	
F authoryears			S category
F category			T extra
F default			T fields
F entry			S address
F index			S author
F key			S edition
F keywords			S editor
F num			S keywords
F page			S number
F serial			S publisher
F short			S subtitle
F tag			S title
F type			S volume
F year			S year
collected	data table		T optional
components	table		T required
F author			T sets
concatstate	function		T author
converttoxml	function		T editionset
currentspecification	table		T virtual
S author		T demo-a	
T categories			S category
T article			T extra
S category			T fields
T extra			S author
T fields			S institution
S author			S organization

```
       S subtitle                              T gskip
       S title                                 T kind
       S year                                  T list
     T optional                                  T system
     T required                                T order
     T sets                          enhancers                 table
       T author                        F details
     T virtual                         F order
   T demo-b                            F suffixes
     S category                      finder                    function
     T extra                         found                     function
     T fields                        get                       function
       S author                      getcasted                 function
       S institution                 getdetail                 function
       S organization                getdirect                 function
       S subtitle                    getfaster                 function
       S title                       getfield                  function
       S year                        getfuzzy                  function
     T optional                      getindex                  function
     T required                      inspectors                data table
     T sets                          journals                  table
       T authors                       F abbreviated
     T virtual                         F add
   S comment                          F expanded
   S copyright                        F load
   T fields                           F save
   S name                           lists                      table
   T types                            F collectentries
     S author                         F fetchentries
     S editor                         F filterall
     S keywords                       F flushentry
     S number                         T methods
     S page                             F dataset
     S pages                            F force
     S volume                           F global
   S version                           F local
   T virtual                          F nofregistered
 datasets                 table       F prepareentries
 detailed                 table       F register
 endnotes_to_btx          function    F sameasprevious
 enhancer                 table       T sorters
   S arguments                          F dataset
   T askip                              F default
   B dirty                              F reference
```

F short		N nofdatasets	
F uservariable		N nofdefinitions	
listvariants	table	N nofshortcuts	
F bib		**tables**	table
F default		D implicits	
F num		D origins	
F page		D privates	
F short		D sets	
F yes		D specials	
load	function	D types	
loadbibdata	function	D virtuals	
loaders	table	**tags**	function
F bbl		**tracers**	table
F bib		F showdatasetauthors	
F buffer		F showdatasetcompleteness	
F endnote		F showdatasetfields	
F lua		F showentry	
F refman		F showfields	
F registercleaner		F showtables	
F xml		F showvariants	
new	function	**typesetters**	table
okay	function	F author	
parenttag	function	F string	
permitted	function	**usedentries**	function
refman_to_btx	function	**writers**	table
resolvedname	function	F author	
save	function	F keyword	
search	function	F pagenumber	
setcategory	function	F range	
setspecification	function		
singularorplural	function		
sortedentries	function		
sortmethods	table		
T authoryear			
T sequence			
specifications	table		
T default			
S author			
S comment			
S copyright			
S name			
S version			
statistics	table		
N nofbytes			

regimes (context)

cleanup	function
disable	function
enable	function
fromregime	function
pop	function
process	function
push	function
toregime	function
translate	function

resolvers (context)

allprefixes	function	**findtexfile**	function
appendhash	function	**findwildcardfile**	function
automount	function	**findwildcardfiles**	function
automounted	table	**formatofsuffix**	function
booleanvariable	function	**formatofvariable**	function
cacheversion	string	**formats**	data table
checkedvariable	function	**generators**	data table
cleanedpathlist	function	**get_from_content**	function
cleanpath	function	**getenv**	function
cleanpathlist	function	**getownpath**	function
concatinators	data table	**getreadfilename**	function
configbanner	string	**hashers**	data table
criticalvars	data table	**homedir**	string
dangerous	data table	**inputstack**	table
datastate	function	**installinputfilehandler**	function
defaultsuffixes	table	**installinputlinehandler**	function
dowithfilesandreport	function	**instance**	table
dowithfilesintree	function	D data	
dowithpath	function	B diskcache	
dowithvariable	function	D environment	
env	function	D expansions	
executers	table	D fakepaths	
expandbraces	function	D files	
expandedpathfromlist	function	B force_suffixes	
expandedpathlist	function	D found	
expandedpathlistfromvariable	function	D foundintrees	
expandpath	function	D hashed	
expandpathfromvariable	function	D hashes	
expansion	function	D lists	
extendtexmfvariable	function	B loaderror	
filtered_from_content	function	D order	
~~**find_file**~~	~~function~~	D pathlists	
~~**find_files**~~	~~function~~	T pathstack	
findbinfile	function	B remember	
findctxfile	function	B renewcache	
finders	data table	B renewtree	
findfile	function	B savelists	
findfiles	function	D setups	
findgivenfile	function	D specification	
findgivenfiles	function	D variables	
findpath	function	**jobpath**	function

jobs	table	**registerfilehash**	function
F currentcomponent		**registerintrees**	function
F currentenvironment		**registermethod**	function
F currentproduct		**registerzipfile**	function
F currentproject		**relations**	data table
F justacomponent		**renew**	function
D processors		**repath**	function
F productcomponent		**reset**	function
F usefile		**resetextrapath**	function
joinpath	function	**resetresolve**	function
load	function	**resolve**	function
loadbinfile	function	**savers**	data table
loaders	data table	**scandata**	function
loadlualib	function	**scanfiles**	function
loadtexfile	function	**schemes**	table
loadtime	function	T cleaners	
locateformat	function	F md5	
locators	data table	F none	
luacnfname	string	F strip	
luacnfspec	string	F cleanname	
luacnfstate	string	F fetchstring	
macros	table	F fetchtable	
F convertfile		F install	
F decodecomment		**setdynamic**	function
F enablecomment		**setenv**	function
F encodecomment		**setinstance**	function
F preprocessed		**showpath**	function
F processmk		**simplescanfiles**	function
F processmkvi		**splitconfigurationpath**	function
F version		**splitexpansions**	function
maxreadlevel	number	**splitmethod**	function
methodhandler	function	**splitpath**	function
newinstance	function	**stackpath**	function
openbinfile	function	**suffixes**	data table
openers	data table	**suffixmap**	data table
openfile	function	**suffixofformat**	function
opentexfile	function	**texdatablob**	function
ownpath	string	**toppath**	function
poppath	function	**unexpandedpath**	function
prefixes	data table	**unexpandedpathlist**	function
prependhash	function	**unresolve**	function
pushpath	function	**updaterelations**	function
registerextrapath	function	**updatescript**	function
registerfile	function	**usertypes**	data table

usezipfile	function
validatedpath	function
variable	function
variableofformat	function
variableofformatorsuffix	function
wildcardpattern	function

sandbox (context)

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

scripts (context)

autofontfeature   table
   F disable
   F enable
   F handler
categorytonumber data table
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
handlers   data table
hash   table
injectors   data table
installdataset function
installmethod   function
numbertocategory data table
numbertodataset data table
numbertohandler data table
reset   function
set   function
splitters   data table

set (context)

contains	function
create	function
tolist	function
tonumber	function
totable	function

socket (extra lua)

BLOCKSIZE number
_DEBUG boolean
_SETSIZE number
bind function
choose function
connect function
connect4 function
connect6 function
dns table
    F getaddrinfo
    F gethostname
    F getnameinfo
    F tohostname
    F toip
ftp table
    S PASSWORD
    N PORT
    N TIMEOUT
    S USER
    F command
    F get
    F open
    F put
gettime function
headers table
    T canonic
      S accept
      S accept-charset
      S accept-encoding
      S accept-language
      S accept-ranges
      S action
      S age
      S allow
      S alternate-recipient
      S arrival-date
      S authorization
      S bcc
      S cache-control
      S cc
      S comments

S connection
S content-description
S content-disposition
S content-encoding
S content-id
S content-language
S content-length
S content-location
S content-md5
S content-range
S content-transfer-encoding
S content-type
S date
S diagnostic-code
S dsn-gateway
S etag
S expect
S expires
S final-log-id
S final-recipient
S from
S host
S if-match
S if-modified-since
S if-none-match
S if-range
S if-unmodified-since
S in-reply-to
S keywords
S last-attempt-date
S last-modified
S location
S max-forwards
S message-id
S mime-version
S original-envelope-id
S original-recipient
S pragma
S proxy-authenticate
S proxy-authorization
S range

S received		**sinkt**	table	
S received-from-mta		F close-when-done		
S references		F default		
S referer		F http-chunked		
S remote-mta		F keep-open		
S reply-to		**skip**	function	
S reporting-mta		**sleep**	function	
S resent-bcc		**smtp**	table	
S resent-cc		S DOMAIN		
S resent-date		N PORT		
S resent-from		S SERVER		
S resent-message-id		N TIMEOUT		
S resent-reply-to		S ZONE		
S resent-sender		F message		
S resent-to		F open		
S retry-after		F send		
S return-path		**source**	function	
S sender		**sourcet**	table	
S server		F by-length		
S smtp-remote-recipient		F default		
S status		F http-chunked		
S subject		F until-closed		
S te		**tcp**	function	
S to		**tcp6**	function	
S trailer		**tp**	table	
S transfer-encoding		N TIMEOUT		
S upgrade		F connect		
S user-agent		**try**	function	
S vary		**udp**	function	
S via		**udp6**	function	
S warning		**url**	table	
S will-retry-until		F absolute		
S www-authenticate		F build		
S x-mailer		F build_path		
http table		F escape		
N PORT		F parse		
N TIMEOUT		F parse_path		
S USERAGENT		F unescape		
F open				
F request				
newtry function				
protect function				
select function				
sink function				

sorters (context)

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

statistics (context)

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

status (basic tex)

list function

storage (context)

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

streams (context)

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

string (basic lua)

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

structures (context)

atlocation function
blocks table
   D collected
   F define
   F print
   F save
   F select
   F setstate
   D states
   D tobesaved
bookmarks table
   T extras
    F get
    F mergesections
    F register
    F reset
    F tosections
   F finalize
   F flatten
   F installhandler
   F merge
   S method
   F overload
   F place
   F register
   F setup
counters table
   F add
   F analyze
   F check
   D collected
   F compact
   F converted
   F currentvalue
   D data
   F define
   F first
   F get
   F last
   F next
   F prev

F previous
F raw
F record
F reset
F restart
F restore
F save
F set
F setlevel
F setoffset
F setown
F setstate
F setvalue
T specials
  F userpage
F subs
D tobesaved
F value
F way
currentsectionnumber function
descriptions table
documents table
   D data
   F initialize
   F preset
   F reset
floats table
formulas table
   F current
   F simplify
   F store
helpers table
   F analyze
   F formulanumber
   F merged
   F page
   F prefix
   F prefixlastpage
   F prefixpage
   F simplify
   F title

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

F	resetpostponed	D	functions
F	restore	F	get
F	save	F	getcurrentmetadata
F	setstate	F	getcurrentprefixspec
F	setsymbolpage	F	getinnermethod
D	states	F	getinternallistreference
F	store	F	getinternalreference
pages	table	D	handlers
F	analyze	F	identify
D	collected	F	import
F	is_odd	F	inject
N	nofpages	F	injectcurrentset
F	number	S	innermethod
F	save	D	internals
D	tobesaved	F	load
references	table	F	loadpresets
F	analyze	F	mark
F	checkedfile	D	pages
F	checkedfileorurl	U	prefixsplitter
F	checkedprogram	D	productdata
F	checkedrealpage	T	programs
F	checkedurl		T data
D	collected		F define
U	componentsplitter		F get
F	currentmetadata	F	realpageofpage
F	currentorder	U	referencesplitter
D	currentset	D	referred
F	define	F	referredpage
D	defined	F	registerfinalizer
D	derived	F	registerinitializer
F	enableinteraction	F	registerpage
F	enhance	F	reportproblems
D	executers	F	reset
F	expandcurrent	D	runners
F	export	F	set
T	files	F	setandgetattribute
	T data	F	setcomponent
	F define	F	setinnermethod
	F get	F	setinternalreference
F	filter	F	setnextinternal
F	filterdefault	F	setnextorder
D	filters	F	setreferencerealpage
D	flaginternals	D	specials
F	from	F	splitcomponent

F	splitprefix	F	unique
F	splitreference	F	userdata
F	synchronizepage	**sections**	table
T	testrunners	F	autodepth
F	inner	F	cct
F	special	D	collected
F	special operation	F	current
F	special operation with arguments	F	currentblock
T	testspecials	F	currentid
F	deltapage	F	currentlevel
F	i	F	currentsectionindex
F	internal	F	depthnumber
F	page	F	finddata
F	realpage	F	findnumber
F	section	F	fullnumber
F	userpage	F	getcurrentlevel
D	tobereferred	F	getlevel
D	tobesaved	F	getnumber
T	urls	F	internalreference
T	data	D	levelmap
F	define	D	levels
F	get	F	load
D	usedinternals	F	matchingtilldepth
D	usedviews	F	numberatdepth
F	valid	F	numbers
F	whatfrom	F	popblock
registers	table	F	prefixedconverted
F	analyze	F	pushblock
D	collected	F	register
F	compare	D	registered
F	define	F	reportstructure
F	enhance	F	save
F	extend	T	sectionblockdata
F	filter	T	bodypart
F	filtercollected	S	bookmark
F	finalize	F	set
F	flush	F	setblock
F	get	F	setchecker
F	prepare	F	setentry
F	process	F	setlevel
F	setmethod	F	setnumber
F	sort	F	structuredata
F	store	F	title
D	tobesaved	D	tobesaved

F	typesetnumber	F	setcombination
F	userdata	F	setdescription
B	verbose	F	setdescriptionsymbol
sets	table	F	setfigure
F	define	F	sethighlight
F	get	F	setitemgroup
F	getall	F	setlist
D	setlist	F	setproperty
specials	table	F	setregister
D	collected	F	setsorting
F	retrieve	F	setsynonym
F	store	F	settablecell
D	tobesaved	F	settabulatecell
synonyms	table	F	setuserproperties
F	analyzed	D	specifications
D	collected	F	start
F	compare	F	stop
F	define	D	taglist
F	filter		
F	finalize		
F	flush		
F	meaning		
F	prepare		
F	process		
F	register		
F	registerused		
F	sort		
F	synonym		
D	tobesaved		
tags	table		
F	elementtag		
F	getid		
F	handler		
D	labels		
F	last		
F	lastinchain		
F	locatedtag		
T	patterns		
U	splitter		
D	properties		
F	registermetadata		
F	restart		
F	setaspect		
F	setattributehash		

table (basic lua)

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

tex (basic tex)

attribute	table	**isdefined**	function
badness	function	**isdimen**	function
box	table	**isskip**	function
catcode	table	**istoken**	function
conditionals	data table	**lccode**	table
constants	data table	**linebreak**	function
count	table	**lists**	table
ctdcatcodes	number	**lua_math_random**	function
ctxcatcodes	number	**lua_math_randomseed**	function
definefont	function	**luacatcodes**	number
delcode	table	**mathcode**	table
dimen	table	**modes**	data table
directives	data table	**nest**	table
enableprimitives	function	**nilcatcodes**	number
error	function	**normal_rand**	function
extraprimitives	function	**notcatcodes**	number
finish	function	**number**	function
fontidentifier	function	**pdffontname**	function
fontname	function	**pdffontobjnum**	function
fprint	function	**pdffontsize**	function
get	function	**pdfpageref**	function
getattribute	function	**pdfxformname**	function
getbox	function	**primitives**	function
getcatcode	function	**print**	function
getcount	function	**prtcatcodes**	number
getdelcode	function	**romannumeral**	function
getdimen	function	**round**	function
getlccode	function	**run**	function
getlist	function	**scale**	function
getmath	function	**set**	function
getmathcode	function	**set_experimental_code**	function
getnest	function	**setattribute**	function
getsfcode	function	**setbox**	function
getskip	function	**setcatcode**	function
gettoks	function	**setcount**	function
getuccode	function	**setdelcode**	function
hashtokens	function	**setdimen**	function
ifs	data table	**setlccode**	function
inicatcodes	number	**setlist**	function
init_rand	function	**setmath**	function
iscount	function	**setmathcode**	function

setnest	function
setsfcode	function
setskip	function
settoks	function
setuccode	function
sfcode	table
shipout	function
show_context	function
skip	table
sp	function
sprint	function
systemmodes	data table
takebox	function
texcatcodes	number
toks	table
tpacatcodes	number
tpbcatcodes	number
tprint	function
trackers	data table
txtcatcodes	number
type	function
uccode	table
uniform_rand	function
uniformdeviate	function
uprint	function
vrbcatcodes	number
write	function

texconfig (basic tex)

error_line   number
expand_depth   number
formatname   string
half_error_line number
hash_extra   number
init   overloaded function
kpse_init   boolean
max_in_open   number
max_print_line number
max_strings   number
nest_size   number
param_size   number
save_size   number
shell_escape   string
stack_size   overloaded number

texio (basic tex)

write   function
write_nl function

tokens (context)

astable function
bgroup userdata
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
collectors table
   T data
   F defaultwords
   F dowithwords
   F flush
   F install
   F register
   T registered
   F show
   F test
compile function
converters table
   S todimen
   S toglue
   S tonumber
   S tostring
egroup userdata
getters table

   F box
   F count
   F dimen
   F token
hbox userdata
istoken function
letter function
letters function
other function
pickup function
printlist function
scanners table
   F boolean
   F code
   F count
   F dimen
   F dimension
   F glue
   F integer
   F keyword
   F lxmlid
   F number
   F scanclose
   F scanopen
   F skip
   F string
   F token
   F tokens
   F toks
   F word
scantable function
setters table
   F box
   F count
   F dimen
   F macro
shortcuts table
   T bits
    N active
    N alignment
    N begingroup

```
  N character                        F tokens
  N close                            F toks
  N comment                          F word
  N endgroup                      F scannumber
  N endofline                     F scanopen
  N escape                        F scanstring
  N ignore                        F scanword
  N invalid                       F todimen
  N letter                        T tokens
  N mathshift                       F astable
  N open                            U bgroup
  N other                           T collectors
  N parameter                         F defaultwords
  N space                             F dowithwords
  N subscript                         F flush
  N superscript                       F install
  N whitespace                        F register
N close                               F show
F inspect                             F test
N open                                F compile
F report                              T converters
F scanboolean                           S todimen
F scanclose                             S toglue
F scancode                              S tonumber
F scandimen                             S tostring
F scandimension                       U egroup
F scaninteger                         T getters
F scankeyword                           F box
T scanners                              F count
  F boolean                             F dimen
  F code                                F token
  F count                             U hbox
  F dimen                             F istoken
  F dimension                         F letter
  F glue                              F letters
  F integer                           F other
  F keyword                           F pickup
  F lxmlid                            F printlist
  F number                            F scantable
  F scanclose                         T setters
  F scanopen                            F box
  F skip                                F count
  F string                              F dimen
  F token                               F macro
```

```
    T shortcuts
      N close
      F inspect
      N open
      F report
      F scanboolean
      F scanclose
      F scancode
      F scandimen
      F scandimension
      F scaninteger
      F scankeyword
      F scannumber
      F scanopen
      F scanstring
      F scanword
      F todimen
      F tonumber
      F tostring
    U vbox
    U vtop
  F tonumber
  F tostring
```

vbox	userdata
vtop	userdata

tracers (context)

count	function
cs	function
dimen	function
knownlist	function
lists	table
	T context
	T internals
	T scratch
name	function
primitive	function
printerror	function
showlines	function
strings	table
	S undefined
toks	function
type	function

trackers (context)

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

typesetters (context)

alignments   table
   F handler
   F set
breakpoints   table
   F define
   F handler
   D mapping
   T methods
   T numbers
   F set
   F setreplacement
cases   table
   T actions
   F handler
   F register
   F set
characteralign   table
   F handler
   F resetcharacteralign
   F setcharacteralign
characters   table
   F handler
   F replacenbsp
   F replacenbspaces
checkers   table
   F handler
   F reset
   F set
cleaners   table
   F handler
   F set
digits   table
   T actions
   F handler
   F set
directions   table
   F getfences
   F getglobal
   F getmethod
   F handler
   T handlers

   F installhandler
   F processmath
   F set
   F setcolor
   F setmath
   F tomode
firstlines   table
   T actions
     F default
     F line
     F word
   F handler
   F set
initials   table
   T actions
     F default
   F handler
   F set
injectors   table
   F check
   T list
   F mark
   F reset
   F set
   F show
italics   table
   F forcevariant
   F handler
   F reset
   F set
kerns   table
   D factors
   F handler
   F keepligature
   B keeptogether
   D mapping
   F set
manipulators   table
   F apply
   F applyspecification
   T methods

```
F Word                                    F construct
F Words                                   F create
F abbreviatedjournal                      F finish_row
F expandedjournal                         F flush
F lowercase                               F initialize_construct
F stripperiod                             F initialize_reflow_height
F uppercase                               F initialize_reflow_width
  T patterns                              F next_row
  U list                                  F reflow_height
  U pair                                  F reflow_width
F splitspecification                      F set_construct
margins        table                      F set_reflow_height
F finalhandler                            F set_reflow_width
F globalhandler
F ha
F localhandler
F save
marksuspects        function
processors     table
F apply
F register
F reset
F split
F startapply
F stopapply
F stripped
F tostring
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
wrappers       table
F handler
xtables        table
F cleanup
```

unicode (extra lua)

ascii   table
- F byte
- F char
- F dump
- F find
- F format
- F gfind
- F gmatch
- F gsub
- F len
- F lower
- F match
- F rep
- F reverse
- F sub
- F upper

grapheme table
- F byte
- F char
- F dump
- F find
- F format
- F gfind
- F gmatch
- F gsub
- F len
- F lower
- F match
- F rep
- F reverse
- F sub
- F upper

latin1   table
- F byte
- F char
- F dump
- F find
- F format
- F gfind
- F gmatch
- F gsub
- F len
- F lower
- F match
- F rep
- F reverse
- F sub
- F upper

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

F utf16_to_utf8_be
F utf16_to_utf8_be_t
F utf16_to_utf8_le
F utf16_to_utf8_le_t
F utf16_to_utf8_t
F utf32_to_utf8_be
F utf32_to_utf8_be_t
F utf32_to_utf8_le
F utf32_to_utf8_le_t
F utf32_to_utf8_t
F utf8_to_utf16
F utf8_to_utf16_be
F utf8_to_utf16_le
F utf8_to_utf8_t
F values
F xstring

url (context)

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

utilities (context)

debugger   table
   F disable
   F enable
   F savestats
   F showstats
   F showtraceback
formatters   table
   F formatcolumns
   F list
   F stripzeros
garbagecollector table
   F check
   N criterium
   B enabled
lua   table
   B alwaysstripcode
   F compile
   F loadedluacode
   F loadstripped
   N nofstrippedbytes
   N nofstrippedchunks
   B stripcode
   T strippedchunks
   F strippedloadstring
   T suffixes
    S lua
    S luc
    S lui
    S luj
    S luv
    S tma
    S tmc
    S tua
    S tuc
packers   table
   F hashed
   F new
   F pack
   F simplehashed
   F strip
   F unpack

   N version
parsers   table
   F add_settings_to_array
   F arguments_to_table
   F array_to_string
   F csvsplitter
   F getparameters
   F groupedsplitat
   F hash_to_string
   F iterator
   F keq_to_hash
   F listitem
   F make_settings_to_hash_pattern
   F mergehashes
   F options_to_hash
   T patterns
    U settings_to_array
    U settings_to_hash_a
    U settings_to_hash_b
    U settings_to_hash_c
    U unittotex
   F process_stripped_settings
   F rfc4180splitter
   F runtime
   F settings_to_array
   F settings_to_array_with_repeat
   F settings_to_hash
   F settings_to_hash_strict
   F settings_to_hash_tolerant
   F settings_to_set
   F simple_hash_to_string
   F splitmethod
   F splitthousands
   F stepper
   F stripped_settings_to_array
   F unittotex
   F unittoxml
report   function
sequencers   table
   F appendaction
   F appendgroup

F	compile	U	prune and collapse
F	disableaction	U	prune and no empty
F	disablegroup	U	retain
F	enableaction	U	retain and collapse
F	enablegroup	U	retain and no empty
D	functions	F	striplines
F	localize	F	striplong
F	new	F	tabtospace
F	nodeprocessor	T	tracers

tables　　　　table

F	prependaction
F	prependgroup
F	removeaction
F	replaceaction
F	setkind
F	tostring

tables　　　　table

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

setters　　　　table

F	disable
F	enable
F	initialize
F	list
F	new
F	register
F	report
F	reset
F	show

templates　　　　table

F	load
F	replace
F	replacer
F	resolve

stacker　　　　table

F	new

storage　　　　table

F	allocate
F	checked
F	mark
F	marked
F	setinitializer
F	sparse

strings　　　　table

F	collapsecrlf
T	formatters
F	add
F	new
F	newrepeater
F	nice
T	striplinepatterns
U	collapse
U	prune

vf (context)

char	function
down	function
fontid	function
image	function
node	function
nop	function
pop	function
push	function
right	function
rule	function
special	function

visualizers (context)

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

xml (context)

addentitiesdoctype   function
after   function
all   function
applylpath   function
assign   function
attribute   function
before   function
body   function
builtinentities   table
   B amp
   B apos
   B gt
   B lt
   B quot
cdata   function
cdatatotext   function
checkbom   function
checkerror   function
checknamespace   function
checkns   function
cleansed   function
collect   function
~~**collect_elements**~~   ~~function~~
collect_tags   function
~~**collect_texts**~~   ~~function~~
collected   function
collecttexts   function
content   function
convert   function
copy   function
count   function
cprint   function
css   table
   F colorspecification
   F dimension
   F fontspecification
   F padding
defaulthandlers   table
   D file
   D parsedxml
   D string

   D tex
   D texline
   D texspace
   D verbose
defaultprotocol   string
delete   function
~~**delete_element**~~   ~~function~~
each   function
~~**each_element**~~   ~~function~~
elements   function
elementtocdata   function
empty   function
entities   data table
erase   function
errorhandler   function
escaped   function
expressions   table
   F boolean
   F child
   F contains
   F count
   F error
   F find
   F idstring
   F lower
   F name
   F number
   F oneof
   F print
   F quit
   F tag
   F text
   F undefined
   F upper
fillin   function
filter   function
finalizers   table
   F paragraphs
   T tex
     F all
     F attribute

F chainattribute	F reverse
F command	F table
F concat	F tag
F concatrange	F tags
F context	F text
F count	F texts
F ctxtext	F upperall

F default	
F first	**first** function
F function	**found** function
F index	**functions** table
F last	**getbuffer** function
F lettered	**gethandlers** function
F lower	**gethandlersfunction** function
F lowerall	**helpers** table
F match	
F name	F recursetext
F position	
F reverse	**include** function
F stripped	**inclusion** function
F tag	**inclusions** function
F tags	**index** function
F text	**inheritedconvert** function
F upper	**inject** function
F upperall	~~**inject_element**~~ ~~function~~
T xml	~~**inject_element_after**~~ ~~function~~
F all	~~**inject_element_before**~~ ~~function~~
F att	**injectafter** function
F attribute	**injectbefore** function
F attributes	**insert** function
F cdata	**insert_element** function
F chainattribute	~~**insert_element_after**~~ ~~function~~
F count	~~**insert_element_before**~~ ~~function~~
F default	**insertafter** function
F elements	**insertbefore** function
F empty	**insertcdata** function
F first	**insertcomment** function
F function	**inspect** function
F index	**is_valid** function
F last	**kind** function
F lowerall	**last** function
F match	**load** function
F name	**lpath** function
F position	**lpathcached** function
	lpathcalls function
	lshow function
	makestandalone function

match	function	**specialhandler**	table
name	function	**sprint**	function
newhandlers	function	**string**	function
nodesettostring	function	**strip**	function
originalload	function	~~strip_whitespace~~	~~function~~
package	function	**stripelement**	function
parent	function	**stripleadingspaces**	function
parsedentitylpeg	userdata	**table**	function
pihandlers	table	**text**	function
placeholders	table	**textonly**	function
F unknown_any_entity		**texttocdata**	function
F unknown_dec_entity		**tocdata**	function
F unknown_hex_entity		**toelement**	function
position	function	**tostring**	function
privatecodes	table	**totable**	function
privatetoken	function	**toxml**	function
process	function	**tprint**	function
~~process_attributes~~	~~function~~	**traverse**	function
~~process_elements~~	~~function~~	**unescaped**	function
processattributes	function	**unprivatized**	function
profiled	table	**withelement**	function
raw	function	**withelements**	function
registerentity	function	**wrap**	function
registerns	function	**xmlns**	table
~~remap_name~~	~~function~~		
~~remap_namespace~~	~~function~~		
~~remap_tag~~	~~function~~		
remapname	function		
remapnamespace	function		
remaptag	function		
renamespace	function		
replace	function		
replace_element	function		
resolvens	function		
root	function		
save	function		
selection	function		
separate	function		
serialize	function		
setcdata	function		
setcomment	function		
sethandlersfunction	function		
setproperty	function		
settings	function		

zip (extra lua)

archives	table
close	function
closearchive	function
open	overloaded function
openarchive	function
openfile	function
registeredfiles	table
type	function

zlib (extra lua)

adler32	function
compress	function
compressobj	function
crc32	function
decompress	function
decompressobj	function
version	function