

MP attributes backends **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 ffi  
figures **file** **fio** floats **font** fonts functions  
global graphics **gzip** **img** interactions  
interfaces **io** job **lang** languages layouts **lfs**  
libraries lmx logs lpdf **lpeg** **ltn12** lua luatex  
lxml **math** mathematics mbox **md5** metapost **mime**  
moduledata modules mp **mplib** noads **node** nodes  
number objects **os** **package** pagebuilders  
parametersets **pdf** pdfscanner physics  
publications regimes resolvers sandbox scripts  
set **socket** sorters statistics **status** storage  
streams **string** structures **table** **tex**  
texconditionals **texconfig** texconstants texifs  
**texio** texitdefined texmodes texsystemmodes  
thirddata **token** tokens tracers trackers  
typesetters **unicode** url userdata utilities vf  
visualizers xml **zip** **zlib**

# ConT<sub>E</sub>Xt MkIV

# global (alias: \_G)

<b>FFISUPPORTED</b>	function	<b>epdf</b>	table
<b>INITEXMODE</b>	boolean	<b>error</b>	function
<b>LUATEXCOREVERSION</b>	number	<b>experiments</b>	table
<b>LUATEXENGINE</b>	string	<b>ffi</b>	table
<b>LUATEXVERSION</b>	number	<b>ffilib</b>	function
<b>MP</b>	table	<b>figures</b>	table
<b>_LUAVERSION</b>	number	<b>file</b>	table
<b>_MAJORVERSION</b>	number	<b>fio</b>	table
<b>_MINORVERSION</b>	number	<b>floats</b>	table
<b>arg</b>	table	<b>font</b>	table
<b>assert</b>	function	<b>fonts</b>	table
<b>attributes</b>	table	<b>frozen</b>	boolean
<b>backends</b>	table	<b>functions</b>	table
<b>bit32</b>	table	<b>getmetatable</b>	function
<b>blobs</b>	table	<b>getpos</b>	function
<b>blockrequire</b>	function	<b>getvpos</b>	function
<b>boolean</b>	table	<b>global</b>	table
<b>buffers</b>	table	<b>graphics</b>	table
<b>builders</b>	table	<b>gregorian_to_jalali</b>	function
<b>caches</b>	table	<b>gzip</b>	table
<b>callback</b>	table	<b>img</b>	table
<b>callbacks</b>	table	<b>inspect</b>	function
<b>catcodes</b>	table	<b>interactions</b>	table
<b>characters</b>	table	<b>interfaces</b>	table
<b>chemistry</b>	table	<b>io</b>	table
<b>collectgarbage</b>	function	<b>ipairs</b>	function
<b>commands</b>	table	<b>jalali_to_gregorian</b>	function
<b>containers</b>	table	<b>job</b>	table
<b>context</b>	function	<b>lang</b>	table
<b>converters</b>	table	<b>languages</b>	table
<b>coroutine</b>	table	<b>last</b>	number
<b>ctxrunner</b>	table	<b>layouts</b>	table
<b>debug</b>	table	<b>lfs</b>	table
<b>dimen</b>	function	<b>libraries</b>	table
<b>dir</b>	table	<b>lmx</b>	table
<b>directives</b>	table	<b>load</b>	function
<b>document</b>	table	<b>loadfile</b>	function
<b>documentdata</b>	table	<b>loadstring</b>	function
<b>dofile</b>	function	<b>logs</b>	table
<b>done</b>	boolean	<b>lpdf</b>	table
<b>environment</b>	table	<b>lpeg</b>	table

ltn12	table	resolvers	table
lua	table	sandbox	table
luatex	table	scripts	table
lxml	table	<b>select</b>	function
math	table	set	table
mathematics	table	setinspector	function
mbox	table	<b>setmetatable</b>	function
md5	table	<b>socket</b>	table
metapost	table	sorters	table
mime	table	statistics	table
module	function	<b>status</b>	table
moduledata	table	<b>storage</b>	table
modules	table	streams	table
mp	function	<b>string</b>	table
<b>mplib</b>	table	structures	table
<b>next</b>	function	swiglib	function
noads	table	<b>table</b>	table
<b>node</b>	table	<b>tex</b>	table
nodes	table	texconditionals	data table
number	table	<b>texconfig</b>	table
objects	table	texconstants	data table
optionalrequire	function	texifs	data table
<b>os</b>	table	<b>texio</b>	table
<b>package</b>	table	texisdefined	function
pagebuilders	table	texmodes	data table
<b>pairs</b>	function	texsystemmodes	data table
parametersets	table	thirddata	table
<b>pcall</b>	function	toboolean	function
<b>pdf</b>	table	<b>token</b>	table
pdfboolean	function	tokens	table
pdfnull	function	<b>tonumber</b>	function
pdfreference	function	<b>tostring</b>	function
<b>pdfscanner</b>	table	tracers	table
pdfverbose	function	trackers	table
physics	table	<b>type</b>	function
<b>print</b>	function	typesetters	table
publications	table	<b>unicode</b>	table
<b>rawequal</b>	function	unpack	function
<b>rawget</b>	function	url	table
<b>rawlen</b>	function	userdata	table
<b>rawset</b>	function	<b>utf</b>	table
regimes	table	utilities	table
<b>require</b>	function	v	number
requireswiglib	function	<b>vf</b>	table

**visualizers**

table

**zip**

table

xml

table

**zlib**

table

**xpcall**

function

# 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
- D counts
- B couple
- F currentmodel
- F currentnamedmodel
- 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 getpagecolormodel
- F gray
- F graytohsv
- F handler
- F hsvtorgay
- F hsvtorgb
- F iccprofile
- F isblack
- N main
- S model

- D models
- F mpcolor
- F mpnamedcolor
- F mpoptions
- F namedcolorattributes
- U none
- F popset
- F processcolorcomponents
- F pushset
- F register
- D registered
- F registerspotcolor
- F rgb
- F rgbtocmyk
- F rgbtorgay
- F rgbtohsv
- N selector
- F setlist
- F setmodel
- F setpagecolormodel
- D sets
- F spec
- F spot
- F spotcolorname
- F spotcolorparent
- F spotcolorvalue
- B supported
- F transparencycomponents
- B triggering
- F usecolors
- D valid
- F value
- D values
- B weightgray

define

effects

function

table

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

D registered		N hardlight	
D values		N hue	
<b>handlers</b>	table	N lighten	
<b>list</b>	data table	N luminosity	
<b>names</b>	data table	N multiply	
<b>negatives</b>	table	N none	
N attribute		N normal	
D data		N overlay	
F enable		N saturation	
F handler		N screen	
F register		N softlight	
D registered		U none	
F set		F register	
<b>numbers</b>	data table	D registered	
<b>ofnode</b>	function	B supported	
<b>private</b>	function	B triggering	
<b>public</b>	function	F value	
<b>restore</b>	function	D values	
<b>save</b>	function	<b>unsetvalue</b>	number
<b>showcurrent</b>	function	<b>viewerlayers</b>	table
<b>states</b>	table	N attribute	
F disabletriggering		F cleanup	
F enabletriggering		D data	
F finalize		F define	
F initialize		F definedlayoutcomponent	
F process		F enable	
F selective		F forcesupport	
F stacked		F handler	
F stacker		B hasorder	
<b>system</b>	function	D listwise	
<b>transparencies</b>	table	F register	
N attribute		D registered	
D data		F resolve_begin	
F enable		F resolve_end	
F forcesupport		F resolve_reset	
F handler		F resolve_step	
T names		D scopes	
N color		F setfeatures	
N colorburn		F start	
N colordodge		F stop	
N darken		B supported	
N difference		D values	
N exclusion			

# backends (context)

## **codeinjections** table

F boxresourcedimensions  
F registerboxresource  
F restoreboxresource

## **current** string

## **defaults** table

T codeinjections  
F gethpos  
F getmatrix  
F getpos  
F getvpos  
F hasmatrix  
T nodeinjections  
T registrations  
D tables

## **included** table

B context  
B date  
B id  
B metadata  
B pdf

## **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 startunicodetoactualtext  
F startunicodetoactualtextdirect  
F stoplayer  
F stopunicodetoactualtext  
F stopunicodetoactualtextdirect  
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

<b>registrations</b>	table
<b>tables</b>	table
<b>timestamp</b>	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)

<b>append</b>	function
<b>dimensions</b>	function
<b>dispose</b>	function
<b>new</b>	function
<b>pack</b>	function
<b>strdp</b>	function
<b>strhd</b>	function

<b>strht</b>	function
<b>strwd</b>	function
<b>tohpack</b>	function
<b>tonodes</b>	function
<b>tovpack</b>	function
<b>write</b>	function

## boolean (context)

**tocontext** function

**tonumber** function

## buffers (context)

<b>append</b>	function	<b>F define</b>	
<b>assign</b>	function	<b>F hassomecontent</b>	
<b>collectcontent</b>	function	<b>F next</b>	
<b>erase</b>	function	<b>F place</b>	
<b>exists</b>	function	<b>F reset</b>	
<b>getcontent</b>	function	<b>F save</b>	
<b>getlines</b>	function	<b>prepend</b>	function
<b>loadcontent</b>	function	<b>raw</b>	function
<b>parallel</b>	table	<b>undent</b>	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 hpack
  - F oneline
- D names
- D numbers
- F set
- F start
- F stop
- T expansion
  - F trace
- F kepttogether
- F registertogether
- T solutions
  - T splitters
    - F define
    - F optimize

- T registered
- F reset
- F set
- F split
- F start
- F stop
- F tag

## profiling table

- F add
- F distance
- F fixedprofile
- F get
- F list
- F pagehandler
- F profilebox
- F set

## 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

## cache (context)

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

## callback (basic tex)

**find**      function  
**list**      function

**register** overloaded function

# callbacks (context)

<b>freeze</b>	function	<b>push</b>	function
<b>known</b>	function	<b>register</b>	function
<b>list</b>	data table	<b>report</b>	function
<b>pop</b>	function		



## catcodes (context)

**names** data table

**numbers** data table

**register** function

characters (context)

[illegible]







[illegible]



[illegible]



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S $\dot{0}^{\sim}$	S H'^{\sim}
S $\dot{0}^{\sim}$	S H'^{\sim}
S $\dot{3}^{\sim}$	S H'{'}
S $\sim{'}$	S H'{'}
S A^{\sim}	S H'
S A{'}	S H'
S A^{\sim}	S H'
S A^{\sim}	S H
S A'	S I^{\sim}
S A'^{\sim}	S I{'}
S A'^{\sim}	S I^{\sim}
S A'{'}	S I^{\sim}
S A'{'}	S I''
S A'	S I'
S A'	S I'^{\sim}
S A'	S I'{'}
S A'	S I'
S A'^{\sim}	S I'
S A'^{\sim}	S I'^{\sim}
S A'{'}	S I'{'}
S A'{'}	S I'
S A'	S $\dot{0}^{\sim}$
S A'	S $\dot{0}{'}$
S A'	S $\dot{0}'$
S A	S $\dot{0}'^{\sim}$
S E^{\sim}	S $\dot{0}'{'}$
S E{'}	S $\dot{0}'$
S E'	S $\dot{0}'^{\sim}$
S E'^{\sim}	S $\dot{0}'{'}$
S E'{'}	S P'
S E'	S Y^{\sim}
S E'^{\sim}	S Y{'}
S E'{'}	S Y^{\sim}
S H^{\sim}	S Y^{\sim}
S H{'}	S Y''
S H'	S Y'
S H'^{\sim}	S Y'^{\sim}
S H'^{\sim}	S Y'{'}
S H'{'}	S Y'
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[illegible]











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S		S "
S		S ^
S		S ,
S		S °
S		S ,
S		T B
S		S ´
S		S ,
contextname	function	S _
csletters	data table	T C
data	data table	S ´
decomposed	data table	S ^
description	function	S ´
descriptions	data table	S ˇ
detailltags	data table	S ,
directions	table	T D
encodes	data table	S ´
entities	data table	S ˇ
fallbacks	data table	S ,
filters	data table	S ,
fractions	table	S ^
fromnumber	function	S _
fschars	data table	T E
fscodes	data table	S `
getrange	function	S ´
graphemes	table	S ^
T <		S ~
S /		S -
T =		S ˇ
S /		S ´
T >		S "

S ^	S ^
S ˇ	T K
S "	S ´
S ^	S ˇ
S .	S ,
S ,	S ,
S _	S _
S ^	T L
S ~	S ´
T F	S ˇ
S ´	S ,
T G	S ,
S ´	S ^
S ^	S _
S -	T M
S ˇ	S ´
S ´	S ´
S ˇ	S ,
S ,	T N
T H	S \
S ^	S ´
S ´	S ~
S "	S ´
S ˇ	S ˇ
S .	S ,
S ,	S ,
S _	S ^
T I	S _
S \	T O
S ´	S \
S ^	S ´
S ~	S ^
S -	S ~
S ˇ	S -
S ´	S ˇ
S "	S ´
S ˇ	S "
S ˇ	S ˇ
S "	S "
S ^	S ˇ
S .	S "
S _	S ^
S ~	S ´
T J	S



S '	S '.
S °	T g
S ˇ	S ´
S “	S ^
S ^	S -
S ,	S ˇ
S °	S '.
S ´	S ˇ
T b	S ,
S '.	T h
S ,	S ^
S _	S '.
T c	S “
S ´	S ˇ
S ^	S ,
S '.	S ,
S ˇ	S ˇ
S ,	S _
T d	T i
S '.	S `
S ˇ	S ´
S ,	S ^
S ,	S ~
S ^	S -
S _	S ˇ
T e	S “
S `	S ˇ
S ´	S ˇ
S ^	S “
S “	S ^
S -	S ,
S ˇ	S ´
S '.	S ~
S “	T j
S ˇ	S ^
S ˇ	S ˇ
S “	T k
S ^	S ´
S ,	S ˇ
S ,	S ,
S ´	S ,
S ^	S _
S ~	T l
T f	S ´

S ^	S ^
S .	S .
S ,	S ,
S ^	S _
S _	T s
T m	S '
S '	S ^
S .	S
S .	S v
T n	S .
S \	S ,
S /	S ,
S ~	T t
S .	S '
S v	S "
S .	S v
S ,	S .
S ^	S ,
S _	S ,
T o	S ^
S \	S _
S /	T u
S ^	S \
S ~	S '
S -	S ^
S ~	S ~
S .	S -
S ~	S v
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S "	S ?
S v	S °
S "''	S "
S ~	S v
S /	S "
S .	S ^
S ,	S /
T p	S .
S /	S ..
S .	S ,
T r	S ^
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hangul	data table	S op	
initialize	function	S po	
is_character	data table	S pr	
is_command	data table	S qu	
is_letter	data table	S ri	
is_mark	data table	S sa	
is_punctuation	data table	S sg	
is_spacing	data table	S sp	
lcchars	data table	S sy	
lccode	function	S wj	
lccodes	data table	S xx	
lettered	function	S zw	
lhash	data table	S zwj	
linebreaks	table	lower	function
S ai		math	table
S al		mathpairs	table
S b2		T :	
S ba		S =	
S bb		T <	
S bk		S =	
S cb		T =	
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S 𐀀	<b>mirrors</b>	table
S 𐀁	<b>otfscripts</b>	data table
S 𐀂	<b>ranges</b>	data table
S 𐀃	<b>registerentities</b>	function
S 𐀄	<b>remap_hangul_syllabe</b>	function
S 𐀅	<b>setactivecatcodes</b>	function
S 𐀆	<b>setlettercatcodes</b>	function
S 𐀇	<b>shape</b>	function
S 𐀈	<b>shaped</b>	function
S 𐀉	<b>shash</b>	data table
S 𐀊	<b>shchars</b>	data table
S 𐀋	<b>shcodes</b>	data table
S 𐀌	<b>showstring</b>	function
S 𐀍	<b>specialchars</b>	data table
S 𐀎	<b>specials</b>	data table
S 𐀏	<b>splits</b>	table
S 𐀐	T char	
S 𐀑	T compat	
S 𐀒	<b>subscripts</b>	table
S 𐀓	<b>superscripts</b>	table
S 𐀔	<b>synonyms</b>	data table
S 𐀕	<b>tex</b>	table
S 𐀖	D accentmapping	
S 𐀗	D commandmapping	
S 𐀘	F defineaccents	
S 𐀙	F safechar	
S 𐀚	F toutf	
S 𐀛	F toutfpattern	
S 𐀜	<b>textclasses</b>	table
S 𐀝	<b>tonumber</b>	function
S 𐀞	<b>ucchars</b>	data table
S 𐀟	<b>uccode</b>	function
S 𐀠	<b>uccodes</b>	data table
S 𐀡	<b>uhash</b>	data table
S 𐀢	<b>unicodechar</b>	function
S 𐀣	<b>upper</b>	function

## chemistry (context)

<b>component</b>	function
<b>define</b>	function
<b>definitions</b>	data table
<b>format</b>	string
<b>inlinechemical</b>	function
<b>instance</b>	string
<b>method</b>	string

<b>molecule</b>	function
<b>moleculeparser</b>	userdata
<b>start</b>	function
<b>stop</b>	function
<b>structures</b>	number
<b>undefine</b>	function

## containers (context)

**cleannname** function  
**content** function  
**define** function  
**is\_usable** function

**is\_valid** function  
**read** function  
**usecache** boolean  
**write** function

## converters (context)

<b>A</b>	function	<b>cn-c</b>	function
<b>A:es</b>	function	<b>convert</b>	function
<b>A:ru</b>	function	<b>decimals</b>	function
<b>A:sl</b>	function	<b>define</b>	function
<b>AK</b>	function	<b>hexstringtonumber</b>	function
<b>Alphabetic</b>	function	<b>hour</b>	function
<b>Alphabetic:es</b>	function	<b>i</b>	function
<b>Alphabetic:ru</b>	function	<b>isleapyear</b>	function
<b>Alphabetic:sl</b>	function	<b>lchexnumber</b>	function
<b>Character</b>	function	<b>lchexnumbers</b>	function
<b>Characters</b>	function	<b>leapyear</b>	function
<b>I</b>	function	<b>lower</b>	function
<b>KA</b>	function	<b>max</b>	function
<b>KR</b>	function	<b>maxchrs</b>	function
<b>R</b>	function	<b>minute</b>	function
<b>RK</b>	function	<b>month</b>	function
<b>Romannumerals</b>	function	<b>nicenumber</b>	function
<b>Russiannumerals</b>	function	<b>nofdays</b>	function
<b>Sloveniannumerals</b>	function	<b>number</b>	function
<b>Spanishnumerals</b>	function	<b>numbers</b>	function
<b>Word</b>	function	<b>octnumber</b>	function
<b>Words</b>	function	<b>octstringtonumber</b>	function
<b>a</b>	function	<b>ordinal</b>	function
<b>a:es</b>	function	<b>r</b>	function
<b>a:ru</b>	function	<b>rawcharacter</b>	function
<b>a:sl</b>	function	<b>romannumerals</b>	function
<b>abjadnodotnumerals</b>	function	<b>russiannumerals</b>	function
<b>abjadnumerals</b>	function	<b>second</b>	function
<b>alphabetic</b>	function	<b>sequences</b>	data table
<b>alphabetic:es</b>	function	<b>settime</b>	function
<b>alphabetic:ru</b>	function	<b>sloveniannumerals</b>	function
<b>alphabetic:sl</b>	function	<b>spanishnumerals</b>	function
<b>character</b>	function	<b>textime</b>	function
<b>characters</b>	function	<b>toabjad</b>	function
<b>chineseallnumerals</b>	function	<b>tochinese</b>	function
<b>chinesecapnumerals</b>	function	<b>toroman</b>	function
<b>chinesenumerals</b>	function	<b>totime</b>	function
<b>chr</b>	function	<b>uchexnumber</b>	function
<b>chrs</b>	function	<b>uchexnumbers</b>	function
<b>cn</b>	function	<b>upper</b>	function
<b>cn-a</b>	function	<b>verbose</b>	table

D data		<b>word</b>	function
F translate		<b>words</b>	function
<b>weekday</b>	function	<b>year</b>	function

## coroutine (basic lua)

**create**    function  
**resume**   function  
**running** function

**status**   function  
**wrap**     function  
**yield**    function



# ctxrunner (context)

<b>load</b>	function	<b>prepfiles</b>	data table
<b>preparedfile</b>	function	<b>resolve</b>	function

## debug (basic lua)

<b>debug</b>	function
<b>gethook</b>	function
<b>getinfo</b>	function
<b>getlocal</b>	function
<b>getmetatable</b>	function
<b>getregistry</b>	function
<b>getupvalue</b>	function
<b>getuservalue</b>	function

<b>sethook</b>	function
<b>setlocal</b>	function
<b>setmetatable</b>	function
<b>setupvalue</b>	function
<b>setuservalue</b>	function
<b>traceback</b>	function
<b>upvalueid</b>	function
<b>upvaluejoin</b>	function

## dir (context)

<b>collectpattern</b>	function
<b>current</b>	function
<b>expandname</b>	function
<b>found</b>	function
<b>glob</b>	function
<b>globdirs</b>	function
<b>globfiles</b>	function

<b>globpattern</b>	function
<b>ls</b>	function
<b>makedirs</b>	function
<b>mkdirs</b>	function
<b>pop</b>	function
<b>push</b>	function

## directives (context)

<b>data</b>	data table
<b>default</b>	function
<b>disable</b>	function
<b>done</b>	table
<b>enable</b>	function
<b>list</b>	function

<b>name</b>	string
<b>register</b>	function
<b>report</b>	function
<b>reset</b>	function
<b>show</b>	function
<b>value</b>	function

# document (context)

<b>arguments</b>	data table		D modes	
<b>files</b>	table		D modules	
<b>functions</b>	table	<b>setargument</b>		function
<b>getargument</b>	function	<b>setcommandline</b>		function
<b>getfilename</b>	function	<b>setdefaultargument</b>		function
<b>options</b>	table	<b>setenvironments</b>		function
T commandline		<b>setfilename</b>		function
D environments		<b>setfilenames</b>		function
D modes		<b>setmodes</b>		function
D modules		<b>setmodules</b>		function
T ctxfile		<b>variables</b>		data table
D environments				

## environment (context)

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

## 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  
**openMemStream** function  
**type** function

# experiments (context)

<b>data</b>	data table	<b>register</b>	function
<b>default</b>	function	<b>report</b>	function
<b>disable</b>	function	<b>reset</b>	function
<b>enable</b>	function	<b>show</b>	function
<b>list</b>	function	<b>value</b>	function
<b>name</b>	string		



# figures (context)

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

## file (basic lua)

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

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

## fio (extra lua)

<b>checkpermission</b>	function	<b>readfixed4</b>	function
<b>getposition</b>	function	<b>readinteger1</b>	function
<b>read2dot14</b>	function	<b>readinteger2</b>	function
<b>readbytes</b>	function	<b>readinteger3</b>	function
<b>readbytetable</b>	function	<b>readinteger4</b>	function
<b>readcardinal1</b>	function	<b>readline</b>	function
<b>readcardinal2</b>	function	<b>recordfilename</b>	function
<b>readcardinal3</b>	function	<b>setposition</b>	function
<b>readcardinal4</b>	function	<b>skipposition</b>	function
<b>readfixed2</b>	function		

# floats (context)

<b>analysemethod</b>	function	<b>nofstacked</b>	function
<b>checkedpagefloat</b>	function	<b>pop</b>	function
<b>collect</b>	function	<b>push</b>	function
<b>consult</b>	function	<b>resave</b>	function
<b>flush</b>	function	<b>save</b>	function
<b>getvariable</b>	function	<b>stacked</b>	function
<b>hasstacked</b>	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** overloaded function

# fonts (context)

## analyzers

table

T features

N blwf

N fin2

N fin3

N fina

N half

N init

N isol

N med2

N medi

N pref

N pstf

N rphf

D initializers

D methods

F setstate

T states

N blwf

N fin2

N fin3

N fina

N half

N init

N isol

N mark

N med2

N medi

N pref

N pstf

N rest

N rphf

B useunicodemarks

## checkers

table

F getmissing

F missing

F placeholder

## cid

table

F getmap

F loadfile

## collections

table

F checkenabled

F clonevector

F define

T definitions

F found

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 cleanupable

F collectprocessors

F currentfonthasfeature

D designsizes

D dontembed

F enhanceparameters

T enhancers

T afm

F apply

F patch

T patches

F register

F register

T otf

F addfeature

F apply

F enhance

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

F txtldirstate	F read2dot14
F load	F readbyte
F modeinitializer	F readbytes
F nodemodeinitializer	F readbytetable
D pdfcache	F readcardinal
T plugins	F readcardinal1
T readers	F readcardinal2
F addunicodetable	F readcardinal2le
F cff	F readcardinal3
F checkhash	F readcardinal3le
F cmap	F readcardinal4
F colr	F readcardinal4le
F compact	F readchar
F cpal	F readfixed2
F expand	F readfixed4
F extend	F readinteger
F gdef	F readinteger1
F getcomponents	F readinteger2
F getinfo	F readinteger2le
F glyf	F readinteger3
F gpos	F readinteger3le
F gsub	F readinteger4
F head	F readinteger4le
F hhea	F readsignedbyte
F hmtx	F readstring
F kern	F readtag
F loadfont	F setposition
F loadshapes	F size
F loca	F skip
F math	F skiplong
F maxp	F skipposition
F name	F skipshort
F os/2	F writebyte
F pack	F writecardinal2
F parsecharstrings	F writecardinal4
F post	F writestring
F registerextender	F svg
F rehash	N tableversion
T streamreader	F unifymissing
F close	F unpack
F getposition	F vhea
F getsize	F vmtx
F look	F vorg
F open	F woff2otf



F registerpalette	F virtual
F registerplugin	F initializefeatures
F scriptandlanguage	T keys
F setdynamics	T characters
F setfeatures	T descriptions
T statistics	T parameters
D usedfeatures	S ascender
T svg	S descender
F filterglyph	S designsize
F storepdfdata	T expansion
F topdf	S auto
D svgcache	S shrink
B svgenabled	S step
T tables	S stretch
D baselines	S extendfactor
D features	S factor
D featuretypes	S hfactor
D languages	S mathsize
D scripts	T protrusion
N version	S auto
T pfb	S quad
F loadvector	S scaledpoints
T tfm	S scriptpercentage
F addtounicode	S scriptscriptpercentage
D features	S size
N maxnestingdepth	S slantfactor
N maxnestingsize	S slantperpoint
F reencode	T spacing
F setfeatures	S extra
N version	S shrink
T vf	S stretch
T combinations	S width
F combine	S units
T combiner	S vfactor
D commands	S xheight
D helpers	T properties
D math	S autoitalicamount
D predefined	S cidinfo
N version	S embedding
D whatever	S encodingbytes
F hashfeatures	S filename
F hashinstance	S finalized
T hashmethods	S fontname
F normal	S format

S fullname	F loadfont	
S hasitalics	F makespecification	
S hasmath	T methods	
S mathitalics	F install	
S mode	D variants	
S name	F read	
S noglyphnames	F register	
S nostackmath	F registered	
S psname	F registersplit	
S textitalics	F resetnullfont	
S virtualized	F resolve	
D loadedfonts	T resolvers	
S namemode	F file	
N noffontsloaded	F name	
N nofsharedfonts	F spec	
N nofsharedhashes	<b>definetypface</b>	function
N nofsharedvectors	<b>encodings</b>	table
N privateoffset	T agl	
D privateslots	D ctxcodes	
F readanddefine	D extras	
F registerfeature	D names	
F resetfeature	T synonyms	
B resolvevirtualtoo	N Acyrillic	
F scale	N Becyrillic	
F scaled	N Cdot	
F setfactor	N Checyrillic	
F setfeature	N Decyrillic	
F setname	N Djecyrillic	
B sharefonts	N Dzecyrillic	
F trytosharefont	N Dzhecyrillic	
N version	N Ecyrillic	
<b>current</b>	N Edot	
<b>currentid</b>	N Efcyrillic	
<b>definers</b>	N Elcyrillic	
F addlookup	N Emcyrillic	
F analyze	N Encyrillic	
F applypostprocessors	N Ercyrillic	
F checkedmode	N Ereversedcyrillic	
F checkedscript	N Escyrillic	
F current	N Fitacyrillic	
S defaultlookup	N Gcedilla	
F define	N Gdot	
F getspecification	N Gecyrillic	
F internal	N Gheupturncyrillic	

N Gjecyrillic	N afii00208
N Hardsigncyrillic	N afii08941
N IAcyrillic	N afii57694
N IUcyrillic	N afii57695
N Icyrillic	N afii57700
N Idot	N afii57705
N Iecyrillic	N afii57723
N Iicyrillic	N alef
N Iishortcyrillic	N alefmaksurainitialarabic
N Iocyrillic	N alefmaksuramedialarabic
N Izhitsacyrillic	N approximatelyequal
N Jecyrillic	N asteriskaltonearabic
N Kacyrillic	N ayin
N Kcedilla	N bet
N Khacyrillic	N betdagesh
N Kjecyrillic	N blackdownpointingtriangle
N Lcedilla	N blackleftpointingpointer
N Ljecyrillic	N blackrectangle
N Ncedilla	N blackrightpointingpointer
N Njecyrillic	N blacksmilingface
N Ocyrillic	N blacksquare
N Odblacute	N blackuppointingtriangle
N Ohm	N bulletinverse
N Pecyrillic	N cdot
N Rcedilla	N compass
N Shacyrillic	N dagesh
N Shchacyrillic	N dalet
N Softsigncyrillic	N daletdagesh
N Tcedilla	N dalethatafpatah
N Tecyrillic	N dalethatafpatahhebrew
N Tsecyrillic	N dalethatafsegol
N Tshacyrillic	N dalethatafsegolhebrew
N Ucyrillic	N dalethebrew
N Udblacute	N dalethiriq
N Ushortcyrillic	N dalethiriqhebrew
N Vecyrillic	N daletholam
N Yatcyrillic	N daletholamhebrew
N Yericyrillic	N daletpatah
N Yicyrillic	N daletpatahhebrew
N Zdot	N daletqamats
N Zecyrillic	N daletqamatshebrew
N Zhecyrillic	N daletqubuts
N acutecmb	N daletqubutshebrew
N acyrillic	N daletsegol

N daletsegolhebrew  
 N daletsheva  
 N daletshevahebrew  
 N dalettsera  
 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 gime1  
 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 hatafsego1  
 N hatafsego117  
 N hatafsego124  
 N hatafsego130  
 N hatafsego1hebrew  
 N hatafsego1narrowhebrew  
 N hatafsego1quarterhebrew  
 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 qamats1a
N kaf	N qamats1c
N kafdagesh	N qamats27
N kashidaautoarabic	N qamats29
N kashidaautosidebearingarabic	N qamats33
N kcedilla	N qamatsde
N lamed	N qamatshebrew
N lameddagesh	N qamatsnarrowhebrew
N lamedhebrew	N qamatsqatanhebrew
N lamedholam	N qamatsqatannarrowhebrew
N lamedholamdagesh	N qamatsqatanquarterhebrew
N lamedholamdageshhebrew	N qamatsqatanwidehebrew
N laminitialarabic	N qamatsquarterhebrew
N lammeemjeeminitialarabic	N qof
N lcedilla	N qofdagesh
N logicalnotreversed	N qofhatafpatah
N mahapakhebrew	N qofhatafpatahhebrew
N mem	N qofhatafsegol
N memdagesh	N qofhatafsegolhebrew
N merkhahebrew	N qofhebrew
N merkhakefulahebrew	N qofhiriq
N middot	N qofhiriqhebrew
N munahhebrew	N qofholam
N nbspace	N qofholamhebrew
N ncedilla	N qofpatah
N newsheqelsign	N qofpatahhebrew
N ninearabic	N qofqamats
N noonhehinitialarabic	N qofqamatshebrew
N nun	N qofqubuts
N nundagesh	N qofqubutshebrew
N odblacute	N qofsegol
N onearabic	N qofsegolhebrew
N overscore	N qofsheva
N patah	N qofshevahebrew
N patah11	N qoftsere
N patah1d	N qubuts
N patah2a	N qubuts18
N patahhebrew	N qubuts25
N patahnarrowhebrew	N qubuts31
N patahquarterhebrew	N qubutshebrew
N pe	N qubutsnarrowhebrew
N pedagesh	N qubutsquarterhebrew
N qamats	N quoteleftreversed
N qamats10	N rafe

N rcedilla	N shevaquarterhebrew
N reharabic	N shin
N resh	N shindagesh
N reshatafpatah	N shindageshshindot
N reshatafpatahhebrew	N shindageshsindot
N reshatafsegol	N shinshindot
N reshatafsegolhebrew	N shinsindot
N reshhebrew	N siluqhebrew
N reshhiriq	N sixarabic
N reshhiriqhebrew	N tav
N reshholam	N tavadages
N reshholamhebrew	N tavadagesh
N reshpatah	N tcedilla
N reshpatahhebrew	N tccheinitialarabic
N reshqamats	N tet
N reshqamatshebrew	N tetdagesh
N reshqubuts	N tevirhebrew
N reshqubutshebrew	N thousandsseparatorarabic
N reshsegol	N threearabic
N reshsegolhebrew	N tildecmb
N reshsheva	N tipehahebrew
N reshshevahebrew	N tsadi
N reshtsere	N tsadidagesh
N reviahebrew	N tsere
N samekh	N tsere12
N samekhdagesh	N tsere1e
N segol	N tsere2b
N segol13	N tserehebrew
N segol1f	N tserenarrowhebrew
N segol2c	N tserequarterhebrew
N segolhebrew	N twoarabic
N segolnarrowhebrew	N udblacute
N segolquarterhebrew	N vav
N sevenarabic	N vavdagesh
N sfthyphen	N vavdagesh65
N shaddaarabic	N vavholam
N sheqel	N yerahbenyomohebrew
N sheva	N yod
N sheva115	N yoddagesh
N sheva15	N zayin
N sheva22	N zayindagesh
N sheva2e	N zdot
N shevahebrew	N zeroarabic
N shevanarrowhebrew	D unicodes

D cache	N Dafrican
T ctxcodes	N Dcaron
N AEacute	N Dhook
N AEligature	N Dstroke
N AEmacron	N Dzcaronligature
N Aacute	N Dzligature
N Abreve	N Eacute
N Abreveacute	N Ebreve
N Abrevedotbelow	N Ecaron
N Abrevegrave	N Ecedilla
N Abrevehook	N Ecircumflex
N Abrevetilde	N Ecircumflexacute
N Acaron	N Ecircumflexdotbelow
N Acircumflex	N Ecircumflexgrave
N Acircumflexacute	N Ecircumflexhook
N Acircumflexdotbelow	N Ecircumflextilde
N Acircumflexgrave	N Ediaeresis
N Acircumflexhook	N Edotaccent
N Acircumflextilde	N Edotbelow
N Adiaeresis	N Edoublegrave
N Adiaeresismacron	N Egrave
N Adotaccent	N Ehook
N Adotaccentmacron	N Einvertedbreve
N Adotbelow	N Emacron
N Adoublegrave	N Egonek
N Agrave	N Eth
N Ahook	N Etilde
N Ainvertedbreve	N Fhook
N Amacron	N Gacute
N Aogonek	N Gbreve
N Aring	N Gcaron
N Aringacute	N Gcircumflex
N Astroke	N Gcommaaccent
N Atilde	N Gdotaccent
N Bhook	N Ghook
N Cacute	N Gstroke
N Ccaron	N Hcaron
N Ccedilla	N Hcircumflex
N Ccircumflex	N Hstroke
N Cdotaccent	N IJligature
N Chook	N Iacute
N Cstroke	N Ibreve
N DZcaronligature	N Icaron
N DZligature	N Icircumflex

N Idiaeresis	N Odotaccentmacron
N Idotaccent	N Odotbelow
N Idotbelow	N Odoublegrave
N Idoublegrave	N Ograve
N Igrave	N Ohook
N Ihook	N Ohorn
N Iinvertedbreve	N Ohornacute
N Imacron	N Ohorndotbelow
N Iogonek	N Ohorngrave
N Istroke	N Ohornhook
N Itilde	N Ohorntilde
N Jcircumflex	N Ohungarumlaut
N Karon	N Oinvertedbreve
N Kcommaaccent	N Omacron
N Khook	N Oogonek
N Lligature	N Oogonekmacron
N Lacute	N Ostroke
N Lbar	N Ostrokeacute
N Lcaron	N Otilde
N Lcommaaccent	N Otildemacron
N Ldotmiddle	N Phook
N Ljligature	N Racute
N Lstroke	N Rcaron
N Nligature	N Rcommaaccent
N Nacute	N Rdoublegrave
N Ncaron	N Rinvertedbreve
N Ncommaaccent	N Sacute
N Neng	N Scaron
N Ngrave	N Scedilla
N Njligature	N Schwa
N Ntilde	N Scircumflex
N OEligature	N Scommaaccent
N Oacute	N Tcaron
N Obreve	N Tcedilla
N Ocaron	N Tcommaaccent
N Ocircumflex	N Thook
N Ocircumflexacute	N Thorn
N Ocircumflexdotbelow	N Tstroke
N Ocircumflexgrave	N Uacute
N Ocircumflexhook	N Ubreve
N Ocircumflextilde	N Ucaron
N Odiaeresis	N Ucircumflex
N Odiaeresismacron	N Udiaeresis
N Odotaccent	N Udiaeresisacute



N Udiaeresiscaron  
 N Udiaeresisgrave  
 N Udiaeresismacron  
 N Udotbelow  
 N Udoublegrave  
 N Ugrave  
 N Uhook  
 N Uhorn  
 N Uhornacute  
 N Uhorndotbelow  
 N Uhorngrave  
 N Uhornhook  
 N Uhorntilde  
 N Uhungarumlaut  
 N Uinvertedbreve  
 N Umacron  
 N Uogonek  
 N Uring  
 N Utilde  
 N Wcircumflex  
 N Yacute  
 N Ycircumflex  
 N Ydiaeresis  
 N Ydotbelow  
 N Ygrave  
 N Yhook  
 N Ymacron  
 N Ytilde  
 N Zacute  
 N Zcaron  
 N Zdotaccent  
 N Zhook  
 N Zstroke  
 N aacute  
 N abreve  
 N abreveacute  
 N abrevdotbelow  
 N abrevegrave  
 N abrevehook  
 N abrevetilde  
 N acarón  
 N acircumflex  
 N acircumflexacute  
 N acircumflexdotbelow

N acircumflexgrave  
 N acircumflexhook  
 N acircumflextilde  
 N adiaeresis  
 N adiaeresismacron  
 N adotaccent  
 N adotaccentmacron  
 N adotbelow  
 N adoublegrave  
 N aeacute  
 N aeligature  
 N aemacron  
 N agrave  
 N ahook  
 N ainvertedbreve  
 N amacron  
 N aogonek  
 N aring  
 N aringacute  
 N atilde  
 N bhook  
 N breakablethinspace  
 N bstroke  
 N cacute  
 N carriagereturn  
 N ccaron  
 N ccedilla  
 N ccircumflex  
 N ccurl  
 N cdotaccent  
 N chook  
 N copyright  
 N cstroke  
 N cyrillicA  
 N cyrillicAE  
 N cyrillicAbreve  
 N cyrillicAdiaeresis  
 N cyrillicB  
 N cyrillicBIGYUS  
 N cyrillicBIGYUSiotified  
 N cyrillicC  
 N cyrillicCH  
 N cyrillicCHEDC  
 N cyrillicCHEDCabkhasian

N cyrillicCHEabkhasian	N cyrillicImacron
N cyrillicCHEdiaeresis	N cyrillicJE
N cyrillicCHEkhakassian	N cyrillicK
N cyrillicCHEvertstroke	N cyrillicKADC
N cyrillicD	N cyrillicKAbashkir
N cyrillicDASIAPNEUMATA	N cyrillicKAhook
N cyrillicDJE	N cyrillicKAstroke
N cyrillicDZE	N cyrillicKAvertstroke
N cyrillicDZEabkhasian	N cyrillicKJE
N cyrillicDZHE	N cyrillicKOPPA
N cyrillicE	N cyrillicKSI
N cyrillicELtail	N cyrillicL
N cyrillicEMtail	N cyrillicLITTLEYUS
N cyrillicENDC	N cyrillicLITTLEYUSiotified
N cyrillicENGHE	N cyrillicLJE
N cyrillicENhook	N cyrillicM
N cyrillicENTail	N cyrillicN
N cyrillicEREV	N cyrillicNJE
N cyrillicERY	N cyrillicO
N cyrillicERTick	N cyrillicOMEGA
N cyrillicEbreve	N cyrillicOMEGARound
N cyrillicEdiaeresis	N cyrillicOMEGAtitlo
N cyrillicEgrave	N cyrillicOT
N cyrillicEiotified	N cyrillicObarred
N cyrillicF	N cyrillicObarreddiaeresis
N cyrillicFITA	N cyrillicOdiaeresis
N cyrillicG	N cyrillicP
N cyrillicGHEmidhook	N cyrillicPALATALIZATION
N cyrillicGHEstroke	N cyrillicPALOCHKA
N cyrillicGHEupturn	N cyrillicPEmidhook
N cyrillicGJE	N cyrillicPSI
N cyrillicH	N cyrillicPSILIPNEUMATA
N cyrillicHA	N cyrillicR
N cyrillicHADC	N cyrillicS
N cyrillicHRDSN	N cyrillicSCHWA
N cyrillicI	N cyrillicSCHWAdiaeresis
N cyrillicIE	N cyrillicSDSC
N cyrillicII	N cyrillicSEMIISOFT
N cyrillicISHRT	N cyrillicSFTSN
N cyrillicISHRTtail	N cyrillicSH
N cyrillicIZHITSA	N cyrillicSHCH
N cyrillicIZHITSAdoublegrave	N cyrillicSHHA
N cyrillicIdiaeresis	N cyrillicT
N cyrillicIgrave	N cyrillicTEDC

N cyrillicTETSE	N cyrillicdzhe
N cyrillicTITLO	N cyrillice
N cyrillicTSHE	N cyrillicebreve
N cyrillicU	N cyrillicediaeresis
N cyrillicUK	N cyrillicegrave
N cyrillicUSHRT	N cyrilliciotified
N cyrillicUdiaeresis	N cyrilliceltail
N cyrillicUdoubleacute	N cyrillicemtail
N cyrillicUmacron	N cyrillicendc
N cyrillicV	N cyrillicenghe
N cyrillicYA	N cyrillicenhook
N cyrillicYAT	N cyrillicentail
N cyrillicYERUdiaeresis	N cyrillicerev
N cyrillicYI	N cyrillicertick
N cyrillicY0	N cyrillicery
N cyrillicYU	N cyrillicf
N cyrillicYstr	N cyrillicfita
N cyrillicYstrstroke	N cyrillicg
N cyrillicZ	N cyrillicghemidhook
N cyrillicZDSC	N cyrillicghestroke
N cyrillicZEdiaeresis	N cyrillicgheupturn
N cyrillicZH	N cyrillicgje
N cyrillicZHEbreve	N cyrillich
N cyrillicZHEdescender	N cyrillicha
N cyrillicZHEdiaeresis	N cyrillichadc
N cyrillica	N cyrillichrdsn
N cyrillicabreve	N cyrillici
N cyrillicadiaeresis	N cyrillicidiaeresis
N cyrillicae	N cyrillicie
N cyrillicb	N cyrillicigrave
N cyrillicbigyus	N cyrillicii
N cyrillicbigyusiotified	N cyrillicimacron
N cyrillicc	N cyrillicishrt
N cyrillicch	N cyrillicishrttail
N cyrilliccheabkhasian	N cyrillicizhitsa
N cyrillicchedc	N cyrillicizhitsadoublegrave
N cyrillicchedcabkhasian	N cyrillicje
N cyrillicchediaeresis	N cyrillick
N cyrillicchekhakassian	N cyrillickabashkir
N cyrillicchevertstroke	N cyrillickadc
N cyrillicd	N cyrillickahook
N cyrillicdje	N cyrillickastroke
N cyrillicdze	N cyrillickavertstroke
N cyrillicdzeabkhasian	N cyrillickje

N cyrillickoppa  
N cyrillicksi  
N cyrillicl  
N cyrilliclittleyus  
N cyrilliclittleyusiotified  
N cyrilliclje  
N cyrillicm  
N cyrillicn  
N cyrillicnje  
N cyrillico  
N cyrillicobarred  
N cyrillicobarreddiaeresis  
N cyrillicodiaeresis  
N cyrillicomega  
N cyrillicomegaround  
N cyrillicomegatitlo  
N cyrillicot  
N cyrillicp  
N cyrillicpemidhook  
N cyrillicpsi  
N cyrillicr  
N cyrillics  
N cyrillicschwa  
N cyrillicschwadiaeresis  
N cyrillicsdsc  
N cyrillicsemisoft  
N cyrillicsftn  
N cyrillicsh  
N cyrillicshch  
N cyrillicshha  
N cyrillict  
N cyrillictedc  
N cyrillictetse  
N cyrillictshe  
N cyrillicu  
N cyrillicudiaeresis  
N cyrillicudoubleacute  
N cyrillicuk  
N cyrillicumacron  
N cyrillicushrt  
N cyrillicv  
N cyrillicya  
N cyrillicyat  
N cyrillicyerudiaeresis

N cyrillicyi  
N cyrillicyo  
N cyrillicystr  
N cyrillicystrstroke  
N cyrillicyu  
N cyrillicz  
N cyrilliczdsc  
N cyrilliczediaeresis  
N cyrilliczh  
N cyrilliczhebreve  
N cyrilliczhedescender  
N cyrilliczhediaeresis  
N dcaron  
N dcurl  
N dhook  
N dotlessI  
N dotlessJ  
N dotlessi  
N dotlessj  
N dotlessjstroke  
N dstroke  
N dtail  
N dzcaronligature  
N dzligature  
N eacute  
N ebreve  
N ecaron  
N ecedilla  
N ecircumflex  
N ecircumflexacute  
N ecircumflexdotbelow  
N ecircumflexgrave  
N ecircumflexhook  
N ecircumflextilde  
N ediaeresis  
N edotaccent  
N edotbelow  
N edoublegrave  
N egrave  
N ehook  
N einvertedbreve  
N emacron  
N emdash  
N emspace

N endash	N greekBeta
N enspace	N greekChi
N eogonek	N greekCoronis
N etilde	N greekDelta
N exclamdown	N greekEpsilon
N ffligature	N greekEpsilonondasias
N ffligature	N greekEpsilonondasiatonos
N ffligature	N greekEpsilonondasiaavaria
N fhook	N greekEpsilonpsili
N figurespace	N greekEpsilonpsilitonos
N filigature	N greekEpsilonpsilivaria
N fiveeighths	N greekEpsilontonos
N fivesixths	N greekEpsilonvaria
N fligature	N greekEta
N fourfifths	N greekEtadasia
N fourperemspace	N greekEtadasiaaperispomeni
N gacute	N greekEtadasiatonos
N gbreve	N greekEtadasiaavaria
N gcaron	N greekEtaiotasub
N gcircumflex	N greekEtaiotasubdasias
N gcommaaccent	N greekEtaiotasubdasiaaperispomeni
N gdotaccent	N greekEtaiotasubdasiatonos
N greekAlpha	N greekEtaiotasubdasiaavaria
N greekAlphadasias	N greekEtaiotasubpsili
N greekAlphadasiaaperispomeni	N greekEtaiotasubpsiliperispomeni
N greekAlphadasiatonos	N greekEtaiotasubpsilitonos
N greekAlphadasiaavaria	N greekEtaiotasubpsilivaria
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N greekAlphaiotasubdasias	N greekEtapsiliperispomeni
N greekAlphaiotasubdasiaaperispomeni	N greekEtapsilitonos
N greekAlphaiotasubdasiatonos	N greekEtapsilivaria
N greekAlphaiotasubdasiaavaria	N greekEtatonos
N greekAlphaiotasubpsili	N greekEtavaria
N greekAlphaiotasubpsiliperispomeni	N greekGamma
N greekAlphaiotasubpsilitonos	N greekIota
N greekAlphaiotasubpsilivaria	N greekIotadasias
N greekAlphamacron	N greekIotadasiaaperispomeni
N greekAlphapsili	N greekIotadasiatonos
N greekAlphapsiliperispomeni	N greekIotadasiaavaria
N greekAlphapsilitonos	N greekIotadialytika
N greekAlphapsilivaria	N greekIotamacron
N greekAlphatonos	N greekIotapsili
N greekAlphavaria	N greekIotapsiliperispomeni
N greekAlphavrachy	N greekIotapsilitonos

N greekIotapsilivaria	N greekTau
N greekIotatonos	N greekTheta
N greekIotavaria	N greekUpsilon
N greekIotavrachy	N greekUpsilonondasia
N greekKappa	N greekUpsilonondasiaperispomeni
N greekLambda	N greekUpsilonondasiatonos
N greekMu	N greekUpsilonondasiavaria
N greekNu	N greekUpsilonondialytika
N greekOmega	N greekUpsilonmacron
N greekOmegadasia	N greekUpsilonontonos
N greekOmegadasiaperispomeni	N greekUpsilonvaria
N greekOmegadasiatonos	N greekUpsilonvrachy
N greekOmegadasiavaria	N greekXi
N greekOmegaiotasub	N greekZeta
N greekOmegaiotasubdasia	N greekalpha
N greekOmegaiotasubdasiaperispomeni	N greekalphadasia
N greekOmegaiotasubdasiatonos	N greekalphadasiaperispomeni
N greekOmegaiotasubdasiavaria	N greekalphadasiatonos
N greekOmegaiotasubpsili	N greekalphadasiavaria
N greekOmegaiotasubpsiliperispomeni	N greekalphaiotasub
N greekOmegaiotasubpsilitonos	N greekalphaiotasubdasia
N greekOmegaiotasubpsilivaria	N greekalphaiotasubdasiaperispomeni
N greekOmegapsili	N greekalphaiotasubdasiatonos
N greekOmegapsiliperispomeni	N greekalphaiotasubdasiavaria
N greekOmegapsilitonos	N greekalphaiotasubperispomeni
N greekOmegapsilivaria	N greekalphaiotasubpsili
N greekOmegatonos	N greekalphaiotasubpsiliperispomeni
N greekOmegavaria	N greekalphaiotasubpsilitonos
N greekOmicron	N greekalphaiotasubpsilivaria
N greekOmicrondasia	N greekalphaiotasubtonos
N greekOmicrondasiatonos	N greekalphaiotasubvaria
N greekOmicrondasiavaria	N greekalphamacron
N greekOmicronpsili	N greekalphaoxia
N greekOmicronpsilitonos	N greekalphaperispomeni
N greekOmicronpsilivaria	N greekalphapsili
N greekOmicrontonos	N greekalphapsiliperispomeni
N greekOmicronvaria	N greekalphapsilitonos
N greekPhi	N greekalphapsilivaria
N greekPi	N greekalphatonos
N greekPsi	N greekalphavaria
N greekRho	N greekalphavrachy
N greekRhodasia	N greekbeta
N greekSigma	N greekchi
N greekSigmaunate	N greekdasia

N greekdasiaperispomeni  
 N greekdasiatonos  
 N greekdasiavaria  
 N greekdelta  
 N greekdialytikaperispomeni  
 N greekdialytikatonos  
 N greekdialytikavaria  
 N greekdigamma  
 N greekepsilon  
 N greekepsilonalt  
 N greekepsilonondasia  
 N greekepsilonondasiatonos  
 N greekepsilonondasiavaria  
 N greekepsilonoxia  
 N greekepsilonpsili  
 N greekepsilonpsilitonos  
 N greekepsilonpsilivaria  
 N greekepsilontonos  
 N greekepsilonvaria  
 N greeketa  
 N greeketadasia  
 N greeketadasiaaperispomeni  
 N greeketadasiatonos  
 N greeketadasiaavaria  
 N greeketaiotasub  
 N greeketaiotasubdasia  
 N greeketaiotasubdasiaperispomeni  
 N greeketaiotasubdasiatonos  
 N greeketaiotasubdasiavaria  
 N greeketaiotasubperispomeni  
 N greeketaiotasubpsili  
 N greeketaiotasubpsiliperispomeni  
 N greeketaiotasubpsilitonos  
 N greeketaiotasubpsilivaria  
 N greeketaiotasubtonos  
 N greeketaiotasubvaria  
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 N greeketaperispomeni  
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 N greeketapsiliperispomeni  
 N greeketapsilitonos  
 N greeketapsilivaria  
 N greeketatonos  
 N greeketavaria

N greekfinalsigma  
 N greekgamma  
 N greekiota  
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 N greekiotadasiaaperispomeni  
 N greekiotadasiatonos  
 N greekiotadasiaavaria  
 N greekiotadialytika  
 N greekiotadialytikaperispomeni  
 N greekiotadialytikatonos  
 N greekiotadialytikavaria  
 N greekiotamacron  
 N greekiotaoxia  
 N greekiotaperispomeni  
 N greekiotapsili  
 N greekiotapsiliperispomeni  
 N greekiotapsilitonos  
 N greekiotapsilivaria  
 N greekiotatonos  
 N greekiotavaria  
 N greekiotavrachy  
 N greekkappa  
 N greekkoppa  
 N greeklambda  
 N greekmu  
 N greeknu  
 N greeknumkoppa  
 N greekomega  
 N greekomegadasia  
 N greekomegadasiaaperispomeni  
 N greekomegadasiatonos  
 N greekomegadasiaavaria  
 N greekomegaiotasub  
 N greekomegaiotasubdasia  
 N greekomegaiotasubdasiaperispomeni  
 N greekomegaiotasubdasiatonos  
 N greekomegaiotasubdasiavaria  
 N greekomegaiotasubperispomeni  
 N greekomegaiotasubpsili  
 N greekomegaiotasubpsiliperispomeni  
 N greekomegaiotasubpsilitonos  
 N greekomegaiotasubpsilivaria  
 N greekomegaiotasubtonos  
 N greekomegaiotasubvaria

N greekomegaoxia	N greekupsilondasiaperispomeni
N greekomegaperispomeni	N greekupsilondasiatonos
N greekomegapsili	N greekupsilondasiavaria
N greekomegapsiliperispomeni	N greekupsilondiaeresis
N greekomegapsilitonos	N greekupsilondialytikaperispomeni
N greekomegapsilivaria	N greekupsilondialytikatonos
N greekomegatonos	N greekupsilondialytikavaria
N greekomegavaria	N greekupsilonmacron
N greekomicron	N greekupsilonoxia
N greekomicrondasia	N greekupsilonperispomeni
N greekomicrondasiatonos	N greekupsilonpsili
N greekomicrondasiavaria	N greekupsilonpsiliperispomeni
N greekomicronoxia	N greekupsilonpsilitonos
N greekomicronpsili	N greekupsilonpsilivaria
N greekomicronpsilitonos	N greekupsilontonos
N greekomicronpsilivaria	N greekupsilonvaria
N greekomicrontonos	N greekupsilonvrachy
N greekomicronvaria	N greekvaria
N greekoxia	N greekxi
N greekperispomeni	N greekzeta
N greekphi	N gstroke
N greekphialt	N guilsingleleft
N greekpi	N guilsingleright
N greekpialt	N hairspace
N greekprosgegrammeni	N hcaron
N greekpsi	N hcircumflex
N greekpsili	N hebrewAlef
N greekpsiliperispomeni	N hebrewAyin
N greekpsilitonos	N hebrewBet
N greekpsilivaria	N hebrewDalet
N greekrho	N hebrewGimel
N greekrhoalt	N hebrewHe
N greekrhodasia	N hebrewHet
N greekrhopsili	N hebrewKaf
N greeksampi	N hebrewKaffinal
N greeksigma	N hebrewLamed
N greeksigmalunate	N hebrewMem
N greekstigma	N hebrewMemfinal
N greektau	N hebrewNun
N greektheta	N hebrewNunfinal
N greekthetaalt	N hebrewPe
N greektonos	N hebrewPefinal
N greekupsilon	N hebrewQof
N greekupsilondasia	N hebrewResh



N hebrewSamekh	N napostrophe
N hebrewShin	N narrownobreakspace
N hebrewTav	N ncaron
N hebrewTet	N ncommaaccent
N hebrewTsadi	N ncurl
N hebrewTsadifinal	N neng
N hebrewVav	N ngrave
N hebrewYod	N njligature
N hebrewZayin	N nobreakspace
N hstroke	N ntilde
N iacute	N oacute
N ibreve	N obreve
N icaron	N ocaron
N icircumflex	N ocircumflex
N ideographichalffillspace	N ocircumflexacute
N ideographicspace	N ocircumflexdotbelow
N idiaeresis	N ocircumflexgrave
N idotaccent	N ocircumflexhook
N idotbelow	N ocircumflextilde
N idoublegrave	N odiaeresis
N igrave	N odiaeresismacron
N ihook	N odotaccent
N iinvertedbreve	N odotaccentmacron
N ijligature	N odotbelow
N imacron	N odoublegrave
N iogonek	N oeligature
N itilde	N ograve
N jcaron	N ohook
N jcircumflex	N ohorn
N kcaron	N ohornacute
N kcommaaccent	N ohorndotbelow
N khook	N ohorngrave
N kkra	N ohornhook
N lacute	N ohorntilde
N lbar	N ohungarumlaut
N lcaron	N oinvertedbreve
N lcommaaccent	N omacron
N lcurl	N oneeighth
N ldotmiddle	N onefifth
N leftguillemot	N onehalf
N ljligature	N onequarter
N lstroke	N onesixth
N medspace	N onesuperior
N nacute	N onethird

N oogonek	N romanXII
N oogonekmacron	N romanc
N ordfeminine	N romand
N ordmasculine	N romani
N ostroke	N romanii
N ostrokeacute	N romaniii
N otilde	N romaniv
N otildemacron	N romanix
N paragraphmark	N romanl
N periodcentered	N romanm
N perthousand	N romanv
N phook	N romanvi
N punctuationspace	N romanvii
N questiondown	N romanviii
N quotedbl	N romanx
N quotedblbase	N romanxi
N quotedblleft	N romanxii
N quotedblright	N sacute
N quoteleft	N scaron
N quoteright	N scedilla
N quotesingle	N schwa
N quotesinglebase	N schwahook
N racute	N scircumflex
N rcaron	N scommaaccent
N rcommaaccent	N sectionmark
N rdoublegrave	N seveneighths
N registered	N sixperemspace
N rightguillemot	N slong
N rinvertedbreve	N softthyphen
N romanC	N ssharp
N romanD	N stligature
N romanI	N tcaron
N romanII	N tcedilla
N romanIII	N tcommaaccent
N romanIV	N tcurl
N romanIX	N textAngstrom
N romanL	N textacute
N romanM	N textampersand
N romanV	N textasciicircum
N romanVI	N textasciitilde
N romanVII	N textat
N romanVIII	N textbackslash
N romanX	N textbar
N romanXI	N textbottomcomma

N textbottomdot	N textring
N textbraceleft	N textslash
N textbraceright	N textsterling
N textbreve	N texttilde
N textbrokenbar	N textunderscore
N textbullet	N textyen
N textcaron	N thook
N textcedilla	N thorn
N textcelsius	N threeeighths
N textcent	N threefifths
N textcircledP	N threeperemspace
N textcircumflex	N threequarter
N textcomma	N threesuperior
N textcurrency	N trademark
N textdag	N tstroke
N textddag	N twofifths
N textdegree	N twosuperior
N textdiaeresis	N twothirds
N textdiv	N uacute
N textdollar	N ubreve
N textdong	N ucaron
N textdotaccent	N ucircumflex
N textellipsis	N udiaeresis
N texteuro	N udiaeresisacute
N textfraction	N udiaeresiscaron
N textgrave	N udiaeresisgrave
N texthash	N udiaeresismacron
N texthorizontalbar	N udotbelow
N texthungarumlaut	N udoublegrave
N texthyphen	N ugrave
N textkelvin	N uhook
N textlognot	N uhorn
N textmacron	N uhornacute
N textmho	N uhorndotbelow
N textminus	N uhorngrave
N textmu	N uhornhook
N textmultiply	N uhorntilde
N textnumero	N uhungarumlaut
N textogonek	N uinvertedbreve
N textohm	N umacron
N textounce	N uogonek
N textpercent	N uring
N textperiod	N utilde
N textpm	N wcircumflex

N yacute	N Acyrillic
N ycircumflex	N Adblgrave
N ydiaeresis	N Adieresis
N ydotbelow	N Adieresiscyrillic
N ygrave	N Adieresismacron
N yhook	N Adotbelow
N ymacron	N Adotmacron
N ytilde	N Agrave
N zacute	N Ahookabove
N zcaron	N Aiecyrillic
N zdotaccent	N Ainvertedbreve
N zerowidthnobreakspace	N Alpha
N zerowidthspace	N Alphanos
N zhook	N Amacron
N zstroke	N Amonospace
N zwj	N Aogonek
N zwnj	N Aring
F is_known	N Aringacute
D known	N Aringbelow
F load	N Atilde
F make_unicode_vector	N Aybarmenian
D math	N B
T names	N Bcircle
T unicodes	N Bdotaccent
N A	N Bdotbelow
N AE	N Becyrillic
N AEacute	N Benarmenian
N AEmacron	N Beta
N Aacute	N Bhook
N Abreve	N Blinebelow
N Abreveacute	N Bmonospace
N Abrevecyrillic	N Btopbar
N Abrevedotbelow	N C
N Abrevegrave	N Caarmenian
N Abrevehookabove	N Cacute
N Abrevetilde	N Ccaron
N Acaron	N Ccedilla
N Acircle	N Ccedillaacute
N Acircumflex	N Ccircle
N Acircumflexacute	N Ccircumflex
N Acircumflexdotbelow	N Cdot
N Acircumflexgrave	N Cdotaccent
N Acircumflexhookabove	N Chaarmenian
N Acircumflextilde	N Cheabkhasiancyrillic

N Checyrillic  
 N Chedescenderabkhasiancyrillic  
 N Chedescendercyrillic  
 N Chedieresiscyrillic  
 N Cheharmenian  
 N Chekhakassiancyrillic  
 N Cheverticalstrokecyrillic  
 N Chi  
 N Chook  
 N Cmonospace  
 N Coarmenian  
 N D  
 N DZ  
 N DZcaron  
 N Daarmenian  
 N Dafrican  
 N Dcaron  
 N Dcedilla  
 N Dcircle  
 N Dcircumflexbelow  
 N Dcroat  
 N Ddotaccent  
 N Ddotbelow  
 N Decyrillic  
 N Deicoptic  
 N Delta  
 N Deltagreek  
 N Dhook  
 N Digammagreek  
 N Djecyrillic  
 N Dlinebelow  
 N Dmonospace  
 N Dslash  
 N Dtopbar  
 N Dz  
 N Dzcaron  
 N Dzeabkhasiancyrillic  
 N Dzecyrillic  
 N Dzhecyrillic  
 N E  
 N Eacute  
 N Ebreve  
 N Ecaron  
 N Ecedillabreve

N Echarmenian  
 N Ecircle  
 N Ecircumflex  
 N Ecircumflexacute  
 N Ecircumflexbelow  
 N Ecircumflexdotbelow  
 N Ecircumflexgrave  
 N Ecircumflexhookabove  
 N Ecircumflextilde  
 N Ecyrillic  
 N Edblgrave  
 N Edieresis  
 N Edot  
 N Edotaccent  
 N Edotbelow  
 N Efcyrillic  
 N Egrave  
 N Eharmenian  
 N Ehookabove  
 N Eightroman  
 N Einvertedbreve  
 N Eiotifiedcyrillic  
 N Elcyrillic  
 N Elevenroman  
 N Emacron  
 N Emacronacute  
 N Emacrongrave  
 N Emcyrillic  
 N Emonospace  
 N Encyrillic  
 N Endescendercyrillic  
 N Eng  
 N Enghecyrillic  
 N Enhookcyrillic  
 N Eogonek  
 N Eopen  
 N Epsilon  
 N Epsilontonos  
 N Ercyrillic  
 N Ereversed  
 N Ereversedcyrillic  
 N Escyrillic  
 N Esdescendercyrillic  
 N Esh

N Eta	N Gsmallhook
N Etarmenian	N Gstroke
N Etatonos	N H
N Eth	N H18533
N Etilde	N H18543
N Etildebelow	N H18551
N Euro	N H22073
N Ezh	N HPsquare
N Ezhcaron	N Haabkhasiancyrillic
N Ezhreversed	N Hadescendercyrillic
N F	N Hardsigncyrillic
N Fcircle	N Hbar
N Fdotaccent	N Hbrevebelow
N Feharmenian	N Hcedilla
N Feicoptic	N Hcircle
N Fhook	N Hcircumflex
N Fitacyrillic	N Hdieresis
N Fiveroman	N Hdotaccent
N Fmonospace	N Hdotbelow
N Fourroman	N Hmonospace
N G	N Hoarmenian
N GBsquare	N Horicoptic
N Gacute	N Hzsquare
N Gamma	N I
N Gammaafrican	N IAcyrillic
N Gangiacoptic	N IJ
N Gbreve	N IUcyrillic
N Gcaron	N Iacute
N Gcedilla	N Ibreve
N Gcircle	N Icaron
N Gcircumflex	N Icircle
N Gcommaaccent	N Icircumflex
N Gdot	N Icyrillic
N Gdotaccent	N Idblgrave
N Gecyrillic	N Idieresis
N Ghadarmenian	N Idieresisacute
N Ghemiddlehookcyrillic	N Idieresiscyrillic
N Ghestrokecyrillic	N Idot
N Gheupturncyrillic	N Idotaccent
N Ghook	N Idotbelow
N Gimarmenian	N Iebrevecyrillic
N Gjecyrillic	N Iecyrillic
N Gmacron	N Ifraktur
N Gmonospace	N Igrave

N Ihookabove  
 N Iicyrillic  
 N Iinvertedbreve  
 N Iishortcyrillic  
 N Imacron  
 N Imacroncyrillic  
 N Imonospace  
 N Iniarmenian  
 N Iocyrillic  
 N Iogonek  
 N Iota  
 N Iotaafrican  
 N Iotadieresis  
 N Iotatonos  
 N Istroke  
 N Itilde  
 N Itildebelow  
 N Izhitsacyrillic  
 N Izhitsadblgravecyrillic  
 N J  
 N Jaarmenian  
 N Jcircle  
 N Jcircumflex  
 N Jecyrillic  
 N Jheharmenian  
 N Jmonospace  
 N K  
 N KBsquare  
 N KKsquare  
 N Kabashkircyrillic  
 N Kacute  
 N Kacyrillic  
 N Kdescendercyrillic  
 N Kahookcyrillic  
 N Kappa  
 N Kastrokecyrillic  
 N Kaverticalserokecyrillic  
 N Kcaron  
 N Kcedilla  
 N Kcircle  
 N Kcommaaccent  
 N Kdotbelow  
 N Keharmenian  
 N Kenarmenian

N Khacyrillic  
 N Kheicoptic  
 N Khook  
 N Kjecyrillic  
 N Klinebelow  
 N Kmonospace  
 N Koppacyrillic  
 N Koppagreek  
 N Ksicyrillic  
 N L  
 N LJ  
 N Lacute  
 N Lambda  
 N Lcaron  
 N Lcedilla  
 N Lcircle  
 N Lcircumflexbelow  
 N Lcommaaccent  
 N Ldot  
 N Ldotaccent  
 N Ldotbelow  
 N Ldotbelowmacron  
 N Liwnarmenian  
 N Lj  
 N Ljecyrillic  
 N Llinebelow  
 N Lmonospace  
 N Lslash  
 N M  
 N MBsquare  
 N Macute  
 N Mcircle  
 N Mdotaccent  
 N Mdotbelow  
 N Menarmenian  
 N Mmonospace  
 N Mturned  
 N Mu  
 N N  
 N NJ  
 N Nacute  
 N Ncaron  
 N Ncedilla  
 N Ncircle

N Ncircumflexbelow  
 N Ncommaaccent  
 N Ndotaccent  
 N Ndotbelow  
 N Nhookleft  
 N Nineroman  
 N Nj  
 N Njecyrillic  
 N Nlinebelow  
 N Nmonospace  
 N Nowarmenian  
 N Ntilde  
 N Nu  
 N O  
 N OE  
 N Oacute  
 N Obarredcyrillic  
 N Obarreddieresiscyrillic  
 N Obreve  
 N Ocaron  
 N Ocenteredtilde  
 N Ocircle  
 N Ocircumflex  
 N Ocircumflexacute  
 N Ocircumflexdotbelow  
 N Ocircumflexgrave  
 N Ocircumflexhookabove  
 N Ocircumflextilde  
 N Ocyrillic  
 N Odblacute  
 N Odblgrave  
 N Odieresis  
 N Odieresiscyrillic  
 N Odotbelow  
 N Ograve  
 N Oharmenian  
 N Ohm  
 N Ohookabove  
 N Ohorn  
 N Ohornacute  
 N Ohorndotbelow  
 N Ohorngrave  
 N Ohornhookabove  
 N Ohorntilde

N Ohungarumlaut  
 N Oi  
 N Oinvertedbreve  
 N Omacron  
 N Omacronacute  
 N Omacrongrave  
 N Omega  
 N Omegacyrillic  
 N Omegagreek  
 N Omegaroundcyrillic  
 N Omegatitlocyrillic  
 N Omegatonos  
 N Omicron  
 N Omicrontonos  
 N Omonospace  
 N Oneroman  
 N Oogonek  
 N Oogonekmacron  
 N Oopen  
 N Oslash  
 N Oslashacute  
 N Ostrokeacute  
 N Otcyrillic  
 N Otilde  
 N Otildeacute  
 N Otilddieresis  
 N P  
 N Pacute  
 N Pcircle  
 N Pdotaccent  
 N Pecyrillic  
 N Pecharmenian  
 N Pemiddlehookcyrillic  
 N Phi  
 N Phook  
 N Pi  
 N Piwrrarmenian  
 N Pmonospace  
 N Psi  
 N Psicyrillic  
 N Q  
 N Qcircle  
 N Qmonospace  
 N R



N Raarmenian	N SF370000
N Racute	N SF380000
N Rcaron	N SF390000
N Rcedilla	N SF40000
N Rcircle	N SF400000
N Rcommaaccent	N SF410000
N Rdblgrave	N SF420000
N Rdotaccent	N SF430000
N Rdotbelow	N SF440000
N Rdotbelowmacron	N SF450000
N Reharmerian	N SF460000
N Rfraktur	N SF470000
N Rho	N SF480000
N Rinvertedbreve	N SF490000
N Rlinebelow	N SF50000
N Rmonospace	N SF500000
N Rsmallinverted	N SF510000
N Rsmallinvertedsuperior	N SF520000
N S	N SF530000
N SF010000	N SF540000
N SF020000	N SF60000
N SF030000	N SF70000
N SF040000	N SF80000
N SF050000	N SF90000
N SF060000	N Sacute
N SF070000	N Sacutedotaccent
N SF080000	N Sampigreek
N SF090000	N Scaron
N SF10000	N Scarondotaccent
N SF100000	N Scedilla
N SF110000	N Schwa
N SF190000	N Schwacyrillic
N SF20000	N Schwadiesiscyrillic
N SF200000	N Scircle
N SF210000	N Scircumflex
N SF220000	N Scommaaccent
N SF230000	N Sdotaccent
N SF240000	N Sdotbelow
N SF250000	N Sdotbelowdotaccent
N SF260000	N Seharmerian
N SF270000	N Sevenroman
N SF280000	N Shaarmenian
N SF30000	N Shacyrillic
N SF360000	N Shchacyrillic

N Sheicoptic	N Ucircumflexbelow
N Shhacyrillic	N Ucyrillic
N Shimacoptic	N Udblacute
N Sigma	N Udblgrave
N Sixroman	N Udieresis
N Smonospace	N Udieresisacute
N Softsigncyrillic	N Udieresisbelow
N Stigmagreek	N Udieresiscaron
N T	N Udieresiscyrillic
N Tau	N Udieresisgrave
N Tbar	N Udieresismacron
N Tcaron	N Udotbelow
N Tcedilla	N Ugrave
N Tcircle	N Uhookabove
N Tcircumflexbelow	N Uhorn
N Tcommaaccent	N Uhornacute
N Tdotaccent	N Uhornodotbelow
N Tdotbelow	N Uhorngrave
N Tecyrillic	N Uhornhookabove
N Tedescendercyrillic	N Uhorntilde
N Tenroman	N Uhungarumlaut
N Tetsecyrillic	N Uhungarumlautcyrillic
N Theta	N Uinvertedbreve
N Thook	N Ukcyrillic
N Thorn	N Umacron
N Threeroman	N Umacroncyrillic
N Tiwnarmenian	N Umacrondieresis
N Tlinebelow	N Umonospace
N Tmonospace	N Uogonek
N Toarmenian	N Upsilon
N Tonefive	N Upsilon1
N Tonesix	N Upsilonacutehooksymbolgreek
N Tonetwo	N Upsilonafrican
N Retroflexhook	N Upsilondieresis
N Tsecyrillic	N Upsilondieresishooksymbolgreek
N Tshecyrillic	N Upsilonhooksymbol
N Twelveroman	N Upsilonontonos
N Tworoman	N Uring
N U	N Ushortcyrillic
N Uacute	N Ustraightcyrillic
N Ubreve	N Ustraightstrokecyrillic
N Ucaron	N Utilde
N Ucircle	N Utildeacute
N Ucircumflex	N Utildebelow

N V	N Yusbigiotifiedcyrillic
N Vcircle	N Yuslittlecyrillic
N Vdotbelow	N Yuslittleiotifiedcyrillic
N Vecyrillic	N Z
N Vewarmenian	N Zaarmenian
N Vhook	N Zacute
N Vmonospace	N Zcaron
N Voarmenian	N Zcircle
N Vtilde	N Zcircumflex
N W	N Zdot
N Wacute	N Zdotaccent
N Wcircle	N Zdotbelow
N Wcircumflex	N Zecyrillic
N Wdieresis	N Zedescendercyrillic
N Wdotaccent	N Zedieresiscyrillic
N Wdotbelow	N Zeta
N Wgrave	N Zhearmenian
N Wmonospace	N Zhebrevecyrillic
N X	N Zhecyrillic
N Xcircle	N Zhedescendercyrillic
N Xdieresis	N Zhedieresiscyrillic
N Xdotaccent	N Zlinebelow
N Xeharmenian	N Zmonospace
N Xi	N Zstroke
N Xmonospace	N a
N Y	N aabengali
N Yacute	N aacute
N Yatcyrillic	N aadeva
N Ycircle	N aagujarati
N Ycircumflex	N aagurmukhi
N Ydieresis	N aamatragurmukhi
N Ydotaccent	N aarusquare
N Ydotbelow	N aavowelsignbengali
N Yericyrillic	N aavowelsigndeva
N Yerudieresiscyrillic	N aavowelsigngujarati
N Ygrave	N abbreviationmarkarmenian
N Yhook	N abbreviationsigndeva
N Yhookabove	N abengali
N Yiarmenian	N abopomofo
N Yicyrillic	N abreve
N Yiwnarmenian	N abreveacute
N Ymonospace	N abrevecyrillic
N Ytilde	N abrevedotbelow
N Yusbigcyrillic	N abrevegrave

N abrevehookabove	N afii10029
N abrevetilde	N afii10030
N acaron	N afii10031
N acircle	N afii10032
N acircumflex	N afii10033
N acircumflexacute	N afii10034
N acircumflexdotbelow	N afii10035
N acircumflexgrave	N afii10036
N acircumflexhookabove	N afii10037
N acircumflextilde	N afii10038
N acute	N afii10039
N acutebelowcmb	N afii10040
N acutecmb	N afii10041
N acutecomb	N afii10042
N acutedeva	N afii10043
N acutelowmod	N afii10044
N acutetonecmb	N afii10045
N acyrillic	N afii10046
N adblgrave	N afii10047
N addakgurmukhi	N afii10048
N adeva	N afii10049
N adieresis	N afii10050
N adieresis Cyrillic	N afii10051
N adieresis macron	N afii10052
N adotbelow	N afii10053
N adotmacron	N afii10054
N æ	N afii10055
N aeacute	N afii10056
N ækorean	N afii10057
N aemacron	N afii10058
N afii00208	N afii10059
N afii08941	N afii10060
N afii10017	N afii10061
N afii10018	N afii10062
N afii10019	N afii10065
N afii10020	N afii10066
N afii10021	N afii10067
N afii10022	N afii10068
N afii10023	N afii10069
N afii10024	N afii10070
N afii10025	N afii10071
N afii10026	N afii10072
N afii10027	N afii10073
N afii10028	N afii10074

N afii10075	N afii10846
N afii10076	N afii208
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N afii10078	N afii300
N afii10079	N afii301
N afii10080	N afii57381
N afii10081	N afii57388
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N afii57444	N afii57679
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N afii57470	N afii57700
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N afii57506	N afii57716
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N afii57508	N afii57718
N afii57509	N afii57723
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N afii57512	N afii57794
N afii57513	N afii57795
N afii57514	N afii57796
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N afii57636	N afii57799
N afii57645	N afii57800
N afii57658	N afii57801
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N afii57666	N afii57804
N afii57667	N afii57806
N afii57668	N afii57807
N afii57669	N afii57839
N afii57670	N afii57841
N afii57671	N afii57842
N afii57672	N afii57929
N afii57673	N afii61248

N afii61289	N alefmaksurafinalarabic
N afii61352	N alefmaksurainitialarabic
N afii61573	N alefmaksuramedialarabic
N afii61574	N alefpatahhebrew
N afii61575	N alefqamatshebrew
N afii61664	N aleph
N afii63167	N allequal
N afii64937	N alpha
N agrave	N alphanotos
N agujarati	N amacron
N agurmukhi	N amonospace
N ahiragana	N ampersand
N ahookabove	N ampersandmonospace
N aibengali	N amsquare
N aibopomofo	N anbopomofo
N aideva	N angbopomofo
N aiecyrillic	N angkhanthuthai
N aigujarati	N angle
N aigurmukhi	N anglebracketleft
N aimatragurmukhi	N anglebracketleftvertical
N ainarabic	N anglebracketright
N ainfinalarabic	N anglebracketrightvertical
N aininitialarabic	N angleleft
N ainmedialarabic	N angleright
N ainvertedbreve	N angstrom
N aivowelsignbengali	N anoteleia
N aivowelsigndeva	N anudattadeva
N aivowelsigngujarati	N anusvarabengali
N akatakana	N anusvaradeva
N akatakanahalfwidth	N anusvaragujarati
N akorean	N aogonek
N alef	N apaatosquare
N alefarabic	N aparen
N alefdageshhebrew	N apostrophearmenian
N aleffinalarabic	N apostrophemod
N alefhamzaabovearabic	N apple
N alefhamzaabovefinalarabic	N approaches
N alefhamzabelowarabic	N approxequal
N alefhamzabelowfinalarabic	N approxequalorimage
N alefhebrew	N approximatelyequal
N aleflamedhebrew	N araeaekorean
N alefmaddaabovearabic	N araeaekorean
N alefmaddaabovefinalarabic	N arc
N alefmaksuraarabic	N arighthalfring

N aring	N asciitildemonospace
N aringacute	N ascript
N aringbelow	N ascriptturned
N arrowboth	N asmallhiragana
N arrowdashdown	N asmallkatakana
N arrowdashleft	N asmallkatakanahalfwidth
N arrowdashright	N asterisk
N arrowdashup	N asteriskaltonearabic
N arrowdblboth	N asteriskarabic
N arrowdbldown	N asteriskmath
N arrowdblleft	N asteriskmonospace
N arrowdblright	N asterisksmall
N arrowdblup	N asterism
N arrowdown	N asymptoticallyequal
N arrowdownleft	N at
N arrowdownright	N atilde
N arrowdownwhite	N atmonospace
N arrowheaddownmod	N atsmall
N arrowheadleftmod	N aturned
N arrowheadrightmod	N aubengali
N arrowheadupmod	N aubopomofo
N arrowleft	N audeva
N arrowleftdbl	N augujarati
N arrowleftdblstroke	N augurmukhi
N arrowleftoverright	N aulengthmarkbengali
N arrowleftwhite	N aumatragurmukhi
N arrowright	N auvowelsignbengali
N arrowrightdblstroke	N auvowelsigndeva
N arrowrightheavy	N auvowelsigngujarati
N arrowrightoverleft	N avagrahadeva
N arrowrightwhite	N aybarmenian
N arrowtableft	N ayin
N arrowtabright	N ayinaltonehebrew
N arrowup	N ayinhebrew
N arrowupdn	N b
N arrowupdnbse	N babengali
N arrowupdownbase	N backslash
N arrowupleft	N backslashmonospace
N arrowupleftofdown	N badeva
N arrowupright	N bagujarati
N arrowupwhite	N bagurmukhi
N asciicircum	N bahiragana
N asciicircummonospace	N bahtthai
N asciitilde	N bakatakana



N bar	N blacklenticularbracketrightvertical
N barmonospace	N blacklowerlefttriangle
N bbopomofo	N blacklowerrighttriangle
N bcircle	N blackrectangle
N bdotaccent	N blackrightpointingpointer
N bdotbelow	N blackrightpointingtriangle
N beamedsixteenthnotes	N blacksmallsquare
N because	N blacksmilingface
N becyrillic	N blacksquare
N beharabic	N blackstar
N behfinalarabic	N blackupperlefttriangle
N behinitialarabic	N blackupperrighttriangle
N behiragana	N blackuppointingsmalltriangle
N behmedialarabic	N blackuppointingtriangle
N behmeeminitialarabic	N blank
N behmeemisolatedarabic	N blinebelow
N behnoonfinalarabic	N block
N bekatakana	N bmonospace
N benarmenian	N bobaimaithai
N bet	N bohiragana
N beta	N bokatakana
N betasymbolgreek	N bparen
N betdagesh	N bqsquare
N betdageshhebrew	N braceleft
N bethebrew	N braceleftmonospace
N betrafehebrew	N braceleftsmall
N bhabengali	N braceleftvertical
N bhadeva	N braceright
N bhagujarati	N bracerightmonospace
N bhagurmukhi	N bracerightsmall
N bhook	N bracerightvertical
N bihiragana	N bracketleft
N bikatakana	N bracketleftmonospace
N bilabialclick	N bracketright
N bindigurmukhi	N bracketrightmonospace
N birusquare	N breve
N blackcircle	N brevebelowcmb
N blackdiamond	N brevecmb
N blackdownpointingtriangle	N breveinvertedbelowcmb
N blackleftpointingpointer	N breveinvertedcmb
N blackleftpointingtriangle	N breveinverteddoublecmb
N blacklenticularbracketleft	N bridgebelowcmb
N blacklenticularbracketleftvertical	N bridgeinvertedbelowcmb
N blacklenticularbracketright	N brokenbar

N bstroke  
 N btopbar  
 N buhiragana  
 N bukatakana  
 N bullet  
 N bulletinverse  
 N bulletoperator  
 N bullseye  
 N c  
 N caarmenian  
 N cabengali  
 N cacute  
 N cadeva  
 N cagujarati  
 N cagurmukhi  
 N calsquare  
 N candrabindubengali  
 N candrabinducmb  
 N candrabindudeva  
 N candrabindugujarati  
 N capslock  
 N careof  
 N caron  
 N caronbelowcmb  
 N caroncmb  
 N carriagereturn  
 N cbopomofo  
 N ccaron  
 N ccedilla  
 N ccedillaacute  
 N ccircle  
 N ccircumflex  
 N ccurl  
 N cdot  
 N cdotaccent  
 N cdsquare  
 N cedilla  
 N cedillacmb  
 N cent  
 N centigrade  
 N centmonospace  
 N chaarmenian  
 N chabengali  
 N chadeva

N chagujarati  
 N chagurmukhi  
 N chbopomofo  
 N cheabkhasiancyrillic  
 N checkmark  
 N checyrillic  
 N chedescenderabkhasiancyrillic  
 N chedescendercyrillic  
 N chedieresiscyrillic  
 N cheharmenian  
 N chekhakassiancyrillic  
 N cheverticalstrokecyrillic  
 N chi  
 N chieuchacirclekorean  
 N chieuchaparenkorean  
 N chieuchcirclekorean  
 N chieuchkorean  
 N chieuchparenkorean  
 N chochangthai  
 N chochanthai  
 N chochingthai  
 N chochoethai  
 N chook  
 N cieucacirclekorean  
 N cieucaparenkorean  
 N cieuccirclekorean  
 N cieuckorean  
 N cieucparenkorean  
 N cieucuparenkorean  
 N circle  
 N circlemultiply  
 N circleot  
 N circleplus  
 N circlepostalmark  
 N circlewithlefthalfblack  
 N circlewithrighthalfblack  
 N circumflex  
 N circumflexbelowcmb  
 N circumflexcmb  
 N clear  
 N clickalveolar  
 N clickdental  
 N clicklateral  
 N clickretroflex

N club	N controlETB
N clubsuitblack	N controlETX
N clubsuitwhite	N controlFF
N cmcubedsquare	N controlFS
N cmonospace	N controlGS
N cmsquaredsquare	N controlHT
N coarmenian	N controlLF
N colon	N controlNAK
N colonmonetary	N controlRS
N colonmonospace	N controlSI
N colonsign	N controlSO
N colonsmall	N controlSOT
N colontriangularhalfmod	N controlSTX
N colontriangularmod	N controlSUB
N comma	N controlSYN
N commaabovecmb	N controlUS
N commaaboveughtcmb	N controlVT
N commaarabic	N copyright
N commaarmenian	N cornerbracketleft
N commamonospace	N cornerbracketlefthalfwidth
N commareversedabovecmb	N cornerbracketleftvertical
N commareversedmod	N cornerbracketright
N commasmall	N cornerbracketrighthalfwidth
N commaturnedabovecmb	N cornerbracketrightvertical
N commaturnedmod	N corporationsquare
N compass	N cosquare
N congruent	N coverkgsquare
N contourintegral	N cparen
N control	N cruzeiro
N controlACK	N cstretched
N controlBEL	N curlyand
N controlBS	N curlyor
N controlCAN	N currency
N controlCR	N d
N controlDC1	N daarmenian
N controlDC2	N dabengali
N controlDC3	N dadarabic
N controlDC4	N dadeva
N controlDEL	N dadfinalarabic
N controlDLE	N dadinitialarabic
N controlEM	N dadmedialarabic
N controlENQ	N dagesh
N controlEOT	N dageshhebrew
N controlESC	N dagger

N daggerdbl	N dblarrowleft
N dagujarati	N dblarrowright
N dagurmukhi	N dbldanda
N dahiragana	N dblggravecmb
N dakatakana	N dblintegral
N dalarabic	N dbllowline
N dalet	N dbllowlinecmb
N daletdagesh	N dbloverlinecmb
N daletdageshhebrew	N dblprimemod
N dalethatafpatah	N dblverticalbar
N dalethatafpatahhebrew	N dblverticallineabovecmb
N dalethatafsegol	N dbopomofo
N dalethatafsegolhebrew	N dbsquare
N dalethebrew	N dcaron
N dalethiriq	N dcedilla
N dalethiriqhebrew	N dcircle
N daletholam	N dcircumflexbelow
N daletholamhebrew	N dcroat
N daletpatah	N ddabengali
N daletpatahhebrew	N ddadeva
N daletqamats	N ddagujarati
N daletqamatshebrew	N ddagurmukhi
N daletqubuts	N ddalarabic
N daletqubutshebrew	N ddalfinalarabic
N daletsegol	N dddhadeva
N daletsegolhebrew	N ddhabengali
N daletsheva	N ddhadeva
N daletshevahebrew	N ddhagujarati
N dalettsere	N ddhagurmukhi
N dalettserehebrew	N ddotaccent
N dalfinalarabic	N ddotbelow
N dammaarabic	N decimalseparatorarabic
N dammalowarabic	N decimalseparatorpersian
N dammatanaltonearabic	N decyrillic
N dammatanarabic	N degree
N danda	N dehihebrew
N dargahebrew	N dehiragana
N dargalefthebrew	N deicoptic
N dasiapneumatacyrilliccmb	N dekatakana
N dblanglebracketleft	N deletelleft
N dblanglebracketleftvertical	N deleteright
N dblanglebracketright	N delta
N dblanglebracketrightvertical	N delteturned
N dblarchinvertedbelowcmb	N denominatorminusonenumeratorbengali

N dezh  
 N dhabengali  
 N dhadeva  
 N dhagujarati  
 N dhagurmukhi  
 N dhook  
 N dialytikatonos  
 N dialytikatonoscmb  
 N diamond  
 N diamondsuitwhite  
 N dieresis  
 N dieresisbelowcmb  
 N dieresiscmb  
 N dieresistonos  
 N dihiragana  
 N dikatakana  
 N dittomark  
 N divide  
 N divides  
 N divisionslash  
 N djecyrillic  
 N dkshade  
 N dlinebelow  
 N dlsquare  
 N dmacron  
 N dmonospace  
 N dnbblock  
 N dochadathai  
 N dodekthai  
 N dohiragana  
 N dokatakana  
 N dollar  
 N dollarmonospace  
 N dollarsmall  
 N dong  
 N dorusquare  
 N dotaccent  
 N dotaccentcmb  
 N dotbelowcmb  
 N dotbelowcomb  
 N dotkatakana  
 N dotlessi  
 N dotlessj  
 N dotlessjstrokehook

N dotmath  
 N dottedcircle  
 N doubleyodpatah  
 N doubleyodpatahhebrew  
 N downtackbelowcmb  
 N downtackmod  
 N dparen  
 N dtail  
 N dtopbar  
 N duhiragana  
 N dukatakana  
 N dz  
 N dzaltone  
 N dzcaron  
 N dzcurl  
 N dzeabkhasiancyrillic  
 N dzecyrillic  
 N dzhecyrillic  
 N e  
 N eacute  
 N earth  
 N ebengali  
 N ebopomofo  
 N ebreve  
 N ecandradeva  
 N ecandragujarati  
 N ecandravowelsigndeva  
 N ecandravowelsigngujarati  
 N ecaron  
 N ecedillabreve  
 N echarmenian  
 N echyiwnarmenian  
 N ecircle  
 N ecircumflex  
 N ecircumflexacute  
 N ecircumflexbelow  
 N ecircumflexdotbelow  
 N ecircumflexgrave  
 N ecircumflexhookabove  
 N ecircumflextilde  
 N ecyrillic  
 N edblgrave  
 N edeva  
 N edieresis

N edot	N elevencircle
N edotaccent	N elevenparen
N edotbelow	N elevenperiod
N eegurmukhi	N elevenroman
N eematragurmukhi	N ellipsis
N efcyrillic	N ellipsisvertical
N egrave	N emacron
N egujarati	N emacronacute
N eharmerian	N emacrongrave
N ehbopomofo	N emcyrillic
N ehiragana	N emdash
N ehookabove	N emdashvertical
N eibopomofo	N emonospace
N eight	N emphasismarkarmenian
N eightarabic	N emptyset
N eightbengali	N enbopomofo
N eightcircle	N encyrillic
N eightcircleinversesansserif	N endash
N eightdeva	N endashvertical
N eighteencircle	N endescendercyrillic
N eighteenparen	N eng
N eighteenperiod	N engbopomofo
N eightgujarati	N enghecyrillic
N eightgurmukhi	N enhookcyrillic
N eighthackarabic	N enspace
N eighthangzhou	N eogonek
N eighthnotebeamed	N eokorean
N eightideographicparen	N eopen
N eightinferior	N eopenclosed
N eightmonospace	N eopenreversed
N eightparen	N eopenreversedclosed
N eightperiod	N eopenreversedhook
N eightpersian	N eparen
N eightroman	N epsilon
N eightsuperior	N epsilontonos
N eightthai	N equal
N einvertedbreve	N equalmonospace
N eiotifiedcyrillic	N equalsmall
N ekatakana	N equalsuperior
N ekatakanahalfwidth	N equivalence
N ekonkargurmukhi	N erbopomofo
N ekorean	N ercyrillic
N elcyrillic	N ereversed
N element	N ereversedcyrillic

N escyrillic	N fathalowarabic
N esdescendercyrillic	N fathatanarabic
N esh	N fbopomofo
N eshcurl	N fcircle
N eshortdeva	N fdotaccent
N eshortvowelsigndeva	N feharabic
N eshreversedloop	N feharmenian
N eshsquatreversed	N fehfinalarabic
N esmallhiragana	N fehinitialarabic
N esmallkatakana	N fehmedialarabic
N esmallkatakanahalfwidth	N feicoptic
N estimated	N female
N eta	N ff
N etarmenian	N ffi
N etatonos	N ffl
N eth	N fi
N etilde	N fifteencircle
N etildebelow	N fifteenparen
N etnahtafoukhhebrew	N fifteenperiod
N etnahtafoukhlefthebrew	N figuredash
N etnahtahebrew	N filledbox
N etnahtalefthebrew	N filledrect
N eturned	N finalkaf
N eukorean	N finalkafdagesh
N euro	N finalkafdageshhebrew
N evowelsignbengali	N finalkafhebrew
N evowelsigndeva	N finalkafqamats
N evowelsigngujarati	N finalkafqamatshebrew
N exclam	N finalkafsheva
N exclamarmenian	N finalkafshevahebrew
N exclamdbl	N finalmem
N exclamdown	N finalmemhebrew
N exclammonospace	N finalnun
N existential	N finalnunhebrew
N ezh	N finalpe
N ezhcaron	N finalpehebrew
N ezhcurl	N finaltsadi
N ezhreversed	N finaltsadihebrew
N ezhtail	N firsttonechinese
N f	N fisheye
N fadeva	N fitacyrillic
N fagurmukhi	N five
N fahrenheit	N fivearabic
N fathaarabic	N fivebengali

N fivecircle  
 N fivecircleinversesansserif  
 N fivedeva  
 N fiveeighths  
 N fivegujarati  
 N fivegurmukhi  
 N fivehackarabic  
 N fivehangzhou  
 N fiveideographicparen  
 N fiveinferior  
 N fivemonospace  
 N fiveparen  
 N fiveperiod  
 N fivepersian  
 N fiveroman  
 N fivesuperior  
 N fivethai  
 N fl  
 N florin  
 N fmonospace  
 N fmsquare  
 N fofanthai  
 N fofathai  
 N fongmanthai  
 N forall  
 N four  
 N fourarabic  
 N fourbengali  
 N fourcircle  
 N fourcircleinversesansserif  
 N fourdeva  
 N fourgujarati  
 N fourgurmukhi  
 N fourhackarabic  
 N fourhangzhou  
 N fourideographicparen  
 N fourinferior  
 N fourmonospace  
 N fournumeratorbengali  
 N fourparen  
 N fourperiod  
 N fourpersian  
 N fourroman  
 N foursuperior

N fourteencircle  
 N fourteenparen  
 N fourteenperiod  
 N fourthai  
 N fourthtonechinese  
 N fparen  
 N fraction  
 N franc  
 N g  
 N gabengali  
 N gacute  
 N gadeva  
 N gafarabic  
 N gaffinalarabic  
 N gafinitialarabic  
 N gafmedialarabic  
 N gagujarati  
 N gagurmukhi  
 N gahiragana  
 N gakatakana  
 N gamma  
 N gammalatinsmall  
 N gammasuperior  
 N gangiacoptic  
 N gbopomofo  
 N gbreve  
 N gcaron  
 N gcedilla  
 N gcircle  
 N gcircumflex  
 N gcommaaccent  
 N gdot  
 N gdotaccent  
 N gecyrillic  
 N gehiragana  
 N gekatakana  
 N geometricallyequal  
 N gereshaccenthebrew  
 N gereshhebrew  
 N gereshmuqdamhebrew  
 N germandbls  
 N gershayimaccenthebrew  
 N gershayimhebrew  
 N getamark



N ghabengali	N gravedeva
N ghadarmenian	N gravelowmod
N ghadeva	N gravemonospace
N ghagujarati	N gravetonecmb
N ghagurmukhi	N greater
N ghainarabic	N greaterequal
N ghainfinalarabic	N greaterequalorless
N ghaininitialarabic	N greatermonospace
N ghainmedialarabic	N greaterorequivalent
N ghemiddlehookcyrillic	N greaterorless
N ghestrokecyrillic	N greateroverequal
N gheupturncyrillic	N greatersmall
N gh hadeva	N gscript
N gh hagurmukhi	N gstroke
N ghook	N guhiragana
N ghzsquare	N guillemotleft
N ghiragana	N guillemotright
N gikatakana	N guilsinglleft
N gimarmenian	N guilsinglright
N gimel	N gukatakana
N gimeldagesh	N guramusquare
N gimeldageshhebrew	N gysquare
N gimelhebrew	N h
N gjecyrillic	N haabkhasiancyrillic
N glottalinvertedstroke	N haaltonearabic
N glottalstop	N habengali
N glottalstopinverted	N hadescendercyrillic
N glottalstopmod	N hadeva
N glottalstopreversed	N haguajarati
N glottalstopreversedmod	N hagurmukhi
N glottalstopreversedsuperior	N haharabic
N glottalstopstroke	N hahfinalarabic
N glottalstopstrokereversed	N hahinitialarabic
N gmacron	N hahiragana
N gmonospace	N hahmedialarabic
N gohiragana	N haitusquare
N gokatakana	N hakatakana
N gparen	N hakatakanahalfwidth
N gpasquare	N halantgurmukhi
N gradient	N hamzaarabic
N grave	N hamzadammarabic
N gravebelowcmb	N hamzadammatanarabic
N gravecmb	N hamzafathaarabic
N gravecomb	N hamzafathatanarabic

N hamzalowarabic	N heartsuitblack
N hamzalowkasraarabic	N heartsuitwhite
N hamzalowkasratanarabic	N hedagesh
N hamzasukunarabic	N hedageshhebrew
N hangulfiller	N hehaltonearabic
N hardsigncyrillic	N heharabic
N harpoonleftbarbup	N hehebrew
N harpoonrightbarbup	N hehfinalaltonearabic
N hasquare	N hehfinalalttwoarabic
N hatafpatah	N hehfinalarabic
N hatafpatah16	N hehhamzaabovefinalarabic
N hatafpatah23	N hehhamzaaboveisolatedarabic
N hatafpatah2f	N hehinitialaltonearabic
N hatafpatahhebrew	N hehinitialarabic
N hatafpatahnarrowhebrew	N hehiragana
N hatafpatahquarterhebrew	N hehmedialaltonearabic
N hatafpatahwidehebrew	N hehmedialarabic
N hatafqamats	N heiseierasquare
N hatafqamats1b	N hekatakana
N hatafqamats28	N hekatakanahalfwidth
N hatafqamats34	N hekutaarusquare
N hatafqamatshebrew	N henghook
N hatafqamatsnarrowhebrew	N herutusquare
N hatafqamatsquarterhebrew	N het
N hatafqamatswidehebrew	N hethebrew
N hatafsegol	N hhook
N hatafsegol17	N hhooksuperior
N hatafsegol24	N hieuhacirclekorean
N hatafsegol30	N hieuhaparenkorean
N hatafsegolhebrew	N hieuhcirclekorean
N hatafsegolnarrowhebrew	N hieuhkorean
N hatafsegolquarterhebrew	N hieuhparenkorean
N hatafsegolwidehebrew	N hihiragana
N hbar	N hikatakana
N hbopomofo	N hikatakanahalfwidth
N hbrevebelow	N hiriq
N hcedilla	N hiriq14
N hcircle	N hiriq21
N hcircumflex	N hiriq2d
N hdieresis	N hiriqhebrew
N hdotaccent	N hiriqnarrowhebrew
N hdotbelow	N hiriqqarterhebrew
N he	N hiriqwidehebrew
N heart	N hlinebelow

N hmonospace	N ibreve
N hoarmenian	N icaron
N hohipthai	N icircle
N hohiragana	N icircumflex
N hokatakana	N icyrillic
N hokatakanahalfwidth	N idblgrave
N holam	N ideographearthcircle
N holam19	N ideographfirecircle
N holam26	N ideographicallianceparen
N holam32	N ideographicallparen
N holamhebrew	N ideographiccentrecircle
N holamnarrowhebrew	N ideographicclose
N holamquarterhebrew	N ideographiccomma
N holamwidehebrew	N ideographiccommaleft
N honokhukthai	N ideographiccongratulationparen
N hookabovecomb	N ideographiccorrectcircle
N hookcmb	N ideographicearthparen
N hookpalatalizedbelowcmb	N ideographicenterpriseparen
N hookretroflexbelowcmb	N ideographicexcellencircle
N hoonsquare	N ideographicfestivalparen
N horicoptic	N ideographicfinancialcircle
N horizontalbar	N ideographicfinancialparen
N horncmb	N ideographicfireparen
N hotsprings	N ideographichaveparen
N house	N ideographichighcircle
N hparen	N ideographiciterationmark
N hsuperior	N ideographiclaborcircle
N hturned	N ideographiclaborparen
N huhiragana	N ideographicleftcircle
N huiitosquare	N ideographiclowcircle
N hukatakana	N ideographicmedicinecircle
N hukatakanahalfwidth	N ideographicmetalparen
N hungarumlaut	N ideographicmoonparen
N hungarumlautcmb	N ideographicnameparen
N hv	N ideographicperiod
N hyphen	N ideographicprintcircle
N hyphenmonospace	N ideographicreachparen
N hyphensmall	N ideographicrepresentparen
N hyphentwo	N ideographicresourceparen
N i	N ideographicrightcircle
N iacute	N ideographicsecretcircle
N iacyrillic	N ideographicselfparen
N ibengali	N ideographicsocietyparen
N ibopomofo	N ideographicspace

N ideographicspecialparen	N ikatakanahalfwidth
N ideographicstockparen	N ikorean
N ideographicstudyparen	N ilde
N ideographicsunparen	N iluyhebrew
N ideographicsuperviseparen	N imacron
N ideographicwaterparen	N imacroncyrillic
N ideographicwoodparen	N imageorapproximatelyequal
N ideographiczero	N imatragurmukhi
N ideographmetalcircle	N imonospace
N ideographmooncircle	N increment
N ideographnamecircle	N infinity
N ideographsuncircle	N iniarmenian
N ideographwatercircle	N integral
N ideographwoodcircle	N integralbottom
N ideva	N integraltb
N idieresis	N integraltop
N idieresisacute	N integraltp
N idieresiscyrillic	N intersection
N idotbelow	N intisquare
N iebrevacyrillic	N invbullet
N iecyrillic	N invcircle
N ieungacirclekorean	N invsmileface
N ieungaparenkorean	N iocyrillic
N ieungcirclekorean	N iogonek
N ieungkorean	N iota
N ieungparenkorean	N iotadieresis
N igrave	N iotadieresis-tonos
N igujarati	N iotalatin
N igurmukhi	N iotatonos
N ihiragana	N iparen
N ihookabove	N irigurmukhi
N iibengali	N ismallhiragana
N iicyrillic	N ismallkatakana
N iideva	N ismallkatakanahalfwidth
N iigujarati	N isscharbengali
N iigurmukhi	N istroke
N iimatragurmukhi	N iterationhiragana
N iinvertedbreve	N iterationkatakana
N iishortcyrillic	N itilde
N iivowelsgnbengali	N itildebelow
N iivowelsgndeva	N iubopomofo
N iivowelsgngujarati	N iucyrillic
N ij	N ivowelsgnbengali
N ikatakana	N ivowelsgndeva

N ivowelsigngujarati	N kafinitialarabic
N izhitsacyrillic	N kafmedialarabic
N izhitsadblgravecyrillic	N kafrafehebrew
N j	N kagujarati
N jaarmenian	N kagurmukhi
N jabengali	N kahiragana
N jadeva	N kahookcyrillic
N jagujarati	N kakatakana
N jagurmukhi	N kakatakanahalfwidth
N jbopomofo	N kappa
N jcaron	N kappasymbolgreek
N jcircle	N kapyeounmieumkorean
N jcircumflex	N kapyeounphieupkorean
N jcrossettail	N kapyeounpieupkorean
N jdotlessstroke	N kapyeounssangpieupkorean
N jecyrillic	N karoriisquare
N jeemarabic	N kashidaautoarabic
N jeemfinalarabic	N kashidaautonosidebearingarabic
N jeeminitialarabic	N kasmallkatakana
N jeemmedialarabic	N kasquare
N jeharabic	N kasraarabic
N jehfinalarabic	N kasratanarabic
N jhabengali	N kastrokecyrillic
N jhadeva	N katahiraprolongmarkhalfwidth
N jhagujarati	N kavertikalstrokecyrillic
N jhagurmukhi	N kbopomofo
N jheharmenian	N kcalsquare
N jis	N kcaron
N jmonospace	N kcedilla
N jparen	N kcircle
N jsuperior	N kcommaaccent
N k	N kdotbelow
N kabashkircyrillic	N keharmenian
N kabengali	N kehiragana
N kacute	N kekatakana
N kacyrillic	N kekatakanahalfwidth
N kdescendercyrillic	N kenarmenian
N kadeva	N kesmallkatakana
N kaf	N kgreenlandic
N kafarabic	N khabengali
N kafdagesh	N khacyrillic
N kafdageshhebrew	N khadeva
N kaffinalarabic	N khagujarati
N kafhebrew	N khagurmukhi

N khaharabic	N koppacyrillic
N khahfinalarabic	N koreanstandardsymbol
N khahinitialarabic	N koroniscmb
N khahmedialarabic	N kparen
N kheicoptic	N kpsquare
N khhadeva	N ksicyrillic
N khhagurmukhi	N ktsquare
N khieukhacirclekorean	N kturned
N khieukhaparenkorean	N kuhiragana
N khieukhcirclekorean	N kukatakana
N khieukhkorean	N kukatakanahalfwidth
N khieukhparenkorean	N kvsquare
N khokhaithai	N kwsquare
N khokhonthai	N l
N khokhuatthai	N labengali
N khokhwaithai	N lacute
N khomutthai	N ladeva
N khook	N lagujarati
N khorakhangthai	N lagurmukhi
N khzsquare	N lakkhangyaotthai
N kihiragana	N lamaleffinalarabic
N kikatakana	N lamaleffhamzaabovefinalarabic
N kikatakanahalfwidth	N lamaleffhamzaaboveisolatedarabic
N kioguramusquare	N lamaleffhamzabelowfinalarabic
N kiomeetorusquare	N lamaleffhamzabelowisolatedarabic
N kirosquare	N lamalefisolatedarabic
N kiyeokacirclekorean	N lamalefmaddaabovefinalarabic
N kiyeokaparenkorean	N lamalefmaddaaboveisolatedarabic
N kiyeokcirclekorean	N lamarabic
N kiyeokkorean	N lambda
N kiyeokparenkorean	N lambdastroke
N kiyeoksioskorean	N lamed
N kjecyrillic	N lameddagesh
N klinebelow	N lameddageshhebrew
N klsquare	N lamedhebrew
N kmcubedsquare	N lamedholam
N kmonospace	N lamedholamdagesh
N kmsquaredsquare	N lamedholamdageshhebrew
N kohiragana	N lamedholamhebrew
N kohmsquare	N lamfinalarabic
N kokaitthai	N lamhahinitialarabic
N kokatakana	N laminitialarabic
N kokatakanahalfwidth	N lamjeeminitialarabic
N kooposquare	N lamkhahinitialarabic

N lamlamhehisolatedarabic	N lmiddletilde
N lammedialarabic	N lmonospace
N lammeemhahinitialarabic	N lmsquare
N lammeeminitialarabic	N lochulathai
N lammeemjeeminitialarabic	N logicaland
N lammeemkhahinitialarabic	N logicalnot
N largecircle	N logicalnotreversed
N lbar	N logicalor
N lbelt	N lolingthai
N lbopomofo	N longs
N lcaron	N lowlinecenterline
N lcedilla	N lowlinecmb
N lcircle	N lowlinedashed
N lcircumflexbelow	N lozenge
N lcommaaccent	N lparen
N ldot	N lslash
N ldotaccent	N lsquare
N ldotbelow	N ltshade
N ldotbelowmacron	N luthai
N leftangleabovecmb	N lvocalicbengali
N lefttackbelowcmb	N lvocalicdeva
N less	N lvocalicvowelsignbengali
N lessequal	N lvocalicvowelsigndeva
N lessequalorgreater	N lxsquare
N lessmonospace	N m
N lessorequivalent	N mabengali
N lessorgreater	N macron
N lessoverequal	N macronbelowcmb
N lesssmall	N macroncmb
N lezh	N macronlowmod
N lfblock	N macronmonospace
N lhookretroflex	N macute
N lira	N madeva
N liwnarmenian	N magujarati
N lj	N magurmukhi
N ljecyrillic	N mahapakhhebrew
N lladeva	N mahapakhlefthebrew
N llagujarati	N mahiragana
N llinebelow	N maichattawathai
N llladeva	N maiekthai
N llvocalicbengali	N maihanakatthai
N llvocalicdeva	N maitaikhuthai
N llvocalicvowelsignbengali	N maithothai
N llvocalicvowelsigndeva	N maitrithai

N maiyamokthai	N mieumparenkorean
N makatakana	N mieumpieupkorean
N makatakanahalfwidth	N mieumsioskorean
N male	N mhiragana
N mansyonsquare	N mikatakana
N maqafhebrew	N mikatakanahalfwidth
N mars	N minus
N masoracirclehebrew	N minusbelowcmb
N masquare	N minuscircle
N mbopomofo	N minusmod
N mbsquare	N minusplus
N mcircle	N minute
N mcubedsquare	N miribaarusquare
N mdotaccent	N mirisquare
N mdotbelow	N mlonglegturned
N meemarabic	N mlsquare
N meemfinalarabic	N mmcubedsquare
N meeminitialarabic	N mmonospace
N meemmedialarabic	N mmsquaredsquare
N meemmeeminitialarabic	N mhiragana
N meemmeemisolatedarabic	N mohmsquare
N meetorusquare	N mokatakana
N mehiragana	N mokatakanahalfwidth
N meizierasquare	N molsquare
N mekatakana	N momathai
N mekatakanahalfwidth	N moverssquare
N mem	N moverssquaredsquare
N memdagesh	N mparen
N memdageshhebrew	N mpasquare
N memhebrew	N mssquare
N menarmenian	N mturned
N merkhahhebrew	N mu
N merkhakefulahebrew	N mul
N merkhakefulalefthebrew	N muasquare
N merkhalefthebrew	N muchgreater
N mhook	N muchless
N mhzsquare	N mufsquare
N middledotkatakanahalfwidth	N mugreek
N middot	N mugsquare
N mieumacirclekorean	N muhiragana
N mieumaparenkorean	N mukatakana
N mieumcirclekorean	N mukatakanahalfwidth
N mieumkorean	N mulsquare
N mieumpansioskorean	N multiply



N mumsquare	N ngonguthai
N munahhebrew	N nhiragana
N munahlefthebrew	N nhookleft
N musicalnote	N nhookretroflex
N musicalnotedbl	N nieunacirclekorean
N musicflatsign	N nieunaparenkorean
N musicsharpsign	N nieuncieuckorean
N mussquare	N nieuncirclekorean
N muvsquare	N nieunhieuhkorean
N muwsquare	N nieunkorean
N mvmegasquare	N nieunpansioskorean
N mvsquare	N nieunparenkorean
N mwmegasquare	N nieunsioskorean
N mwsquare	N nieuntikeutkorean
N n	N nihiragana
N nabengali	N nikatakana
N nabla	N nikatakanahalfwidth
N nacute	N nikhahitthai
N nadeva	N nine
N nagujarati	N ninearabic
N nagurmukhi	N ninebengali
N nahiragana	N ninecircle
N nakatakana	N ninecircleinversesansserif
N nakatakanahalfwidth	N ninedeva
N napostrophe	N ninegujarati
N nasquare	N ninegurmukhi
N nbopomofo	N ninehackarabic
N nbspace	N ninehangzhou
N ncaron	N nineideographicparen
N ncedilla	N nineinferior
N ncircle	N ninemonospace
N ncircumflexbelow	N nineparen
N ncommaaccent	N nineperiod
N ndotaccent	N ninepersian
N ndotbelow	N nineroman
N nehiragana	N ninesuperior
N nekatakana	N nineteencircle
N nekatakanahalfwidth	N nineteenparen
N newsheqelsign	N nineteenperiod
N nfsquare	N ninethai
N ngabengali	N nj
N ngadeva	N njecyrillic
N ngagujarati	N nkatakana
N ngagurmukhi	N nkatakanahalfwidth

N nlegrightlong	N nssquare
N nlinebelow	N nsuperior
N nmonospace	N ntilde
N nmsquare	N nu
N nnabengali	N nuhiragana
N nnadeva	N nukatakana
N nnagujarati	N nukatakanahalfwidth
N nnagurmukhi	N nuktabengali
N nnnadeva	N nuktaadeva
N nohiragana	N nuktagujarati
N nokatakana	N nuktagurmukhi
N nokatakanahalfwidth	N numbersign
N nonbreakingspace	N numbersignmonospace
N nonenthai	N numbersignsmall
N nonuthai	N numeralsigngreek
N noonarabic	N numeralsignlowergreek
N noonfinalarabic	N numero
N noonghunnaarabic	N nun
N noonghunnafinalarabic	N nundagesh
N noonhehinitialarabic	N nundageshhebrew
N nooninitialarabic	N nunhebrew
N noonjeeminitialarabic	N nvsquare
N noonjeemisolatedarabic	N nwsquare
N noonmedialarabic	N nyabengali
N noonmeeminitialarabic	N nyadeva
N noonmeemisolatedarabic	N nyagujarati
N noonnoonfinalarabic	N nyagurmukhi
N notcontains	N o
N notelement	N oacute
N notelementof	N oangthai
N notequal	N obarred
N notgreater	N obarredcyrillic
N notgreaternorequal	N obarreddieresiscyrillic
N notgreaternorless	N obengali
N notidentical	N obopomofo
N notless	N obreve
N notlessnorequal	N ocandradeva
N notparallel	N ocandragujarati
N notprecedes	N ocandravowelsigndeva
N notsubset	N ocandravowelsigngujarati
N notsucceeds	N ocaron
N notsuperset	N ocircle
N nowarmenian	N ocircumflex
N nparen	N ocircumflexacute

N ocircumflexdotbelow  
N ocircumflexgrave  
N ocircumflexhookabove  
N ocircumflextilde  
N ocyrillic  
N odblacute  
N odblgrave  
N odeva  
N odieresis  
N odieresis Cyrillic  
N odotbelow  
N oe  
N oekorean  
N ogonek  
N ogonekcmb  
N ograve  
N ogujarati  
N oharmenian  
N ohiragana  
N ohookabove  
N ohorn  
N ohornacute  
N ohorndotbelow  
N ohorngrave  
N ohornhookabove  
N ohorntilde  
N ohungarumlaut  
N oi  
N oinvertedbreve  
N okatakana  
N okatakanahalfwidth  
N okorean  
N olehebrew  
N omacron  
N omacronacute  
N omacrongrave  
N omdeva  
N omega  
N omegal  
N omegacyrillic  
N omegalatinclosed  
N omegaroundcyrillic  
N omegatitlocyrillic  
N omegatonos

N omgujarati  
N omicron  
N omicrontonos  
N omonospace  
N one  
N onearabic  
N onebengali  
N onecircle  
N onecircleinversesansserif  
N onedeva  
N onedotenleader  
N oneeighth  
N onegujarati  
N onegurmukhi  
N onehackarabic  
N onehalf  
N onehangzhou  
N oneideographicparen  
N oneinferior  
N onemonospace  
N onenumeratorbengali  
N oneparen  
N oneperiod  
N onepersian  
N onequarter  
N oneroman  
N onesuperior  
N onethai  
N onethird  
N oogonek  
N oogonekmacron  
N oogurmukhi  
N oomatragurmukhi  
N oopen  
N oparen  
N openbullet  
N option  
N ordfeminine  
N ordmasculine  
N orthogonal  
N oshortdeva  
N oshortvowelsigndeva  
N oslash  
N oslashacute

N osmallhiragana	N parenright
N osmallkatakana	N parenrightalttonearabic
N osmallkatakanahalfwidth	N parenrightinferior
N ostrokeacute	N parenrightmonospace
N otcyrillic	N parenrightsmall
N otilde	N parenrightsuperior
N otildeacute	N parenrightvertical
N otildedieresis	N partialdiff
N oubopomofo	N paseqhebrew
N overline	N pashtahebrew
N overlinecenterline	N pasquare
N overlinecmb	N patah
N overlinedashed	N patah11
N overlinedblwavy	N patah1d
N overlinewavy	N patah2a
N overscore	N patahhebrew
N ovowelsignbengali	N patahnarrowhebrew
N ovowelsigndeva	N patahquarterhebrew
N ovowelsigngujarati	N patahwidehebrew
N p	N pazerhebrew
N paampssquare	N pbopomofo
N paasentosquare	N pcircle
N pabengali	N pdotaccent
N pacute	N pe
N padeva	N pecyrillic
N pagedown	N pedagesh
N pageup	N pedageshhebrew
N pagujarati	N peezisquare
N pagurmukhi	N pefinaldageshhebrew
N pahiragana	N peharabic
N paiyannoithai	N peharmenian
N pakatakana	N pehebrew
N palatalizationcyrilliccmb	N pehfinalarabic
N palochkacyrillic	N pehinitialarabic
N pansioskorean	N pehiragana
N paragraph	N pehmedialarabic
N parallel	N pekatakana
N parenleft	N pemiddlehookcyrillic
N parenleftalttonearabic	N perafehebrew
N parenleftinferior	N percent
N parenleftmonospace	N percentarabic
N parenleftsmall	N percentmonospace
N parenleftsuperior	N percentsmall
N parenleftvertical	N period

N periodarmenian	N piwrarmenian
N periodcentered	N plus
N periodhalfwidth	N plusbelowcmb
N periodmonospace	N pluscircle
N periodsmall	N plusminus
N perispomenigreekcmb	N plusmod
N perpendicular	N plusmonospace
N perthousand	N plussmall
N peseta	N plussuperior
N pfsquare	N pmonospace
N phabengali	N pmsquare
N phadeva	N pohiragana
N phagujarati	N pointingindexdownwhite
N phagurmukhi	N pointingindexleftwhite
N phi	N pointingindexrightwhite
N phil	N pointingindexupwhite
N phieuphacirclekorean	N pokatakana
N phieuphaparenkorean	N poplathai
N phieuphcirclekorean	N postalmark
N phieuphkorean	N postalmarkface
N phieuphparenkorean	N pparen
N philatin	N precedes
N phinthuthai	N prescription
N phisymbolgreek	N primemod
N phook	N primereversed
N phophanthai	N product
N phophungthai	N projective
N phosamphaothai	N prolongedkana
N pi	N propellor
N pieupacirclekorean	N propersubset
N pieupaparenkorean	N propersuperset
N pieupcieuckorean	N proportion
N pieupcirclekorean	N proportional
N pieupkiyeokkorean	N psi
N pieupkorean	N psicyrillic
N pieupparenkorean	N psilipneumatacyrilliccmb
N pieupsioskiyeokkorean	N pssquare
N pieupsioskorean	N puhiragana
N pieupsiostikeutkorean	N pukatakana
N pieupthieuthkorean	N pvsquare
N pieuptikeutkorean	N pwsquare
N pihiragana	N q
N pikatakana	N qadeva
N pisymbolgreek	N qadmahebrew

N qafarabic	N qofsegohebrew
N qaffinalarabic	N qofsheva
N qafinitialarabic	N qofshevahebrew
N qafmedialarabic	N qoftsere
N qamats	N qoftserehebrew
N qamats10	N qparen
N qamats1a	N quarternote
N qamats1c	N qubuts
N qamats27	N qubuts18
N qamats29	N qubuts25
N qamats33	N qubuts31
N qamatsde	N qubutshebrew
N qamatshebrew	N qubutsnarrowhebrew
N qamatsnarrowhebrew	N qubutsquarterhebrew
N qamatsqatanhebrew	N qubutswidehebrew
N qamatsqatannarrowhebrew	N question
N qamatsqatanquarterhebrew	N questionarabic
N qamatsqatanwidehebrew	N questionarmenian
N qamatsquarterhebrew	N questiondown
N qamatswidehebrew	N questiongreek
N qarneyparahebrew	N questionmonospace
N qbopomofo	N quotedbl
N qcircle	N quotedblbase
N qhook	N quotedblleft
N qmonospace	N quotedblmonospace
N qof	N quotedblprime
N qofdagesh	N quotedblprimereversed
N qofdageshhebrew	N quotedblright
N qofhatafpatah	N quoteleft
N qofhatafpatahebrew	N quoteleftreversed
N qofhatafsegol	N quotereversed
N qofhatafsegolhebrew	N quoteright
N qofhebrew	N quoterightn
N qofhiriq	N quotesinglbase
N qofhiriqhebrew	N quotesingle
N qofholam	N quotesinglemonospace
N qofholamhebrew	N r
N qofpatah	N raarmenian
N qofpatahebrew	N rabengali
N qofqamats	N racute
N qofqamatshebrew	N radeva
N qofqubuts	N radical
N qofqubutshebrew	N radoverssquare
N qofsego	N radoverssquaresquare

N radsquare	N reshpatahhebrew
N rafe	N reshqamats
N rafehebrew	N reshqamatshebrew
N ragujarati	N reshqubuts
N ragurmukhi	N reshqubutshebrew
N rahiragana	N reshsegol
N rakatakana	N reshsegolhebrew
N rakatakanahalfwidth	N reshsheva
N ralowerdiagonalbengali	N reshshevahebrew
N ramiddlediagonalbengali	N reshtsere
N ramshorn	N reshtserehebrew
N ratio	N reversedtilde
N rbopomofo	N reviahebrew
N rcaron	N reviamugrashhebrew
N rcedilla	N revlogicalnot
N rcircle	N rfishhook
N rcommaaccent	N rfishhookreversed
N rdblgrave	N rhabengali
N rdotaccent	N rhadeva
N rdotbelow	N rho
N rdotbelowmacron	N rhoon
N referencemark	N rhoonturned
N reflexsubset	N rhoonturnedsuperior
N reflexsuperset	N rhotichookgreek
N registered	N rhotichookmod
N reharabic	N rieulacirclekorean
N reharmonian	N rieulaparenkorean
N rehfinalarabic	N rieulcirclekorean
N rehiragana	N rieulhieuhkorean
N rehyehaleflamarabic	N rieulkiyeokkorean
N rekatakana	N rieulkiyeoksioskorean
N rekatakanahalfwidth	N rieulkorean
N resh	N rieulmieumkorean
N reshdageshhebrew	N rieulpansioskorean
N reshhatafpatah	N rieulparenkorean
N reshhatafpatahhebrew	N rieulphieuphkorean
N reshhatafsegol	N rieulpieupkorean
N reshhatafsegolhebrew	N rieulpieupsioskorean
N reshhebrew	N rieulsioskorean
N reshhiriq	N rieulthieuthkorean
N reshhiriqhebrew	N rieultikeutkorean
N reshholam	N rieulyeorinhieuhkorean
N reshholamhebrew	N rightangle
N reshpatah	N righttackbelowcmb

N righthtriangle	N ruthai
N rihiragana	N rvocalicbengali
N rikatakana	N rvocalicdeva
N rikatakanahalfwidth	N rvocalicgujarati
N ring	N rvocalicvowelsignbengali
N ringbelowcmb	N rvocalicvowelsigndeva
N ringcmb	N rvocalicvowelsigngujarati
N ringhalfleft	N s
N ringhalfleftarmenian	N sabengali
N ringhalfleftbelowcmb	N sacute
N ringhalfleftcentered	N sacutedotaccent
N ringhalfright	N sadarabic
N ringhalfrightbelowcmb	N sadeva
N ringhalfrightcentered	N sadfinalarabic
N rinvertedbreve	N sadinitialarabic
N rittorusquare	N sadmedialarabic
N rlinebelow	N sagujarati
N rlongleg	N sagurmukhi
N rlonglegturned	N sahiragana
N rmonospace	N sakatakana
N rohiragana	N sakatakanahalfwidth
N rokatakana	N sallallahoualayhewasallamarabic
N rokatakanahalfwidth	N samekh
N roruathai	N samekhdagesh
N rparen	N samekhdageshhebrew
N rrabengali	N samekhhebrew
N rradeva	N saraaathai
N rragurmukhi	N saraaethai
N rreharabic	N saraaimaimalaithai
N rrehfinalarabic	N saraaimaimuanthai
N rr vocalicbengali	N saraamthai
N rr vocalicdeva	N saraathai
N rr vocalicgujarati	N saraethai
N rr vocalicvowelsignbengali	N saraiithai
N rr vocalicvowelsigndeva	N sarraithai
N rr vocalicvowelsigngujarati	N saraothai
N rtblock	N sarauethai
N rturned	N sarauethai
N rturnedsuperior	N sarauthai
N ruhiragana	N sarauuthai
N rukatakana	N sbopomofo
N rukatakanahalfwidth	N scaron
N rupeemarkbengali	N scarondotaccent
N rupeesignbengali	N scedilla



N schwa  
 N schwacyrillic  
 N schwadiesiscyrillic  
 N schwahook  
 N scircle  
 N scircumflex  
 N scommaaccent  
 N sdotaccent  
 N sdotbelow  
 N sdotbelowdotaccent  
 N seagullbelowcmb  
 N second  
 N secondtonechinese  
 N section  
 N seenarabic  
 N seenfinalarabic  
 N seeninitialarabic  
 N seenmedialarabic  
 N segol  
 N segoll3  
 N segollf  
 N segol2c  
 N segolhebrew  
 N segolnarrowhebrew  
 N segolquarterhebrew  
 N segoltahebrew  
 N segolwidehebrew  
 N seharmanian  
 N sehiragana  
 N sekatakana  
 N sekatakanahalfwidth  
 N semicolon  
 N semicolonarabic  
 N semicolonmonospace  
 N semicolonsmall  
 N semivoicedmarkkana  
 N semivoicedmarkkanahalfwidth  
 N sentisquare  
 N sentosquare  
 N seven  
 N sevenarabic  
 N sevenbengali  
 N sevencircle  
 N sevencircleinversesansserif

N sevendeva  
 N seveneighths  
 N sevengujarati  
 N sevengurmukhi  
 N sevenhackarabic  
 N sevenhangzhou  
 N sevenideographicparen  
 N seveninferior  
 N sevenmonospace  
 N sevenparen  
 N sevenperiod  
 N sevenpersian  
 N sevenroman  
 N sevensuperior  
 N seventeencircle  
 N seventeenparen  
 N seventeenperiod  
 N seventhai  
 N sfthyphen  
 N shaarmenian  
 N shabengali  
 N shacyrillic  
 N shaddaarabic  
 N shaddadammaarabic  
 N shaddadammatanarabic  
 N shaddafathaarabic  
 N shaddafathatanarabic  
 N shaddakasraarabic  
 N shaddakasratanarabic  
 N shade  
 N shadedark  
 N shadelight  
 N shademedium  
 N shadeva  
 N shagujarati  
 N shagurmukhi  
 N shalshethebrew  
 N shbopomofo  
 N shchacyrillic  
 N sheenarabic  
 N sheenfinalarabic  
 N sheeninitialarabic  
 N sheenmedialarabic  
 N sheicoptic

N sheqel	N siosnieunkorean
N sheqelhebrew	N siosparenkorean
N sheva	N siospieupkorean
N sheva115	N siostikeutkorean
N sheva15	N six
N sheva22	N sixarabic
N sheva2e	N sixbengali
N shevahebrew	N sixcircle
N shevanarrowhebrew	N sixcircleinversesansserif
N shevaquarterhebrew	N sixdeva
N shevawidehebrew	N sixgujarati
N shhacyrillic	N sixgurmukhi
N shimacoptic	N sixhackarabic
N shin	N sixhangzhou
N shindagesh	N sixideographicparen
N shindageshhebrew	N sixinferior
N shindageshshindot	N sixmonospace
N shindageshshindothebrew	N sixparen
N shindageshsindot	N sixperiod
N shindageshsindothebrew	N sixpersian
N shindothebrew	N sixroman
N shinhebrew	N sixsuperior
N shinshindot	N sixteencircle
N shinshindothebrew	N sixteencurrencydenominatorbengali
N shinsindot	N sixteenparen
N shinsindothebrew	N sixteenperiod
N shook	N sixthai
N sigma	N slash
N sigma1	N slashmonospace
N sigmafinal	N slong
N sigmaunatesymbolgreek	N slongdotaccent
N sihiragana	N smileface
N sikatakana	N smonospace
N sikatakanahalfwidth	N sofasuqhebrew
N siluqhebrew	N softthyphen
N siluqlefthebrew	N softsigncyrillic
N similar	N sohiragana
N sindothebrew	N sokatakana
N siosacirclekorean	N sokatakanahalfwidth
N siosaparenkorean	N soliduslongoverlaycmb
N sioscieuckorean	N solidusshortoverlaycmb
N sioscirclekorean	N sorusithai
N sioskiyeokkorean	N sosalathai
N sioskorean	N sosothai

N sosuathai	N subsetorequal
N space	N succeeds
N spacehackarabic	N suchthat
N spade	N suhiragana
N spadesuitblack	N sukatakana
N spadesuitwhite	N sukatakanahalfwidth
N sparen	N sukunarabic
N squarebelowcmb	N summation
N squarecc	N sun
N squarecm	N superset
N squarediagonalcrosshatchfill	N supersetnotequal
N squarehorizontalfill	N subsetorequal
N squarekg	N svsquare
N squarekm	N syouwaerasquare
N squarekmcapital	N t
N squareln	N tabengali
N squarelog	N tackdown
N squaremg	N tackleft
N squaremil	N tadeva
N squaremm	N tagujarati
N squaremsquared	N tagurmukhi
N squareorthogonalcrosshatchfill	N taharabic
N squareupperlefttolowerrightfill	N tahfinalarabic
N squareupperighttolowerleftfill	N tahinitialarabic
N squareverticalfill	N tahiragana
N squarewhitewithsmallblack	N tahmedialarabic
N srsquare	N taisyouerasquare
N ssabengali	N takatakana
N ssadeva	N takatakanahalfwidth
N ssagujarati	N tatweelarabic
N ssangcieuckorean	N tau
N ssanghieuhkorean	N tav
N ssangieungkorean	N tavgages
N ssangkiyeokkorean	N tavgagesh
N ssangnieunkorean	N tavgageshhebrew
N ssangpieupkorean	N tavhebrew
N ssangsioskorean	N tbar
N ssangtikeutkorean	N tbopomofo
N sterling	N tcaron
N sterlingmonospace	N tccurl
N strokelongoverlaycmb	N tcedilla
N strokeshortoverlaycmb	N tccharabic
N subset	N tcchfinalarabic
N subsetnotequal	N tcchinitialarabic

N tch medial arabic  
 N tcheh me initial arabic  
 N t circle  
 N t circumflex below  
 N t comma accent  
 N t dieresis  
 N t dot accent  
 N t dot below  
 N t e cyrillic  
 N t e descender cyrillic  
 N t e arabic  
 N t e final arabic  
 N t e h a h initial arabic  
 N t e h a h isolated arabic  
 N t e initial arabic  
 N t e hiragana  
 N t e h e e initial arabic  
 N t e h e e isolated arabic  
 N t e h m a r b u t a arabic  
 N t e h m a r b u t a final arabic  
 N t e h medial arabic  
 N t e h m e e initial arabic  
 N t e h m e e isolated arabic  
 N t e h n o o n final arabic  
 N t e k a t a k a n a  
 N t e k a t a k a n a half width  
 N t e l e p h o n e  
 N t e l e p h o n e black  
 N t e l i s h a g e d o l a h e b r e w  
 N t e l i s h a q e t a n a h e b r e w  
 N t e n c i r c l e  
 N t e n i d e o g r a p h i c p a r e n  
 N t e n p a r e n  
 N t e n p e r i o d  
 N t e n r o m a n  
 N t e s h  
 N t e t  
 N t e t d a g e s h  
 N t e t d a g e s h h e b r e w  
 N t e t h e b r e w  
 N t e t s e c y r i l l i c  
 N t e v i r h e b r e w  
 N t e v i r l e f t h e b r e w  
 N t h a b e n g a l i

N t h a d e v a  
 N t h a g u j a r a t i  
 N t h a g u r m u k h i  
 N t h a l a r a b i c  
 N t h a l f i n a l a r a b i c  
 N t h a n t h a k h a t t h a i  
 N t h e h a r a b i c  
 N t h e h f i n a l a r a b i c  
 N t h e h i n i t i a l a r a b i c  
 N t h e h m e d i a l a r a b i c  
 N t h e r e e x i s t s  
 N t h e r e f o r e  
 N t h e t a  
 N t h e t a l  
 N t h e t a s y m b o l g r e e k  
 N t h i e u t h a c i r c l e k o r e a n  
 N t h i e u t h a p a r e n k o r e a n  
 N t h i e u t h c i r c l e k o r e a n  
 N t h i e u t h k o r e a n  
 N t h i e u t h p a r e n k o r e a n  
 N t h i r t e e n c i r c l e  
 N t h i r t e e n p a r e n  
 N t h i r t e e n p e r i o d  
 N t h o n a n g m o n t h o t h a i  
 N t h o o k  
 N t h o p h u t h a o t h a i  
 N t h o r n  
 N t h o t h a n t h a i  
 N t h o t h a n t h a i  
 N t h o t h o n g t h a i  
 N t h o t h u n g t h a i  
 N t h o u s a n d c y r i l l i c  
 N t h o u s a n d s s e p a r a t o r a r a b i c  
 N t h o u s a n d s s e p a r a t o r p e r s i a n  
 N t h r e e  
 N t h r e e a r a b i c  
 N t h r e e b e n g a l i  
 N t h r e e c i r c l e  
 N t h r e e c i r c l e i n v e r s e s a n s s e r i f  
 N t h r e e d e v a  
 N t h r e e e i g h t h s  
 N t h r e e g u j a r a t i  
 N t h r e e g u r m u k h i  
 N t h r e e h a c k a r a b i c

N threehangzhou	N tonebarlowmod
N threeideographicparen	N tonebarmidmod
N threeinferior	N tonefive
N threemonospace	N tonesix
N threenumeratorbengali	N tonetwo
N threeparen	N tonos
N threepperiod	N tonsquare
N threepersian	N topatakthai
N threequarters	N tortoiseshellbracketleft
N threeroman	N tortoiseshellbracketleftsmall
N threesuperior	N tortoiseshellbracketleftvertical
N threethai	N tortoiseshellbracketright
N thzsquare	N tortoiseshellbracketrightsmall
N tihiragana	N tortoiseshellbracketrightvertical
N tikatakana	N totaotthai
N tikatakanahalfwidth	N tpalatalhook
N tikeutacirclekorean	N tparen
N tikeutaparenkorean	N trademark
N tikeutcirclekorean	N retroflexhook
N tikeutkorean	N triagdn
N tikeutparenkorean	N triaglf
N tilde	N triagrt
N tildebelowcmb	N triagup
N tildecmb	N ts
N tildecomb	N tsadi
N tildedoublecmb	N tsadidagesh
N tildeoperator	N tsadidageshhebrew
N tildeoverlaycmb	N tsadihebrew
N tildeverticalcmb	N tsecyrillic
N timescircle	N tsere
N tipehahebrew	N tsere12
N tipehalefthebrew	N tsere1e
N tippigurmukhi	N tsere2b
N titlocyrilliccmb	N tserehebrew
N tiwnarmenian	N tserenarrowhebrew
N tlinebelow	N tserequarterhebrew
N tmonospace	N tserewidehebrew
N toarmenian	N tshecyrillic
N tohiragana	N ttabengali
N tokatakana	N ttadeva
N tokatakanahalfwidth	N ttagujarati
N tonebarextrahighmod	N ttagurmukhi
N tonebarextralowmod	N tteharabic
N tonebarhighmod	N ttehfinalearabic

N tteinitialarabic	N twothirds
N ttehmedialarabic	N u
N tthabengali	N uacute
N tthadeva	N ubar
N tthagujarati	N ubengali
N tthagurmukhi	N ubopomofo
N tturned	N ubreve
N tuhiragana	N ucaron
N tukatakana	N ucircle
N tukatakanahalfwidth	N ucircumflex
N tusmallhiragana	N ucircumflexbelow
N tusmallkatakana	N ucyrillic
N tusmallkatakanahalfwidth	N udattadeva
N twelvecircle	N udblacute
N twelveparen	N udblgrave
N twelveperiod	N udeva
N twelveroman	N udieresis
N twentycircle	N udieresisacute
N twentyparen	N udieresisbelow
N twentyperiod	N udieresiscaron
N two	N udieresiscyrillic
N twoarabic	N udieresisgrave
N twobengali	N udieresismacron
N twocircle	N udotbelow
N twocircleinversesansserif	N ugrave
N twodeva	N ugujarati
N twodotenleader	N ugurmukhi
N twodotleader	N uhiragana
N twodotleadervertical	N uhookabove
N twogujarati	N uhorn
N twogurmukhi	N uhornacute
N twohackarabic	N uhorndotbelow
N twohangzhou	N uhorngrave
N twoideographicparen	N uhornhookabove
N twoinferior	N uhorntilde
N twomonospace	N uhungarumlaut
N twonumeratorbengali	N uhungarumlautcyrillic
N twoparen	N uinvertedbreve
N twoperiod	N ukatakana
N twopersian	N ukatakanahalfwidth
N tworoman	N ukcyrillic
N twostroke	N ukorean
N twosuperior	N umacron
N twothai	N umacroncyrillic

N umacrondieresis  
 N umatragurmukhi  
 N umonospace  
 N underscore  
 N underscoredbl  
 N underscoremonospace  
 N underscorevertical  
 N underscorewavy  
 N union  
 N universal  
 N uogonek  
 N uparen  
 N upblock  
 N upperdothebrew  
 N upsilon  
 N upsilondieresis  
 N upsilondieresis-tonos  
 N upsilonlatin  
 N upsilon-tonos  
 N uptackbelowcmb  
 N uptackmod  
 N uragurmukhi  
 N uring  
 N ushortcyrillic  
 N usmallhiragana  
 N usmallkatakana  
 N usmallkatakana-halfwidth  
 N ustraighcyrillic  
 N ustraightstrokecyrillic  
 N utilde  
 N tildeacute  
 N tildebelow  
 N ubengali  
 N udeva  
 N uugujarati  
 N uugurmukhi  
 N uumatragurmukhi  
 N uvowelsignbengali  
 N uvowelsigndeva  
 N uvowelsigngujarati  
 N uvowelsignbengali  
 N uvowelsigndeva  
 N uvowelsigngujarati  
 N v

N vadeva  
 N vagujarati  
 N vagurmukhi  
 N vakatakana  
 N vav  
 N vavdagesh  
 N vavdagesh65  
 N vavdageshhebrew  
 N vavhebrew  
 N vavholam  
 N vavholamhebrew  
 N vavvavhebrew  
 N vavyodhebrew  
 N vcircle  
 N vdotbelow  
 N vecyrillic  
 N veharabic  
 N vehfinalarabic  
 N vehinitialarabic  
 N vehmedialarabic  
 N vekatakana  
 N venus  
 N verticalbar  
 N verticallineabovcmb  
 N verticallinebelowcmb  
 N verticallinelowmod  
 N verticallinemod  
 N vewarmenian  
 N vhook  
 N vikatakana  
 N viramabengali  
 N viramadeva  
 N viramagujarati  
 N visargabengali  
 N visargadeva  
 N visargagujarati  
 N vmonospace  
 N voarmenian  
 N voicediterationhiragana  
 N voicediterationkatakana  
 N voicedmarkkana  
 N voicedmarkkana-halfwidth  
 N vokatakana  
 N vparen

N vtilde	N whiteleftpointingtriangle
N vturned	N whitelenticularbracketleft
N vuhiragana	N whitelenticularbracketright
N vukatakana	N whiterightpointingsmalltriangle
N w	N whiterightpointingtriangle
N wacute	N whitesmallsquare
N waekorean	N whitesmilingface
N wahiragana	N whitesquare
N wakatakana	N whitestar
N wakatakanahalfwidth	N whitetelephone
N wakorean	N whitetortoiseshellbracketleft
N wasmallhiragana	N whitetortoiseshellbracketright
N wasmallkatakana	N whiteuppointingsmalltriangle
N wattosquare	N whiteuppointingtriangle
N wavedash	N wihiragana
N wavyunderscorevertical	N wikatakana
N wawarabic	N wikorean
N wawfinalarabic	N wmonospace
N wawhamzaabovearabic	N wohiragana
N wawhamzaabovefinalarabic	N wokatakana
N wbsquare	N wokatakanahalfwidth
N wcircle	N won
N wcircumflex	N wonmonospace
N wdieresis	N wowaenthai
N wdotaccent	N wparen
N wdotbelow	N wring
N wehiragana	N wsuperior
N weierstrass	N wturned
N wekatakana	N wynn
N wekorean	N x
N weokorean	N xabovecmb
N wgrave	N xbopomofo
N whitebullet	N xcircle
N whitecircle	N xdieresis
N whitecircleinverse	N xdotaccent
N whitecornerbracketleft	N xeharmenian
N whitecornerbracketleftvertical	N xi
N whitecornerbracketright	N xmonospace
N whitecornerbracketrightvertical	N xparen
N whitediamond	N xsuperior
N whitediamondcontainingblacksmalldiamond	N y
N whitedownpointingsmalltriangle	N yaadosquare
N whitedownpointingtriangle	N yabengali
N whiteleftpointingsmalltriangle	N yacute



N yadeva	N yetivhebrew
N yaekorean	N ygrave
N yagujarati	N yhook
N yagurmukhi	N yhookabove
N yahiragana	N yiarmenian
N yakatakana	N yicyrillic
N yakatakanahalfwidth	N yikorean
N yakorean	N yinyang
N yamakkanthai	N yiwnarmenian
N yasmallhiragana	N ymonospace
N yasmallkatakana	N yod
N yasmallkatakanahalfwidth	N yoddagesh
N yatcyrillic	N yoddageshhebrew
N ycircle	N yodhebrew
N ycircumflex	N yodyodhebrew
N ydieresis	N yodyodpatahhebrew
N ydotaccent	N yohiragana
N ydotbelow	N yoikorean
N yeharabic	N yokatakana
N yehbarreearabic	N yokatakanahalfwidth
N yehbarreefinalarabic	N yokorean
N yehfinalarabic	N yosmallhiragana
N yehhamzaabovearabic	N yosmallkatakana
N yehhamzaabovefinalarabic	N yosmallkatakanahalfwidth
N yehhamzaaboveinitialarabic	N yotgreek
N yehhamzaabovemedialarabic	N yoyaekorean
N yehinitialarabic	N yoyakorean
N yehmedialarabic	N yoyakthai
N yehmeeminitialarabic	N yoyingthai
N yehmeemisolatedarabic	N yparen
N yehnoonfinalarabic	N ypogegrammeni
N yehthreedotsbelowarabic	N ypogegrammenigreekcmb
N yekorean	N yr
N yen	N yring
N yenmonospace	N ysuperior
N yeokorean	N ytilde
N yeorinhieuhkorean	N yturned
N yerahbenyomohebrew	N yuhiragana
N yerahbenyomolefthebrew	N yuikorean
N yericyrillic	N yukatakana
N yerudieresiscyrillic	N yukatakanahalfwidth
N yesieungkorean	N yukorean
N yesieungpansioskorean	N yusbigcyrillic
N yesieungsioskorean	N yusbigiotifiedcyrillic

N yuslittlecyrillic  
 N yuslittleiotifiedcyrillic  
 N yusmallhiragana  
 N yusmallkatakana  
 N yusmallkatakanahalfwidth  
 N yuyekorean  
 N yuyeokorean  
 N yyabengali  
 N yyadeva  
 N z  
 N zaarmenian  
 N zacute  
 N zadeva  
 N zagurmukhi  
 N zaharabic  
 N zahfinalarabic  
 N zahinitialarabic  
 N zahiragana  
 N zahmedialarabic  
 N zainarabic  
 N zainfinalarabic  
 N zakatakana  
 N zaqefgadolhebrew  
 N zaqefqatanhebrew  
 N zarqahebrew  
 N zayin  
 N zayindagesh  
 N zayindageshhebrew  
 N zayinhebrew  
 N zbpomofo  
 N zcaron  
 N zcircle  
 N zcircumflex  
 N zcurl  
 N zdot  
 N zdotaccent  
 N zdotbelow  
 N zecyrillic  
 N zedescendercyrillic  
 N zedieresiscyrillic  
 N zehiragana  
 N zekatakana  
 N zero  
 N zeroarabic

N zerobengali  
 N zerodeva  
 N zerogujarati  
 N zerogurmukhi  
 N zerohackarabic  
 N zeroinferior  
 N zeromonospace  
 N zeropersian  
 N zerosuperior  
 N zerothai  
 N zerowidthjoiner  
 N zerowidthnonjoiner  
 N zerowidthspace  
 N zeta  
 N zhbopomofo  
 N zhearmenian  
 N zhebrevecyrillic  
 N zhecyrillic  
 N zhedescendercyrillic  
 N zhedieresiscyrillic  
 N zihiragana  
 N zikatakana  
 N zinorhebrew  
 N zlinebelow  
 N zmonospace  
 N zohiragana  
 N zokatakana  
 N zparen  
 N zretroflexhook  
 N zstroke  
 N zuhiragana  
 N zukatakana

N version

<b>enhanceid</b>	function
<b>expansions</b>	data table
<b>formats</b>	data table
<b>getalternate</b>	function
<b>getdiscexpansion</b>	function
<b>getkern</b>	function
<b>getmultiple</b>	function
<b>getsubstitution</b>	function
<b>getters</b>	table

T alternate

F opentype

- T kern
- F opentype
  - F type1
- T multiple
- F opentype
- T substitution
- F opentype
- goodies**                    table
- D colorschemes
  - T data
  - T dejavu-math
    - S author
      - S comment
      - S copyright
    - B initialized
    - T mathematics
    - T alternates
      - T dotless
        - S comment
          - S feature
        - N value
      - T kerns
      - S name
      - S version
    - D designsizes
    - D filenames
    - F getcompositions
    - T list
    - F load
    - F prepare\_features
    - F register
    - F registerpostprocessor
    - F report
    - T suffixes
  - handlers**                    table
  - hashes**                    table
  - D characters
    - D classes
    - D csnames
    - D descriptions
    - D dynamics
    - D emwidths
    - D exheights
    - D extensibles

- D features
- D identifiers
- D italics
- D lastmathids
- D marks
- D modes
- D originals
- D parameters
- T processes
- D properties
- D quads
- D resources
- T setdynamics
- T shapes
- D spaces
- D spacings
- D unicodes
- D variants
- D xheights
- helpers**                    table
- F addextraprivate
  - F addprivate
  - F dimenfactor
  - F expandglyph
  - F fontpatternhassize
  - F getcoloredglyphs
  - F getdigitwidth
  - F getparameters
  - F getprivatecharornode
  - F getprivatenode
  - F getprivates
  - F getprivateslot
  - F hasprivate
  - F indextoslot
  - F name
  - F nametoslot
  - F setdigitwidth
  - F splitfontpattern
  - F tochar
- infofont**                    function
- iterators**                    table
- F characters
  - F descriptions
  - F glyphs

## loggers table

F add\_placeholders  
D category\_to\_placeholder  
F format  
F onetimemessage  
F register  
F reportdefinedfonts  
F reportusedfeatures

## mappings table

F addtounicode  
F fromunicode16  
F loadfile  
F loadline  
F makenameparser  
T overloads  
T IJ  
N mess  
S name  
T unicode  
T f\_f  
N mess  
S name  
T unicode  
T f\_f\_i  
N mess  
S name  
T unicode  
T f\_f\_l  
N mess  
S name  
T unicode  
T f\_i  
N mess  
S name  
T unicode  
T f\_j  
S name  
T unicode  
T f\_k  
S name  
T unicode  
T f\_l  
N mess  
S name

T unicode

T i\_j  
N mess  
S name  
T unicode  
F reset  
F tounicode  
F tounicode16  
F tounicode16sequence

## metapost table

F boundingbox  
F boxtomp  
F draw  
F fill  
F maxbounds  
F output  
F paths  
F widthline  
F zeroline

## mp table

D cache  
B inline  
N version

## names data table

## nulldata data table

## protrusions data table

## readers table

F afm  
F check\_lua  
F check\_tfm  
F lua  
F ofm  
F opentype  
F otf  
F pfb  
D sequence  
F tfm  
F ttc  
F ttf  
F woff

## reserveid function

## select table

D alternatives  
F bodyfont

D data		D contextmerged	
F default		F contextnumber	
D defaults		D contextnumbers	
F definefallbackfamily		D contextsetups	
F definefontfamily		F contexttostring	
F definefontfamilypreset		F definecontext	
D extras		F mergecontext	
F fallback		F presetcontext	
D fallbacks		F registercontext	
F features		F showcontext	
F filefallback		F splitcontext	
F fontdata		D synonyms	
F fontfallback		D variants	
F fontsynonym		<b>symbols</b>	table
F goodies		F uselibrary	
F mathfallback		<b>tables</b>	table
D methods		D data	
D presets		F savefont	
F registerfallback		F saveoriginal	
F registerfiles		<b>tracers</b>	table
F registerfontalternative		<b>treatments</b>	table
F registerfontfamily		F applyfixes	
F textfallback		D data	
F typeface		S filename	
F typescript		F ignoredfile	
F userdata		F report	
<b>setdiscexpansion</b>	function	F trace	
<b>specifiers</b>	table	<b>typefaces</b>	table

# functions (context)

**dummy** function

# graphics (context)

**backgrounds** table

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)

<b>boxes</b>	function
<b>check</b>	function
<b>checksize</b>	function
<b>clone</b>	function
<b>copy</b>	function
<b>immediatewrite</b>	function
<b>keys</b>	function
<b>new</b>	function
<b>node</b>	function

<b>ofindex</b>	function
<b>package</b>	function
<b>print</b>	function
<b>scan</b>	function
<b>serialize</b>	function
<b>totable</b>	function
<b>types</b>	function
<b>write</b>	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

**linkedList** data table

**pages** table

F setpagetransition

F setupcanvas

**references** table

F setcloseddocument

F setclosepage

F setopendocument

F setopenpage

**renderings** data table

**soundclips** data table

# interfaces (context)

<b>addvalidkeys</b>	function	F MPpardata
<b>cachedsetups</b>	data table	F MPplus
<b>cachedsetup</b>	function	F MPpos
<b>checkedspecification</b>	function	F MPposset
<b>complete</b>	data table	F MPr
<b>constants</b>	data table	F MPrest
<b>corenamespaces</b>	data table	F MPrs
<b>currentinterface</b>	string	F MPul
<b>currentresponse</b>	string	F MPur
<b>definecommand</b>	function	F MPw
<b>defined</b>	function	F MPwhd
<b>doifelsemessage</b>	function	F MPx
<b>elements</b>	data table	F MPxy
<b>formats</b>	data table	F MPxywhd
<b>getcheckedparameters</b>	function	F MPy
<b>getmessage</b>	function	F Romannumerals
<b>getnamespace</b>	function	F abjadnodotnumerals
<b>getsetupstring</b>	function	F abjadnumerals
<b>hashedsetups</b>	data table	F adaptfontfeature
<b>implement</b>	function	F addcounter
<b>interfacedcommand</b>	function	F addfeature
<b>interfaces</b>	table	F addgrapheme
<b>invalidkey</b>	function	F addlinklistelement
<b>message</b>	function	F addreplacements
<b>namespaces</b>	table	F addtocolumnset
F define		F addtojavascriptpreamble
F list		F addtolist
<b>registernamespace</b>	function	F addvalidinterfacekeys
<b>scanners</b>	table	F allinputpaths
F Alphabetic		F alphabetic
F Character		F analyzefloatmethod
F Characters		F analyzeitemgroup
F MPLIBconvertoutlinetext		F analyzelist
F MPc		F analyzeregister
F MPd		F applypattern
F MPH		F applytobox
F MPll		F applytofirstcharacter
F MPLr		F assignbuffer
F MPLs		F autofinishstructurelevels
F MPn		F autonextspace
F MPp		F autonextstructurelevel

F autose setups	F btxlastofrange
F autostarttext	F btxlistvariant
F autostoptext	F btxloaddefinitionfile
F averagecharwidth	F btxloadjournallist
F bitmapimage	F btxloadreplacementfile
F blockcolumnset	F btxoneorrange
F boxtostring	F btxpreparelistentries
F bposcolumn	F btxremapauthor
F bposcolumnregistered	F btxsavedataset
F btxabbreviatedjournal	F btxsavejournallist
F btxaddentry	F btxsetdataset
F btxaddjournal	F btxsetentry
F btxauthor	F btxsetregister
F btxauthorfield	F btxsetspecification
F btxauthorortoregister	F btxsingularorplural
F btxcollectlistentries	F btxtoregister
F btxcurrentfirstnames	F btxusedataset
F btxcurrentinitials	F btxuservariable
F btxcurrentjuniors	F buildtextaccent
F btxcurrentsurnames	F character
F btxcurrentvons	F characters
F btxdetail	F chardescription
F btxdirect	F checkcolumnset
F btxdoif	F checkcountersetup
F btxdoifelse	F checkedconversion
F btxdoifelsecombiinlist	F checkedpagefloat
F btxdoifelsesameasprevious	F checkinjector
F btxdoifelseuservariable	F checkinterfacechain
F btxdoifnot	F checktwopassdata
F btxexpandedjournal	F chemicalcomponent
F btxfetchlistentries	F chinesenumerals
F btxfield	F cleanfontname
F btxfieldname	F cleanupbox
F btxfieldtype	F cleanuplayers
F btxfirstofrange	F clonefield
F btxflush	F collectfloat
F btxflushlistcombi	F collecthelp
F btxflushlistentry	F colorcomponents
F btxflushmarked	F columnsetcurrentcolumn
F btxflushpages	F columnsetgoto
F btxfoundname	F columnsetnoto
F btxfoundtype	F concatcommalist
F btxhandlecite	F consultfloat
F btxhandlenocite	F convertbtxdatasettoxml

F converteddimen	F definefontfeature
F convertmpstopdf	F definefontsolution
F copyboxfromcache	F definehyphenationfeatures
F copyposition	F defineinsertion
F cos	F defineintermediatecolor
F cosd	F definelabels
F countervalue	F definelanguage
F counttwopassdata	F definelinefiller
F currentcomponent	F definelinkedlist
F currentdate	F definemarking
F currentdesignsize	F definemetafont
F currentenvironment	F definemultitonecolorglobal
F currentpostthyphenchar	F definenamespace
F currentprehyphenchar	F definenote
F currentproduct	F defineparallel
F currentproject	F defineparbuilder
F currentreferenceorder	F defineprocesscolordummy
F currentsectiontolist	F defineprocesscolorglobal
F datasetvariable	F defineprocesscolorlocal
F dayname	F defineprogram
F decimals	F definereference
F decrementcounter	F defineregister
F decrementedcounter	F definerule
F decrementsubcounter	F definesectionlevels
F defineaccents	F defineshift
F defineattribute	F definesnapmethod
F definebreakpoint	F definespotcolorglobal
F definebreakpoints	F definestructureblock
F definecharacterspacing	F definestructureset
F definechemical	F definetransparency
F definecolumnset	F definetransparencyglobal
F defineconversion	F definetwopasslist
F definecounter	F definetypeface
F definedlayoutcomponent	F defineviewerlayer
F definefallbackfamily	F depthnumber
F definefield	F digits_normal
F definefieldset	F digits_reverse
F definefilefallback	F directboxfromcache
F definefilesynonym	F directcopyboxfromcache
F definefont_one	F disableautofontscript
F definefont_two	F disabledirectives
F definefontcolorpalette	F disableexperiments
F definefontfamily	F disablejobsave
F definefontfamilypreset	F disableparbuilder

F disableregime  
F disablespellchecking  
F disablestatetriggering  
F disablestream  
F disabletrackers  
F discardfromlist  
F doanalyzeframedbox  
F doifcommon  
F doifcounter  
F doifelseblack  
F doifelseboxincache  
F doifelsebuffer  
F doifelsecharinfont  
F doifelsecommon  
F doifelsecontinewithfile  
F doifelseconverter  
F doifelsecounter  
F doifelsecurrentfonthasfeature  
F doifelsedrawingblack  
F doifelsefieldcategory  
F doifelsefiledefined  
F doifelsefileexist  
F doifelsefirstchar  
F doifelsefontpresent  
F doifelseinelement  
F doifelseinputfile  
F doifelseinset  
F doifelseintwopassdata  
F doifelseleapyear  
F doifselisthasentry  
F doifselisthasnumber  
F doifselisthaspage  
F doifselisthastitle  
F doifselocfile  
F doifelsemarking  
F doifelsemessage  
F doifelseobject  
F doifelseobjectreference  
F doifelseolderversion  
F doifelseoverlapping  
F doifelseparallel  
F doifelseparentfile  
F doifelsepathexist  
F doifelseposition

F doifelsepositiononpage  
F doifelsepositionsonsamepage  
F doifelsepositionsonthispage  
F doifelsepositionsused  
F doifelserangeonpage  
F doifelserereference  
F doifelserightttoleftinbox  
F doifelsesame  
F doifelsestackedfloats  
F doifelsesynonymshown  
F doifelsesynonymused  
F doifelseurldefined  
F doifelseutfmathabove  
F doifelseutfmathaccent  
F doifelseutfmathbelow  
F doifelseutfmathfiller  
F doifelsevisualizer  
F doiffieldsetelse  
F doifinset  
F doifnotcommon  
F doifnotcounter  
F doifnotecontent  
F doifnoteonsamepageasprevious  
F doifnotinset  
F doifnotsame  
F doifposition  
F doifsame  
F doprocesstypescriptfile  
F doreshapeframedbox  
F dosaveposition  
F dosavepositionplus  
F dosavepositionwhd  
F dosetposition  
F dosetpositionbox  
F dosetpositionplus  
F dosetpositionstrut  
F dosetpositionstrutkind  
F dosetpositionwhd  
F dostarttextfile  
F dostoptextfile  
F elapsedtime  
F enableasciimode  
F enableautofences  
F enableautofontscript

F enablebackgroundalign	F figure_done
F enablebackgroundboxes	F figure_dummy
F enablecolor	F figure_flush_registered_pages
F enablecolorintents	F figure_identify
F enablecrlf	F figure_include
F enabledirectives	F figure_mergegoodies
F enableexperiments	F figure_nof_registered_pages
F enablefontcolorsschemes	F figure_pop
F enableinteraction	F figure_push
F enablelinefillers	F figure_register_page
F enableparbuilder	F figure_reset
F enableregime	F figure_scale
F enablerules	F figurefilename
F enableshifts	F figurefilepath
F enablespellchecking	F figurefiletype
F enablestatetriggering	F figurerequest
F enablestream	F figuresetdimensions
F enabletrackers	F figurestatus
F enabletransparency	F figureused
F enableutf	F filterdefaultreference
F enhancelinkedlist	F filterreference
F enhancelist	F finalizebox
F enhancereference	F findregisterinternal
F enhanceregister	F findtwopassdata
F eposcolumn	F finishcolumnsetflush
F eposcolumnregistered	F finishexport
F erasebuffer	F firstcountervalue
F execute	F firstinset
F expandcurrentreference	F firstsubcountervalue
F exportformdata	F flushcolumnsetareas
F exportreferences	F flushcolumnsetcolumn
F extendregister	F flushcolumnsetrest
F extensiblecode	F flushfloat
F fakenextstrutline	F flushlabeledfloat
F fakeword	F flushnotes
F featureattribute	F flushpageinjectionsafter
F featurelist	F flushpageinjectionsbefore
F feedback	F flushpostponedblocks
F fetchallmarks	F flushpostponednotes
F fetchmultipar	F flushstream
F fetchonemark	F flushstreamcopy
F fetchposboxes	F fontchar
F fetchtwomarks	F fontcharbyindex
F figure_check	F fontcollectionclone

F fontcollectiondefine	F getnotestate
F fontcollectionprepare	F getobjectdimensions
F fontcollectionregister	F getobjectreference
F fontcollectionreport	F getobjectreferencepage
F fontcollectionreset	F getprivatechar
F fontlookupgetkey	F getprivateglyphslot
F fontlookupgetkeyofindex	F getprivatemathchar
F fontlookupinitialize	F getprivateslot
F fontlookupnoffound	F getprogram
F forceendjob	F getrandomdimen
F forcequitjob	F getrandomfloat
F formatcolor	F getrandomnumber
F formatgray	F getrandomseed
F from	F getreadfilename
F frule	F getsetupstring
F getbidimode	F getsomefullstructurenumber
F getbodyfontsizes	F getsomestructurenumber
F getboxfromcache	F getspecificstructuretitle
F getbuffer	F getstructurelevel
F getbufferctxlua	F getstructurenumber
F getbuffermkvi	F getsubstring
F getcheckedinterfaceparameters	F gettexbuffer
F getcurrentprefixspec	F gettwopassdata
F getcurrentreferencemetadata	F gettwopassdatalist
F getdefaultfieldvalue	F geturl
F getdocumentargument	F getvisual
F getdocumentfilename	F hboxtoinbox
F getelementtag	F helpaction
F getfieldcategory	F helpreference
F getfile	F hexstringtonumber
F getfirstcharacter	F horizontalcode
F getfirsttwopassdata	F hour
F getfloatvariable	F hyphenatedlist
F getfullstructurenumber	F hyphenatedurl
F getinternalcachedlistreference	F immediatemessage
F getinternallistreference	F incrementcounter
F getlasttwopassdata	F incrementedcounter
F getmarking	F incrementsubcounter
F getmathdomain	F initializejob
F getmathitalics	F initializemathdomain
F getmessage	F initializemathitalics
F getmpextensions	F initializemathkernpairs
F getnaturaldimensions	F initializestream
F getnaturalwd	F initializetexdirectives



F initializetextrackers	F loadspellchecklist
F injectcurrentreference	F loadtypescriptfile
F injectcurrentreferencehtdp	F loadvisualizer
F injectreference	F locatefilepath
F inlinechemical	F locfilename
F inputfilebarename	F lower
F inputfilename	F lpdf_adddocumentcolorspace
F inputfilerealsuffix	F lpdf_adddocumenttextgstate
F inputfilesuffix	F lpdf_adddocumentpattern
F insertattachment	F lpdf_adddocumentshade
F insertcomment	F lpdf_addtocatalog
F insertfield	F lpdf_addtoinfo
F insertionnumber	F lpdf_addtonames
F insertrenderingwindow	F lpdf_addtopageattributes
F installedlanguages	F lpdf_addtopageresources
F installtexdirective	F lpdf_addtopagesattributes
F installtextracker	F lpdf_collectedresources
F jobfilefullname	F lpdf_color
F jobfilename	F luascript
F jobfilesuffix	F luathread
F languagenumber	F lxmlid
F lastcountervalue	F markcontent
F lastlinewidth	F markingnumber
F lastsubcountervalue	F markingtitle
F lchexnumber	F markinjector
F lchexnumbers	F markregionbox
F leapyear	F markregionboxcorrected
F linenumbersstageone	F markregionboxtagged
F linenumbersstagetwo	F markregionboxtaggedkind
F listgroupindex	F markvisualfonts
F listlabel	F mathfraction
F listlocation	F mathrenderset
F listnamespaces	F message
F listprefixednumber	F metapostescaped
F listprefixedpage	F metapostformatted
F listrealpage	F metapostgraphformat
F listsize	F minute
F listtitle	F mixcleanup
F listuserdata	F mixfinalize
F loadexamodes	F mixflushlist
F loadfontgoodies	F mixflushrest
F loadluamodule	F mixgetsplit
F loadmapfile	F mixsetsplit
F loadmapline	F mixstate

F molecule	F operatingsystem
F month	F ordinal
F monthnm	F outputfilename
F monthname	F overloadbookmark
F mpcolor	F overloaderror
F mpflushliteral	F overloadlowercase
F mpflushreset	F overloaduppercase
F mpgettext	F pageofinternal
F mpgraphic	F pagestaterealpage
F mpoptions	F parpos
F mppopvariables	F pdfannot
F mppushvariables	F pdfdest
F mprunset	F pdfrotation
F mpruntab	F pdfstartmatrix
F mprunvar	F pdfstartmirroring
F mpsetclippath	F pdfstartrotation
F mpsetoutercolor	F pdfstartscaling
F mpsetsxsy	F pdfstopmatrix
F mpsettext	F pdfstopmirroring
F mptexget	F pdfstoprotation
F mptexreset	F pdfstopscaling
F mptexset	F percentageof
F mptexsetfrombuffer	F pgfxcolorspec
F namedstructureuservariable	F pickupbuffer
F namedstructurevariable	F pickupmarkedcontent
F naturalwd	F pickuppunctuation
F nbfs	F placeparallel
F negatedcolorcomponent	F popfloat
F nextcountervalue	F pophyphenation
F nextparallel	F popitaliccorrection
F nextsubcountervalue	F poplist
F noconversions	F poppath
F nofdays	F poprandomseed
F nofstackedfloats	F popreferenceprefix
F notedeltapage	F popregime
F noteinternal	F popsectionblock
F notelistindex	F postponeotes
F noteprefixednumber	F prefixedconverted
F notetitle	F prepareMPvariable
F ntimes	F preparecolumnsetflush
F number	F presetmathalternate
F numbers	F presetsymbollist
F octnumber	F presettabulate
F octstringtonumber	F previouscountervalue

F previoussubcountervalue	F registercolumnsetarea
F processbodyfontsizes	F registeredviewerlayer
F processbuffer	F registerfigurepattern
F processcolorcomponents	F registerfiguresuffix
F processedfile	F registerfontalternative
F processedfiles	F registerfontfamily
F processfile	F registerhelp
F processfilemany	F registerhyphenationexception
F processfilenone	F registerhyphenationpattern
F processfileonce	F registeritemgroup
F processjob	F registerlanguagefeatures
F processlist	F registerlinenumbering
F processregister	F registermaintextcolor
F processsplit	F registermpyfile
F processsynonyms	F registernamedlua
F profilebox	F registernamespace
F purefontname	F registerobject
F pushfloat	F registerpattern
F pushhyphenation	F registerpostponedblock
F pushitaliccorrection	F registerreferencedobject
F pushlist	F registerrendering
F pushpath	F registersection
F pushrandomseed	F registershownsynonym
F pushreferenceprefix	F registerstructureprocessor
F pushregime	F registersynonym
F pushsectionblock	F registerunit
F pushstream	F registerusedsynonym
F putboxincache	F registeruserdata
F putincolumnset	F relatemarking
F rawcharacter	F renderingvar
F rawcountervalue	F replacefeature
F rawdate	F replacepospxywhd
F rawsetupstring	F reportstructure
F rawsubcountervalue	F resavefloat
F referencepagedetail	F resetboxesincache
F referencepagestate	F resetcharacteralign
F referencerealpage	F resetcolumnset
F registerattachment	F resetcounter
F registerbackendsymbol	F reseteffect
F registerbackground	F resetfeature
F registerbodyfontsize	F resetfontfeature
F registerbookmark	F resetfontsolution
F registerbuttons	F resetinjector
F registercolorintent	F resetitaliccorrection

F resetmapfiles	F savestructureblock
F resetmarking	F savetaggedtwopassdata
F resetmathattributes	F savetwopassdata
F resetmathitalics	F savevariable
F resetnullfont	F second
F resetparallel	F selectstructureblock
F resetpath	F setactivecatcodes
F resetprevdepth	F setbreakpoints
F resetreference	F setcharacteralign
F resetscript	F setcharactercasing
F resetshownsynonyms	F setcharactercleaning
F resetstructureprocessor	F setcharacterkerning
F resetsubcounter	F setcharacterspacing
F resettimer	F setcharacterstripping
F resettrackers	F setcloseddocumentaction
F resetusedsynonyms	F setclosepageaction
F restartcounter	F setcolormodel
F restartsubcounter	F setcolumnsetarea
F restorecounter	F setcolumnsetlines
F restorecurrentattributes	F setcolumnsetproperties
F restorenote	F setcolumnsetstart
F restoreobject	F setcounter
F reuserandomseed	F setdataset
F revivefeature	F setdestinationattribute
F romannumerals	F setdigitsmanipulation
F rounded	F setdirection
F ruby	F setdocumentargument
F runbuffer	F setdocumentcommandline
F runcontextjob	F setdocumentctxfile
F safechar	F setdocumentdefaultargument
F savebuffer	F setdocumentenvironments
F savecounter	F setdocumentfilename
F savecurrentattributes	F setdocumentfilenames
F savedlistnumber	F setdocumentmodes
F savedlistprefixednumber	F setdocumentmodules
F savedlisttitle	F seteffect
F savefloat	F setelementuserproperties
F savefont	F setextrafontkerns
F savemargindata	F setfieldcalculationset
F savenote	F setfigurelookuporder
F savepagedata	F setfigurepaths
F savepageinjections	F setfirstline
F saveparallel	F setfontfeature
F savespecificfloat	F setfontofid

F setfontsolution	F setownsubcounter
F setformat	F setpagecolormodel
F setformsmethod	F setpagestate
F setsizecolumnset	F setpagestaterealignpageno
F setsizecolumnspan	F setpagetransition
F sethyphenatedurlcharacters	F setparbuilder
F sethyphenationfeatures	F setpdfcompression
F sethyphenationmethod	F setprofile
F setinitial	F setrandomseed
F setinitialsectionblock	F setrealign
F setinjector	F setrealspaces
F setinnerreferencemethod	F setreferencearguments
F setinsertionlocation	F setreferenceoperation
F setinterfaceconstant	F setregionbox
F setinterfaceelement	F setregionboxtagged
F setinterfacemessage	F setregistermethod
F setinterfacemessages	F setreplacements
F setinterfacevariable	F setruby
F setinternalreference	F setscript
F setitaliccorrection	F setsectionblock
F setjavascriptpreamble	F setsectionentry
F setjobcomment	F setstructureblockstate
F setlanguageexceptions	F setstructurelevel
F setlanguagesynonym	F setstructurenumber
F setlettercatcodes	F setsubcounter
F setmapfile	F settagaspect
F setmapline	F settagcombination
F setmarking	F settagdelimitedsymbol
F setmathalphabet	F settagfigure
F setmathalternate	F settaggedmetadata
F setmathattribute	F settaghighlight
F setmathdirection	F settagitem
F setmathdomain	F settagitemgroup
F setmathitalics	F settaglist
F setmathstyle	F settagnotation
F setmpextensions	F settagnotationsymbol
F setnaturalwd	F settagproperty
F setnegative	F settagproperty_b
F setnextinternalreference	F settagproperty_n
F setnextreferenceorder	F settagregister
F setnotestate	F settagsorting
F setopendocumentaction	F settagssubsentencesymbol
F setopenpageaction	F settagssynonym
F setowncounter	F settagtablecell

F settagtabulatecell	F startcolorset
F setupbookmarks	F startcomponent
F setupcanvas	F startenvironment
F setupcharacterspacing	F startfontsolution
F setupexport	F startparbuilder
F setupfontexpansion	F startproduct
F setupfontprotrusion	F startproject
F setupidentity	F startregime
F setupinsertion	F startruby
F setupitaliccorrection	F startsectionlevel
F setuplinenumbering	F startstream
F setuserinterface	F starttag
F setvalidinterfacekeys	F starttag_c
F setvisual	F starttag_d
F setvisualfont	F starttag_u
F setvisuallayer	F starttext
F setvisuals	F startviewerlayer
F setvsizecolumnset	F step
F setxmpfile	F stopactualtext
F showassignerror	F stopchemical
F showattributes	F stopcolorset
F showcounter	F stopcomponent
F showdebuginfo	F stopenvironment
F showdirectives	F stopfontsolution
F showdiscretionaries	F stopparbuilder
F showexperiments	F stopproduct
F showhyphenatedinlist	F stopproject
F showhyphenationtrace	F stopregime
F showinjector	F stopsectionlevel
F showjustification	F stopstream
F showlogcategories	F stoptag
F showmessage	F stoptext
F showtrackers	F stopviewerlayer
F sin	F storejavascriptcode
F sind	F storejavascriptpreamble
F specifiedfont	F storenote
F specifiedfontsize	F storeregister
F specifiedfontspec	F strdp
F splitfilename	F strhd
F spotcolorname	F strht
F spotcolorparent	F strip
F spotcolorvalue	F structureautocatcodedget
F startactualtext	F structurecatcodedget
F startchemical	F structuregivencatcodedget

F structurenumber	F upper
F structuretitle	F useMPLibrary
F structureuservariable	F useanyfile
F structurevariable	F useanyfileonce
F strwd	F usecldfilename
F subcountervalue	F usecldfilenameonce
F subcountervalues	F usecolors
F subsubcountervalues	F usecomponent
F subtractfeature	F useenvironment
F synccolor	F usefigurebase
F synccolorclone	F usefile
F synccolorcount	F usejavascriptpreamble
F synchronizemarking	F usejavascriptscripts
F synchronizestream	F useluafilename
F synonymmeaning	F useluafilenameonce
F synonymname	F useluamodule
F systemlog	F usemodules
F tagmfunctionlab	F usepath
F tagmfunctiontxt	F useproduct
F tan	F useproject
F tand	F usesubpath
F texdefinition_one	F usesymbols
F texdefinition_two	F usetexfile
F textime	F usetexfileonce
F thefirstcharacter	F useurl
F themaxboxwidth	F usexmlfile
F theremainingcharacters	F usexmlfileonce
F tochar	F usezipfile
F transparencycomponents	F utfchar
F triggerpagebuilder	F utfmathclass
F truefilename	F utfmathcommand
F truefontname	F utfmathcommandabove
F type	F utfmathcommandbelow
F typebuffer	F utfmathcommandfiller
F typefile	F utfmathfiller
F uchar	F utfmathstretch
F uchexnumber	F vboxlisttohbox
F uchexnumbers	F verbose
F undefinechemical	F vspacing
F unicodechar	F vspacingcollapse
F unihex	F vspacingcollapseonly
F unit_normal	F vspacingdefine
F unit_reverse	F vspacingsetamount
F unloadlanguage	F vspacingsnap

F way	F xmldirectives
F weekday	F xmldirectivesafter
F weekdayname	F xmldirectivesbefore
F writestatus	F xmldisplayverbatim
F x_table_c	F xmldoif
F x_table_cleanup	F xmldoifelse
F x_table_construct	F xmldoifelseempty
F x_table_create	F xmldoifelseselfempty
F x_table_finish_row	F xmldoifelsetext
F x_table_flush	F xmldoifempty
F x_table_init_construct	F xmldoifnot
F x_table_init_reflow_height	F xmldoifnotempty
F x_table_init_reflow_height_option	F xmldoifnotselfempty
F x_table_init_reflow_width	F xmldoifnottext
F x_table_init_reflow_width_option	F xmldoifselfempty
F x_table_next_row	F xmldoiftext
F x_table_next_row_option	F xmlelement
F x_table_r	F xmlfilter
F x_table_reflow_height	F xmlfilterlist
F x_table_reflow_width	F xmlfirst
F x_table_set_construct	F xmlflush
F x_table_set_reflow_height	F xmlflushcontext
F x_table_set_reflow_width	F xmlflushnewline
F xmladdindex	F xmlflushpure
F xmlafterssetup	F xmlflushsetups
F xmlall	F xmlflushspacewise
F xmlappendsetup	F xmlflushstext
F xmlapplyselectors	F xmlfunction
F xmlatt	F xmlgetindex
F xmlattdef	F xmlinclude
F xmlattribute	F xmlincludeoptions
F xmlattributedef	F xmlinclusion
F xmlbadinclusions	F xmlinclusions
F xmlbeforesetup	F xmlindex
F xmlchainatt	F xmlinlineverbatim
F xmlchainattdef	F xmlinstalldirective
F xmlchecknamespace	F xmllast
F xmlcommand	F xmllastatt
F xmlconcat	F xmllastmatch
F xmlconcatrange	F xmlload
F xmlcontext	F xmlloadbuffer
F xmlcount	F xmlloaddata
F xmldelete	F xmlloaddirectives
F xmldirect	F xmlloadentities



F xmlmain	F xmlstripped	
F xmlmatch	F xmlstrippednolines	
F xmlname	F xmltag	
F xmlnamespace	F xmltexentity	
F xmlnonspace	F xmltext	
F xmlpath	F xmltobuffer	
F xmlpopmatch	F xmltobufferverbose	
F xmlpos	F xmltofile	
F xmlprependsetup	F xmltoparameters	
F xmlpure	F xmlverbatim	
F xmlpushmatch	F xmlwithindex	
F xmlraw	F year	
F xmlrawtex	<b>setconstant</b>	function
F xmlrefatt	<b>setcount</b>	function
F xmlregistersn	<b>setdimen</b>	function
F xmlremapname	<b>setelement</b>	function
F xmlremapnamespace	<b>setformat</b>	function
F xmlremovesetup	<b>setmacro</b>	function
F xmlresetinjectors	<b>setmessage</b>	function
F xmlresetsetups	<b>setmessages</b>	function
F xmlsave	<b>settranslation</b>	function
F xmlsetcommandtonone	<b>setupstrings</b>	data table
F xmlsetcommandtotext	<b>setuserinterface</b>	function
F xmlsetentity	<b>setvalidkeys</b>	function
F xmlsetinjectors	<b>setvariable</b>	function
F xmlsetsetup	<b>showmessage</b>	function
F xmlsnippet	<b>storedscanners</b>	data table
F xmlstartraw	<b>strings</b>	table
F xmlstarttiming	<b>syntax</b>	data table
F xmlstopraw	<b>tolist</b>	function
F xmlstoptiming	<b>translations</b>	data table
F xmlstrip	<b>usednamespaces</b>	data table
F xmlstripanywhere	<b>variables</b>	data table
F xmlstripnolines	<b>writestatus</b>	function

## io (basic lua)

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

# job (context)

<b>comment</b>	function	F define	
<b>datasets</b>	table	F find	
D collected		F first	
F extend		F get	
F getdata		F getcollected	
F setdata		F getdata	
D tobesaved		F getfield	
<b>disablesave</b>	function	F gettobesaved	
<b>fileobjreferences</b>	table	F inlist	
D collected		F last	
D tobesaved		F list	
<b>files</b>	table	F save	
D collected		F savetagged	
F context		D tobesaved	
B forcerun		<b>positions</b>	table
F run		F b_column	
D tobesaved		F b_region	
<b>getrandomseed</b>	function	F c	
<b>initialize</b>	function	D collected	
<b>load</b>	function	F column	
<b>loadother</b>	function	F copy	
<b>objects</b>	table	F depth	
D collected		F e_column	
F get		F e_region	
F number		F enhance	
F page		F extra	
F save		T free	
F set		F get	
D tobesaved		F getreserved	
<b>pack</b>	boolean	F gettobesaved	
<b>packversion</b>	number	F hangafter	
<b>pagestates</b>	table	F hangindent	
D collected		F height	
F extend		F hsize	
F realpage		F leftskip	
F setstate		F lowerleft	
D tobesaved		F lowerright	
<b>passes</b>	table	F markregionbox	
F check		F n	
D collected		F onsamepage	
F count		F overlapping	

F p	F y	
T page	<b>register</b>	function
F paragraph	<b>save</b>	function
F parindent	<b>structure</b>	table
F position	D collected	
F r	T components	
F region	T tobesaved	
F replace	T branches	
F rightskip	S name	
F set	S type	
F setall	<b>variables</b>	table
F setregionbox	D checksums	
D tobesaved	D collected	
F upperleft	F getchecksum	
F upperright	F makechecksum	
S used	F restore	
F whd	F save	
F width	F setchecksum	
F x	D tobesaved	
F xy	<b>version</b>	number

## lang (basic tex)

<b>clean</b>	function
<b>clear_hyphenation</b>	function
<b>clear_patterns</b>	function
<b>exceptions</b>	function
<b>gethjcode</b>	function
<b>hyphenate</b>	function
<b>hyphenation</b>	function
<b>hyphenationmin</b>	function

<b>id</b>	function
<b>new</b>	function
<b>patterns</b>	function
<b>postexhyphenchar</b>	function
<b>posthyphenchar</b>	function
<b>preexhyphenchar</b>	function
<b>prehyphenchar</b>	function
<b>sethjcode</b>	function

# languages (context)

<b>associate</b>	function	<b>F registerexception</b>	
<b>associated</b>	data table	<b>F registerpattern</b>	
<b>association</b>	function	<b>F setfeatures</b>	
<b>counters</b>	data table	<b>installed</b>	function
<b>current</b>	function	<b>labels</b>	table
<b>data</b>	data table	<b>F define</b>	
<b>decimals</b>	data table	<b>F split</b>	
<b>define</b>	function	<b>loadable</b>	function
<b>expand</b>	function	<b>loadwords</b>	function
<b>expanders</b>	table	<b>logger</b>	table
<b>flatten</b>	function	<b>F report</b>	
<b>frequencies</b>	table	<b>nofflattened</b>	function
<b>F averagecharwidth</b>		<b>numbers</b>	data table
<b>F getdata</b>		<b>postexhyphenchar</b>	function
<b>getdata</b>	function	<b>posthyphenchar</b>	function
<b>getnumber</b>	function	<b>preexhyphenchar</b>	function
<b>hjcounts</b>	table	<b>prehyphenchar</b>	function
<b>hyphenate</b>	function	<b>registered</b>	data table
<b>hyphenators</b>	table	<b>replacements</b>	table
<b>T dictionaries</b>		<b>F add</b>	
<b>D featuresets</b>		<b>F handler</b>	
<b>F handler</b>		<b>F set</b>	
<b>T methods</b>		<b>serializediscretionary</b>	function
<b>F expanded</b>		<b>setexceptions</b>	function
<b>B none</b>		<b>setsynonym</b>	function
<b>F original</b>		<b>showdiscretionaries</b>	function
<b>F tex</b>		<b>unload</b>	function
<b>F traditional</b>		<b>urls</b>	table
<b>F popmethod</b>		<b>D characters</b>	
<b>F pushmethod</b>		<b>N lefthyphenmin</b>	
<b>F setmethod</b>		<b>D mapping</b>	
<b>F setup</b>		<b>B packslashes</b>	
<b>F showhyphenationtrace</b>		<b>N righthyphenmin</b>	
<b>T traditional</b>		<b>F setcharacters</b>	
<b>F definefeatures</b>		<b>version</b>	number
<b>F gettrace</b>		<b>visualizediscretionaries</b>	function
<b>F hyphenate</b>		<b>words</b>	table
<b>F injecthyphens</b>		<b>F check</b>	
<b>F installmethod</b>		<b>T data</b>	
<b>F lasttrace</b>		<b>F disable</b>	
<b>F loadpatterns</b>		<b>F enable</b>	

T enablers

F load

B enables

T methods

F found

N threshold

# layouts (context)

<b>status</b>	table	F leftorrightpageaction
	F isleftpage	



## lfs (extra lua)

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

## libraries (context)

**basiclua** data table

**basictex** data table

**builtin** data table

**extralua** data table

**extratex** data table

**functions** data table

**globals** data table

## lmx (context)

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

<b>loadedfile</b>	function
<b>make</b>	function
<b>new</b>	function
<b>overloaderror</b>	function
<b>popupfile</b>	function
<b>print</b>	function
<b>pv</b>	function
<b>report</b>	function
<b>reset</b>	function
<b>result</b>	function
<b>set</b>	function
<b>show</b>	function
<b>showdebuginfo</b>	function
<b>showerror</b>	function
<b>stripcss</b>	function
<b>tv</b>	function
<b>type</b>	function
<b>urlescape</b>	function
<b>variable</b>	function
<b>variables</b>	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)

<b>application</b>	function
<b>categories</b>	function
<b>direct</b>	function
<b>disable</b>	function
<b>enable</b>	function
<b>exporters</b>	table
<b>extendbanner</b>	function
<b>flush</b>	function
<b>help</b>	function
<b>messenger</b>	function
<b>new</b>	function
<b>newline</b>	function
<b>poptarget</b>	function
<b>pushtarget</b>	function
<b>report</b>	function
<b>reportbanner</b>	function
<b>reporter</b>	function
<b>reporters</b>	table
F banner	
F export	
F help	
F info	
F lines	
F version	
<b>reportline</b>	function

<b>reportlines</b>	function
<b>setformats</b>	function
<b>setformatters</b>	function
<b>setlogfile</b>	function
<b>setmessenger</b>	function
<b>setprocessor</b>	function
<b>setprogram</b>	function
<b>settarget</b>	function
<b>settimedlog</b>	function
<b>settranslations</b>	function
<b>show</b>	function
<b>show_close</b>	function
<b>show_load</b>	function
<b>show_open</b>	function
<b>simple</b>	function
<b>simpleline</b>	function
<b>simplelines</b>	function
<b>start_page_number</b>	function
<b>status</b>	function
<b>stop_page_number</b>	function
<b>subdirect</b>	function
<b>subreport</b>	function
<b>system</b>	function
<b>texerrormessage</b>	function
<b>writer</b>	function

# lpdf (context)

<b>action</b>	function	<b>finalizedocument</b>	function
<b>adddocumentcolorspace</b>	function	<b>finalizepage</b>	function
<b>adddocumenttextgstate</b>	function	<b>finishtransparencycode</b>	function
<b>adddocumentpattern</b>	function	<b>flushobject</b>	function
<b>adddocumentshade</b>	function	<b>flushstreamfileobject</b>	function
<b>addtocatalog</b>	function	<b>flushstreamobject</b>	function
<b>addtoinfo</b>	function	<b>formats</b>	data table
<b>addtonames</b>	function	<b>frompdfdoc</b>	function
<b>addtopageattributes</b>	function	<b>fromsixteen</b>	function
<b>addtopageresources</b>	function	<b>gethpos</b>	function
<b>addtopagesattributes</b>	function	<b>getmatrix</b>	function
<b>addtxmpinfo</b>	function	<b>getpos</b>	function
<b>annotationspecification</b>	function	<b>getvpos</b>	function
<b>array</b>	function	<b>graycode</b>	function
<b>boolean</b>	function	<b>hasmatrix</b>	function
<b>border</b>	function	<b>id</b>	function
<b>checkedkey</b>	function	<b>injecttxmpinfo</b>	function
<b>checkedvalue</b>	function	<b>inserttxmpinfo</b>	function
<b>circularshade</b>	function	<b>layerreference</b>	function
<b>cmykcode</b>	function	<b>limited</b>	function
<b>collectedresources</b>	function	<b>linearshade</b>	function
<b>color</b>	function	<b>nametree</b>	function
<b>colorspace</b>	function	<b>null</b>	function
<b>colorspaceconstants</b>	data table	<b>number</b>	function
<b>colorspec</b>	function	<b>pagereference</b>	function
<b>colorvalue</b>	function	<b>patternstream</b>	function
<b>colorvalues</b>	function	<b>pdfcolor</b>	function
<b>constant</b>	function	<b>pdftimestamp</b>	function
<b>delayedobject</b>	function	<b>permitdetail</b>	function
<b>destinationspecification</b>	function	<b>protectresources</b>	boolean
<b>dictionary</b>	function	<b>rectangle</b>	function
<b>docstring</b>	function	<b>reference</b>	function
<b>epdf</b>	table	<b>registerannotation</b>	function
F contenttotext		<b>registerdestination</b>	function
F expand		<b>registerdocumentfinalizer</b>	function
F expanded		<b>registerpagefinalizer</b>	function
F getpagecontent		<b>registerpattern</b>	function
F getstructure		<b>reserveobject</b>	function
F load		<b>rgbcode</b>	function
F unload		<b>rotationcm</b>	function
<b>escaped</b>	function	<b>setdates</b>	function

<b>settime</b>	function	<b>tosixteen</b>	function
<b>settrailerid</b>	function	<b>transform</b>	function
<b>shareobject</b>	function	<b>transparency</b>	function
<b>shareobjectreference</b>	function	<b>transparencycode</b>	function
<b>spotcode</b>	function	<b>transparencygroups</b>	table
<b>stream</b>	function	B none	
<b>string</b>	function	<b>transparencyvalue</b>	function
<b>timestamp</b>	function	<b>unicode</b>	function
<b>toeight</b>	function	<b>verbose</b>	function
<b>topdfdoc</b>	function		

## lpeg (basic lua)

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

<b>bytecode</b>	table	<b>lastbytecode</b>	number
<b>bytedata</b>	data table	<b>mask</b>	string
<b>bytdone</b>	table	<b>messages</b>	data table
B page-cst		<b>name</b>	table
<b>collectgarbage</b>	function	<b>numbers</b>	data table
<b>delay</b>	function	<b>registercode</b>	function
<b>finalize</b>	function	<b>registeredcodes</b>	function
<b>firstbytecode</b>	number	<b>registerfinalizer</b>	function
<b>flush</b>	function	<b>registername</b>	function
<b>flushdelayed</b>	function	<b>setbytecode</b>	function
<b>get_functions_table</b>	function	<b>setluaname</b>	function
<b>getbytecode</b>	function	<b>startupfile</b>	string
<b>getluaname</b>	function	<b>version</b>	string

# luatex (context)

**cleanuptempfiles**      function  
**registerdumpactions**    function  
**registerpageactions**    function  
**registerstartactions**   function

**registerstopactions**    function  
**registertempfile**       function  
**starttime**               number

# lxml (context)

<b>addindex</b>	function	<b>flush</b>	function
<b>all</b>	function	<b>flushlinewise</b>	function
<b>applyfunction</b>	function	<b>flushsetups</b>	function
<b>applyselectors</b>	function	<b>flushspacewise</b>	function
<b>att</b>	function	<b>get_id</b>	function
<b>attribute</b>	function	<b>getid</b>	function
<b>badinclusions</b>	function	<b>getindex</b>	function
<b>chainattribute</b>	function	<b>id</b>	function
<b>checkindex</b>	function	<b>idsplitter</b>	userdata
<b>collected</b>	function	<b>include</b>	function
<b>command</b>	function	<b>inclusion</b>	function
<b>concat</b>	function	<b>inclusions</b>	function
<b>concatrange</b>	function	<b>index</b>	function
<b>content</b>	function	<b>inlineverbatimim</b>	function
<b>context</b>	function	<b>installsetup</b>	function
<b>convert</b>	function	<b>last</b>	function
<b>count</b>	function	<b>lastatt</b>	function
<b>delete</b>	function	<b>lastmatch</b>	function
<b>direct</b>	function	<b>load</b>	function
<b>directives</b>	table	<b>loadbuffer</b>	function
F after		<b>loaddata</b>	function
F before		<b>loaded</b>	table
F handle		<b>main</b>	function
F load		<b>match</b>	function
F setup		<b>name</b>	function
<b>displayverbatimim</b>	function	<b>namespace</b>	function
<b>doif</b>	function	<b>nonspace</b>	function
<b>doifelse</b>	function	<b>path</b>	function
<b>doifelseempty</b>	function	<b>popmatch</b>	function
<b>doifelsetext</b>	function	<b>pos</b>	function
<b>doifempty</b>	function	<b>position</b>	function
<b>doifnot</b>	function	<b>pure</b>	function
<b>doifnotempty</b>	function	<b>pushmatch</b>	function
<b>doifnottext</b>	function	<b>raw</b>	function
<b>doiftext</b>	function	<b>rawroot</b>	function
<b>element</b>	function	<b>rawtex</b>	function
<b>elements</b>	function	<b>refatt</b>	function
<b>entities</b>	data table	<b>register</b>	function
<b>filter</b>	function	<b>registerentity</b>	function
<b>filterlist</b>	function	<b>removesetup</b>	function
<b>first</b>	function	<b>resetcdata</b>	function

<b>resetsetup</b>	function	<b>splitid</b>	function
<b>resolvedentity</b>	function	<b>startraw</b>	function
<b>root</b>	function	<b>startunesaped</b>	function
<b>save</b>	function	<b>stopraw</b>	function
<b>serialize</b>	function	<b>stopunesaped</b>	function
<b>setaction</b>	function	<b>store</b>	function
<b>setcdata</b>	function	<b>strip</b>	function
<b>setcommandtonone</b>	function	<b>stripped</b>	function
<b>setcommandtotext</b>	function	<b>tag</b>	function
<b>setsetup</b>	function	<b>text</b>	function
<b>snippet</b>	function	<b>tobuffer</b>	function
<b>sorters</b>	table	<b>tofile</b>	function
F add		<b>toparameters</b>	function
F compare		<b>toverbatim</b>	function
F flush		<b>verbatim</b>	function
F reset		<b>withindex</b>	function
F show		<b>xmltexhandler</b>	data table
F sort			

## math (basic lua)

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

# mathematics (context)

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

## mbox (context)

<b>parse</b>	function
<b>parse_from</b>	function
<b>parse_header</b>	function
<b>parse_headers</b>	function

<b>parse_message</b>	function
<b>split_headers</b>	function
<b>split_mbox</b>	function
<b>split_message</b>	function

## md5 (extra lua)

**HEX**      function

**crypt**    function

**dec**      function

**decrypt** function

**exor**     function

**hex**      function

**sum**      function

**sumhexa** function



# metapost (context)

<b>analyzeplugins</b>	function	<b>getstatistics</b>	function
<b>checkformat</b>	function	<b>gettext</b>	function
<b>checktexts</b>	function	<b>graphic</b>	function
<b>collapse</b>	boolean	<b>graphic_base_pass</b>	function
<b>colorinitializer</b>	function	<b>initializescriptrunner</b>	function
<b>comment</b>	function	<b>instance</b>	function
<b>convert</b>	function	<b>intermediate</b>	table
<b>defaultformat</b>	string	T actions	
<b>defaultinstance</b>	string	F makempy	
<b>defaultmethod</b>	string	<b>lastlog</b>	string
<b>directrun</b>	function	<b>load</b>	function
<b>escaped</b>	function	<b>makempy</b>	table
<b>exectime</b>	table	N nofconverted	
<b>extensiondata</b>	data table	F processgraphics	
<b>filterclippath</b>	function	F registerfile	
<b>flush</b>	function	<b>maketext</b>	function
<b>flushers</b>	table	<b>metafun</b>	table
T pdf		F interpolate	
F comment		F topath	
F flushfigure		<b>method</b>	number
F startfigure		<b>mptopdf</b>	table
F stopfigure		F convertmpstopdf	
F textfigure		N nofconverted	
<b>flushliteral</b>	function	<b>n</b>	number
<b>flushnormalpath</b>	function	<b>nvformat</b>	function
<b>flushreset</b>	function	<b>optimize</b>	boolean
<b>fonts</b>	table	<b>parse</b>	function
F define		<b>pdfliterals</b>	function
T flusher		<b>pluginactions</b>	function
F flushfigure		<b>popvariable</b>	function
F startfigure		<b>popvariables</b>	function
F stopfigure		<b>process</b>	function
N instances		<b>processplugins</b>	function
F process		<b>processspecial</b>	function
<b>format</b>	function	<b>properties</b>	table
<b>format_number</b>	function	<b>pushvariable</b>	function
<b>format_string</b>	function	<b>pushvariables</b>	function
<b>formatnumber</b>	function	<b>quickanddirty</b>	function
<b>getclippath</b>	function	<b>reducetogray</b>	boolean
<b>getextensions</b>	function	<b>reporterror</b>	function
<b>getjobdata</b>	function	<b>reset</b>	function

<b>resetlastlog</b>	function	F get	
<b>resetplugins</b>	function	F reset	
<b>runscript</b>	function	F set	
<b>scripterror</b>	function	F setfrombuffer	
<b>setextensions</b>	function	<b>texerrors</b>	boolean
<b>setoutercolor</b>	function	<b>texexp</b>	function
<b>settext</b>	function	<b>texttextsdata</b>	function
<b>setvariable</b>	function	<b>theclippath</b>	function
<b>showlog</b>	boolean	<b>totable</b>	function
<b>simple</b>	function	<b>unload</b>	function
<b>svformat</b>	function	<b>untagvariable</b>	function
<b>tex</b>	table	<b>variables</b>	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)

<b>BackSpace</b>	function	<b>OuterMarginWidth</b>	function
<b>BaselineSkip</b>	function	<b>OverlayDepth</b>	function
<b>BodyFontSize</b>	function	<b>OverlayHeight</b>	function
<b>BottomDistance</b>	function	<b>OverlayLineWidth</b>	function
<b>BottomHeight</b>	function	<b>OverlayOffset</b>	function
<b>BottomSpace</b>	function	<b>OverlayWidth</b>	function
<b>CurrentColumn</b>	function	<b>PageDepth</b>	function
<b>CurrentHeight</b>	function	<b>PageFraction</b>	function
<b>CurrentWidth</b>	function	<b>PageNumber</b>	function
<b>CutSpace</b>	function	<b>PageOffset</b>	function
<b>EmWidth</b>	function	<b>PaperBleed</b>	function
<b>ExHeight</b>	function	<b>PaperHeight</b>	function
<b>FooterDistance</b>	function	<b>PaperWidth</b>	function
<b>FooterHeight</b>	function	<b>PrintPaperHeight</b>	function
<b>HSize</b>	function	<b>PrintPaperWidth</b>	function
<b>HeaderDistance</b>	function	<b>RealPageNumber</b>	function
<b>HeaderHeight</b>	function	<b>RightEdgeDistance</b>	function
<b>InPageBody</b>	function	<b>RightEdgeWidth</b>	function
<b>InnerEdgeDistance</b>	function	<b>RightMarginDistance</b>	function
<b>InnerEdgeWidth</b>	function	<b>RightMarginWidth</b>	function
<b>InnerMarginDistance</b>	function	<b>SpineWidth</b>	function
<b>InnerMarginWidth</b>	function	<b>StrutDepth</b>	function
<b>LastPageNumber</b>	function	<b>StrutHeight</b>	function
<b>LayoutColumnDistance</b>	function	<b>TextHeight</b>	function
<b>LayoutColumnWidth</b>	function	<b>TextWidth</b>	function
<b>LayoutColumns</b>	function	<b>TopDistance</b>	function
<b>LeftEdgeDistance</b>	function	<b>TopHeight</b>	function
<b>LeftEdgeWidth</b>	function	<b>TopSkip</b>	function
<b>LeftMarginDistance</b>	function	<b>TopSpace</b>	function
<b>LeftMarginWidth</b>	function	<b>VSize</b>	function
<b>LineHeight</b>	function	<b>_f_</b>	function
<b>MakeupHeight</b>	function	<b>_get_count_</b>	function
<b>MakeupWidth</b>	function	<b>_get_dimen_</b>	function
<b>NOfColumns</b>	function	<b>_get_toks_</b>	function
<b>NOfPages</b>	function	<b>_set_count_</b>	function
<b>NamedColor</b>	function	<b>_set_dimen_</b>	function
<b>OnOddPage</b>	function	<b>_set_toks_</b>	function
<b>OnRightPage</b>	function	<b>boolean</b>	function
<b>OuterEdgeDistance</b>	function	<b>dataset</b>	function
<b>OuterEdgeWidth</b>	function	<b>datasets</b>	table
<b>OuterMarginDistance</b>	function		

F load

<b>defaultcolormodel</b>	function	<b>positionbox</b>	function
<b>dimensions</b>	function	<b>positioncurve</b>	function
<b>disposehash</b>	function	<b>positionpage</b>	function
<b>format</b>	function	<b>positionpath</b>	function
<b>formatted</b>	function	<b>positionpxy</b>	function
<b>fprint</b>	function	<b>positionregion</b>	function
<b>get</b>	table	<b>positionwhd</b>	function
F boolean		<b>positionxy</b>	function
F number		<b>prefix</b>	function
F numeric		<b>print</b>	function
F string		<b>quadruple</b>	function
<b>get_outline_text</b>	function	<b>quoted</b>	function
<b>getcount</b>	function	<b>report</b>	function
<b>getdimen</b>	function	<b>setcount</b>	function
<b>gettoks</b>	function	<b>setdimen</b>	function
<b>graphformat</b>	function	<b>settoks</b>	function
<b>inhash</b>	function	<b>size</b>	function
<b>integer</b>	function	<b>systemmode</b>	function
<b>isarray</b>	function	<b>tb_dimensions</b>	function
<b>mode</b>	function	<b>texstr</b>	function
<b>n</b>	function	<b>texvar</b>	function
<b>newhash</b>	function	<b>tohash</b>	function
<b>numeric</b>	function	<b>triplet</b>	function
<b>pair</b>	function	<b>tt_dimensions</b>	function
<b>path</b>	function	<b>tt_initialize</b>	function
<b>positionanchor</b>	function		

## mplib (extra tex)

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

# noads (context)

<b>handlers</b>	table		F tags
F alternates			F unscript
F autofences			F variants
F classes		<b>process</b>	function
F collapse		<b>processnested</b>	function
F domains		<b>processors</b>	table
F families		T autofences	
F italics		T collapse	
F kernpairs		F mlist_to_hlist	
F makeup		T relocate	
F relocate		T render	
F render		T resize	
F resize		T unscript	
F showtree		<b>processouter</b>	function

## node (basic tex)

**check\_discretionaries** function  
**check\_discretionary** function  
**copy** function  
**copy\_list** function  
**count** function  
**current\_attr** function  
**dimensions** function  
**direct** table

F check\_discretionaries  
F check\_discretionary  
F copy  
F copy\_list  
F count  
F current\_attr  
F dimensions  
F effective\_glue  
F end\_of\_math  
F find\_attribute  
F first\_glyph  
F flush\_list  
F flush\_node  
F flush\_properties\_table  
F free  
F get\_attribute  
F get\_properties\_table  
F getattributelist  
F getboth  
F getbox  
F getchar  
F getcomponents  
F getdepth  
F getdir  
F getdisc  
F getfield  
F getfont  
F getglue  
F getheight  
F getid  
F getkern  
F getlang  
F getleader

F getlist  
F getnext  
F getnucleus  
F getoffsets  
F getpenalty  
F getprev  
F getproperty  
F getshift  
F getsub  
F getsubtype  
F getsup  
F getwhd  
F getwidth  
F has\_attribute  
F has\_field  
F has\_glyph  
F hpack  
F insert\_after  
F insert\_before  
F is\_char  
F is\_direct  
F is\_glyph  
F is\_node  
F is\_zero\_glue  
F kerning  
F last\_node  
F length  
F ligaturing  
F new  
F protect\_glyph  
F protect\_glyphs  
F protrusion\_skippable  
F rangedimensions  
F remove  
F set\_attribute  
F set\_properties\_mode  
F setattributelist  
F setboth  
F setbox  
F setchar  
F setcomponents



F setdepth		<b>flush_list</b>	function
F setdir		<b>flush_node</b>	function
F setdisc		<b>flush_properties_table</b>	function
F setfield		<b>free</b>	function
F setfont		<b>get_attribute</b>	function
F setglue		<b>get_properties_table</b>	function
F setheight		<b>getboth</b>	function
F setkern		<b>getchar</b>	function
F setlang		<b>getdisc</b>	function
F setleader		<b>getfield</b>	function
F setlink		<b>getfont</b>	function
F setlist		<b>getglue</b>	function
F setnext		<b>getid</b>	function
F setnucleus		<b>getleader</b>	function
F setoffsets		<b>getlist</b>	function
F setpenalty		<b>getnext</b>	function
F setprev		<b>getprev</b>	function
F setproperty		<b>getproperty</b>	function
F setshift		<b>getsubtype</b>	function
F setsplit		<b>getwhd</b>	function
F setsub		<b>has_attribute</b>	function
F setsubtype		<b>has_field</b>	function
F setup		<b>has_glyph</b>	function
F setwhd		<b>hpack</b>	function
F setwidth		<b>id</b>	function
F slide		<b>insert_after</b>	function
F tail		<b>insert_before</b>	function
F todirect		<b>is_char</b>	function
F tonode		<b>is_glyph</b>	function
F tostring		<b>is_node</b>	function
F traverse		<b>is_zero_glue</b>	function
F traverse_char		<b>kerning</b>	function
F traverse_id		<b>last_node</b>	function
F unprotect_glyphs		<b>length</b>	function
F unset_attribute		<b>ligaturing</b>	function
F usedlist		<b>mlist_to_hlist</b>	function
F vpack		<b>new</b>	function
F write		<b>next</b>	function
<b>effective_glue</b>	function	<b>prev</b>	function
<b>end_of_math</b>	function	<b>protect_glyph</b>	function
<b>family_font</b>	function	<b>protect_glyphs</b>	function
<b>fields</b>	function	<b>protrusion_skippable</b>	function
<b>find_attribute</b>	function	<b>rangedimensions</b>	function
<b>first_glyph</b>	function	<b>remove</b>	function

<b>set_attribute</b>	function	<b>traverse</b>	function
<b>set_properties_mode</b>	function	<b>traverse_char</b>	function
<b>setfield</b>	function	<b>traverse_id</b>	function
<b>setglue</b>	function	<b>type</b>	function
<b>setproperty</b>	function	<b>types</b>	function
<b>setwhd</b>	function	<b>unprotect_glyphs</b>	function
<b>slide</b>	function	<b>unset_attribute</b>	function
<b>subtype</b>	function	<b>usedlist</b>	function
<b>subtypes</b>	function	<b>vpack</b>	function
<b>tail</b>	function	<b>whatsits</b>	function
<b>tostring</b>	function	<b>write</b>	function

# nodes (context)

<b>accentcodes</b>	data table	<b>fields</b>	function
<b>aligned</b>	function	<b>fillcodes</b>	data table
<b>append</b>	function	<b>find_attribute</b>	function
<b>apply</b>	function	<b>first_glyph</b>	function
<b>astable</b>	function	<b>firstcharacter</b>	function
<b>basepoints</b>	function	<b>firstcharinbox</b>	function
<b>boundarycodes</b>	data table	<b>firstdirinbox</b>	function
<b>boxes</b>	table	<b>firstglyph</b>	function
F dimensions		<b>flush</b>	function
F direct		<b>flush_list</b>	function
F found		<b>flush_node</b>	function
F reset		<b>free</b>	function
F restore		<b>fullhpack</b>	function
F save		<b>getbox</b>	function
<b>builders</b>	table	<b>getchar</b>	function
F buildpage_filter		<b>getdisc</b>	function
F vpack_filter		<b>getfield</b>	function
<b>check_discretionaries</b>	function	<b>getfont</b>	function
<b>codes</b>	data table	<b>getglue</b>	function
<b>concat</b>	function	<b>getid</b>	function
<b>copy</b>	function	<b>getleader</b>	function
<b>copy_list</b>	function	<b>getlist</b>	function
<b>copy_node</b>	function	<b>getnext</b>	function
<b>count</b>	function	<b>getprev</b>	function
<b>countall</b>	function	<b>getsubtype</b>	function
<b>current_attr</b>	function	<b>getwhd</b>	function
<b>delete</b>	function	<b>gluecodes</b>	data table
<b>destinations</b>	table	<b>glyphcodes</b>	data table
N attribute		<b>glyphdir_is_equal</b>	data table
T done		<b>glyphdir_is_opposite</b>	data table
F handler		<b>glyphdir_is_orthogonal</b>	data table
T stack		<b>handlers</b>	table
<b>dimensionfields</b>	data table	F accessibility	
<b>dimensions</b>	function	F alignbackgrounds	
<b>dir_is_pop</b>	data table	F backgrounds	
<b>dir_negation</b>	data table	F characters	
<b>disccodes</b>	data table	F checkforleaks	
<b>discretionarycodes</b>	data table	F checkglyphs	
<b>effective_glue</b>	function	F cleanupbox	
<b>end_of_math</b>	function	F cleanuppage	
<b>fencecodes</b>	data table	F export	

F finalize		<b>isglyph</b>	function
F flatten		<b>kerncodes</b>	data table
F flattenline		<b>kerining</b>	function
F migrate		<b>keys</b>	table
F protectglyphs		T whatsit	
F stripping		<b>last_node</b>	function
F textbackgrounds		<b>leadercodes</b>	data table
F unprotectglyphs		<b>leftmarginwidth</b>	function
<b>has_attribute</b>	function	<b>length</b>	function
<b>has_field</b>	function	<b>ligaturing</b>	function
<b>has_glyph</b>	function	<b>linefillers</b>	table
<b>hpack</b>	function	D data	
<b>idstousing</b>	function	F define	
<b>ignorablefields</b>	data table	F enable	
<b>injections</b>	table	F handler	
F copy		<b>lines</b>	table
F getligaindex		T boxed	
F getthreshold		F register	
F handler		F setup	
F installnewkern		F stage_one	
F isspace		F stage_two	
F keepcounts		D data	
F reset		F finalize	
F resetcounts		F number	
F setcursive		N scratchbox	
F setkern		<b>link</b>	function
F setligaindex		<b>linked</b>	function
F setmark		<b>list</b>	function
F setpair		<b>listablefields</b>	data table
F setspacekerns		<b>listcodes</b>	data table
<b>insert_after</b>	function	<b>listtoutf</b>	function
<b>insert_before</b>	function	<b>load</b>	function
<b>insert_list_after</b>	function	<b>locate</b>	function
<b>installattributehandler</b>	function	<b>margincodes</b>	data table
<b>is_char</b>	function	<b>marginkerncodes</b>	data table
<b>is_direct</b>	function	<b>markers</b>	table
<b>is_display_math</b>	function	F get	
<b>is_glyph</b>	function	<b>mathcodes</b>	data table
<b>is_mirrored</b>	data table	<b>maxboxwidth</b>	function
<b>is_node</b>	function	<b>mlist_to_hlist</b>	function
<b>is_nut</b>	function	<b>new</b>	function
<b>is_rotated</b>	data table	<b>noadcodes</b>	data table
<b>is_zero_glue</b>	function	<b>noadoptions</b>	table
<b>ischar</b>	function	N axis	

N exact		F getattributelist
N left		F getattrlist
N middle		F getboth
N no_axis		F getbox
N right		F getchar
N set		F getcomponents
N unused_1		F getdepth
N unused_2		F getdir
<b>nodecodes</b>	<b>data table</b>	F getdisc
<b>nopts</b>	<b>function</b>	F getdiscretionary
<b>nuts</b>	<b>table</b>	F getfield
F append		F getfont
F apply		F getglue
F applyvisuals		F getheight
F check_discretionaries		F getid
F concat		F getkern
F copy		F getlang
F copy_list		F getlanguage
F copy_no_components		F getleader
F copy_node		F getlist
F copy_only_glyphs		F getnext
F copy_properties		F getnucleus
F copyvisual		F getoffsets
F count		F getpenalty
F count_components		F getprev
F countall		F getprop
F current_attr		F getshift
F delete		F getsub
F dimensions		F getsubtype
F effective_glue		F getsup
F end_of_math		F getsurround
F find_attribute		F getwhd
F first_glyph		F getwidth
F firstcharacter		F has_attribute
F firstcharinbox		F has_field
F firstglyph		F has_glyph
F flush		F hpack
F flush_list		F insert_after
F flush_node		F insert_before
F free		F insert_list_after
F fullhpack		F is_char
F get_components		F is_direct
F getattr		F is_display_math
F getattribute		F is_glyph

F is_node	F pdfsave
F is_nut	F pdfsetmatrix
F is_zero_glue	F penalty
F ischar	F register
F isglyph	F rightmarginkern
F kerning	F rightskip
F last_node	F rule
F leftmarginwidth	F shrink
F length	F special
F ligaturing	F stretch
F link	F temp
F linked	F textdir
F locate	F usage
F mlist_to_hlist	F userattributes
F nestedtracedslide	T userids
F new	N margins.inline
T pool	N property
F baselineskip	N splitters.one
F boundary	N splitters.two
F cleanup	F userlist
F disc	F userlua
F emptyrule	F usernumber
F fontkern	F userrule
F glue	F userstring
F gluespec	F usertokens
F glyph	F vlist
F hlist	F wordboundary
F italicern	F prepend
F kern	F protect_glyph
F latelua	F protect_glyphs
F lateluafunction	F protrusion_skippable
F leftmarginkern	F rangedimensions
F leftskip	F rawprop
F lineskip	F reference
F negatedglue	F rehpack
F noad	F remove
F pdfannotation	F repackhlist
F pdfdestination	F replace
F pdfdirectliteral	F rightmarginwidth
F pdfliteral	F set_attribute
F pdforiginliteral	F set_components
F pdfpageliteral	F setattr
F pdfrawliteral	F setattribute
F pdfrestore	F setattributelist

F setattributes  
 F setattrlist  
 F setboth  
 F setbox  
 F setchar  
 F setcomponents  
 F setdepth  
 F setdir  
 F setdisc  
 F setdiscretionary  
 F setfield  
 F setfont  
 F setglue  
 F setheight  
 F setkern  
 F setlang  
 F setlanguage  
 F setleader  
 F setlink  
 F setlist  
 F setnext  
 F setnucleus  
 F setoffsets  
 F setpenalty  
 F setprev  
 F setprop  
 F setshift  
 F setsplit  
 F setsub  
 F setsubtype  
 F setup  
 F setsurround  
 F setunsetattributes  
 F setvisual  
 F setvisuals  
 F setwhd  
 F setwidth  
 F slide  
 F somepenalty  
 F somespace  
 F splitbox  
 F tail  
 F take\_components  
 F takeattr

F takebox  
 F takelist  
 F theprop  
 F tonode  
 F tonodes  
 F tonut  
 F tosequence  
 F tostring  
 F tracedslide  
 F traverse  
 F traverse\_char  
 F traverse\_id  
 T typesetters  
 F tohbox  
 F tohpack  
 F tonodes  
 F tovbox  
 F tovpack  
 F unprotect\_glyphs  
 F unset\_attribute  
 F unsetattribute  
 F unsetattributes  
 F untracedslide  
 F use\_components  
 F usedlist  
 F vianodes  
 F vianuts  
 F vpack  
 F write

**packlist**  
**pardir\_is\_equal**  
**pardir\_is\_opposite**  
**pardir\_is\_parallel**  
**partextdir\_is\_equal**  
**penaltycodes**  
**plugindata**

F finalizer  
 F initializer  
 S name  
 T namespace  
 N attribute  
 D data  
 F enable  
 F handler

function  
 data table  
 data table  
 data table  
 data table  
 data table  
 table

F register		<b>protect_glyph</b>	function
D registered		<b>protect_glyphs</b>	function
D values		<b>protrusion_skippable</b>	function
F processor		<b>pts</b>	function
<b>points</b>	function	<b>radicalcodes</b>	data table
<b>pool</b>	table	<b>rangedimensions</b>	function
F baselineskip		<b>reference</b>	function
F cleanup		<b>references</b>	table
F glyph		N attribute	
F hlist		T done	
F kern		F handler	
F latelua		T stack	
F lineskip		<b>rehpack</b>	function
F pdfdirect		<b>remove</b>	function
F pdfliteral		<b>repackhlist</b>	function
F pdforiginliteral		<b>replace</b>	function
F pdfrestore		<b>report</b>	function
F pdfsave		<b>rightmarginwidth</b>	function
F pdfsetmatrix		<b>rulecodes</b>	data table
F register		<b>rules</b>	table
F rule		D data	
F special		F define	
F usage		F enable	
F usernumber		F handler	
F vlist		T ruleactions	
<b>prepend</b>	function	F draw	
<b>print</b>	function	F fill	
<b>processors</b>	table	F mp	
F contribute_filter		F stroke	
B enabled		F userrule	
F hpack_filter		<b>save</b>	function
F post_linebreak_filter		<b>serialize</b>	function
F pre_linebreak_filter		<b>serializebox</b>	function
F tracer		<b>set_attribute</b>	function
<b>processranges</b>	function	<b>setattributes</b>	function
<b>processwords</b>	function	<b>setboth</b>	function
<b>properties</b>	table	<b>setbox</b>	function
T actions		<b>setboxtonaturalwd</b>	function
F delayed		<b>setfield</b>	function
F fdelayed		<b>setglue</b>	function
F immediate		<b>setlink</b>	function
F attach		<b>setlist</b>	function
T data		<b>setnext</b>	function
F delayed		<b>setprev</b>	function



<b>setunsetattributes</b>	function	F setaction	
<b>setwhd</b>	function	F showactions	
<b>shifts</b>	table	F table	
D data			<b>textdir_is_equal</b> data table
F define			<b>textdir_is_is</b> data table
F enable			<b>textdir_is_opposite</b> data table
F handler			<b>textdir_is_parallel</b> data table
<b>show</b>	function		<b>tobasepoints</b> function
<b>showboxes</b>	function		<b>tocentimeters</b> function
<b>showcodes</b>	function		<b>tociceros</b> function
<b>showlist</b>	function		<b>todidots</b> function
<b>showsimplelist</b>	function		<b>todimen</b> function
<b>skipcodes</b>	data table		<b>toinches</b> function
<b>slide</b>	function		<b>tomillimeters</b> function
<b>snapshots</b>	table		<b>tonewciceros</b> function
F getparameters			<b>tonewdidots</b> function
F getsamples			<b>tonode</b> function
F resetsamples			<b>tonodes</b> function
F takesample			<b>tonut</b> function
<b>somepenalty</b>	function		<b>topicsas</b> function
<b>somespace</b>	function		<b>topoints</b> function
<b>splitbox</b>	function		<b>toscaledpoints</b> function
<b>stripdiscretionaries</b>	function		<b>tosequence</b> function
<b>stripping</b>	table		<b>tostring</b> function
T glyphs			<b>totable</b> function
F set			<b>totree</b> function
<b>striprange</b>	function		<b>toutf</b> function
<b>tail</b>	function		<b>tracers</b> table
<b>takeattr</b>	function	T characters	
<b>takebox</b>	function	F collect	
<b>tasks</b>	table	F equal	
F actions		F start	
F appendaction		F string	
F disableaction		F unicodes	
F disablegroup		T colors	
F enableaction		F reset	
F enablegroup		F set	
F freeze		F setlist	
F freezegroup		F fontchar	
F new		T frequencies	
F prependaction		F register	
F removeaction		T pool	
F replaceaction		T nodes	
F restart		F rule	

T nuts		F hbox	
F rule		F hpack	
F resetproperties		F tohbox	
F rule		F tohpack	
F setlist		F tonodes	
F setproperties		F tovbox	
F start		F tovpack	
T steppers		F vpack	
F check		<b>unprotect_glyphs</b>	function
F codes		<b>unset_attribute</b>	function
F features		<b>unsetattribute</b>	function
F font		<b>unsetattributes</b>	function
F glyphs		<b>usedlist</b>	function
F message		<b>usercodes</b>	data table
F messages		<b>vianodes</b>	function
F nofsteps		<b>vianuts</b>	function
F register		<b>visualizebox</b>	function
F reset		<b>visualizers</b>	table
F start		F box	
F stop		F handler	
F stop		F markfonts	
T transparencies		F setfont	
F reset		F setlayer	
F set		F setvisual	
F setlist		<b>vpack</b>	function
<b>traverse</b>	function	<b>whatcodes</b>	data table
<b>traverse_char</b>	function	<b>whatsitcodes</b>	data table
<b>traverse_id</b>	function	<b>write</b>	function
<b>typesetters</b>	table		

## number (context)

	function		
<b>basepoints</b>	function	<b>tobasepoints</b>	function
<b>bit</b>	function	<b>tobitstring</b>	function
<b>bits</b>	function	<b>tocentimeters</b>	function
<b>bytetodecimal</b>	function	<b>toxiceros</b>	function
<b>clearbit</b>	function	<b>tocontext</b>	function
<b>decimaltobyte</b>	function	<b>todidots</b>	function
<b>dimenfactors</b>	data table	<b>todimen</b>	function
<b>formatted</b>	function	<b>toevenhex</b>	function
<b>formattedfloat</b>	function	<b>toinches</b>	function
<b>hasbit</b>	function	<b>tomillimeters</b>	function
<b>maxdimen</b>	number	<b>tonewciceros</b>	function
<b>nopts</b>	function	<b>tonewdidots</b>	function
<b>percent</b>	function	<b>tonumberf</b>	function
<b>points</b>	function	<b>tonumberg</b>	function
<b>pts</b>	function	<b>topicas</b>	function
<b>setbit</b>	function	<b>topoints</b>	function
<b>signed</b>	function	<b>toscaled</b>	function
<b>sparseexponent</b>	function	<b>toscaledpoints</b>	function
<b>splitdimen</b>	function	<b>toset</b>	function
		<b>valid</b>	function

## objects (context)

<b>data</b>	table	<b>page</b>	function
<b>dimensions</b>	function	<b>reference</b>	function
<b>found</b>	function	<b>register</b>	function
<b>n</b>	number	<b>restore</b>	function

## os (basic lua)

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

## package (basic lua)

<b>config</b>	string	<b>loaders</b>	table
<b>cpath</b>	string	<b>loadlib</b>	function
<b>extralibpath</b>	function	<b>luapaths</b>	function
<b>extralibpaths</b>	function	<b>path</b>	string
<b>extralupath</b>	function	<b>preload</b>	table
<b>extralupaths</b>	function	<b>searchers</b>	table
<b>helpers</b>	table	<b>searchpath</b>	function
<b>libpaths</b>	function	<b>seeall</b>	function
<b>loaded</b>	table		

# pagebuilders (context)

## columnsets      table

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

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

## injections      table

- F flushafter
- F flushbefore
- F save

## mixedcolumns      table

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

## pdf (basic tex)

<b>fontname</b>	function	<b>immediateobj</b>	function
<b>fontobjnum</b>	function	<b>mapfile</b>	function
<b>fontsize</b>	function	<b>mapline</b>	function
<b>getcatalg</b>	function	<b>maxobjnum</b>	function
<b>getcompresslevel</b>	function	<b>newcolorstack</b>	function
<b>getcreationdate</b>	function	<b>obj</b>	function
<b>getdecimaldigits</b>	function	<b>objtype</b>	function
<b>getdestmargin</b>	function	<b>pageref</b>	function
<b>getgentounicode</b>	function	<b>print</b>	function
<b>gethpos</b>	function	<b>refobj</b>	function
<b>getignoreunknownimages</b>	function	<b>registerannot</b>	overloaded function
<b>getimageresolution</b>	function	<b>reserveobj</b>	function
<b>getinclusionerrorlevel</b>	function	<b>setcatalg</b>	overloaded function
<b>getinfo</b>	function	<b>setcompresslevel</b>	function
<b>getlastannot</b>	function	<b>setdecimaldigits</b>	function
<b>getlastlink</b>	function	<b>setdestmargin</b>	function
<b>getlastobj</b>	function	<b>setfontattributes</b>	function
<b>getlinkmargin</b>	function	<b>setgentounicode</b>	function
<b>getmajorversion</b>	function	<b>setignoreunknownimages</b>	function
<b>getmatrix</b>	function	<b>setimageresolution</b>	function
<b>getminorversion</b>	function	<b>setinclusionerrorlevel</b>	function
<b>getnames</b>	function	<b>setinfo</b>	overloaded function
<b>getobjcompresslevel</b>	function	<b>setlinkmargin</b>	function
<b>getomitcidset</b>	function	<b>setmajorversion</b>	function
<b>getorigin</b>	function	<b>setminorversion</b>	function
<b>getpageattributes</b>	function	<b>setnames</b>	overloaded function
<b>getpageresources</b>	function	<b>setobjcompresslevel</b>	function
<b>getpagesattributes</b>	function	<b>setomitcidset</b>	function
<b>getpkresolution</b>	function	<b>setorigin</b>	function
<b>getpos</b>	function	<b>setpageattributes</b>	overloaded function
<b>getretval</b>	function	<b>setpageresources</b>	overloaded function
<b>getsuppressoptionalinfo</b>	function	<b>setpagesattributes</b>	overloaded function
<b>getthreadmargin</b>	function	<b>setpkresolution</b>	function
<b>gettrailer</b>	function	<b>setsuppressoptionalinfo</b>	function
<b>gettrailerid</b>	function	<b>setthreadmargin</b>	function
<b>getversion</b>	function	<b>settrailer</b>	overloaded function
<b>getvpos</b>	function	<b>settrailerid</b>	function
<b>getxformattributes</b>	function	<b>setxformattributes</b>	function
<b>getxformmargin</b>	function	<b>setxformmargin</b>	function
<b>getxformresources</b>	function	<b>setxformresources</b>	function
<b>hasmatrix</b>	function	<b>xformname</b>	function



# pdfscanner (context)

**scan** function

# physics (context)

**units** table

F registerunit

D tables

# publications (context)

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

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

F fetchentries		<b>okay</b>	function
F filterall		<b>oneorange</b>	function
F flushcombi		<b>parenttag</b>	function
F flushentry		<b>permitted</b>	function
T methods		<b>refman_to_btx</b>	function
F dataset		<b>resolvedname</b>	function
F force		<b>save</b>	function
F global		<b>search</b>	function
F local		<b>setcategory</b>	function
F nofreeregistered		<b>setspecification</b>	function
F prepareentries		<b>singularorplural</b>	function
F register		<b>sortedentries</b>	function
F sameasprevious		<b>sortmethods</b>	table
T sorters		T authoryear	
F cite		T sequence	
F dataset		<b>specifications</b>	table
F default		T default	
F index		S author	
F list		S comment	
F reference		S copyright	
F short		S name	
F used		S version	
F uservariable		D virtual	
<b>listvariants</b>	table	<b>splitauthor</b>	function
F default		<b>splitoneauthor</b>	function
F index		<b>statistics</b>	table
F num		N nofbytes	
F page		N nofdatasets	
F short		N nofdefinitions	
F tag		N nofshortcuts	
<b>load</b>	function	<b>tables</b>	table
<b>loadbibdata</b>	function	D implicits	
<b>loaddefinitionfile</b>	function	D origins	
<b>loaders</b>	table	D privates	
F bbl		D sets	
F bib		D specials	
F buffer		D types	
F endnote		D virtuals	
F lua		<b>tags</b>	function
F refman		<b>tracers</b>	table
F registercleaner		F showdatasetauthors	
F xml		F showdatasetcompleteness	
<b>loadreplacementfile</b>	function	F showdatasetfields	
<b>new</b>	function	F showentry	

F showfields		<b>usedataset</b>	function
F showhashedauthors		<b>usedentries</b>	function
F showtables		<b>writers</b>	table
F showvariants		F author	
<b>typesetters</b>	table	F keyword	
F author		F pagenumber	
F string		F range	

## regimes (context)

<b>cleanup</b>	function
<b>disable</b>	function
<b>enable</b>	function
<b>fromregime</b>	function
<b>pop</b>	function

<b>process</b>	function
<b>push</b>	function
<b>toregime</b>	function
<b>translate</b>	function

## resolvers (context)

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



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

<b>unexpandedpathlist</b>	function	<b>usezipfile</b>	function
<b>unresolve</b>	function	<b>validatedpath</b>	function
<b>updaterelations</b>	function	<b>variable</b>	function
<b>updatescript</b>	function	<b>variableofformat</b>	function
<b>uselibrary</b>	function	<b>variableofformatorsuffix</b>	function
<b>usertypes</b>	data table	<b>wildcardpattern</b>	function

## sandbox (context)

<b>disablelibraries</b>	function
<b>disablerunners</b>	function
<b>enable</b>	function
<b>filehandlerone</b>	function
<b>filehandlertwo</b>	function
<b>finalizer</b>	function
<b>initializer</b>	function
<b>iohandler</b>	function
<b>logcalls</b>	function
<b>logfiles</b>	function
<b>original</b>	function
<b>overload</b>	function
<b>possiblepath</b>	function

<b>redefine</b>	function
<b>register</b>	function
<b>registerbinary</b>	function
<b>registerlibrary</b>	function
<b>registerroot</b>	function
<b>registerrunner</b>	function
<b>report</b>	function
<b>setfilenamelogger</b>	function
<b>setlogger</b>	function
<b>setreporter</b>	function
<b>settrace</b>	function
<b>validfilename</b>	function

# scripts (context)

<b>autofontfeature</b>	table	N inter_char_stretch_factor
F disable		N inter_word_stretch_factor
F enable		<b>handlers</b>
F handler		data table
<b>categorytonumber</b>	data table	<b>hash</b>
<b>colors</b>	data table	table
<b>decomposehangul</b>	function	<b>injectors</b>
<b>defaults</b>	table	data table
N inter_char_half_shrink_factor		<b>installdataset</b>
N inter_char_half_stretch_factor		function
N inter_char_hangul_penalty		<b>installmethod</b>
N inter_char_quarter_shrink_factor		function
N inter_char_quarter_stretch_factor		<b>numbertocategory</b>
N inter_char_shrink_factor		data table
		<b>numbertodataset</b>
		data table
		<b>numbertohandler</b>
		data table
		<b>reset</b>
		function
		<b>set</b>
		function
		<b>splitters</b>
		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  
 S received-from-mta  
 S references  
 S referer  
 S remote-mta  
 S reply-to  
 S reporting-mta  
 S resent-bcc  
 S resent-cc  
 S resent-date  
 S resent-from  
 S resent-message-id  
 S resent-reply-to  
 S resent-sender  
 S resent-to  
 S retry-after  
 S return-path  
 S sender  
 S server  
 S smtp-remote-recipient  
 S status  
 S subject  
 S te  
 S to  
 S trailer  
 S transfer-encoding  
 S upgrade  
 S user-agent  
 S vary  
 S via  
 S warning  
 S will-retry-until  
 S www-authenticate  
 S x-mailer

**http**      **table**

N PORT  
 N TIMEOUT  
 S USERAGENT  
 F open  
 F request

**newtry**      **function**

**protect**      **function**  
**select**      **function**  
**sink**      **function**  
**sinkt**      **table**

F close-when-done  
 F default  
 F http-chunked  
 F keep-open

**skip**      **function**  
**sleep**      **function**  
**smtp**      **table**

S DOMAIN  
 N PORT  
 S SERVER  
 N TIMEOUT  
 S ZONE  
 F message  
 F open  
 F send

**source**      **function**  
**sourcet**      **table**

F by-length  
 F default  
 F http-chunked  
 F until-closed

**tcp**      **function**  
**tcp6**      **function**  
**tp**      **table**

N TIMEOUT  
 F connect

**try**      **function**  
**udp**      **function**  
**udp6**      **function**  
**url**      **table**

F absolute  
 F build  
 F build\_path  
 F escape  
 F parse  
 F parse\_path  
 F unescape

# sorters (context)

**basicsorter**      function

**comparers**        table

    F basic

**constants**        table

    S defaultdigits

    S defaultlanguage

    S defaultmethod

    N digitmaximum

    N digitoffset

    N ignoredoffset

    N replacementoffset

    T validmethods

        B ch

        B mc

        B mm

        B pc

    B pm

    B uc

    B zc

    B zm

**definitions**      data table

**firstofsplit**     function

**packch**            function

**packuc**            function

**setlanguage**      function

**sort**                function

**splitters**         table

    F utf

**strip**              function

**tracers**           data table

**update**            function



## statistics (context)

<b>checkfmtstatus</b>	function
<b>elapsed</b>	function
<b>elapsedindeed</b>	function
<b>elapsedseconds</b>	function
<b>elapsedtime</b>	function
<b>enable</b>	boolean
<b>formatruntime</b>	function
<b>hastiming</b>	function
<b>memused</b>	function
<b>register</b>	function

<b>resettiming</b>	function
<b>runtime</b>	function
<b>savefmtstatus</b>	function
<b>show</b>	function
<b>starttiming</b>	function
<b>stoptiming</b>	function
<b>threshold</b>	number
<b>timed</b>	function
<b>tracefunction</b>	function

## status (basic tex)

**list**                    function

**resetmessages**    function

## storage (context)

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

## streams (context)

<b>collect</b>	function
<b>disable</b>	function
<b>enable</b>	function
<b>flush</b>	function
<b>initialize</b>	function

<b>push</b>	function
<b>start</b>	function
<b>stop</b>	function
<b>synchronize</b>	function

## string (basic lua)

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

# structures (context)

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

D data		F savedlistnumber	
F define		F savedlistprefixednumber	
F getdata		F savedlisttitle	
F getlocation		D sectionblocks	
F getname		F sectionnumber	
F getnumber		F size	
F setlocation		F title	
F setup		D tobесaved	
D stored		F userdata	
		F uservalue	
<b>itemgroups</b>	<b>table</b>	<b>marks</b>	<b>table</b>
<b>lists</b>	<b>table</b>		
F addto		D data	
F analyze		F define	
B autoreorder		F exists	
D cached		F fetch	
D collected		F fetchallmarks	
F discard		F fetched	
F enhance		F fetchonemark	
T enhancers		F fetchtwomarks	
F filter		F get	
F formulainumber		F number	
F getresult		F relate	
F groupindex		F reset	
F hasnumberdata		F set	
F haspagedata		F show	
F hastitledata		F synchronize	
F iscached		F title	
D kinds		T tracers	
F label		F showtable	
F location		<b>notes</b>	<b>table</b>
D names		F check_spacing	
F number		F checkpagechange	
D ordered		F define	
F page		F doifonsamepageasprevious	
F popnesting		F get	
F prefix		F getdeltapage	
F prefixednumber		F getinternal	
F prefixedpage		F getn	
F process		F getstate	
D pushed		F hascontent	
F pushnesting		F internal	
F realpage		F internalid	
F reordered		F listindex	
T result		T numbers	

- F ordered
- F postpone
- F resetpostponed
- F restore
- F save
- F setstate
- D states
- F store

## pages

- F analyze
- D collected
- F in\_body
- F is\_odd
- N nopages
- F number
- F on\_right
- F save
- D tobesaved

## references

- F analyze
- F checkedfile
- F checkedfileorurl
- F checkedprogram
- F checkedrealpage
- F checkedurl
- D collected
- U componentsplitter
- F currentmetadata
- F currentorder
- D currentset
- F define
- D defined
- D derived
- F enableinteraction
- F enhance
- D executers
- F expandcurrent
- F export
- T files
- T data
- F define
- F found
- F get
- F filter

## table

## table

- F filterdefault
- D filters
- D flaginternals
- F from
- D functions
- F get
- F getcurrentmetadata
- F getcurrentprefixspec
- F getinnermethod
- F getinternalcachedlistreference
- F getinternallistreference
- F getinternalreference
- D handlers
- F identify
- F import
- F inject
- F injectcurrentset
- S innermethod
- D internals
- F load
- F loadpresets
- F mark
- D pages
- U prefixsplitter
- D productdata
- T programs
- T data
- F define
- F get
- F realpageofpage
- U referencesplitter
- D referred
- F referredpage
- F registerfinalizer
- F registerinitializer
- F registerpage
- F reportproblems
- F reset
- D runners
- F set
- F setandgetattribute
- F setcomponent
- F setinnermethod
- F setinternalreference



- F setnextinternal
- F setnextorder
- F setreferencerealpage
- D specials
- F splitcomponent
- F splitprefix
- F splitreference
- F synchronizepage
- T testrunners
  - F inner
  - F special
  - F special operation
  - F special operation with arguments
- T testspecials
  - F deltapage
  - F i
  - F internal
  - F page
  - F realpage
  - F section
  - F userpage
- D tobereferred
- D tobesaved
- D tracedpages
- T urls
  - T data
  - F define
  - F found
  - F get
  - F untex
- D usedinternals
- D usedviews
- F valid

## registers

- F analyze
- D collected
- F compare
- F define
- F enhance
- F extend
- F filter
- F filtercollected
- F finalize
- F findinternal

## table

- F flush
- F get
- F prepare
- F process
- F setmethod
- F sort
- F store
- D tobosaved
- F unique
- F userdata

## sections

## table

- F autodepth
- F cct
- D collected
- F current
- F currentblock
- F currentid
- F currentlevel
- F currentsectionindex
- F depthnumber
- F finddata
- F findnumber
- F fullnumber
- F getcurrentlevel
- F getlevel
- F getnumber
- F internalreference
- D levelmap
- D levels
- F load
- F matchingtilldepth
- F numberatdepth
- F numbers
- F popblock
- F prefixedconverted
- F pushblock
- F register
- D registered
- F reportstructure
- F save
- T sectionblockdata
  - T bodypart
    - S bookmark
- F set

F setblock		D tobesaved	
F setchecker		<b>tags</b>	<b>table</b>
F setentry		F elementtag	
F setinitialblock		F finishexport	
F setlevel		F getid	
F setnumber		F handler	
F structuredata		D labels	
F title		F last	
D tobesaved		F lastinchain	
F typesetnumber		F locatedtag	
F userdata		T patterns	
B verbose		U splitter	
<b>sets</b>	<b>table</b>	D properties	
F define		F registermetadata	
F get		F restart	
F getall		F setaspect	
D setlist		F setattributefield	
<b>specials</b>	<b>table</b>	F setcombination	
D collected		F setfigure	
F retrieve		F sethighlight	
F store		F setitem	
D tobesaved		F setitemgroup	
<b>synonyms</b>	<b>table</b>	F setlist	
F analyzed		F setnotation	
D collected		F setnotationsymbol	
F compare		F setproperty	
F define		F setregister	
F filter		F setsorting	
F finalize		F setsynonym	
F flush		F settablecell	
F isshown		F settabulatecell	
F isused		F settagdelimitedsymbol	
F meaning		F settagsubsentencesymbol	
F prepare		F setupexport	
F process		F setuserproperties	
F register		D specifications	
F registershown		F start	
F registerused		F stop	
F resetshown		F strip	
F resetused		D taglist	
F sort		T usewithcare	
F synonym		T images	

## table (basic lua)

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

## tex (basic tex)

<b>attribute</b>	table	<b>gettoks</b>	function
<b>badness</b>	function	<b>getuccode</b>	function
<b>box</b>	table	<b>glue</b>	table
<b>catcode</b>	table	<b>hashtokens</b>	function
<b>conditionals</b>	data table	<b>ifs</b>	data table
<b>constants</b>	data table	<b>inimatcodes</b>	number
<b>count</b>	table	<b>init_rand</b>	function
<b>cprint</b>	function	<b>isattribute</b>	function
<b>ctdcatcodes</b>	number	<b>isbox</b>	function
<b>ctxcatcodes</b>	number	<b>iscount</b>	overloaded function
<b>definefont</b>	function	<b>isdefined</b>	function
<b>delcode</b>	table	<b>isdimen</b>	overloaded function
<b>dimen</b>	table	<b>ismuskip</b>	overloaded function
<b>directives</b>	data table	<b>isskip</b>	overloaded function
<b>enableprimitives</b>	function	<b>istoken</b>	function
<b>error</b>	function	<b>istoks</b>	function
<b>extraprimitives</b>	function	<b>lccode</b>	table
<b>finish</b>	function	<b>linebreak</b>	function
<b>fontidentifier</b>	function	<b>lists</b>	table
<b>fontname</b>	function	<b>lua_math_random</b>	function
<b>fprint</b>	function	<b>lua_math_randomseed</b>	function
<b>get</b>	function	<b>luacatcodes</b>	number
<b>getattribute</b>	function	<b>mathcode</b>	table
<b>getbox</b>	function	<b>modes</b>	data table
<b>getboxresourcedimensions</b>	function	<b>muglue</b>	table
<b>getcatcode</b>	function	<b>muskip</b>	table
<b>getcount</b>	function	<b>nest</b>	table
<b>getdelcode</b>	function	<b>nilcatcodes</b>	number
<b>getdelcodes</b>	function	<b>normal_rand</b>	function
<b>getdimen</b>	function	<b>notcatcodes</b>	number
<b>getglue</b>	function	<b>number</b>	function
<b>getlccode</b>	function	<b>primitives</b>	function
<b>getlist</b>	function	<b>print</b>	function
<b>getmath</b>	function	<b>prtcacodes</b>	number
<b>getmathcode</b>	function	<b>resetparagraph</b>	function
<b>getmathcodes</b>	function	<b>romannumeral</b>	function
<b>getmuglue</b>	function	<b>round</b>	function
<b>getmuskip</b>	function	<b>run</b>	function
<b>getnest</b>	function	<b>saveboxresource</b>	function
<b>getsfcode</b>	function	<b>scale</b>	function
<b>getskip</b>	function	<b>scantoks</b>	function

<b>set</b>	function	<b>skip</b>	table
<b>setattribute</b>	function	<b>sp</b>	function
<b>setbox</b>	function	<b>splitbox</b>	function
<b>setcatcode</b>	function	<b>sprint</b>	function
<b>setcount</b>	function	<b>systemmodes</b>	data table
<b>setdelcode</b>	function	<b>takebox</b>	function
<b>setdimen</b>	function	<b>texcatcodes</b>	number
<b>setglue</b>	function	<b>toks</b>	table
<b>setlccode</b>	function	<b>tpacatcodes</b>	number
<b>setlist</b>	function	<b>tpbcatcodes</b>	number
<b>setmath</b>	function	<b>tprint</b>	function
<b>setmathcode</b>	function	<b>trackers</b>	data table
<b>setmuglue</b>	function	<b>triggerbuildpage</b>	function
<b>setmuskip</b>	function	<b>txtcatcodes</b>	number
<b>setnest</b>	function	<b>type</b>	function
<b>setsfcode</b>	function	<b>uccode</b>	table
<b>setskip</b>	function	<b>uniform_rand</b>	function
<b>settoks</b>	function	<b>uniformdeviate</b>	function
<b>setuccode</b>	function	<b>uprint</b>	function
<b>sfcode</b>	table	<b>useboxresource</b>	function
<b>shipout</b>	function	<b>vrbcacodes</b>	number
<b>show_context</b>	function	<b>write</b>	function

## texconfig (basic tex)

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

## texio (basic tex)

**setescape** function  
**write** function

**write\_nl** function

## token (basic tex)

<b>create</b>	function	<b>is_token</b>	function
<b>get_active</b>	function	<b>put_next</b>	function
<b>get_cmdname</b>	function	<b>scan_code</b>	function
<b>get_command</b>	function	<b>scan_csname</b>	function
<b>get_csname</b>	function	<b>scan_dimen</b>	function
<b>get_expandable</b>	function	<b>scan_glue</b>	function
<b>get_id</b>	function	<b>scan_int</b>	function
<b>get_index</b>	function	<b>scan_keyword</b>	function
<b>get_macro</b>	function	<b>scan_string</b>	function
<b>get_meaning</b>	function	<b>scan_token</b>	function
<b>get_mode</b>	function	<b>scan_toks</b>	function
<b>get_next</b>	function	<b>scan_word</b>	function
<b>get_protected</b>	function	<b>set_macro</b>	function
<b>get_tok</b>	function	<b>type</b>	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

**constant**    function

**converters** table

S toboolean  
S todimen  
S toglue  
S tonumber  
S tostring

**defined**      function  
**egroup**      userdata  
**getters**      table

F box  
F count  
F dimen  
F glue  
F macro  
F meaning  
F skip  
F token

**hbox**        userdata

**istoken**      function

**letter**      function

**letters**      function

**other**        function

**pickup**      function

**printlist**    function

**scanners**    table

F boolean  
F code  
F conditional  
F count  
F csname  
F dimen  
F dimension  
F glue  
F integer  
F keyword  
F list  
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 glue  
F macro  
F skip

## shortcuts table

T bits  
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  
N close  
F inspect  
N open  
F report  
F scanboolean  
F scanclose  
F scancode  
F scanconditional  
F scanscname  
F scandimen  
F scandimension  
F scaninteger  
F scankeyword  
F scanlist  
T scanners

F boolean  
F code  
F conditional  
F count  
F csname  
F dimen  
F dimension  
F glue  
F integer  
F keyword  
F list  
F lxmlid  
F number  
F scanclose  
F scanopen  
F skip  
F string  
F token  
F tokens  
F toks  
F word  
F scannumber  
F scanopen  
F scanstring  
F scanword  
F toboolean  
F todimen  
T tokens  
F astable  
U bgroup  
T collectors  
F defaultwords  
F dowithwords  
F flush  
F install  
F register  
F show  
F test  
F compile  
F constant  
T converters  
S toboolean  
S todimen  
S toglue

S tonumber	N close	
S toString	F inspect	
F defined	N open	
U egroup	F report	
T getters	F scanboolean	
F box	F scanclose	
F count	F scancode	
F dimen	F scanconditional	
F glue	F scanscname	
F macro	F scandimen	
F meaning	F scandimension	
F skip	F scaninteger	
F token	F scankeyword	
U hbox	F scanlist	
F istoken	F scannumber	
F letter	F scanopen	
F letters	F scanstring	
F other	F scanword	
F pickup	F toboolean	
F printlist	F todimen	
F scantable	F tonumber	
T setters	F toString	
F box	U vbox	
F count	U vtop	
F dimen	F tonumber	
F glue	F toString	
F macro	<b>vbox</b>	userdata
F skip	<b>vtop</b>	userdata
T shortcuts		

# tracers (context)

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

## trackers (context)

<b>data</b>	data table	<b>register</b>	function
<b>default</b>	function	<b>report</b>	function
<b>disable</b>	function	<b>reset</b>	function
<b>dumphashtofile</b>	function	<b>savehash</b>	function
<b>enable</b>	function	<b>show</b>	function
<b>list</b>	function	<b>value</b>	function
<b>name</b>	string		

# typesetters (context)

<b>alignments</b>	table		
F handler			T handlers
F set			F installhandler
<b>breakpoints</b>	table		F processmath
F define			F set
F handler			F setcolor
D mapping			F setmath
T methods			F tomode
T numbers			<b>firstlines</b>
F set			table
F setreplacement			T actions
<b>cases</b>	table		F default
T actions			F line
F handler			F word
F register			F handler
F set			F set
<b>characteralign</b>	table		<b>fontkerns</b>
F handler			table
F resetcharacteralign			F handler
F setcharacteralign			<b>initials</b>
<b>characters</b>	table		table
F handler			T actions
T methods			F default
F replacenbsp			F addanchortoline
F replacenbspaces			F addtoline
<b>checkers</b>	table		F calculatedelta
F handler			F checkline
F reset			F handler
F set			F moveinline
<b>cleaners</b>	table		F normalize
F handler			F set
F set			<b>injectors</b>
<b>digits</b>	table		table
T actions			F check
F handler			T list
F set			F mark
<b>directions</b>	table		F reset
F getfences			F set
F getglobal			F show
F getmethod			<b>italics</b>
F handler			table
			F enablemath
			F enabletext
			F forcevariant
			F handler
			F reset
			F set

## **kerns**                      table

D factors  
F handler  
F keepligature  
B keptogether  
D mapping  
F set

## **manipulators**            table

F apply  
F applyspecification  
T methods  
F Word  
F Words  
F abbreviatedjournal  
F expandedjournal  
F lowercase  
F stripperperiod  
F uppercase  
T patterns  
U list  
U pair  
F splitspecification

## **margins**                      table

F finalhandler  
F globalhandler  
F localhandler  
F save

## **marksuspects**            function

## **paragraphs**                table

F addanchortoline  
F addtoline  
F calculatedelta  
F checkline  
F handler  
F moveinline  
F normalize  
F set

## **processors**                table

F apply  
F register

F reset  
F split  
F startapply  
F stopapply  
F stripped  
F toString

## **rubies**                      table

F attach  
F check

## **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  
F construct  
F create  
F finish\_row  
F flush  
F initialize\_construct  
F initialize\_reflow\_height  
F initialize\_reflow\_width  
F next\_row  
F reflow\_height  
F reflow\_width  
F set\_construct  
F set\_reflow\_height  
F set\_reflow\_width

# 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

## toutf32string function

## utf8 table

F byte  
F char  
F characters  
F chrln  
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 substituter  
F tocodes  
F toeight  
F toentities  
F tostring  
F totable  
F upper



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

## url (context)

<b>addscheme</b>	function
<b>barepath</b>	function
<b>construct</b>	function
<b>escape</b>	function
<b>filename</b>	function
<b>hashed</b>	function

<b>hascheme</b>	function
<b>query</b>	function
<b>split</b>	function
<b>toquery</b>	function
<b>unescapeget</b>	function

# utilities (context)

## debugger table

- F disable
- F enable
- F savestats
- F showstats
- F showtraceback

## files table

- F close
- F getposition
- F getsize
- F look
- F open
- F read2dot14
- F readbyte
- F readbytes
- F readbytetable
- F readcardinal
- F readcardinal1
- F readcardinal2
- F readcardinal2le
- F readcardinal3
- F readcardinal3le
- F readcardinal4
- F readcardinal4le
- F readchar
- F readfixed2
- F readfixed4
- F readinteger
- F readinteger1
- F readinteger2
- F readinteger2le
- F readinteger3
- F readinteger3le
- F readinteger4
- F readinteger4le
- F readsignedbyte
- F readstring
- F readtag
- F setposition
- F size
- F skip

- F skiplong
- F skipposition
- F skipshort
- F writebyte
- F writecardinal2
- F writecardinal4
- F writestring

## 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
- F registerfinalizer
- 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	B modern-light
F unpack	T modern-mono,modern-base-mono
N version	B modern-base-mono
<b>parsers</b>	B modern-mono
<b>table</b>	T modern-variable,latin-modern-variable-designsize,latin-modern-variable
F add_settings_to_array	B latin-modern-variable
F arguments_to_table	B latin-modern-variable-designsize
F array_to_string	B modern-variable
F csvsplitter	T modernvariable,modern-variable
F getparameters	B modern-variable
F groupedsplitat	B modernvariable
F hash_to_string	T modernvariablelight,modern-variable-light
T hashes	B modern-variable-light
T settings_to_set	B modernvariablelight
T max,fit,broad,auto	T serif,sans,mono
B auto	B mono
B broad	B sans
B fit	B serif
B max	T text,hidden,paper,page,leftpage,rightpage
T modern,latin-modern	B hidden
B latin-modern	B leftpage
B modern	T modern-condensed,latin-modern-condensed
T modern,latin-modern,modern-variable,latin-modern-variable,modern-condensed,latin-modern-condensed	B paper
B latin-modern	B rightpage
B latin-modern-condensed	B text
B latin-modern-variable	F iterator
B modern	F keq_to_hash
B modern-condensed	F listitem
B modern-variable	F make_settings_to_hash_pattern
T modern,latin-modern-designsize,latin-modern	F mergehashes
B latin-modern	F options_to_array
B latin-modern-designsize	F options_to_hash
B modern	T patterns
T modern,modern-base	U settings_to_array
B modern	U settings_to_hash_a
B modern-base	U settings_to_hash_b
T modern-condensed,latin-modern-condensed-designsize,latin-modern-condensed,latin-modern-light-condensed,latin-modern-light	U settings_to_hash_c
B latin-modern-condensed	U unittotex
B latin-modern-condensed-designsize	F process_stripped_settings
B latin-modern-light-condensed	F rfc4180splitter
B modern-condensed	F runtime
B modern-light-condensed	F settings_to_array
T modern-light,latin-modern-light-designsize,latin-modern-light	F settings_to_array_obey_fences
B latin-modern-light	F settings_to_array_with_repeat
B latin-modern-light-designsize	

F settings_to_hash		F list	
F settings_to_hash_strict		F new	
F settings_to_hash_tolerant		F register	
F settings_to_numbers		F report	
F settings_to_set		F reset	
F simple_hash_to_string		F show	
F splitmethod		<b>stacker</b>	table
F splitthousands		F new	
F stepper		<b>storage</b>	table
F stripped_settings_to_array		F allocate	
F unittotex		F checked	
F unittoxml		F mark	
<b>randomizer</b>	table	F marked	
F get		F setinitializer	
F getnumber		F sparse	
F getseed		<b>streams</b>	table
F popseed		F close	
F pushseed		F getposition	
F reuseseed		F look	
F setseed		F open	
F setseedi		F read2dot14	
<b>report</b>	function	F readbyte	
<b>sequencers</b>	table	F readbytes	
F appendaction		F readbytetable	
F appendgroup		F readcardinal	
F compile		F readcardinal1	
F disableaction		F readcardinal2	
F disablegroup		F readcardinal3	
F enableaction		F readcardinal4	
F enablegroup		F readchar	
D functions		F readfixed4	
F localize		F readinteger	
F new		F readinteger1	
F nodeprocessor		F readinteger2	
F prependaction		F readinteger4	
F prependgroup		F readstring	
F removeaction		F setposition	
F replaceaction		F size	
F setkind		F skip	
F tostring		F skipbytes	
<b>setters</b>	table	F skiplong	
F disable		F skipshort	
F enable		<b>strings</b>	table
F initialize		F collapseCrLf	

T formatters

F add

F new

F newrepeater

F nice

T striplinepatterns

U collapse

U prune

U prune and collapse

U prune and no empty

U retain

U retain and collapse

U retain and no empty

F striplines

F striplong

F tabtospace

T tracers

## tables

table

F accesstable

F definedtable

F definetable

F encapsulate

F insertaftervalue

F insertbeforevalue

F migratetable

F removevalue

F replacevalue

## templates

table

F load

F replace

F replacer

F resolve

## vf (context)

<b>char</b>	function
<b>down</b>	function
<b>fontid</b>	function
<b>image</b>	function
<b>node</b>	function
<b>nop</b>	function

<b>pop</b>	function
<b>push</b>	function
<b>right</b>	function
<b>rule</b>	function
<b>special</b>	function

## visualizers (context)

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



# xml (context)

<b>addentitiesdoctype</b>	function
<b>addspecialcode</b>	function
<b>after</b>	function
<b>all</b>	function
<b>applylpath</b>	function
<b>applyselector</b>	function
<b>assign</b>	function
<b>attribute</b>	function
<b>badinclusions</b>	function
<b>before</b>	function
<b>body</b>	function
<b>builtinentities</b>	table
B amp	
B apos	
B gt	
B lt	
B quot	
<b>cdata</b>	function
<b>cdatatotext</b>	function
<b>checkbom</b>	function
<b>checkerror</b>	function
<b>checknamespace</b>	function
<b>checkns</b>	function
<b>cleansed</b>	function
<b>collect</b>	function
<del><b>collect_elements</b></del>	<del>function</del>
<b>collect_tags</b>	function
<del><b>collect_texts</b></del>	<del>function</del>
<b>collected</b>	function
<b>collecttexts</b>	function
<b>content</b>	function
<b>convert</b>	function
<b>copy</b>	function
<b>count</b>	function
<b>cprint</b>	function
<b>css</b>	table
F applyselector	
F colorspecification	
F dimension	
F fontspecification	
F padding	

<b>defaulthandlers</b>	table
D file	
D parsedxml	
D string	
D tex	
D texline	
D texspace	
D verbose	
<b>defaultprotocol</b>	string
<b>delete</b>	function
<del><b>delete_element</b></del>	<del>function</del>
<del><b>despecialized</b></del>	<del>function</del>
<b>each</b>	function
<del><b>each_element</b></del>	<del>function</del>
<b>elements</b>	function
<b>elementtocdata</b>	function
<b>empty</b>	function
<b>entities</b>	data table
<b>erase</b>	function
<b>errorhandler</b>	function
<b>escaped</b>	function
<b>expressions</b>	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	
<b>fillin</b>	function
<b>filter</b>	function

## finalizers

F paragraphs  
T tex  
F all  
F attribute  
F chainattribute  
F chainpath  
F command  
F concat  
F concatrange  
F context  
F count  
F ctxtext  
F default  
F first  
F function  
F index  
F last  
F lettered  
F lower  
F lowerall  
F match  
F name  
F position  
F reverse  
F stripped  
F tag  
F tags  
F text  
F upper  
F upperall  
T xml  
F all  
F att  
F attribute  
F attributes  
F cdata  
F chainattribute  
F count  
F default  
F elements  
F empty  
F first  
F function

## table

F index  
F last  
F lowerall  
F match  
F name  
F position  
F reverse  
F table  
F tag  
F tags  
F text  
F texts  
F upperall

<b>first</b>	function
<b>found</b>	function
<b>functions</b>	table
<b>getbuffer</b>	function
<b>gethandlers</b>	function
<b>gethandlersfunction</b>	function
<b>helpers</b>	table
F recursetext	
<b>include</b>	function
<b>inclusion</b>	function
<b>inclusions</b>	function
<b>index</b>	function
<b>inheritedconvert</b>	function
<b>inject</b>	function
<b>inject_element</b>	function
<b>inject_element_after</b>	function
<b>inject_element_before</b>	function
<b>injectafter</b>	function
<b>injectbefore</b>	function
<b>insert</b>	function
<b>insert_element</b>	function
<b>insert_element_after</b>	function
<b>insert_element_before</b>	function
<b>insertafter</b>	function
<b>insertbefore</b>	function
<b>insertcdata</b>	function
<b>insertcomment</b>	function
<b>inspect</b>	function
<b>is_valid</b>	function
<b>kind</b>	function
<b>last</b>	function

<b>lastmatch</b>	function	<b>replace</b>	function
<b>load</b>	function	<b>replace_element</b>	function
<b>lpath</b>	function	<b>resetinjectors</b>	function
<b>lpathcached</b>	function	<b>resolvens</b>	function
<b>lpathcalls</b>	function	<b>root</b>	function
<b>lshow</b>	function	<b>save</b>	function
<b>makestandalone</b>	function	<b>selection</b>	function
<b>match</b>	function	<b>separate</b>	function
<b>name</b>	function	<b>serialize</b>	function
<b>newhandlers</b>	function	<b>setcdata</b>	function
<b>nodesettostring</b>	function	<b>setcomment</b>	function
<b>originalload</b>	function	<b>sethandlersfunction</b>	function
<b>package</b>	function	<b>setinjectors</b>	function
<b>parent</b>	function	<b>setProperty</b>	function
<b>parsedentitylpeg</b>	userdata	<b>settings</b>	function
<b>pihandlers</b>	table	<b>specialcodes</b>	table
F injector		S "	
F tex		S #	
<b>placeholders</b>	table	S \$	
F unknown_any_entity		S %	
F unknown_dec_entity		S &	
F unknown_hex_entity		S '	
<b>popmatch</b>	function	S <	
<b>position</b>	function	S >	
<b>privatecodes</b>	table	S \	
<b>privatetoken</b>	function	S {	
<b>process</b>	function	S	
<b>process_attributes</b>	function	S }	
<b>process_elements</b>	function	S ~	
<b>processattributes</b>	function	<b>specialhandler</b>	table
<b>profiled</b>	table	<b>sprint</b>	function
<b>pushmatch</b>	function	<b>string</b>	function
<b>raw</b>	function	<b>strip</b>	function
<b>registerentity</b>	function	<b>strip_whitespace</b>	function
<b>registers</b>	function	<b>stripelement</b>	function
<b>reindex</b>	function	<b>stripleadingspaces</b>	function
<b>remap_name</b>	function	<b>table</b>	function
<b>remap_namespace</b>	function	<b>text</b>	function
<b>remap_tag</b>	function	<b>textonly</b>	function
<b>remapname</b>	function	<b>texttocdata</b>	function
<b>remapnamespace</b>	function	<b>tocdata</b>	function
<b>remaptag</b>	function	<b>toelement</b>	function
<b>renamespace</b>	function	<b>tostring</b>	function
<b>reparsedentitylpeg</b>	userdata	<b>totable</b>	function

<b>toxml</b>	function	<b>unspecialized</b>	function
<b>tprint</b>	function	<b>withelement</b>	function
<b>traverse</b>	function	<b>withelements</b>	function
<b>unescaped</b>	function	<b>wrap</b>	function
<b>unescapedentitylpeg</b>	userdata	<b>xmlns</b>	table
<b>unprivatized</b>	function		

## zip (extra lua)

**archives**

table

**close**

function

**closearchive**

function

**open**

overloaded function

**openarchive**

function

**openfile**

function

**registeredfiles**

table

**type**

function

## zlib (extra lua)

<b>adler32</b>	function
<b>compress</b>	function
<b>compressobj</b>	function
<b>crc32</b>	function

<b>decompress</b>	function
<b>decompressobj</b>	function
<b>version</b>	function