

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</b> hassomecontent	
<b>assign</b>	function	<b>F</b> next	
<b>collectcontent</b>	function	<b>F</b> place	
<b>erase</b>	function	<b>F</b> reset	
<b>exists</b>	function	<b>F</b> save	
<b>getcontent</b>	function	<b>prepend</b>	function
<b>getlines</b>	function	<b>raw</b>	function
<b>loadcontent</b>	function	<b>run</b>	function
<b>parallel</b>	table	<b>undent</b>	function
<b>F</b> define			

# 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>savedata</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 insert_local_par
<b>known</b>	function	B kerning
<b>list</b>	data table	B ligaturing
<b>pop</b>	function	B linebreak_filter
<b>push</b>	function	B mlist_to_hlist
<b>register</b>	function	B open_read_file
<b>report</b>	function	B post_linebreak_filter
<b>supported</b>	table	B pre_dump
B append_to_vlist_filter		B pre_linebreak_filter
B build_page_insert		B pre_output_filter
B buildpage_filter		B process_input_buffer
B call_edit		B process_jobname
B char_exists		B process_output_buffer
B contribute_filter		B process_rule
B define_font		B read_cidmap_file
B find_cidmap_file		B read_data_file
B find_data_file		B read_enc_file
B find_enc_file		B read_font_file
B find_font_file		B read_map_file
B find_format_file		B read_opentype_file
B find_image_file		B read_pk_file
B find_map_file		B read_sfd_file
B find_opentype_file		B read_truetype_file
B find_output_file		B read_type1_file
B find_pk_file		B read_vf_file
B find_read_file		B show_error_hook
B find_sfd_file		B show_error_message
B find_truetype_file		B show_lua_error_hook
B find_type1_file		B show_warning_message
B find_vf_file		B start_file
B find_write_file		B start_page_number
B finish_pdffile		B start_run
B finish_pdffpage		B stop_file
B glyph_stream_provider		B stop_page_number
B hpack_filter		B stop_run
B hpack_quality		B vpack_filter
B hyphenate		B vpack_quality



## catcodes (context)

**names** data table

**numbers** data table

**register** function

characters (context)

[illegible]

$S E_+$   
 $S F'$   
 $S G'$   
 $S G^{\wedge}$   
 $S G^{-}$   
 $S G^{-}$   
 $S G'$   
 $S G^{\vee}$   
 $S G_+$   
 $S H^{\wedge}$   
 $S H'$   
 $S H''$   
 $S H^{\vee}$   
 $S H_+$   
 $S H_+$   
 $S H_+$   
 $S I^{\backslash}$   
 $S I'$   
 $S I^{\wedge}$   
 $S I''$   
 $S I''$   
 $S I''$   
 $S I'$   
 $S I''$   
 $S I''$   
 $S I'''$   
 $S I'$   
 $S I'$   
 $S I''$   
 $S I''$   
 $S I_+$   
 $S I_+$   
 $S I_+$   
 $S J^{\wedge}$   
 $S K'$   
 $S K^{\vee}$   
 $S K_+$   
 $S K_+$   
 $S K_+$   
 $S L'$   
 $S L^{\vee}$   
 $S L_+$   
 $S L_+^{-}$   
 $S L_+$   
 $S L_+$

$S L_+$   
 $S M'$   
 $S M'$   
 $S M_+$   
 $S N^{\backslash}$   
 $S N'$   
 $S N''$   
 $S N'$   
 $S N^{\vee}$   
 $S N_+$   
 $S N_+$   
 $S N_+$   
 $S N_+$   
 $S O^{\backslash}$   
 $S O'$   
 $S O^{\wedge}$   
 $S O^{\wedge\backslash}$   
 $S O^{\wedge'}$   
 $S O^{\wedge''}$   
 $S O^{\wedge'}$   
 $S O''$   
 $S O'''$   
 $S O''$   
 $S O^{\backslash\backslash}$   
 $S O^{\backslash'}$   
 $S O^{\vee}$   
 $S O'$   
 $S O'^{-}$   
 $S O''$   
 $S O''^{-}$   
 $S O^{\flat}$   
 $S O^{\flat}$   
 $S O^{\flat}$   
 $S O^{\flat\backslash}$   
 $S O^{\flat'}$   
 $S O^{\flat''}$   
 $S O^{\flat'}$   
 $S O^{\flat_+}$   
 $S O_+$



[illegible]

S i <sup>˘</sup>	S o <sup>˘˘</sup>
S i <sup>˘</sup>	S o <sup>˘˘˘</sup>
S i <sup>˘˘</sup>	S o <sup>˘˘˘˘</sup>
S i <sup>˘˘</sup>	S o <sup>˘˘˘˘˘</sup>
S i <sup>˘˘</sup>	S o <sup>˘˘˘˘˘˘</sup>
S i <sup>˘˘</sup>	S o <sup>˘˘˘˘˘˘˘</sup>
S i <sup>˘˘</sup>	S o <sup>˘˘˘˘˘˘˘˘</sup>
S i <sup>˘˘</sup>	S o <sup>˘˘˘˘˘˘˘˘˘</sup>
S i <sub>.</sub>	S o <sup>˘˘˘˘˘˘˘˘˘˘</sup>
S i <sub>.</sub>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘</sup>
S i <sub>.</sub>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S j <sup>˘</sup>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S j <sup>˘</sup>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S k <sup>˘</sup>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S k <sup>˘</sup>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S k <sub>.</sub>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S k <sub>.</sub>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S k <sub>.</sub>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S l <sup>˘</sup>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S l <sup>˘</sup>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S l <sub>.</sub>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S l <sub>.</sub>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S l <sub>.</sub>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S l <sub>.</sub>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S l <sub>.</sub>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S m <sup>˘</sup>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S m <sup>˘</sup>	S o <sup>˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘˘</sup>
S m <sub>.</sub>	S p <sup>˘</sup>
S n <sup>˘</sup>	S p <sup>˘</sup>
S n <sup>˘</sup>	S r <sup>˘</sup>
S n <sup>˘</sup>	S r <sup>˘</sup>
S n <sup>˘</sup>	S r <sup>˘˘</sup>
S n <sup>˘</sup>	S r <sup>˘˘˘</sup>
S n <sub>.</sub>	S r <sup>˘˘˘˘</sup>
S n <sub>.</sub>	S r <sub>.</sub>
S n <sub>.</sub>	S r <sub>.</sub>
S n <sub>.</sub>	S r <sub>.</sub>
S o <sup>˘</sup>	S r <sub>.</sub>
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S $\varnothing^\sim$	S H'
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S $\circ^\sim$	S H''\`
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S E'	S $\emptyset''\`$
S E'	S $\emptyset'$
S E''\`	S $\emptyset'$
S E'\'	S $\emptyset'$
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S E''\`	S Y $^\sim$
S E'\'	S Y'
S E'\'	S Y $^\sim$
S H $^\sim$	S Y $^\sim$
S H'	S Y $^\sim$
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S H''\`	S Y''\`
S H''\`	S Y'\'
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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 ´
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$S \prime$	$S /$
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$T \cap$	$T \exists$
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$T \cap$	$T \in$
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$T \supset$	$T$
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$T \subseteq$	$T$
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$T \supseteq$	$T$
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$T \sqsubset$	$T$
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$T \sqsupset$	$T$
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$T \sqsubseteq$	$T$
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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 =	
S cj		S :	
S cl		T >	
S cm		S =	
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S ex		S ←	
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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 calculatyscale

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 blockligatures

F pardirstate	F ligature
F txtldirstate	F multiple
F load	F reversechainedcontextsingle
F loadoutlinedata	F single
F loadstreamdata	F gvar
F modeinitializer	F head
F nodemodeinitializer	T helpers
D pdfcache	F axistofactors
T plugins	F cleanname
T readers	F getaxissscale
F addunicodetable	F getfactors
F avar	F getscales
F cff	F gotodatatable
F cff2	F normalizedaxis
F cffcheck	T normalizedaxisishash
F checkhash	F readvariationdata
F cmap	F setvariabledata
F colr	F hhea
F compact	F hmtx
F cpal	F hvar
F expand	F kern
F extend	F loadfont
F fvar	F loadshapes
F gdef	F loca
F getcomponents	F math
F getinfo	F maxp
F glyf	F mvar
F gpos	F name
T gposhandlers	F os/2
F chainedcontext	F pack
F context	F parsecharstrings
F cursive	F post
F extension	F registerextender
F marktobase	F rehash
F marktoligature	F stat
F marktomark	T streamreader
F pair	F close
F single	F getposition
F gsub	F getsizes
T gsubhandlers	F look
F alternate	F open
F chainedcontext	F read2dot14
F context	F readbyte
F extension	F readbytes



F readbytetable	F scriptandlanguage
F readcardinal	F setdynamics
F readcardinal1	F setfeatures
F readcardinal2	T statistics
F readcardinal2le	D usedfeatures
F readcardinal3	T svg
F readcardinal3le	F filterglyph
F readcardinal4	F storepdfdata
F readcardinal4le	F topdf
F readchar	D svgcache
F readfixed2	B svgenabled
F readfixed4	T tables
F readinteger	D baselines
F readinteger1	D features
F readinteger2	D featuretypes
F readinteger2le	D languages
F readinteger3	D scripts
F readinteger3le	N version
F readinteger4	T pfb
F readinteger4le	F loadvector
F readsignedbyte	T tfm
F readstring	F addtounicode
F readtag	D features
F setposition	N maxnestingdepth
F size	N maxnestingsize
F skip	F reencode
F skiplong	F setfeatures
F skipposition	N version
F skipshort	T vf
F writebyte	T combinations
F writecardinal2	F combine
F writecardinal4	T combiner
F writestring	D commands
F svg	D helpers
N tableversion	D math
F unifymissing	D predefined
F unpack	N version
F vhea	D whatever
F vmtx	F hashfeatures
F vorg	F hashinstance
F vvar	T hashmethods
F woff2otf	F normal
F registerpalette	F virtual
F registerplugin	F initializefeatures

T keys	S hasmath	
T characters	S mathitalics	
T descriptions	S mode	
T parameters	S name	
S ascender	S noglyphnames	
S descender	S nostackmath	
S designsizes	S psname	
T expansion	S textitalics	
S auto	S virtualized	
S shrink	D loadedfonts	
S step	S namemode	
S stretch	N noffontsloaded	
S extendfactor	N nofsharedfonts	
S factor	N nofsharedhashes	
S hfactor	N nofsharedvectors	
S mathsize	N privateoffset	
T protrusion	D privateslots	
S auto	F readanddefine	
S quad	F registerfeature	
S scaledpoints	F resetfeature	
S scriptpercentage	B resolvevirtualtoo	
S scriptscriptpercentage	F scale	
S size	F scaled	
S slantfactor	F setfactor	
S slantperpoint	F setfeature	
T spacing	F setname	
S extra	B sharefonts	
S shrink	F trytosharefont	
S stretch	N version	
S width	<b>current</b>	function
S units	<b>currentid</b>	function
S vfactor	<b>definers</b>	table
S xheight	F addlookup	
T properties	F analyze	
S autoitalicamount	F applypostprocessors	
S cidinfo	F checkedmode	
S embedding	F checkedscript	
S encodingbytes	F current	
S filename	S defaultlookup	
S finalized	F define	
S fontname	F getspecification	
S format	F internal	
S fullname	F loadfont	
S hasitalics	F makespecification	

T methods		N IAcyrillic
F install		N IUcyrillic
D variants		N Icyrillic
F read		N Idot
F register		N Iecyrillic
F registered		N Iicyrillic
F registersplit		N Iishortcyrillic
F resetnullfont		N Iocyrillic
F resolve		N Izhitsacyrillic
T resolvers		N Jecyrillic
F file		N Kacyrillic
F name		N Kcedilla
F spec		N Khacyrillic
<b>definetypeface</b>	<b>function</b>	N Kjecyrillic
<b>encodings</b>	<b>table</b>	N Lcedilla
T agl		N Ljecyrillic
D ctxcodes		N Ncedilla
D extras		N Njecyrillic
D names		N Ocyrillic
T synonyms		N Odblacute
N Acyrillic		N Ohm
N Becyrillic		N Pecyrillic
N Cdot		N Rcedilla
N Checyrillic		N Shacyrillic
N Decyrillic		N Shchacyrillic
N Djecyrillic		N Softsigncyrillic
N Dzecyrillic		N Tcedilla
N Dzhecyrillic		N Tecyrillic
N Ecyrillic		N Tsecyrillic
N Edot		N Tshacyrillic
N Efcyrillic		N Ucyrillic
N Elcyrillic		N Udblacute
N Emcyrillic		N Ushortcyrillic
N Encyrillic		N Vecyrillic
N Ercyrillic		N Yatcyrillic
N Ereversedcyrillic		N Yericyrillic
N Escyrillic		N Yicyrillic
N Fitacyrillic		N Zdot
N Gcedilla		N Zecyrillic
N Gdot		N Zhecyrillic
N Gecyrillic		N acutecmb
N Gheupturncyrillic		N acyrillic
N Gjecyrillic		N afii00208
N Hardsigncyrillic		N afii08941

N afii57694	N daletshevahebrew
N afii57695	N dalettsera
N afii57700	N dammaarabic
N afii57705	N dammatanaltonearabic
N afii57723	N dargahebrew
N alef	N dbllowline
N alefmaksurainitialarabic	N decimalseparatorarabic
N alefmaksuramedialarabic	N dialytikatonos
N approximatelyequal	N dotbelowcmb
N asteriskaltonearabic	N doubleyodpatah
N ayin	N doubleyodpatahhebrew
N bet	N edot
N betdagesh	N eightarabic
N blackdownpointingtriangle	N eighthnotebeamed
N blackleftpointingpointer	N etnahtafoukhhebrew
N blackrectangle	N etnahtafoukhlefthebrew
N blackrightpointingpointer	N etnahtahebrew
N blacksmilingface	N fathaarabic
N blacksquare	N finalkaf
N blackuppointingtriangle	N finalkafdagesh
N bulletinverse	N finalkafhebrew
N cdot	N finalkafqamats
N compass	N finalkafqamatshebrew
N dagesh	N finalkafsheva
N dalet	N finalmem
N daletdagesh	N finalnun
N dalethatafpatah	N finalpe
N dalethatafpatahhebrew	N finaltsadi
N dalethatafsegol	N fivearabic
N dalethatafsegolhebrew	N forall
N dalethebrew	N fourarabic
N dalethiriq	N gcedilla
N dalethiriqhebrew	N gdot
N daletholam	N gimel
N daletholamhebrew	N gimeldagesh
N daletpatah	N gravecmb
N daletpatahhebrew	N haaltonearabic
N daletqamats	N hamzaarabic
N daletqamatshebrew	N hamzadammaarabic
N daletqubuts	N hamzadammatanarabic
N daletqubutshebrew	N hamzafathaarabic
N daletsegol	N hamzafathatanarabic
N daletsegolhebrew	N hamzalowarabic
N daletsheva	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 kaf

N kafdagesh  
 N kashidaautoarabic  
 N kashidaautonosidebearingarabic  
 N kcedilla  
 N lamed  
 N lameddagesh  
 N lamedhebrew  
 N lamedholam  
 N lamedholamdagesh  
 N lamedholamdageshhebrew  
 N laminitialarabic  
 N lammeemjeeminitialarabic  
 N lcedilla  
 N logicalnotreversed  
 N mahapakhhebrew  
 N mem  
 N memdagesh  
 N merkhahebrew  
 N merkhaakefulahebrew  
 N middot  
 N munahhebrew  
 N nbospace  
 N ncedilla  
 N newsheqelsign  
 N ninearabic  
 N noonhehinitialarabic  
 N nun  
 N nundagesh  
 N odblacute  
 N onearabic  
 N overscore  
 N patah  
 N patah11  
 N patah1d  
 N patah2a  
 N patahhebrew  
 N patahnarrowhebrew  
 N patahquarterhebrew  
 N pe  
 N pedagesh  
 N qamats  
 N qamats10  
 N qamats1a  
 N qamats1c

N qamats27	N resh
N qamats29	N reshhatafpatah
N qamats33	N reshhatafpatahhebrew
N qamatsde	N reshhatafsegol
N qamatshebrew	N reshhatafsegolhebrew
N qamatsnarrowhebrew	N reshhebrew
N qamatsqatanhebrew	N reshhiriq
N qamatsqatannarrowhebrew	N reshhiriqhebrew
N qamatsqatanquarterhebrew	N reshholam
N qamatsqatanwidehebrew	N reshholamhebrew
N qamatsquarterhebrew	N reshpatah
N qof	N reshpatahhebrew
N qofdagesh	N reshqamats
N qofhatafpatah	N reshqamatshebrew
N qofhatafpatahhebrew	N reshqubuts
N qofhatafsegol	N reshqubutshebrew
N qofhatafsegolhebrew	N reshsegol
N qofhebrew	N reshsegolhebrew
N qofhiriq	N reshsheva
N qofhiriqhebrew	N reshshevahebrew
N qofholam	N reshtsere
N qofholamhebrew	N reviahebrew
N qofpatah	N samekh
N qofpatahhebrew	N samekhdagesh
N qofqamats	N segol
N qofqamatshebrew	N segol13
N qofqubuts	N segol1f
N qofqubutshebrew	N segol2c
N qofsegol	N segolhebrew
N qofsegolhebrew	N segolnarrowhebrew
N qofsheva	N segolquarterhebrew
N qofshevahebrew	N sevenarabic
N qoftsere	N sfthyphen
N qubuts	N shaddaarabic
N qubuts18	N sheqel
N qubuts25	N sheva
N qubuts31	N sheva115
N qubutshebrew	N sheva15
N qubutsnarrowhebrew	N sheva22
N qubutsquarterhebrew	N sheva2e
N quotelleftreversed	N shevahebrew
N rafe	N shevanarrowhebrew
N rcedilla	N shevaquarterhebrew
N reharabic	N shin

N shindagesh	N AEacute
N shindageshshindot	N AEligature
N shindageshsindot	N AEmacron
N shinshindot	N Aacute
N shinsindot	N Abreve
N siluqhebrew	N Abreveacute
N sixarabic	N Abrevedotbelow
N tav	N Abrevegrave
N tavgages	N Abrevehook
N tavgagesh	N Abrevetilde
N tcedilla	N Acaron
N tchehinitialarabic	N Acircumflex
N tet	N Acircumflexacute
N tetdagesh	N Acircumflexdotbelow
N tevirhebrew	N Acircumflexgrave
N thousandsseparatorarabic	N Acircumflexhook
N threearabic	N Acircumflextilde
N tildecmb	N Adiaeresis
N tipehahebrew	N Adiaeresismacron
N tsadi	N Adotaccent
N tsadidagesh	N Adotaccentmacron
N tsere	N Adotbelow
N tsere12	N Adoublegrave
N tsere1e	N Agrave
N tsere2b	N Ahook
N tserehebrew	N Ainvertedbreve
N tserenarrowhebrew	N Amacron
N tserequarterhebrew	N Aogonek
N twoarabic	N Aring
N udblacute	N Aringacute
N vav	N Astroke
N vavgagesh	N Atilde
N vavgagesh65	N Bhook
N vavholam	N Cacute
N yerahbenyomohebrew	N Ccaron
N yod	N Ccedilla
N yoddagesh	N Ccircumflex
N zayin	N Cdotaccent
N zayindagesh	N Chook
N zdot	N Cstroke
N zeroarabic	N DZcaronligature
D unicodes	N DZligature
D cache	N Dafrican
T ctxcodes	N Dcaron

N Dhook  
N Dstroke  
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 Eogonek  
N Eth  
N Etilde  
N Fhook  
N Gacute  
N Gbreve  
N Gcaron  
N Gcircumflex  
N Gcommaaccent  
N Gdotaccent  
N Ghook  
N Gstroke  
N Hcaron  
N Hcircumflex  
N Hstroke  
N IJligature  
N Iacute  
N Ibreve  
N Icaron  
N Icircumflex  
N Idiaeresis  
N Idotaccent

N Idotbelow  
N Idoublegrave  
N Igrave  
N Ihook  
N Iinvertedbreve  
N Imacron  
N Iogonek  
N Istroke  
N Itilde  
N Jcircumflex  
N Kcaron  
N Kcommaaccent  
N Khook  
N LJligature  
N Lacute  
N Lbar  
N Lcaron  
N Lcommaaccent  
N Ldotmiddle  
N Ljligature  
N Lstroke  
N NJligature  
N Nacute  
N Ncaron  
N Ncommaaccent  
N Neng  
N Ngrave  
N Njligature  
N Ntilde  
N OEligature  
N Oacute  
N Obreve  
N Ocaron  
N Ocircumflex  
N Ocircumflexacute  
N Ocircumflexdotbelow  
N Ocircumflexgrave  
N Ocircumflexhook  
N Ocircumflextilde  
N Odiaeresis  
N Odiaeresismacron  
N Odotaccent  
N Odotaccentmacron  
N Odotbelow



N Odoublegrave  
N Ograve  
N Ohook  
N Ohorn  
N Ohornacute  
N Ohorndotbelow  
N Ohorngrave  
N Ohornhook  
N Ohorntilde  
N Ohungarumlaut  
N Oinvertedbreve  
N Omacron  
N Oogonek  
N Oogonekmacron  
N Ostroke  
N Ostrokeacute  
N Otilde  
N Otildemacron  
N Phook  
N Racute  
N Rcaron  
N Rcommaaccent  
N Rdoublegrave  
N Rinvertedbreve  
N Sacute  
N Scaron  
N Scedilla  
N Schwa  
N Scircumflex  
N Scommaaccent  
N Tcaron  
N Tcedilla  
N Tcommaaccent  
N Thook  
N Thorn  
N Tstroke  
N Uacute  
N Ubreve  
N Ucaron  
N Ucircumflex  
N Udiaeresis  
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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 acaron  
N acircumflex  
N acircumflexacute  
N acircumflexdotbelow  
N acircumflexgrave  
N acircumflexhook

N acircumflextilde	N cyrillicCHEkhakassian
N adiaeresis	N cyrillicCHEvertstroke
N adiaeresismacron	N cyrillicD
N adotaccent	N cyrillicDASIAPNEUMATA
N adotaccentmacron	N cyrillicDJE
N adotbelow	N cyrillicDZE
N adoublegrave	N cyrillicDZEabkhasian
N aeacute	N cyrillicDZHE
N aeligature	N cyrillicE
N aemacron	N cyrillicELtail
N agrave	N cyrillicEMtail
N ahook	N cyrillicENDC
N ainvertedbreve	N cyrillicENGHE
N amacron	N cyrillicENhook
N aogonek	N cyrillicENTail
N aring	N cyrillicEREV
N aringacute	N cyrillicERY
N atilde	N cyrillicERTick
N bhook	N cyrillicEbreve
N breakablethinspace	N cyrillicEdiaeresis
N bstroke	N cyrillicEgrave
N cacute	N cyrillicEiotified
N carriagereturn	N cyrillicF
N ccaron	N cyrillicFITA
N ccedilla	N cyrillicG
N ccircumflex	N cyrillicGHEmidhook
N ccurl	N cyrillicGHEstroke
N cdotaccent	N cyrillicGHEupturn
N chook	N cyrillicGJE
N copyright	N cyrillicH
N cstroke	N cyrillicHA
N cyrillicA	N cyrillicHADC
N cyrillicAE	N cyrillicHRDSN
N cyrillicAbreve	N cyrillicI
N cyrillicAdiaeresis	N cyrillicIE
N cyrillicB	N cyrillicII
N cyrillicBIGYUS	N cyrillicISHRT
N cyrillicBIGYUSiotified	N cyrillicISHRTtail
N cyrillicC	N cyrillicIZHITSA
N cyrillicCH	N cyrillicIZHITSAdoublegrave
N cyrillicCHEDC	N cyrillicIdiaeresis
N cyrillicCHEDCabkhasian	N cyrillicIgrave
N cyrillicCHEabkhasian	N cyrillicImacron
N cyrillicCHEdiaeresis	N cyrillicJE

N cyrillicK  
N cyrillicKADC  
N cyrillicKAbashkir  
N cyrillicKAhook  
N cyrillicKAstroke  
N cyrillicKAvertstroke  
N cyrillicKJE  
N cyrillicKOPPA  
N cyrillicKSI  
N cyrillicL  
N cyrillicLITTLEYUS  
N cyrillicLITTLEYUSiotified  
N cyrillicLJE  
N cyrillicM  
N cyrillicN  
N cyrillicNJE  
N cyrillicO  
N cyrillicOMEGA  
N cyrillicOMEGAround  
N cyrillicOMEGAtitlo  
N cyrillicOT  
N cyrillicObarred  
N cyrillicObarreddiaeresis  
N cyrillicOdiaeresis  
N cyrillicP  
N cyrillicPALATALIZATION  
N cyrillicPALOCHKA  
N cyrillicPEmidhook  
N cyrillicPSI  
N cyrillicPSILIPNEUMATA  
N cyrillicR  
N cyrillicS  
N cyrillicSCHWA  
N cyrillicSCHWAdiaeresis  
N cyrillicSDSC  
N cyrillicSEMISOFT  
N cyrillicSFTSN  
N cyrillicSH  
N cyrillicSHCH  
N cyrillicSHHA  
N cyrillicT  
N cyrillicTEDC  
N cyrillicTETSE  
N cyrillicTITLO

N cyrillicTSHE  
N cyrillicU  
N cyrillicUK  
N cyrillicUSHRT  
N cyrillicUdiaeresis  
N cyrillicUdoubleacute  
N cyrillicUmacron  
N cyrillicV  
N cyrillicYA  
N cyrillicYAT  
N cyrillicYERUdiaeresis  
N cyrillicYI  
N cyrillicYO  
N cyrillicYU  
N cyrillicYstr  
N cyrillicYstrstroke  
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N cyrillicZDSC  
N cyrillicZEdiaeresis  
N cyrillicZH  
N cyrillicZHEbreve  
N cyrillicZHEdescender  
N cyrillicZHEdiaeresis  
N cyrillica  
N cyrillicabreve  
N cyrillicadiaeresis  
N cyrillicae  
N cyrillicb  
N cyrillicbigyus  
N cyrillicbigyusiotified  
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N cyrillicch  
N cyrilliccheabkhasian  
N cyrillicchedc  
N cyrillicchedcabkhasian  
N cyrillicchediaeresis  
N cyrillicchekhakassian  
N cyrillicchevertstroke  
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N cyrillicdje  
N cyrillicdze  
N cyrillicdzeabkhasian  
N cyrillicdzhe  
N cyrillice

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N cyrillicegrave	N cyrilliclittleyusiotified
N cyrilliceiotified	N cyrilliclje
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N cyrillicemtail	N cyrillicn
N cyrillicendc	N cyrillicnje
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N cyrillicenhook	N cyrillicobarred
N cyrillicentail	N cyrillicobarreddiaeresis
N cyrillicerev	N cyrillicodiaeresis
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N cyrillicery	N cyrillicomegaround
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N cyrillicfita	N cyrillicot
N cyrillicg	N cyrillicp
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N cyrillicghestroke	N cyrillicpsi
N cyrillicgheupturn	N cyrillicr
N cyrillicgje	N cyrillics
N cyrillich	N cyrillicschwa
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N cyrillichadc	N cyrillicsdsc
N cyrillichrdsn	N cyrillicsemisoft
N cyrillici	N cyrillicsftsn
N cyrillicidiaeresis	N cyrillicsh
N cyrillicie	N cyrillicshch
N cyrillicigrave	N cyrillicshha
N cyrillicii	N cyrillict
N cyrillicimacron	N cyrillictedc
N cyrillicishrt	N cyrillicttetse
N cyrillicishrttail	N cyrillictshe
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N cyrillicizhitsadoublegrave	N cyrillicudiaeresis
N cyrillicje	N cyrillicudoubleacute
N cyrillick	N cyrillicuk
N cyrillickabashkir	N cyrillicumacron
N cyrillickadc	N cyrillicushrt
N cyrillickahook	N cyrillicv
N cyrillickastroke	N cyrillicya
N cyrillickavertstroke	N cyrillicyat
N cyrillickje	N cyrillicyerudiaeresis
N cyrillickoppa	N cyrillicyi
N cyrillicksi	N cyrillicyo

N cyrillicystr  
N cyrillicystrstroke  
N cyrillicyu  
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N cyrilliczh  
N cyrilliczhebreve  
N cyrilliczhedescender  
N cyrilliczhediaeresis  
N dcaron  
N dcurl  
N dhook  
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N dotlessJ  
N dotlessi  
N dotlessj  
N dotlessjstroke  
N dstroke  
N dtail  
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N dzigature  
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N edotbelow  
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N emspace  
N endash  
N enspace

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N etilde  
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N fhook  
N figurespace  
N filigature  
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N fivesixths  
N flligature  
N fourfifths  
N fourperemspace  
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N greekAlpha  
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N greekAlphadasiatonos  
N greekAlphadasiaavaria  
N greekAlphaiotasub  
N greekAlphaiotasubdasia  
N greekAlphaiotasubdasiaperispomeni  
N greekAlphaiotasubdasiatonos  
N greekAlphaiotasubdasiavaria  
N greekAlphaiotasubpsili  
N greekAlphaiotasubpsiliperispomeni  
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N greekAlphamacron  
N greekAlphapsili  
N greekAlphapsiliperispomeni  
N greekAlphapsilitonos  
N greekAlphapsilivaria  
N greekAlphatonos  
N greekAlphavaria  
N greekAlphavrachy  
N greekBeta  
N greekChi

N greekCoronis	N greekIotavaria
N greekDelta	N greekIotavrachy
N greekEpsilon	N greekKappa
N greekEpsilondasia	N greekLambda
N greekEpsilondasiatonos	N greekMu
N greekEpsilondasiavaria	N greekNu
N greekEpsilonpsili	N greekOmega
N greekEpsilonpsilitonos	N greekOmegadasia
N greekEpsilonpsilivaria	N greekOmegadasiaisperispomeni
N greekEpsilontonos	N greekOmegadasiatonos
N greekEpsilonvaria	N greekOmegadasiaavaria
N greekEta	N greekOmegaiotasub
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N greekEtadasiaisperispomeni	N greekOmegaiotasubdasiaisperispomeni
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N greekEtaiotasub	N greekOmegaiotasubpsili
N greekEtaiotasubdasia	N greekOmegaiotasubpsiliperispomeni
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N greekEtaiotasubpsili	N greekOmegapsiliperispomeni
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N greekEtapsilivaria	N greekOmicrondasiatonos
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N greekGamma	N greekOmicronpsilitonos
N greekIota	N greekOmicronpsilivaria
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N greekIotadasiaisperispomeni	N greekOmicronvaria
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N greekIotadasiaavaria	N greekPi
N greekIotadialytika	N greekPsi
N greekIotamacron	N greekRho
N greekIotapsili	N greekRhodasia
N greekIotapsiliperispomeni	N greekSigma
N greekIotapsilitonos	N greekSigmalunate
N greekIotapsilivaria	N greekTau
N greekIotatonos	N greekTheta

N greekUpsilon	N greekdasiavaria
N greekUpsilondasia	N greekdelta
N greekUpsilondasiaperispomeni	N greekdialytikaperispomeni
N greekUpsilondasiatonos	N greekdialytikatonos
N greekUpsilondasiavaria	N greekdialytikavaria
N greekUpsilondialytika	N greekdigamma
N greekUpsilonmacron	N greekepsilon
N greekUpsilontonos	N greekepsilonalt
N greekUpsilonvaria	N greekepsilondasia
N greekUpsilonvrachy	N greekepsilondasiatonos
N greekXi	N greekepsilondasiavaria
N greekZeta	N greekepsilonoxia
N greekalpha	N greekepsilonpsili
N greekalphadasia	N greekepsilonpsilitonos
N greekalphadasiaperispomeni	N greekepsilonpsilivaria
N greekalphadasiatonos	N greekepsilonontonos
N greekalphadasiavaria	N greekepsilonvaria
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N greekalphaiotasubdasia	N greeketadasia
N greekalphaiotasubdasiaperispomeni	N greeketadasiaperispomeni
N greekalphaiotasubdasiatonos	N greeketadasiatonos
N greekalphaiotasubdasiavaria	N greeketadasiavaria
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N greekalphaiotasubpsiliperispomeni	N greeketaiotasubdasiaperispomeni
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N greekalphaiotasubpsilivaria	N greeketaiotasubdasiavaria
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N greekalphaiotasubvaria	N greeketaiotasubpsili
N greekalphamacron	N greeketaiotasubpsiliperispomeni
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N greekalphaperispomeni	N greeketaiotasubpsilivaria
N greekalphapsili	N greeketaiotasubtonos
N greekalphapsiliperispomeni	N greeketaiotasubvaria
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N greekalphapsilivaria	N greeketaperispomeni
N greekalphatonos	N greeketapsili
N greekalphavaria	N greeketapsiliperispomeni
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N greekchi	N greeketatonos
N greekdasia	N greeketavaria
N greekdasiaperispomeni	N greekfinalsigma
N greekdasiatonos	N greekgamma

N greekiota  
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 N greekiotadasiavaria  
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 N greekiotadialytikaperispomeni  
 N greekiotadialytikatonos  
 N greekiotadialytikavaria  
 N greekiotamacron  
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 N greekiotaperispomeni  
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 N greekiotapsiliperispomeni  
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 N greekiotavaria  
 N greekiotavrachy  
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 N greeknu  
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 N greekomegadasiaperispomeni  
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 N greekomegadasiavaria  
 N greekomegaiotasub  
 N greekomegaiotasubdasia  
 N greekomegaiotasubdasiaperispomeni  
 N greekomegaiotasubdasiatonos  
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 N greekomegaiotasubsiliperispomeni  
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 N greekomegaiotasubsilivaria  
 N greekomegaiotasubtonos  
 N greekomegaiotasubvaria  
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 N greekomegaperispomeni

N greekomegapsili  
 N greekomegapsiliperispomeni  
 N greekomegapsilitonos  
 N greekomegapsilivaria  
 N greekomegatonos  
 N greekomegavaria  
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 N greekomicrondasiatonos  
 N greekomicrondasiavaria  
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 N greekomicronpsilitonos  
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 N greekomicrontonos  
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 N greekoxia  
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 N greekpi  
 N greekpialt  
 N greekprosgegrammeni  
 N greekpsi  
 N greekpsili  
 N greekpsiliperispomeni  
 N greekpsilitonos  
 N greekpsilivaria  
 N greekrho  
 N greekrhoalt  
 N greekrhodasia  
 N greekrhopsili  
 N greeksampi  
 N greeksigma  
 N greeksigmatalunate  
 N greekstigma  
 N greektau  
 N greektheta  
 N greekthetaalt  
 N greektonos  
 N greekupsilon  
 N greekupsilondasia  
 N greekupsilondasiaperispomeni  
 N greekupsilondasiatonos



N greekupsilondasiavaria	N hebrewTav
N greekupsilondiaeresis	N hebrewTet
N greekupsilondialytikaperispomeni	N hebrewTsadi
N greekupsilondialytikatonos	N hebrewTsadifinal
N greekupsilondialytikavaria	N hebrewVav
N greekupsilonmacron	N hebrewYod
N greekupsilonoxia	N hebrewZayin
N greekupsilonperispomeni	N hstroke
N greekupsilonpsili	N iacute
N greekupsilonpsiliperispomeni	N ibreve
N greekupsilonpsilitonos	N icaron
N greekupsilonpsilivaria	N icircumflex
N greekupsilontonos	N ideographichalffillspace
N greekupsilonvaria	N ideographicspace
N greekupsilonvrachy	N idiaeresis
N greekvaria	N idotaccent
N greekxi	N idotbelow
N greekzeta	N idoublegrave
N gstroke	N igrave
N guilsingleleft	N ihook
N guilsingleright	N iinvertedbreve
N hairspace	N ijligature
N hcaron	N imacron
N hcircumflex	N iogonek
N hebrewAlef	N itilde
N hebrewAyin	N jcaron
N hebrewBet	N jcircumflex
N hebrewDalet	N kcaron
N hebrewGimel	N kcommaaccent
N hebrewHe	N khook
N hebrewHet	N kkra
N hebrewKaf	N lacute
N hebrewKaffinal	N lbar
N hebrewLamed	N lcaron
N hebrewMem	N lcommaaccent
N hebrewMemfinal	N lcurl
N hebrewNun	N ldotmiddle
N hebrewNunfinal	N leftguillemot
N hebrewPe	N ljligature
N hebrewPefinal	N lstroke
N hebrewQof	N medspace
N hebrewResh	N nacute
N hebrewSamekh	N napostrophe
N hebrewShin	N narrownobreakspace

N ncaron	N ordfeminine
N ncommaaccent	N ordmasculine
N ncurl	N ostroke
N neng	N ostrokeacute
N ngrave	N otilde
N njligature	N otildemacron
N nobreakspace	N paragraphmark
N ntilde	N periodcentered
N oacute	N perthousand
N obreve	N phook
N ocaron	N punctuationspace
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N ocircumflexacute	N quotedbl
N ocircumflexdotbelow	N quotedblbase
N ocircumflexgrave	N quotedblleft
N ocircumflexhook	N quotedblright
N ocircumflextilde	N quoteleft
N odiaeresis	N quoteright
N odiaeresismacron	N quotesingle
N odotaccent	N quotesinglebase
N odotaccentmacron	N racute
N odotbelow	N rcaron
N odoublegrave	N rcommaaccent
N oeligature	N rdoublegrave
N ograve	N registered
N ohook	N rightguillemot
N ohorn	N rinvertedbreve
N ohornacute	N romanC
N ohorndotbelow	N romanD
N ohorngrave	N romanI
N ohornhook	N romanII
N ohorntilde	N romanIII
N ohungarumlaut	N romanIV
N oinvertedbreve	N romanIX
N omacron	N romanL
N oneeighth	N romanM
N onefifth	N romanV
N onehalf	N romanVI
N onequarter	N romanVII
N onesixth	N romanVIII
N onesuperior	N romanX
N onethird	N romanXI
N oogonek	N romanXII
N oogonekmacron	N romanc

N romand	N textbraceright
N romani	N textbreve
N romanii	N textbrokenbar
N romaniii	N textbullet
N romaniv	N textcaron
N romanix	N textcedilla
N romanl	N textcelsius
N romanm	N textcent
N romanv	N textcircledP
N romanvi	N textcircumflex
N romanvii	N textcomma
N romanviii	N textcurrency
N romanx	N textdag
N romanxi	N textddag
N romanxii	N textdegree
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N scaron	N textdiv
N scedilla	N textdollar
N schwa	N textdong
N schwahook	N textdotaccent
N scircumflex	N textellipsis
N scommaaccent	N texteuro
N sectionmark	N textfraction
N seveneighths	N textgrave
N sixperemspace	N texthash
N slong	N texthorizontalbar
N softthyphen	N texthungarumlaut
N ssharp	N textthyphen
N stligature	N textkelvin
N tcaron	N textlognot
N tcedilla	N textmacron
N tcommaaccent	N textmho
N tcurl	N textminus
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N textacute	N textmultiply
N textampersand	N textnumero
N textasciicircum	N textogonek
N textasciitilde	N textohm
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N textbackslash	N textpercent
N textbar	N textperiod
N textbottomcomma	N textpm
N textbottomdot	N textring
N textbraceleft	N textslash

N textsterling	N ydiaeresis
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N textunderscore	N ygrave
N textyen	N yhook
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N thorn	N ytilde
N threeeighths	N zacute
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N threeperemspace	N zdotaccent
N threequarter	N zerowidthnobreakspace
N threesuperior	N zerowidthspace
N trademark	N zhook
N tstroke	N zstroke
N twofifths	N zwj
N twosuperior	N zwnj
N twothirds	F is_known
N uacute	D known
N ubreve	F load
N ucaron	F make_unicode_vector
N ucircumflex	D math
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N umacron	N Acircumflexacute
N uogonek	N Acircumflexdotbelow
N uring	N Acircumflexgrave
N utilde	N Acircumflexhookabove
N wcircumflex	N Acircumflextilde
N yacute	N Acyrillic
N ycircumflex	N Adblgrave

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 N Aie Cyrillic  
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 N Chekhakassian Cyrillic  
 N Chevertical stroke Cyrillic  
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 N Chook  
 N Cmonospace  
 N Coarmenian  
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 N DZ  
 N DZcaron  
 N Daarmenian  
 N Dafrican  
 N Dcaron  
 N Dcedilla  
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 N Ddotbelow  
 N Decyrillic  
 N Deicoptic  
 N Delta  
 N Deltagreek  
 N Dhook  
 N Digammagreek  
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 N Dslash  
 N Dtopbar  
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 N Dzhecyrillic  
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 N Echarmenian  
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N Ecircumflextilde  
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N Edblgrave  
N Edieresis  
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N Edotaccent  
N Edotbelow  
N Efcyrillic  
N Egrave  
N Eharmerian  
N Ehookabove  
N Eightroman  
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N Elcyrillic  
N Elevenroman  
N Emacron  
N Emacronacute  
N Emacrongrave  
N Emcyrillic  
N Emonospace  
N Encyrillic  
N Endescendercyrillic  
N Eng  
N Enghecyrillic  
N Enhookcyrillic  
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N Eopen  
N Epsilon  
N Epsilontonos  
N Ercyrillic  
N Ereversed  
N Ereversedcyrillic  
N Escyrillic  
N Esdescendercyrillic  
N Esh  
N Eta  
N Etarmenian

N Etatonos  
N Eth  
N Etilde  
N Etildebelow  
N Euro  
N Ezh  
N Ezhcaron  
N Ezhreversed  
N F  
N Fcircle  
N Fdotaccent  
N Feharmenian  
N Feicoptic  
N Fhook  
N Fitacyrillic  
N Fiveroman  
N Fmonospace  
N Fourroman  
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N GBsquare  
N Gacute  
N Gamma  
N Gammaafrican  
N Gangiacoptic  
N Gbreve  
N Gcaron  
N Gcedilla  
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N Gcircumflex  
N Gcommaaccent  
N Gdot  
N Gdotaccent  
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N Ghadarmenian  
N Ghemiddlehookcyrillic  
N Ghestrokecyrillic  
N Gheupturncyrillic  
N Ghook  
N Gimarmenian  
N Gjecyrillic  
N Gmacron  
N Gmonospace  
N Gsmallhook  
N Gstroke

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N H18543	N Imacron
N H18551	N Imacroncyrillic
N H22073	N Imonospace
N HPsquare	N Iniarmenian
N Haabkhasiancyrillic	N Iocyrillic
N Hadesdescendercyrillic	N Iogonek
N Hardsigncyrillic	N Iota
N Hbar	N Iotaafrican
N Hbrevebelow	N Iotadieresis
N Hcedilla	N Iotatonos
N Hcircle	N Istroke
N Hcircumflex	N Itilde
N Hdieresis	N Itildebelow
N Hdotaccent	N Izhitsacyrillic
N Hdotbelow	N Izhitsadblgravecyrillic
N Hmonospace	N J
N Hoarmenian	N Jaarmenian
N Horicoptic	N Jcircle
N Hzsquare	N Jcircumflex
N I	N Jecyrillic
N IAcyrillic	N Jheharmenian
N IJ	N Jmonospace
N IUcyrillic	N K
N Iacute	N KBsquare
N Ibrev	N KKsquare
N Icaron	N Kabashkircyrillic
N Icircle	N Kacute
N Icircumflex	N Kacyrillic
N Icyrillic	N Kadesdescendercyrillic
N Idblgrave	N Kahookcyrillic
N Idieresis	N Kappa
N Idieresisacute	N Kastrokecyrillic
N Idieresisiscyrillic	N Kavertikalstrokecyrillic
N Idot	N Kcaron
N Idotaccent	N Kcedilla
N Idotbelow	N Kcircle
N Iebrevecyrillic	N Kcommaaccent
N Iecyrillic	N Kdotbelow
N Ifraktur	N Keharmenian
N Igrave	N Kenarmenian
N Ihookabove	N Khacyrillic
N Iicyrillic	N Kheicoptic

N Khook	N Ndotaccent
N Kjecyrillic	N Ndotbelow
N Klinebelow	N Nhookleft
N Kmonospace	N Nineroman
N Koppacyrillic	N Nj
N Koppagreek	N Njecyrillic
N Ksicyrillic	N Nlinebelow
N L	N Nmonospace
N LJ	N Nowarmenian
N Lacute	N Ntilde
N Lambda	N Nu
N Lcaron	N O
N Lcedilla	N OE
N Lcircle	N Oacute
N Lcircumflexbelow	N Obarredcyrillic
N Lcommaaccent	N Obarreddieresiscyrillic
N Ldot	N Obreve
N Ldotaccent	N Ocaron
N Ldotbelow	N Ocenteredtilde
N Ldotbelowmacron	N Ocircle
N Liwnarmenian	N Ocircumflex
N Lj	N Ocircumflexacute
N Ljecyrillic	N Ocircumflexdotbelow
N Llinebelow	N Ocircumflexgrave
N Lmonospace	N Ocircumflexhookabove
N Lslash	N Ocircumflextilde
N M	N Ocyrillic
N MBSquare	N Odblacute
N Macute	N Odblgrave
N Mcircle	N Odieresis
N Mdotaccent	N Odieresiscyrillic
N Mdotbelow	N Odotbelow
N Menarmenian	N Ograve
N Mmonospace	N Oharmenian
N Mturned	N Ohm
N Mu	N Ohookabove
N N	N Ohorn
N NJ	N Ohornacute
N Nacute	N Ohorndotbelow
N Ncaron	N Ohorngrave
N Ncedilla	N Ohornhookabove
N Ncircle	N Ohorntilde
N Ncircumflexbelow	N Ohungarumlaut
N Ncommaaccent	N Oi



N Oinvertedbreve	N Rcaron
N Omacron	N Rcedilla
N Omacronacute	N Rcircle
N Omacrongrave	N Rcommaaccent
N Omega	N Rdblgrave
N Omegacyrillic	N Rdotaccent
N Omegagreek	N Rdotbelow
N Omegaroundcyrillic	N Rdotbelowmacron
N Omegatitlocyrillic	N Reharmanian
N Omegatonos	N Rfraktur
N Omicron	N Rho
N Omicrontonos	N Rinvertedbreve
N Omonospace	N Rlinebelow
N Oneroman	N Rmonospace
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N Oogonekmacron	N Rsmallinvertedsuperior
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N Pemiddlehookcyrillic	N SF20000
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N Phook	N SF210000
N Pi	N SF220000
N Piwrarmenian	N SF230000
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N Psi	N SF250000
N Psicyrillic	N SF260000
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N SF450000	N Tau
N SF460000	N Tbar
N SF470000	N Tcaron
N SF480000	N Tcedilla
N SF490000	N Tcircle
N SF50000	N Tcircumflexbelow
N SF500000	N Tcommaaccent
N SF510000	N Tdotaccent
N SF520000	N Tdotbelow
N SF530000	N Tecyrillic
N SF540000	N Tedescendercyrillic
N SF60000	N Tenroman
N SF70000	N Tetsecyrillic
N SF80000	N Theta
N SF90000	N Thook
N Sacute	N Thorn
N Sacutedotaccent	N Threeroman
N Sampigreek	N Tiwnarmenian
N Scaron	N Tlinebelow
N Scarondotaccent	N Tmonospace
N Scedilla	N Toarmenian
N Schwa	N Tonefive
N Schwacyrillic	N Tonesix
N Schwadiesiscyrillic	N Tonetwo
N Scircle	N Retroflexhook
N Scircumflex	N Tsecyrillic
N Scommaaccent	N Tshecyrillic
N Sdotaccent	N Twelveroman
N Sdotbelow	N Tworoman
N Sdotbelowdotaccent	N U
N Seharmenian	N Uacute
N Sevenroman	N Ubreve
N Shaarmenian	N Ucaron
N Shacyrillic	N Ucircle
N Shchacyrillic	N Ucircumflex
N Sheicoptic	N Ucircumflexbelow
N Shhacyrillic	N Ucyrillic

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N Udotbelow	N Wcircle
N Ugrave	N Wcircumflex
N Uhookabove	N Wdieresis
N Uhorn	N Wdotaccent
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N Uhorndotbelow	N Wgrave
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N Umonospace	N Yatcyrillic
N Uogonek	N Ycircle
N Upsilon	N Ycircumflex
N Upsilon1	N Ydieresis
N Upsilonacutehooksymbolgreek	N Ydotaccent
N Upsilonafrican	N Ydotbelow
N Upsilondieresis	N Yericyrillic
N Upsilondieresishooksymbolgreek	N Yerudieresiscyrillic
N Upsilonhooksymbol	N Ygrave
N Upsilontonos	N Yhook
N Uring	N Yhookabove
N Ushortcyrillic	N Yiarmenian
N Ustraightcyrillic	N Yicyrillic
N Ustraightstrokecyrillic	N Yiwnarmenian
N Utilde	N Ymonospace
N Utildeacute	N Ytilde
N Utildebelow	N Yusbigcyrillic
N V	N Yusbigiotifiedcyrillic
N Vcircle	N Yuslittlecyrillic

N Yuslitleiotifiedcyrillic	N acaron
N Z	N acircle
N Zaarmenian	N acircumflex
N Zacute	N acircumflexacute
N Zcaron	N acircumflexdotbelow
N Zcircle	N acircumflexgrave
N Zcircumflex	N acircumflexhookabove
N Zdot	N acircumflextilde
N Zdotaccent	N acute
N Zdotbelow	N acutebelowcmb
N Zecyrillic	N acutecmb
N Zedescendercyrillic	N acutecomb
N Zedieresiscyrillic	N acutedeva
N Zeta	N acutelowmod
N Zhearmenian	N acutetonecmb
N Zhebrevecyrillic	N acyrillic
N Zhecyrillic	N adblgrave
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N Zhedieresiscyrillic	N adeva
N Zlinebelow	N adieresis
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N aadeva	N aeacute
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N aideva  
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N aigurmukhi  
N aimatragurmukhi  
N ainarabic  
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N aininitialarabic  
N ainmedialarabic  
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N alefhamzaabovearabic  
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N alefhamzabelowarabic  
N alefhamzabelowfinalarabic  
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N aleflamedhebrew  
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N alefmaddaabovefinalarabic  
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N alefmaksurainitialarabic

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N alefpatahhebrew	N arrowboth
N alefqamatshebrew	N arrowdashdown
N aleph	N arrowdashleft
N allequal	N arrowdashright
N alpha	N arrowdashup
N alphanotos	N arrowdblboth
N amacron	N arrowdbldown
N amonospace	N arrowdblleft
N ampersand	N arrowdblright
N ampersandmonospace	N arrowdblup
N amsquare	N arrowdown
N anbopomofo	N arrowdownleft
N angbopomofo	N arrowdownright
N angkhankhuthai	N arrowdownwhite
N angle	N arrowheadaddownmod
N anglebracketleft	N arrowheadadleftmod
N anglebracketleftvertical	N arrowheadadrightmod
N anglebracketright	N arrowheadadupmod
N anglebracketrightvertical	N arrowleft
N angleleft	N arrowleftdbl
N angleright	N arrowleftdblstroke
N angstrom	N arrowleftoverright
N anoteleia	N arrowleftwhite
N anudattadeva	N arrowright
N anusvarabengali	N arrowrightdblstroke
N anusvaradeva	N arrowrightheavy
N anusvaragujarati	N arrowrightoverleft
N aogonek	N arrowrightwhite
N apaatosquare	N arrowtableft
N aparen	N arrowtabright
N apostrophearmenian	N arrowup
N apostrophemod	N arrowupdn
N apple	N arrowupdnbse
N approaches	N arrowupdownbase
N approxequal	N arrowupleft
N approxequalorimage	N arrowupleftofdown
N approximatelyequal	N arrowupright
N araeakorean	N arrowupwhite
N araeakorean	N asciicircum
N arc	N asciicircummonospace
N arighthalfring	N asciitilde
N aring	N asciitildemonospace
N aringacute	N ascript



N ascriptturned	N bbopomofo
N asmallhiragana	N bcircle
N asmallkatakana	N bdotaccent
N asmallkatakanahalfwidth	N bdotbelow
N asterisk	N beamedsixteenthnotes
N asteriskaltonearabic	N because
N asteriskarabic	N becyrillic
N asteriskmath	N beharabic
N asteriskmonospace	N behfinalarabic
N asterisksmall	N behinitialarabic
N asterism	N behiragana
N asymptoticallyequal	N behmedialarabic
N at	N behmeeminitialarabic
N atilde	N behmeemisolatedarabic
N atmonospace	N behnoonfinalarabic
N atsmall	N bekatakana
N aturned	N benarmenian
N aubengali	N bet
N aubopomofo	N beta
N audeva	N betasymbolgreek
N augujarati	N betdagesh
N augurmukhi	N betdageshhebrew
N aulengthmarkbengali	N bethebrew
N aumatragurmukhi	N betrafehebrew
N auvowelsignbengali	N bhabengali
N auvowelsigndeva	N bhadeva
N auvowelsingujarati	N bhagujarati
N avagrahadeva	N bhagurmukhi
N aybarmenian	N bhook
N ayin	N bihiragana
N ayinaltonehebrew	N bikatakana
N ayinhebrew	N bilabialclick
N b	N bindigurmukhi
N babengali	N birusquare
N backslash	N blackcircle
N backslashmonospace	N blackdiamond
N badeva	N blackdownpointingtriangle
N bagujarati	N blackleftpointingpointer
N bagurmukhi	N blackleftpointingtriangle
N bahiragana	N blacklenticularbracketleft
N bahtthai	N blacklenticularbracketleftvertical
N bakatakana	N blacklenticularbracketright
N bar	N blacklenticularbracketrightvertical
N barmonospace	N blacklowerlefttriangle

N blacklowerrighttriangle	N buhiragana
N blackrectangle	N bukatakana
N blackrightpointingpointer	N bullet
N blackrightpointingtriangle	N bulletinverse
N blacksmallsquare	N bulletoperator
N blacksmilingface	N bullseye
N blacksquare	N c
N blackstar	N caarmenian
N blackupperlefttriangle	N cabengali
N blackupperrighttriangle	N cacute
N blackuppointingsmalltriangle	N cadeva
N blackuppointingtriangle	N cagujarati
N blank	N cagurmukhi
N blinebelow	N calsquare
N block	N candrabindubengali
N bmonospace	N candrabinducmb
N bobaimaithai	N candrabindudeva
N bohiragana	N candrabindugujarati
N bokatakana	N capslock
N bparen	N careof
N bsquare	N caron
N braceleft	N caronbelowcmb
N braceleftmonospace	N caroncmb
N braceleftsmall	N carriagereturn
N braceleftvertical	N cbopomofo
N braceright	N ccaron
N bracerightmonospace	N ccedilla
N bracerightsmall	N ccedillaacute
N bracerightvertical	N ccircle
N bracketleft	N ccircumflex
N bracketleftmonospace	N ccurl
N bracketright	N cdot
N bracketrightmonospace	N cdotaccent
N breve	N cdsquare
N brevebelowcmb	N cedilla
N brevecmb	N cedillacmb
N breveinvertedbelowcmb	N cent
N breveinvertedcmb	N centigrade
N breveinverteddoublecmb	N centmonospace
N bridgebelowcmb	N chaarmenian
N bridgeinvertedbelowcmb	N chabengali
N brokenbar	N chadeva
N bstroke	N chagujarati
N btopbar	N chagurmukhi

N chbopomofo	N clubsuitwhite
N cheabkhasiancyrillic	N cmcubedsquare
N checkmark	N cmonospace
N checyrillic	N cmsquaredsquare
N chedescenderabkhasiancyrillic	N coarmenian
N chedescendercyrillic	N colon
N chedieresiscyrillic	N colonmonetary
N cheharmenian	N colonmonospace
N chekhakassiancyrillic	N colonsign
N cheverticalstrokecyrillic	N colonsmall
N chi	N colontriangularhalfmod
N chieuchacirclekorean	N colontriangulararmod
N chieuchaparenkorean	N comma
N chieuchcirclekorean	N commaabovecmb
N chieuchkorean	N commaaboveughtcmb
N chieuchparenkorean	N commaarabic
N chochangthai	N commaarmenian
N chochanthai	N commamonospace
N chochingthai	N commareversedabovecmb
N chochoethai	N commareversedmod
N chook	N commasmall
N cieucacirclekorean	N commaturnedabovecmb
N cieucaparenkorean	N commaturnedmod
N cieuccirclekorean	N compass
N cieuckorean	N congruent
N cieucparenkorean	N contourintegral
N cieucuparenkorean	N control
N circle	N controlACK
N circlemultiply	N controlBEL
N circleot	N controlBS
N circleplus	N controlCAN
N circlepostalmark	N controlCR
N circlewithlefthalfblack	N controlDC1
N circlewithrighthalfblack	N controlDC2
N circumflex	N controlDC3
N circumflexbelowcmb	N controlDC4
N circumflexcmb	N controlDEL
N clear	N controlDLE
N clickalveolar	N controlEM
N clickdental	N controlENQ
N clicklateral	N controlEOT
N clickretroflex	N controlESC
N club	N controlETB
N clubsuitblack	N controlETX

N controlFF	N dagurmukhi
N controlFS	N dahiragana
N controlGS	N dakatakana
N controlHT	N dalarabic
N controlLF	N dalet
N controlNAK	N daletdagesh
N controlRS	N daletdageshhebrew
N controlSI	N daletthatafpatah
N controlSO	N daletthatafpatahhebrew
N controlSOT	N daletthatafsegol
N controlSTX	N daletthatafsegolhebrew
N controlSUB	N dalethebrew
N controlSYN	N dalethiriq
N controlUS	N dalethiriqhebrew
N controlVT	N daletholam
N copyright	N daletholamhebrew
N cornerbracketleft	N daletpatah
N cornerbracketlefthalfwidth	N daletpatahhebrew
N cornerbracketleftvertical	N daletqamats
N cornerbracketright	N daletqamatshebrew
N cornerbracketrighthalfwidth	N daletqubuts
N cornerbracketrightvertical	N daletqubutshebrew
N corporationsquare	N daletsegol
N cosquare	N daletsegolhebrew
N coverkgsquare	N daletsheva
N cparen	N daletshevahebrew
N cruzeiro	N dalettsere
N cstretched	N dalettserehebrew
N curlyand	N dalfinalarabic
N curlyor	N dammaarabic
N currency	N dammalowarabic
N d	N dammatanaltonearabic
N daarmenian	N dammatanarabic
N dabengali	N danda
N dadarabic	N dargahebrew
N dadeva	N dargalefthebrew
N dadfinalarabic	N dasiapneumatacyrilliccmb
N dadinitialarabic	N dblanglebracketleft
N dadmedialarabic	N dblanglebracketleftvertical
N dagesh	N dblanglebracketright
N dageshhebrew	N dblanglebracketrightvertical
N dagger	N dblarchinvertedbelowcmb
N daggerdbl	N dblarrowleft
N dagujarati	N dblarrowright

N dbldanda  
 N dblgravcomb  
 N dblintegral  
 N dbllowline  
 N dbllowlinecmb  
 N dbloverlinecmb  
 N dblprimemod  
 N dblverticalbar  
 N dblverticallineabovecmb  
 N dbopomofo  
 N dbsquare  
 N dcaron  
 N dcedilla  
 N dcircle  
 N dcircumflexbelow  
 N dcroat  
 N ddabengali  
 N ddadeva  
 N ddagujarati  
 N ddagurmukhi  
 N ddalarabic  
 N ddalfinalarabic  
 N dddhadeva  
 N ddhabengali  
 N ddhadeva  
 N ddhagujarati  
 N ddhagurmukhi  
 N ddotaccent  
 N ddotbelow  
 N decimalseparatorarabic  
 N decimalseparatorpersian  
 N decyrillic  
 N degree  
 N dehihebrew  
 N dehiragana  
 N deicoptic  
 N dekatakana  
 N deleteleft  
 N deleteright  
 N delta  
 N delteturned  
 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 dieresiscomb  
 N dieresis-tonos  
 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 dnblock  
 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 edotbelow
N doubleyodpatahhebrew	N eegurmukhi
N downtackbelowcmb	N eematragurmukhi
N downtackmod	N efcyrillic
N dparen	N egrave
N dtail	N egujarati
N dtopbar	N eharmenian
N duhiragana	N ehbopomofo
N dukatakana	N ehiragana
N dz	N ehookabove
N dzaltone	N eibopomofo
N dzcaron	N eight
N dzcurl	N eightarabic
N dzeabkhasiancyrillic	N eightbengali
N dzecyrillic	N eightcircle
N dzhecyrillic	N eightcircleinversesansserif
N e	N eightdeva
N eacute	N eightteencircle
N earth	N eighteenparen
N ebengali	N eighteenperiod
N ebopomofo	N eightgujarati
N ebreve	N eightgurmukhi
N ecandradeva	N eighthackarabic
N ecandragujarati	N eighthangzhou
N ecandravowelsigndeva	N eighthnotebeamed
N ecandravowelsigngujarati	N eightideographicparen
N ecaron	N eightinferior
N ecedillabreve	N eightmonospace
N echarmenian	N eightparen
N echiwnarmenian	N eightperiod
N ecircle	N eightpersian
N ecircumflex	N eightroman
N ecircumflexacute	N eightsuperior
N ecircumflexbelow	N eightthai
N ecircumflexdotbelow	N einvertedbreve
N ecircumflexgrave	N eiotifiedcyrillic
N ecircumflexhookabove	N ekatakana
N ecircumflextilde	N ekatakanahalfwidth
N ecyrillic	N ekonkargurmukhi
N edblgrave	N ekorean
N edeva	N elcyrillic
N edieresis	N element
N edot	N elevencircle
N edotaccent	N elevenparen

N elevenperiod	N esh
N elevenroman	N eshcurl
N ellipsis	N eshortdeva
N ellipsisvertical	N eshortvowelsigndeva
N emacron	N eshreversedloop
N emacronacute	N eshsquatreversed
N emacrongrave	N esmallhiragana
N emcyrillic	N esmallkatakana
N emdash	N esmallkatakanahalfwidth
N emdashvertical	N estimated
N emonospace	N eta
N emphasismarkarmenian	N etarmenian
N emptyset	N etatonos
N enbopomofo	N eth
N encyrillic	N etilde
N endash	N etildebelow
N endashvertical	N etnahtafoukhhebrew
N endescendercyrillic	N etnahtafoukhlefthebrew
N eng	N etnahtahebrew
N engbopomofo	N etnahtalefthebrew
N enghecyrillic	N eturned
N enhookcyrillic	N eukorean
N enspace	N euro
N eogonek	N evowelsignbengali
N eokorean	N evowelsigndeva
N eopen	N evowelsigngujarati
N eopenclosed	N exclam
N eopenreversed	N exclamarmenian
N eopenreversedclosed	N exclamdbl
N eopenreversedhook	N exclamdown
N eparen	N exclammonospace
N epsilon	N existential
N epsilonontonos	N ezh
N equal	N ezhcaron
N equalmonospace	N ezhcurl
N equalsmall	N ezhreversed
N equalsuperior	N ezhtail
N equivalence	N f
N erbopomofo	N fadeva
N ercyrillic	N fagurmukhi
N ereversed	N fahrenheit
N ereversedcyrillic	N fathaarabic
N escyrillic	N fathalowarabic
N esdescendercyrillic	N fathatanarabic

N fbopomofo	N fivedeva
N fcircle	N fiveeighths
N fdotaccent	N fivegujarati
N feharabic	N fivegurmukhi
N feharmenian	N fivehackarabic
N fehfinalarabic	N fivehangzhou
N fehinitialarabic	N fiveideographicparen
N fehmedialarabic	N fiveinferior
N feicoptic	N fivemonospace
N female	N fiveparen
N ff	N fiveperiod
N ffi	N fivepersian
N ffl	N fiveroman
N fi	N fivesuperior
N fifteencircle	N fivethai
N fifteenparen	N fl
N fifteenperiod	N florin
N figuredash	N fmonospace
N filledbox	N fmsquare
N filledrect	N fofanthai
N finalkaf	N fofathai
N finalkafdagesh	N fongmanthai
N finalkafdageshhebrew	N forall
N finalkafhebrew	N four
N finalkafqamats	N fourarabic
N finalkafqamatshebrew	N fourbengali
N finalkafsheva	N fourcircle
N finalkafshevahebrew	N fourcircleinversesansserif
N finalmem	N fourdeva
N finalmemhebrew	N fourgujarati
N finalnun	N fourgurmukhi
N finalnunhebrew	N fourhackarabic
N finalpe	N fourhangzhou
N finalpehebrew	N fourideographicparen
N finaltsadi	N fourinferior
N finaltsadihebrew	N fourmonospace
N firsttonechinese	N fournumeratorbengali
N fisheye	N fourparen
N fitacyrillic	N fourperiod
N five	N fourpersian
N fivearabic	N fourroman
N fivebengali	N foursuperior
N fivecircle	N fourteencircle
N fivecircleinversesansserif	N fourteenparen



N fourteenperiod	N ghadeva
N fourthai	N ghagujarati
N fourthtonechinese	N ghagurmukhi
N fparen	N ghainarabic
N fraction	N ghainfinalarabic
N franc	N ghaininitialarabic
N g	N ghainmedialarabic
N gabengali	N ghemiddlehookcyrillic
N gacute	N ghestrokecyrillic
N gadeva	N gheupturncyrillic
N gafarabic	N ghhadeva
N gaffinalarabic	N ghagurmukhi
N gafinitialarabic	N ghook
N gafmedialarabic	N ghzsquare
N gagujarati	N gihiragana
N gagurmukhi	N gikatakana
N gahiragana	N gimarmenian
N gakatakana	N gimel
N gamma	N gimeldagesh
N gammalatinsmall	N gimeldageshhebrew
N gammasuperior	N gimelhebrew
N gangiacoptic	N gjecyrillic
N gbopomofo	N glottalinvertedstroke
N gbreve	N glottalstop
N gcaron	N glottalstopinverted
N gcedilla	N glottalstopmod
N gcircle	N glottalstopreversed
N gcircumflex	N glottalstopreversedmod
N gcommaaccent	N glottalstopreversedsuperior
N gdot	N glottalstopstroke
N gdotaccent	N glottalstopstrokereversed
N gecyrillic	N gmacron
N gehiragana	N gmonospace
N gekatakana	N gohiragana
N geometricallyequal	N gokatakana
N gereshaccenthebrew	N gparen
N gereshhebrew	N gpasquare
N gereshmuqdamhebrew	N gradient
N germandbls	N grave
N gershayimaccenthebrew	N gravebelowcmb
N gershayimhebrew	N gravecmb
N getamark	N gravecomb
N ghabengali	N gravedeva
N ghadarmenian	N gravelowmod

N gravemonospace	N hamzalowkasratanarabic
N gravetonecmb	N hamzasukunarabic
N greater	N hangulfiller
N greaterequal	N hardsigncyrillic
N greaterequalorless	N harpoonleftbarbup
N greatermonospace	N harpoonrightbarbup
N greaterorequivalent	N hasquare
N greaterorless	N hatafpatah
N greateroverequal	N hatafpatah16
N greatersmall	N hatafpatah23
N gscript	N hatafpatah2f
N gstroke	N hatafpatahhebrew
N guhiragana	N hatafpatahnarrowhebrew
N guillemotleft	N hatafpatahquarterhebrew
N guillemotright	N hatafpatahwidehebrew
N guilsinglleft	N hatafqamats
N guilsinglright	N hatafqamats1b
N gukatakana	N hatafqamats28
N guramusquare	N hatafqamats34
N gysquare	N hatafqamatshebrew
N h	N hatafqamatsnarrowhebrew
N haabkhasiancyrillic	N hatafqamatsquarterhebrew
N haaltonearabic	N hatafqamatswidehebrew
N habengali	N hatafsegol
N hadescendercyrillic	N hatafsegol17
N hadeva	N hatafsegol24
N hagujarati	N hatafsegol30
N hagurmukhi	N hatafsegolhebrew
N haharabic	N hatafsegolnarrowhebrew
N hahfinalarabic	N hatafsegolquarterhebrew
N hahinitialarabic	N hatafsegolwidehebrew
N hahiragana	N hbar
N hahmedialarabic	N hbopomofo
N haitusquare	N hbrevebelow
N hakatakana	N hcedilla
N hakatakanahalfwidth	N hcircle
N halantgurmukhi	N hcircumflex
N hamzaarabic	N hdieresis
N hamzadammaarabic	N hdotaccent
N hamzadammatanarabic	N hdotbelow
N hamzafathaarabic	N he
N hamzafathatanarabic	N heart
N hamzalarabic	N heartsuitblack
N hamzalowkasraarabic	N heartsuitwhite

N hedagesh	N hohipthai
N hedageshhebrew	N hohiragana
N hehaltonearabic	N hokatakana
N heharabic	N hokatakanahalfwidth
N hehebrew	N holam
N hehfinalalttonearabic	N holam19
N hehfinalalttwoarabic	N holam26
N hehfinalarabic	N holam32
N hehhamzaabovefinalarabic	N holamhebrew
N hehhamzaaboveisolatedarabic	N holamnarrowhebrew
N hehinitialalttonearabic	N holamquarterhebrew
N hehinitialarabic	N holamwidehebrew
N hehiragana	N honokhukthai
N hehmedialalttonearabic	N hookabovecmb
N hehmedialarabic	N hookcmb
N heiseierasquare	N hookpalatalizedbelowcmb
N hekatakana	N hookretroflexbelowcmb
N hekatakanahalfwidth	N hoonsquare
N hekutaarusquare	N horicoptic
N henghook	N horizontalbar
N herutusquare	N horncmb
N het	N hotsprings
N hethebrew	N house
N hhook	N hparen
N hhooksuperior	N hsuperior
N hieuhacirclekorean	N hturned
N hieuhaparenkorean	N huhiragana
N hieuhcirclekorean	N huiitosquare
N hieuhkorean	N hukatakana
N hieuhparenkorean	N hukatakanahalfwidth
N hhiragana	N hungarumlaut
N hikatakana	N hungarumlautcmb
N hikatakanahalfwidth	N hv
N hiriq	N hyphen
N hiriq14	N hyphenmonospace
N hiriq21	N hyphensmall
N hiriq2d	N hyphentwo
N hiriqhebrew	N i
N hiriqnarrowhebrew	N iacute
N hiriqquarterhebrew	N iacyrillic
N hiriqwidehebrew	N ibengali
N hlinebelow	N ibopomofo
N hmonospace	N ibreve
N hoarmenian	N icaron

N icircle	N ideographicstudyparen
N icircumflex	N ideographicsunparen
N icyrillic	N ideographicsuperviseparen
N idblgrave	N ideographicwaterparen
N ideographearthcircle	N ideographicwoodparen
N ideographfirecircle	N ideographiczero
N ideographicallianceparen	N ideographmetalcircle
N ideographiccallparen	N ideographmooncircle
N ideographiccentrecircle	N ideographnamecircle
N ideographicclose	N ideographsuncircle
N ideographiccomma	N ideographwatercircle
N ideographiccommaleft	N ideographwoodcircle
N ideographiccongratulationparen	N ideva
N ideographiccorrectcircle	N idieresis
N ideographicearthparen	N idieresisacute
N ideographicenterpriseparen	N idieresiscyrillic
N ideographicexcellentcircle	N idotbelow
N ideographicfestivalparen	N iebrevecyrillic
N ideographicfinancialcircle	N icyrillic
N ideographicfinancialparen	N ieungacirclekorean
N ideographicfireparen	N ieungaparenkorean
N ideographichaveparen	N ieungcirclekorean
N ideographichighcircle	N ieungkorean
N ideographiciterationmark	N ieungparenkorean
N ideographiclaborcircle	N igrave
N ideographiclaborparen	N igujarati
N ideographicleftcircle	N igurmukhi
N ideographiclowcircle	N ihiragana
N ideographicmedicinecircle	N ihookabove
N ideographicmetalparen	N ibengali
N ideographicmoonparen	N icyrillic
N ideographicnameparen	N ideva
N ideographicperiod	N iigujarati
N ideographicprintcircle	N iigurmukhi
N ideographicreachparen	N iimatragurmukhi
N ideographicrepresentparen	N iinvertedbreve
N ideographicresourceparen	N iishortcyrillic
N ideographicrightcircle	N iivowelsignbengali
N ideographicsecretcircle	N iivowelsigndeva
N ideographicselfparen	N iivowelsigngujarati
N ideographicsocietyparen	N ij
N ideographicspace	N ikatakana
N ideographicspecialparen	N ikatakanahalfwidth
N ideographicstockparen	N ikorean

N ilde	N izhitsadblgravecyrillic
N iluyhebrew	N j
N imacron	N jaarmenian
N imacroncyrillic	N jabengali
N imageorapproximatelyequal	N jadeva
N imatragurmukhi	N jagujarati
N imonospace	N jagurmukhi
N increment	N jbopomofo
N infinity	N jcaron
N iniarmenian	N jcircle
N integral	N jcircumflex
N integralbottom	N jcrossetail
N integralbt	N jdotlessstroke
N integraltop	N jecyrillic
N integraltp	N jeemarabic
N intersection	N jeemfinalarabic
N intisquare	N jeeminitialarabic
N invbullet	N jeemmedialarabic
N invcircle	N jeharabic
N invsmileface	N jehfinalarabic
N iocyrillic	N jhabengali
N iogonek	N jhadeva
N iota	N jhagujarati
N iotadieresis	N jhagurmukhi
N iotadieresis-tonos	N jheharmenian
N iotalatin	N jis
N iotatonos	N jmonospace
N iparen	N jparen
N irigurmukhi	N jsuperior
N ismallhiragana	N k
N ismallkatakana	N kabashkircyrillic
N ismallkatakana-halfwidth	N kabengali
N issharbengali	N kacute
N istroke	N kacyrillic
N iterationhiragana	N kadescendercyrillic
N iterationkatakana	N kadeva
N itilde	N kaf
N itildebelow	N kafarabic
N iubopomofo	N kafdagesh
N iucyrillic	N kafdageshhebrew
N ivowelsignbengali	N kaffinalarabic
N ivowelsigndeva	N kafhebrew
N ivowelsigngujarati	N kafinitialarabic
N izhitsacyrillic	N kafmedialarabic

N kafrafebrew	N khahinitialarabic
N kagujarati	N khahmedialarabic
N kagurmukhi	N kheicoptic
N kahiragana	N khhadeva
N kahookcyrillic	N khhagurmukhi
N kakatakana	N khieukhacirclekorean
N kakatakanahalfwidth	N khieukhaparenkorean
N kappa	N khieukhcirclekorean
N kappasymbolgreek	N khieukhkorean
N kapyeounmieumkorean	N khieukhparenkorean
N kapyeounphieuphkorean	N khokhaithai
N kapyeounpieupkorean	N khokhonthai
N kapyeounssangpieupkorean	N khokhuatthai
N karoriisquare	N khokhwaithai
N kashidaautoarabic	N khomutthai
N kashidaautosidebearingarabic	N khook
N kasmallkatakana	N khorakhangthai
N kasquare	N khzsquare
N kasraarabic	N kihiragana
N kasratanarabic	N kikatakana
N kastrokecyrillic	N kikatakanahalfwidth
N katahiraprolongmarkhalfwidth	N kioguramusquare
N kavericalstrokecyrillic	N kiromeetorusquare
N kbopomofo	N kirosquare
N kcalsquare	N kiyeokacirclekorean
N kcaron	N kiyeokaparenkorean
N kcedilla	N kiyeokcirclekorean
N kcircle	N kiyeokkorean
N kcommaaccent	N kiyeokparenkorean
N kdotbelow	N kiyeoksioskorean
N keharmerian	N kjecyrillic
N kehiragana	N klinebelow
N kekatakana	N klsquare
N kekatakanahalfwidth	N kmcubedsquare
N kenarmenian	N kmonospace
N kesmallkatakana	N kmsquaredsquare
N kgreenlandic	N kohiragana
N khabengali	N kohmsquare
N khacyrillic	N kokaithai
N khadeva	N kokatakana
N khagujarati	N kokatakanahalfwidth
N khagurmukhi	N kooposquare
N khaharabic	N koppacyrillic
N khahfinalarabic	N koreanstandardsymbol

N koroniscmb	N lammeemhahinitialarabic
N kparen	N lammeeminitialarabic
N kpsquare	N lammeemjeeminitialarabic
N ksicyrillic	N lammeemkhahinitialarabic
N ktsquare	N largecircle
N kturned	N lbar
N kuhiragana	N lbelt
N kukatakana	N lbopomofo
N kukatakanahalfwidth	N lcaron
N kvsquare	N lcedilla
N kwsquare	N lcircle
N l	N lcircumflexbelow
N labengali	N lcommaaccent
N lacute	N ldot
N ladeva	N ldotaccent
N lagujarati	N ldotbelow
N lagurmukhi	N ldotbelowmacron
N lakkhangyaothai	N leftangleabovecmb
N lamaleffinalarabic	N lefttackbelowcmb
N lamalefhamzaabovefinalarabic	N less
N lamalefhamzaaboveisolatedarabic	N lessequal
N lamalefhamzabelowfinalarabic	N lessequalorgreater
N lamalefhamzabelowisolatedarabic	N lessmonospace
N lamalefisolatedarabic	N lessorequivalent
N lamalefmaddaabovefinalarabic	N lessorgreater
N lamalefmaddaaboveisolatedarabic	N lessorequal
N lamarabic	N lesssmall
N lambda	N lezh
N lambdastroke	N lfblock
N lamed	N lhookretroflex
N lameddagesh	N lira
N lameddageshhebrew	N liwnarmenian
N lamedhebrew	N lj
N lamedholam	N ljecyrillic
N lamedholamdagesh	N lladeva
N lamedholamdageshhebrew	N llagujarati
N lamedholamhebrew	N llinebelow
N lamfinalarabic	N llladeva
N lamhahinitialarabic	N llvocalicbengali
N laminitialarabic	N llvocalicdeva
N lamjeeminitialarabic	N llvocalicvowelsignbengali
N lamkhahinitialarabic	N llvocalicvowelsigndeva
N lamlamhehisolatedarabic	N lmiddletilde
N lammedialarabic	N lmonospace

N lmsquare	N makatakanahalfwidth
N lochulathai	N male
N logicaland	N mansyonsquare
N logicalnot	N maqafhebrew
N logicalnotreversed	N mars
N logicalor	N masoracirclehebrew
N lolingthai	N masquare
N longs	N mbopomofo
N lowlinecenterline	N mbsquare
N lowlinecmb	N mcircle
N lowlinedashed	N mcubedsquare
N lozenge	N mdotaccent
N lparen	N mdotbelow
N lslash	N meemarabic
N lsquare	N meemfinalarabic
N ltshade	N meeminitialarabic
N luthai	N meemmedialarabic
N lvocalicbengali	N meemmeeminitialarabic
N lvocalicdeva	N meemmeemisolatedarabic
N lvocalicvowelsignbengali	N meetorusquare
N lvocalicvowelsigndeva	N mehiragana
N lxsquare	N meizierasquare
N m	N mekatakana
N mabengali	N mekatakanahalfwidth
N macron	N mem
N macronbelowcmb	N memdagesh
N macroncmb	N memdageshhebrew
N macronlowmod	N memhebrew
N macronmonospace	N menarmenian
N macute	N merkhahebrew
N madeva	N merkhakefulahebrew
N magujarati	N merkhakefulalefthebrew
N magurmukhi	N merkhalefthebrew
N mahapakhhebrew	N mhook
N mahapakhlefthebrew	N mhzsquare
N mahiragana	N middledotkatakanahalfwidth
N maichattawathai	N middot
N maiekthai	N mieumacirclekorean
N maihanakatthai	N mieumaparenkorean
N maitaikhuthai	N mieumcirclekorean
N maithothai	N mieumkorean
N maitrithai	N mieumpansioskorean
N maiyamokthai	N mieumparenkorean
N makatakana	N mieumpieupkorean



N mieumsioskorean	N munahlefthebrew
N mihiragana	N musicalnote
N mikatakana	N musicalnotedbl
N mikatakanahalfwidth	N musicflatsign
N minus	N musicsharpsign
N minusbelowcmb	N mussquare
N minuscircle	N muvsquare
N minusmod	N muwsquare
N minusplus	N mvmeegasquare
N minute	N mvsquare
N miribaarusquare	N mwmegasquare
N mirisquare	N mwsquare
N mlonglegturned	N n
N mlsquare	N nabengali
N mmcubedsquare	N nabla
N mmonospace	N nacute
N mmsquaredsquare	N nadeva
N mohiragana	N nagujarati
N mohmsquare	N nagurmukhi
N mokatakana	N nahiragana
N mokatakanahalfwidth	N nakatakana
N molsquare	N nakatakanahalfwidth
N momathai	N napostrophe
N moverssquare	N nasquare
N moverssquaredsquare	N nbopomofo
N mparen	N nbspace
N mpasquare	N ncaron
N mssquare	N ncedilla
N mturned	N ncircle
N mu	N ncircumflexbelow
N mul	N ncommaaccent
N muasquare	N ndotaccent
N muchgreater	N ndotbelow
N muchless	N nehiragana
N mufsquare	N nekatakana
N mugreek	N nekatakanahalfwidth
N mugsquare	N newsheqelsign
N muhiragana	N nfsquare
N mukatakana	N ngabengali
N mukatakanahalfwidth	N ngadeva
N mulsquare	N ngagujarati
N multiply	N ngagurmukhi
N mumsquare	N ngonguthai
N munahhebrew	N nhiragana

N nhookleft	N nmonospace
N nhookretroflex	N nmssquare
N nieunacirclekorean	N nnabengali
N nieunaparenkorean	N nnadeva
N nieuncieuckorean	N nnagujarati
N nieuncirclekorean	N nnagurmukhi
N nieunhieuhkorean	N nnnadeva
N nieunkorean	N nohiragana
N nieunpansioskorean	N nokatakana
N nieunparenkorean	N nokatakanahalfwidth
N nieunsioskorean	N nonbreakingspace
N nieuntikeutkorean	N nonenthai
N nihiragana	N nonuthai
N nikatakana	N noonarabic
N nikatakanahalfwidth	N noonfinalarabic
N nikhahitthai	N noonghunnaarabic
N nine	N noonghunnafinalarabic
N ninearabic	N noonhehinitialarabic
N ninebengali	N nooninitialarabic
N ninecircle	N noonjeeminitialarabic
N ninecircleinversesansserif	N noonjeemisolatedarabic
N ninedeva	N noonmedialarabic
N ninegujarati	N noonmeeminitialarabic
N ninegurmukhi	N noonmeemisolatedarabic
N ninehackarabic	N noonnoonfinalarabic
N ninehangzhou	N notcontains
N nineideographicparen	N notelement
N nineinferior	N notelementof
N ninemonospace	N notequal
N nineparen	N notgreater
N nineperiod	N notgreaternorequal
N ninepersian	N notgreaternorless
N nineroman	N notidentical
N ninesuperior	N notless
N nineteencircle	N notlessnorequal
N nineteenparen	N notparallel
N nineteenperiod	N notprecedes
N ninethai	N notsubset
N nj	N notsucceeds
N njecyrillic	N notsuperset
N nkatakana	N nowarmenian
N nkatakanahalfwidth	N nparen
N nlegrightlong	N nssquare
N nlinebelow	N nsuperior

N ntilde	N ocircumflexhookabove
N nu	N ocircumflextilde
N nuhiragana	N ocyrillic
N nukatakana	N odblacute
N nukatakanahalfwidth	N odblgrave
N nuktabengali	N odeva
N nuktadeva	N odieresis
N nuktagujarati	N odieresiscyrillic
N nuktagurmukhi	N odotbelow
N numbersign	N oe
N numbersignmonospace	N oekorean
N numbersignsmall	N ogonek
N numeralsigngreek	N ogonekcmb
N numeralsignlowergreek	N ograve
N numero	N ogujarati
N nun	N oharmenian
N nundagesh	N ohiragana
N nundageshhebrew	N ohookabove
N nunhebrew	N ohorn
N nvsquare	N ohornacute
N nwsquare	N ohorndotbelow
N nyabengali	N ohorngrave
N nyadeva	N ohornhookabove
N nyagujarati	N ohorntilde
N nyagurmukhi	N ohungarumlaut
N o	N oi
N oacute	N oinvertedbreve
N oangthai	N okatakana
N obarred	N okatakanahalfwidth
N obarredcyrillic	N okorean
N obarreddieresiscyrillic	N olehebrew
N obengali	N omacron
N obopomofo	N omacronacute
N obreve	N omacrongrave
N ocandradeva	N omdeva
N ocandragujarati	N omega
N ocandravowelsigndeva	N omegal
N ocandravowelsigngujarati	N omegacyrillic
N ocaron	N omegalatinclosed
N ocircle	N omegaroundcyrillic
N ocircumflex	N omegatitlocyrillic
N ocircumflexacute	N omegatonos
N ocircumflexdotbelow	N omgujarati
N ocircumflexgrave	N omicron

N omicron-tonos	N osmallkatakana-halfwidth
N omonospace	N ostrokeacute
N one	N otcyrillic
N one-arabic	N otilde
N one-bengali	N otildeacute
N one-circle	N otildedieresis
N one-circle-inverted sans-serif	N oubopomofo
N one-deva	N overline
N one-doten leader	N overline-centerline
N one-eighth	N overline-cmb
N one-gujarati	N overline-dashed
N one-gurmukhi	N overline-dblwavy
N one-hackarabic	N overline-wavy
N one-half	N overscore
N one-hangzhou	N ovowel-sign-bengali
N one-ideographic paren	N ovowel-sign-deva
N one-inferior	N ovowel-sign-gujarati
N one-monospace	N p
N one-numerator-bengali	N paamp-square
N one-paren	N pa-asent-square
N one-period	N pa-bengali
N one-persian	N pa-cute
N one-quarter	N pa-deva
N one-roman	N pa-gedown
N one-superior	N pa-geup
N one-thai	N pa-gujarati
N one-third	N pa-gurmukhi
N oogonek	N pa-hiragana
N oogonek-macron	N pa-ian-noi-thai
N oogurmukhi	N pa-katakana
N ooma-tragurmukhi	N pa-latalization-cyrillic-cmb
N oopen	N pa-lochka-cyrillic
N oparen	N pa-sio-sko-rean
N openbullet	N pa-paragraph
N option	N pa-parallel
N ord-feminine	N pa-paren-left
N ord-masculine	N pa-paren-left-alt-tone-arabic
N orthogonal	N pa-paren-left-inferior
N oshortdeva	N pa-paren-left-monospace
N oshortvowel-sign-deva	N pa-paren-left-small
N oslash	N pa-paren-left-superior
N oslashacute	N pa-paren-left-vertical
N osmallhiragana	N pa-paren-right
N osmallkatakana	N pa-paren-right-alt-tone-arabic

N parenrightinferior	N periodhalfwidth
N parenrightmonospace	N periodmonospace
N parenrightsmall	N periodsmall
N parenrightsuperior	N perispomenigreekcmb
N parenrightvertical	N perpendicular
N partialdiff	N perthousand
N paseqhebrew	N peseta
N pashtahebrew	N pfsquare
N pasquare	N phabengali
N patah	N phadeva
N patahl1	N phagujarati
N patahld	N phagurmukhi
N patah2a	N phi
N patahhebrew	N phil
N patahnarrowhebrew	N phieuphacirclekorean
N patahquarterhebrew	N phieuphaparenkorean
N patahwidehebrew	N phieuphcirclekorean
N pazerhebrew	N phieuphkorean
N pbopomofo	N phieuphparenkorean
N pcircle	N philatin
N pdotaccent	N phinthuthai
N pe	N phisymbolgreek
N pecyrillic	N phook
N pedagesh	N phophanthai
N pedageshhebrew	N phophungthai
N peezisquare	N phosamphaothai
N pefinaldageshhebrew	N pi
N peharabic	N pieupacirclekorean
N peharmenian	N pieupaparenkorean
N pehebrew	N pieupcieuckorean
N pehfinalarabic	N pieupcirclekorean
N pehinitialarabic	N pieupkiyeokkorean
N pehiragana	N pieupkorean
N pehmedialarabic	N pieupparenkorean
N pekatakana	N pieupsioskiyeokkorean
N pemiddlehookcyrillic	N pieupsioskorean
N perafehebrew	N pieupsiosstikeutkorean
N percent	N pieupthieuthkorean
N percentarabic	N pieuptikeutkorean
N percentmonospace	N pihiragana
N percentsmall	N pikatakana
N period	N pisymbolgreek
N periodarmenian	N piwrarmenian
N periodcentered	N plus

N plusbelowcmb	N qafinitialarabic
N pluscircle	N qafmedialarabic
N plusminus	N qamats
N plusmod	N qamats10
N plusmonospace	N qamats1a
N plussmall	N qamats1c
N plussuperior	N qamats27
N pmonospace	N qamats29
N pmsquare	N qamats33
N pohiragana	N qamatsde
N pointingindexdownwhite	N qamatshebrew
N pointingindexleftwhite	N qamatsnarrowhebrew
N pointingindexrightwhite	N qamatsqatanhebrew
N pointingindexupwhite	N qamatsqatanarrowhebrew
N pokatakana	N qamatsqatanquarterhebrew
N poplathai	N qamatsqatanwidehebrew
N postalmark	N qamatsquarterhebrew
N postalmarkface	N qamatswidehebrew
N pparen	N qarneyparahebrew
N precedes	N qbopomofo
N prescription	N qcircle
N primemod	N qhook
N primereversed	N qmonospace
N product	N qof
N projective	N qofdagesh
N prolongedkana	N qofdageshhebrew
N propellor	N qofhatafpatah
N propersubset	N qofhatafpatahhebrew
N propersuperset	N qofhatafsegol
N proportion	N qofhatafsegolhebrew
N proportional	N qofhebrew
N psi	N qofhiriq
N psicyrillic	N qofhiriqhebrew
N psilipneumatacyrilliccmb	N qofholam
N pssquare	N qofholamhebrew
N puhiragana	N qofpatah
N pukatakana	N qofpatahhebrew
N pvsquare	N qofqamats
N pwsquare	N qofqamatshebrew
N q	N qofqubuts
N qadeva	N qofqubutshebrew
N qadmahebrew	N qofsegol
N qafarabic	N qofsegolhebrew
N qaffinalarabic	N qofsheva

N qofshevahebrew	N rafehebrew
N qoftsere	N ragujarati
N qoftserehebrew	N ragurmukhi
N qparen	N rahiragana
N quarternote	N rakatakana
N qubuts	N rakatakanahalfwidth
N qubuts18	N ralowerdiagonalbengali
N qubuts25	N ramiddlediagonalbengali
N qubuts31	N ramshorn
N qubutshebrew	N ratio
N qubutsnarrowhebrew	N rbopomofo
N qubutsquarterhebrew	N rcaron
N qubutswidehebrew	N rcedilla
N question	N rcircle
N questionarabic	N rcommaaccent
N questionarmenian	N rdblgrave
N questiondown	N rdotaccent
N questiongreek	N rdotbelow
N questionmonospace	N rdotbelowmacron
N quotedbl	N referencemark
N quotedblbase	N reflexsubset
N quotedblleft	N reflexsuperset
N quotedblmonospace	N registered
N quotedblprime	N reharabic
N quotedblprimereversed	N reharmenian
N quotedblright	N rehfinalarabic
N quoteleft	N rehiragana
N quoteleftreversed	N rehyehaleflamarabic
N quotereversed	N rekatakana
N quoteright	N rekatakanahalfwidth
N quoterightn	N resh
N quotesinglbase	N reshdageshhebrew
N quotesingle	N reshhatafpatah
N quotesinglemonospace	N reshhatafpatahhebrew
N r	N reshhatafsegol
N raarmenian	N reshhatafsegolhebrew
N rabengali	N reshhebrew
N racute	N reshhiriq
N radeva	N reshhiriqhebrew
N radical	N reshholam
N radoversssquare	N reshholamhebrew
N radoversssquaredsquare	N reshpatah
N radsquare	N reshpatahhebrew
N rafe	N reshqamats

N reshqamatshebrew	N rikatakana
N reshqubuts	N rikatakanahalfwidth
N reshqubutshebrew	N ring
N reshsegol	N ringbelowcmb
N reshsegolhebrew	N ringcmb
N reshsheva	N ringhalfleft
N reshshevahebrew	N ringhalfleftarmenian
N reshtsere	N ringhalfleftbelowcmb
N reshtserehebrew	N ringhalfleftcentered
N reversedtilde	N ringhalfright
N reviahebrew	N ringhalfrightbelowcmb
N reviamugrashhebrew	N ringhalfrightcentered
N revlogicalnot	N rinvertedbreve
N rfishhook	N rittorusquare
N rfishhookreversed	N rlinebelow
N rhabengali	N rlongleg
N rhadeva	N rlonglegturned
N rho	N rmonospace
N rhook	N rohiragana
N rhookturned	N rokatakana
N rhookturnedsuperior	N rokatakanahalfwidth
N rhesymbolgreek	N roruathai
N rhotichookmod	N rparen
N rieulacirclekorean	N rrabengali
N rieulaparenkorean	N rradeva
N rieulcirclekorean	N rragurmukhi
N rieulhieuhkorean	N rreharabic
N rieulkiyeokkorean	N rrehfinalarabic
N rieulkiyeoksioskorean	N rrvocalicbengali
N rieulkorean	N rrvocalicdeva
N rieulmieumkorean	N rrvocalicgujarati
N rieulpansioskorean	N rrvocalicvowelsignbengali
N rieulparenkorean	N rrvocalicvowelsigndeva
N rieulphieuphkorean	N rrvocalicvowelsigngujarati
N rieulpieupkorean	N rtblock
N rieulpieupsioskorean	N rturned
N rieulsioskorean	N rturnedsuperior
N rieulthieuthkorean	N ruhiragana
N rieultikeutkorean	N rukatakana
N rieulyeorinhieuhkorean	N rukatakanahalfwidth
N rightangle	N rupeemarkbengali
N righttackbelowcmb	N rupeesignbengali
N righttriangle	N ruthai
N rhiragana	N rvocalicbengali



N rvocalicdeva  
 N rvocalicgujarati  
 N rvocalicvowelsignbengali  
 N rvocalicvowelsigndeva  
 N rvocalicvowelsigngujarati  
 N s  
 N sabengali  
 N sacute  
 N sacutedotaccent  
 N sadarabic  
 N sadeva  
 N sadfinalarabic  
 N sadinitialarabic  
 N sadmedialarabic  
 N sagujarati  
 N sagurmukhi  
 N sahiragana  
 N sakatakana  
 N sakatakanahalfwidth  
 N sallallahoualayhewasallamarabic  
 N samekh  
 N samekhdagesh  
 N samekhdageshhebrew  
 N samekhhebrew  
 N saraaathai  
 N saraaethai  
 N saraaimaimalaithai  
 N saraaimaimuanthai  
 N saraamthai  
 N saraathai  
 N saraethai  
 N saraiithai  
 N saraithai  
 N saraothai  
 N saraueethai  
 N sarauethai  
 N sarauthai  
 N sarauuthai  
 N sbopomofo  
 N scaron  
 N scarondotaccent  
 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 segol13  
 N segol1f  
 N segol2c  
 N segolhebrew  
 N segolnarrowhebrew  
 N segolquarterhebrew  
 N segoltahebrew  
 N segolwidehebrew  
 N seharmonian  
 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 sevendeve  
 N seveneighths

N sevensgujarati	N sheva
N sevensgurmukhi	N sheva115
N sevenhackarabic	N sheva15
N sevenhangzhou	N sheva22
N sevenideographicparen	N sheva2e
N seveninferior	N shevahebrew
N sevenmonospace	N shevanarrowhebrew
N sevenparen	N shevaquarterhebrew
N sevenperiod	N shevawidehebrew
N sevenpersian	N shhacyrillic
N sevenroman	N shimacoptic
N sevensuperior	N shin
N seventeencircle	N shindagesh
N seventeenparen	N shindageshhebrew
N seventeenperiod	N shindageshshindot
N seventhai	N shindageshshindothebrew
N sfthyphen	N shindageshsindot
N shaarmenian	N shindageshsindothebrew
N shabengali	N shindothebrew
N shacyrillic	N shinhebrew
N shaddaarabic	N shinshindot
N shaddadammaarabic	N shinshindothebrew
N shaddadammatanarabic	N shinsindot
N shaddafathaarabic	N shinsindothebrew
N shaddafathatanarabic	N shook
N shaddakasraarabic	N sigma
N shaddakasratanarabic	N sigmal
N shade	N sigmafinal
N shadedark	N sigmalunatesymbolgreek
N shadelight	N sihiragana
N shademedium	N sikatakana
N shadeva	N sikatakanahalfwidth
N shagujarati	N siluqhebrew
N shagurmukhi	N siluqlfthebrew
N shalshethebrew	N similar
N shbopomofo	N sindothebrew
N shchacyrillic	N siosacirclekorean
N sheenarabic	N siosaparenkorean
N sheenfinalarabic	N sioscieuckorean
N sheeninitialarabic	N sioscirclekorean
N sheenmedialarabic	N sioskiyeokkorean
N sheicoptic	N sioskorean
N sheqel	N siosnieunkorean
N sheqelhebrew	N siosparenkorean

N siospieupkorean	N spacehackarabic
N siostikeutkorean	N spade
N six	N spadesuitblack
N sixarabic	N spadesuitwhite
N sixbengali	N sparen
N sixcircle	N squarebelowcmb
N sixcircleinversesansserif	N squarecc
N sixdeva	N squarecm
N sixgujarati	N squarediagonalcrosshatchfill
N sixgurmukhi	N squarehorizontalfill
N sixhackarabic	N squarekg
N sixhangzhou	N squarekm
N sixideographicparen	N squarekmcapital
N sixinferior	N squareln
N sixmonospace	N squarelog
N sixparen	N squaremg
N sixperiod	N squaremil
N sixpersian	N squaremm
N sixroman	N squaremsquared
N sixsuperior	N squareorthogonalcrosshatchfill
N sixteencircle	N squareupperlefttolowerrightfill
N sixteencurrencydenominatorbengali	N squareupperrighttolowerleftfill
N sixteenparen	N squareverticalfill
N sixteenperiod	N squarewhitewithsmallblack
N sixthai	N srsquare
N slash	N ssabengali
N slashmonospace	N ssadeva
N slong	N ssagujarati
N slongdotaccent	N ssangcieuckorean
N smileface	N ssanghieuhkorean
N smonospace	N ssangieungkorean
N sofpassuqhebrew	N ssangkiyeokkorean
N softthyphen	N ssangnieunkorean
N softsigncyrillic	N ssangpieupkorean
N sohiragana	N ssangsioskorean
N sokatakana	N ssangtikeutkorean
N sokatakanahalfwidth	N sterling
N soliduslongoverlaycmb	N sterlingmonospace
N solidusshortoverlaycmb	N strokelongoverlaycmb
N sorusithai	N strokeshortoverlaycmb
N sosalathai	N subset
N sosothai	N subsetnotequal
N sosuathai	N subsetorequal
N space	N succeeds

N suchthat	N tcircle
N suhiragana	N tccircumflexbelow
N sukatakana	N tcommaaccent
N sukatakanahalfwidth	N tdieresis
N sukunarabic	N tdotaccent
N summation	N tdotbelow
N sun	N tecyrillic
N superset	N tedescendercyrillic
N supersetnotequal	N teharabic
N supersetorequal	N tehfinalarabic
N svsquare	N tehahinitialarabic
N syouwaerasquare	N tehahisolatedarabic
N t	N tehinitialarabic
N tabengali	N tehiragana
N tackdown	N tehjeeminitialarabic
N tackleft	N tehjeemisolatedarabic
N tadeva	N tehmarbutaarabic
N tagujarati	N tehmarbutafinalarabic
N tagurmukhi	N tehmedialarabic
N taharabic	N tehmeeminitialarabic
N tahfinalarabic	N tehmeemisolatedarabic
N tahinitialarabic	N tehnoonfinalarabic
N tahiragana	N tekatakana
N tahmedialarabic	N tekatakanahalfwidth
N taisyouerasquare	N telephone
N takatakana	N telephoneblack
N takatakanahalfwidth	N telishagedolahebrew
N tatweelarabic	N telishaqetanahebrew
N tau	N tencircle
N tav	N tenideographicparen
N tavgages	N tenparen
N tavgagesh	N tenperiod
N tavgageshhebrew	N tenroman
N tavhebrew	N tesh
N tbar	N tet
N tbopomofo	N tetdagesh
N tcaron	N tetdageshhebrew
N tccurl	N tethebrew
N tcedilla	N tetsecyrillic
N tcheharabic	N tevirhebrew
N tchehfinalarabic	N tevirlefthebrew
N tchehinitialarabic	N thabengali
N tchehmedialarabic	N thadeva
N tchehmeeminitialarabic	N thagujarati

N thagurmukhi	N threeinferior
N thalarabic	N threemonospace
N thalfinalarabic	N threenumeratorbengali
N thanthakhatthai	N threeparen
N theharabic	N threepersian
N thefinalarabic	N threepersian
N theinitialarabic	N threepersian
N themedialarabic	N threepersian
N thereexists	N threesuperior
N therefore	N threethai
N theta	N thzsquare
N thetal	N tihiragana
N thetasymbolgreek	N tikatakana
N thieuthacirclekorean	N tikatakanahalfwidth
N thieuthaparenkorean	N tikeutacirclekorean
N thieuthcirclekorean	N tikeutaparenkorean
N thieuthkorean	N tikeutcirclekorean
N thieuthparenkorean	N tikeutkorean
N thirteencircle	N tikeutparenkorean
N thirteenparen	N tilde
N thirteenperiod	N tildebelowcmb
N thonangmonthothai	N tildecmb
N thook	N tildecomb
N thophuthaothai	N tildedoublecmb
N thorn	N tildeoperator
N thothahanthai	N tildeoverlaycmb
N thothanthai	N tildeverticalcmb
N thothongthai	N timescircle
N thothungthai	N tipehahebrew
N thousandcyrillic	N tipehalefthebrew
N thousandsseparatorarabic	N tippigurmukhi
N thousandsseparatorpersian	N titlocyrilliccmb
N three	N tiwnarmenian
N threearabic	N tlinebelow
N threebengali	N tmonospace
N threecircle	N toarmenian
N threecircleinversesansserif	N tohiragana
N threedeva	N tokatakana
N threeeighths	N tokatakanahalfwidth
N threegujarati	N tonebarextrahighmod
N threegurmukhi	N tonebarextralowmod
N threehackarabic	N tonebarhighmod
N threehangzhou	N tonebarlowmod
N threeideographicparen	N tonebarmidmod

N tonefive	N tthabengali
N tonesix	N tthadeva
N tonetwo	N tthagujarati
N tonos	N tthagurmukhi
N tonsquare	N tturned
N topatakthai	N tuhiragana
N tortoiseshellbracketleft	N tukatakana
N tortoiseshellbracketleftsmall	N tukatakanahalfwidth
N tortoiseshellbracketleftvertical	N tusmallhiragana
N tortoiseshellbracketright	N tusmallkatakana
N tortoiseshellbracketrightsmall	N tusmallkatakanahalfwidth
N tortoiseshellbracketrightvertical	N twelvecircle
N totaotai	N twelveparen
N tpalatalhook	N twelveperiod
N tparen	N twelveroman
N trademark	N twentycircle
N retroflexhook	N twentyparen
N triagdn	N twentyperiod
N triaglf	N two
N triagrt	N twoarabic
N triagup	N twobengali
N ts	N twocircle
N tsadi	N twocircleinversesansserif
N tsadidagesh	N twodeva
N tsadidageshhebrew	N twodotenleader
N tsadihebrew	N twodotleader
N tsecyrillic	N twodotleadervetical
N tsere	N twogujarati
N tsere12	N twogurmukhi
N tsere1e	N twohackarabic
N tsere2b	N twohangzhou
N tserehebrew	N twoideographicparen
N tserenarrowhebrew	N twoinferior
N tserequarterhebrew	N twomonospace
N tserewidehebrew	N twonumeratorbengali
N tshecyrillic	N twoparen
N ttabengali	N twoperiod
N ttadeva	N twopersian
N ttagujarati	N tworoman
N ttagurmukhi	N twostroke
N tteharabic	N twosuperior
N ttefinalarabic	N twothai
N tteinitialarabic	N twothirds
N ttefinalarabic	N u

N uacute	N umonospace
N ubar	N underscore
N ubengali	N underscoredbl
N ubopomofo	N underscoremonospace
N ubreve	N underscorevertical
N ucaron	N underscorewavy
N ucircle	N union
N ucircumflex	N universal
N ucircumflexbelow	N uogonek
N ucyrillic	N uparen
N udattadeva	N upblock
N udblacute	N upperdothebrew
N udblgrave	N upsilon
N udeva	N upsilondieresis
N udieresis	N upsilondieresis-tonos
N udieresisacute	N upsilonlatin
N udieresisbelow	N upsilon-tonos
N udieresiscaron	N uptackbelowcmb
N udieresis-cyrillic	N uptackmod
N udieresisgrave	N uragurmukhi
N udieresis-macron	N uring
N udotbelow	N ushort-cyrillic
N ugrave	N usmallhiragana
N ugujarati	N usmallkatakana
N ugurmukhi	N usmallkatakana-halfwidth
N uhiragana	N ustraight-cyrillic
N uhookabove	N ustraight-stroke-cyrillic
N uhorn	N tilde
N uhornacute	N tildeacute
N uhorndotbelow	N tildebelow
N uhorngrave	N uubengali
N uhornhookabove	N uudeva
N uhorntilde	N uugujarati
N uhungarumlaut	N uugurmukhi
N uhungarumlaut-cyrillic	N uumatragurmukhi
N uinvertedbreve	N uuvowelsign-bengali
N ukatakana	N uuvowelsign-deva
N ukatakanahalfwidth	N uuvowelsign-gujarati
N uk-cyrillic	N uvowelsign-bengali
N ukorean	N uvowelsign-deva
N umacron	N uvowelsign-gujarati
N umacron-cyrillic	N v
N umacron-dieresis	N vadeva
N umatragurmukhi	N vagujarati

N vagurmukhi	N vuhiragana
N vakatakana	N vukatakana
N vav	N w
N vavdagesh	N wacute
N vavdagesh65	N waekorean
N vavdageshhebrew	N wahiragana
N vavhebrew	N wakatakana
N vavholam	N wakatakanahalfwidth
N vavholamhebrew	N wakorean
N vavvavhebrew	N wasmallhiragana
N vavyodhebrew	N wasmallkatakana
N vcircle	N wattosquare
N vdotbelow	N wavedash
N vecyrillic	N wavyunderscorevertical
N veharabic	N wawarabic
N vehfinalarabic	N wawfinalarabic
N vehinitialarabic	N wawhamzaabovearabic
N vehmedialarabic	N wawhamzaabovefinalarabic
N vekatakana	N wbsquare
N venus	N wcircle
N verticalbar	N wcircumflex
N verticallineabovecmb	N wdieresis
N verticallinebelowcmb	N wdotaccent
N verticallinelowmod	N wdotbelow
N verticallinemod	N wehiragana
N vewarmenian	N weierstrass
N vhook	N wekatakana
N vikatakana	N wekorean
N viramabengali	N weokorean
N viramadeva	N wgrave
N viramagujarati	N whitebullet
N visargabengali	N whitecircle
N visargadeva	N whitecircleinverse
N visargagujarati	N whitecornerbracketleft
N vmospace	N whitecornerbracketleftvertical
N voarmenian	N whitecornerbracketright
N voicediterationhiragana	N whitecornerbracketrightvertical
N voicediterationkatakana	N whitediamond
N voicedmarkkana	N whitediamondcontainingblacksmalldiamond
N voicedmarkkanahalfwidth	N whitedownpointingsmalltriangle
N vokatakana	N whitedownpointingtriangle
N vparen	N whiteleftpointingsmalltriangle
N vtilde	N whiteleftpointingtriangle
N vturned	N whitelenticularbracketleft



N whitelenticularbracketright	N yagujarati
N whiterightpointingsmalltriangle	N yagurmukhi
N whiterightpointingtriangle	N yahiragana
N whitesmallsquare	N yakatakana
N whitesmilingface	N yakatakanahalfwidth
N whitesquare	N yakorean
N whitestar	N yamakkanthai
N whitetelephone	N yasmallhiragana
N whitetortoiseshellbracketleft	N yasmallkatakana
N whitetortoiseshellbracketright	N yasmallkatakanahalfwidth
N whiteuppointingsmalltriangle	N yatcyrillic
N whiteuppointingtriangle	N ycircle
N wihiragana	N ycircumflex
N wikatakana	N ydieresis
N wikorean	N ydotaccent
N wmonospace	N ydotbelow
N wohiragana	N yeharabic
N wokatakana	N yehbarreearabic
N wokatakanahalfwidth	N yehbarreefinalarabic
N won	N yehfinalarabic
N wonmonospace	N yehhamzaabovearabic
N wowaenthai	N yehhamzaabovefinalarabic
N wparen	N yehhamzaaboveinitialarabic
N wring	N yehhamzaabovemedialarabic
N wsuperior	N yehinitialarabic
N wturned	N yehmedialarabic
N wynn	N yehmeeminitialarabic
N x	N yehmeemisolatedarabic
N xabovecmb	N yehnoonfinalarabic
N xbopomofo	N yethreedotsbelowarabic
N xcircle	N yekorean
N xdieresis	N yen
N xdotaccent	N yenmonospace
N xeharmenian	N yeokorean
N xi	N yeorinhieuhkorean
N xmonospace	N yerahbenyomohebrew
N xparen	N yerahbenyomolefthebrew
N xsuperior	N yericyrillic
N y	N yerudieresiscyrillic
N yaadosquare	N yesieungkorean
N yabengali	N yesieungpansioskorean
N yacute	N yesieungsioskorean
N yadeva	N yetivhebrew
N yaekorean	N ygrave

N yhook	N yusmallhiragana
N yhookabove	N yusmallkatakana
N yiarmenian	N yusmallkatakanahalfwidth
N yicyrillic	N yuyekorean
N yikorean	N yuyeokorean
N yinyang	N yyabengali
N yiwnarmenian	N yyadeva
N ymonospace	N z
N yod	N zaarmenian
N yoddagesh	N zacute
N yoddageshhebrew	N zadeva
N yodhebrew	N zagurmukhi
N yodyodhebrew	N zaharabic
N yodyodpatahhebrew	N zahfinalarabic
N yohiragana	N zahinitialarabic
N yoikorean	N zahiragana
N yokatakana	N zahmedialarabic
N yokatakanahalfwidth	N zainarabic
N yokorean	N zainfinalarabic
N yosmallhiragana	N zakatakana
N yosmallkatakana	N zaqefgdolhebrew
N yosmallkatakanahalfwidth	N zaqefqatanhebrew
N yotgreek	N zarqahebrew
N yoyaekorean	N zayin
N yoyakorean	N zayindagesh
N yoyakthai	N zayindageshhebrew
N yoyingthai	N zayinhebrew
N yparen	N zbopomofo
N ypogegrammeni	N zcaron
N ypogegrammenigreekcmb	N zcircle
N yr	N zcircumflex
N yring	N zcurl
N ysuperior	N zdot
N ytilde	N zdotaccent
N yturned	N zdotbelow
N yuhiragana	N zecyrillic
N yuikorean	N zedescendercyrillic
N yukatakana	N zedieresiscyrillic
N yukatakanahalfwidth	N zehiragana
N yukorean	N zekatakana
N yusbigcyrillic	N zero
N yusbigiotifiedcyrillic	N zeroarabic
N yuslittlecyrillic	N zerobengali
N yuslittleiotifiedcyrillic	N zerodeva

N zerogujarati		F type1	
N zerogurmukhi		T multiple	
N zerohackarabic		F opentype	
N zeroinferior		T substitution	
N zeromonospace		F opentype	
N zeropersian		<b>goodies</b>	<b>table</b>
N zerosuperior		D colorschemes	
N zerothai		T data	
N zerowidthjoiner		T dejavu-math	
N zerowidthnonjoiner		S author	
N zerowidthspace		S comment	
N zeta		S copyright	
N zhbopomofo		B initialized	
N zhearmenian		T mathematics	
N zhebrevecyrillic		T alternates	
N zhecyrillic		T dotless	
N zhedescendercyrillic		S comment	
N zhedieresiscyrillic		S feature	
N zhiragana		N value	
N zikatakana		T kerns	
N zinorhebrew		S name	
N zlinebelow		S version	
N zmonospace		D designsizes	
N zohiragana		D filenames	
N zokatakana		F getcompositions	
N zparen		T list	
N zretroflexhook		F load	
N zstroke		F prepare_features	
N zuhiragana		F register	
N zukatakana		F registerpostprocessor	
N version		F report	
		T suffixes	
<b>enhanceid</b>	function	<b>handlers</b>	<b>table</b>
<b>expansions</b>	data table	<b>hashes</b>	<b>table</b>
<b>formats</b>	data table	D characters	
<b>getalternate</b>	function	D classes	
<b>getdiscexpansion</b>	function	D csnames	
<b>getkern</b>	function	D descriptions	
<b>getmultiple</b>	function	D dynamics	
<b>getsubstitution</b>	function	D emwidths	
<b>getters</b>	table	D exheights	
T alternate		D extensibles	
F opentype		D features	
T kern		D identifiers	
F opentype			

- 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
- T streams
- D unicodes
- D variants
- D xheights

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- F addextraprivate
- F addprivate
- F dimenfactor
- F expandglyph
- F fontpatternhassize
- F getcoloredglyphs
- F getdigitwidth
- F getinstancespec
- F getparameters
- F getprivatecharornode
- F getprivatenode
- F getprivates
- F getprivateslot
- F hasprivate
- F indextoslot
- F name
- F nametoslot
- F setdigitwidth
- F splitfontpattern
- F tochar

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- F characters
- F descriptions
- F glyphs

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

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- 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		D data	
T i_j		F default	
N mess		D defaults	
S name		F definefallbackfamily	
T unicode		F definefontfamily	
F reset		F definefontfamilypreset	
F tounicode		D extras	
F tounicode16		F fallback	
F tounicode16sequence		D fallbacks	
<b>metapost</b>	table	F features	
F boundingbox		F filefallback	
F boxtomp		F fontdata	
F draw		F fontfallback	
F fill		F fontsynonym	
F maxbounds		F goodies	
F output		F mathfallback	
F paths		D methods	
F widthline		D presets	
F zeroline		F registerfallback	
<b>mp</b>	table	F registerfiles	
D cache		F registerfontalternative	
B inline		F registerfontfamily	
N version		F textfallback	
<b>names</b>	data table	F typeface	
<b>nulldata</b>	data table	F typescript	
<b>protrusions</b>	data table	F userdata	
<b>readers</b>	table	<b>setdiscexpansion</b>	function
F afm		<b>specifiers</b>	table
F check_lua		D contextmerged	
F check_tfm		F contextnumber	
F lua		D contextnumbers	
F ofm		D contextsetups	
F opentype		F contexttostring	
F otf		F definecontext	
F pfb		F mergecontext	
D sequence		F presetcontext	
F tfm		F registercontext	
F ttc		F showcontext	
F ttf		F splitcontext	
F woff		D synonyms	
<b>reserveid</b>	function	D variants	
<b>select</b>	table	<b>symbols</b>	table
D alternatives		F uselibrary	
F bodyfont		<b>tables</b>	table

D data  
F savefont  
F saveoriginal  
**tracers**  
**treatments**  
F applyfixes

table  
table

D data  
S filename  
F ignoredfile  
F report  
F trace  
**typefaces** table

# functions (context)

**dummy** function

# graphics (context)

**backgrounds** table

F fetchmultipar

F pair

F path

F point



## gzip (extra lua)

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**lines**    function

**load**    function

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## 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

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F define

F defineset

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F getidentity

F setupidentity

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F collect

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F register

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F addtopreamble

F code

D codes

F flushpreambles

D functions

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F storepreamble

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F usescripts

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F setupcanvas

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F setopendocument

F setopenpage

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# interfaces (context)

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<b>cachedsetups</b>	data table	F MPplus
<b>cachesetup</b>	function	F MPpos
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<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
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<b>getmessage</b>	function	F Romannumerals
<b>getnamespace</b>	function	F abjadnodotnumerals
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<b>implement</b>	function	F addcounter
<b>interfacedcommand</b>	function	F addfeature
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<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 analysefloatmethod
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 bt xhandlenocite
F autostarttext	F bt xlastofrange
F autostoptext	F bt xlistvariant
F averagecharwidth	F bt xloaddefinitionfile
F bitmapimage	F bt xloadjournallist
F blockcolumnset	F bt xloadreplacementfile
F blockligatures	F bt xoneorrange
F boxtostring	F bt xpreparelistentries
F bposcolumn	F bt xremapauthor
F bposcolumnregistered	F bt xsavedataset
F bt xabbreviatedjournal	F bt xsavejournallist
F bt xaddentry	F bt xsetdataset
F bt xaddjournal	F bt xsetentry
F bt xauthor	F bt xsetregister
F bt xauthorfield	F bt xsetspecification
F bt xauthorortoregister	F bt xsingularorplural
F bt xcollectlistentries	F bt xtoregister
F bt xcurrentfirstnames	F bt xusedataset
F bt xcurrentinitials	F bt xuservariable
F bt xcurrentjuniors	F buildtextaccent
F bt xcurrentsurnames	F character
F bt xcurrentvons	F characters
F bt xdetail	F chardescription
F bt xdirect	F checkcolumnset
F bt xdoif	F checkcounter setup
F bt xdoifelse	F checkedconversion
F bt xdoifelsecombiinlist	F checkedpagefloat
F bt xdoifelsesameasprevious	F checkinjector
F bt xdoifelseuservariable	F checkinterfacechain
F bt xdoifnot	F checktwopassdata
F bt xexpandedjournal	F chemicalcomponent
F bt xfetchlistentries	F chinesenumerals
F bt xfield	F cleanfontname
F bt xfieldname	F cleanupbox
F bt xfieldtype	F cleanuplayers
F bt xfirstofrange	F clonefield
F bt xflush	F collectfloat
F bt xflushlistcombi	F collecthelp
F bt xflushlistentry	F colorcomponents
F bt xflushmarked	F columnsetcurrentcolumn
F bt xflushpages	F columnsetgoto
F bt xfoundname	F columnsetnoto
F bt xfoundtype	F concatcommalist
F bt xhandlecite	F consultfloat

F convertbtxdatasettoxml	F definefontfamily
F converteddimen	F definefontfamilypreset
F convertmpstopdf	F definefontfeature
F copyboxfromcache	F definefontsolution
F copyposition	F definehyphenationfeatures
F cos	F defineinsertion
F cosd	F defineintermediatecolor
F countervalue	F definelabels
F counttwopassdata	F definelanguage
F currentcomponent	F definelinefiller
F currentdate	F definelinkedlist
F currentdesignsize	F definemarking
F currentenvironment	F definemetafont
F currentfontinstancespec	F definemultitonecolorglobal
F currentposthyphenchar	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 disablejobsave	F doifelsepathexist
F disableparbuilder	F doifelseposition
F disableregime	F doifelsepositiononpage
F disablespellchecking	F doifelsepositionsonsamepage
F disablestatetriggering	F doifelsepositionsonthispage
F disablestream	F doifelsepositionsused
F disabletrackers	F doifelserangeonpage
F discardfromlist	F doifelsereference
F doanalyzeframedbox	F doifelserighttttoleftinbox
F doifcommon	F doifelsesame
F doifcounter	F doifelsestackedfloats
F doifelseblack	F doifelsesynonymshown
F doifelseboxincache	F doifelsesynonymused
F doifelsebuffer	F doifelseurldefined
F doifelsecharinfont	F doifelseutfmathabove
F doifelsecommon	F doifelseutfmathaccent
F doifelsecontinewithfile	F doifelseutfmathbelow
F doifelseconverter	F doifelseutfmathfiller
F doifelsecounter	F doifelsevisualizer
F doifelsecurrentfonthasfeature	F doiffielddsetelse
F doifelsedrawingblack	F doifinset
F doifelsefieldcategory	F doifnotcommon
F doifelsefiledefined	F doifnotcounter
F doifelsefileexist	F doifnotecontent
F doifelsefirstchar	F doifnoteonsamepageasprevious
F doifelsefontpresent	F doifnotinset
F doifelseinelement	F doifnotsame
F doifelseinputfile	F doifposition
F doifelseinset	F doifsame
F doifelseintwopassdata	F doprocesstypescriptfile
F doifelseleapyear	F doreshapeframedbox
F doifselisthasentry	F dosaveposition
F doifselisthasnumber	F dosavepositionplus
F doifselisthaspage	F dosavepositionwhd
F doifselisthastitle	F dosetposition
F doifselocfile	F dosetpositionbox
F doifelsemarking	F dosetpositionplus
F doifelsemessage	F dosetpositionstrut
F doifelseobject	F dosetpositionstrutkind
F doifelseobjectreference	F dosetpositionwhd
F doifelseolderversion	F dostarttextfile
F doifelseoverlapping	F dostoptextfile
F doifelseparallel	F elapsedtime
F doifelseparentfile	F enableasciimode

F enableautofences	F fetchtwomarks
F enableautofontscript	F figure_check
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 fontcharbyindex	F getnaturaldimensions
F fontcollectionclone	F getnaturalwd
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 getbuffercxtlua	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 hboxtovbox
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 initializestream	F loadmapfile
F initializetexdirectives	F loadmapline
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 mixsetsplit	F octnumber
F mixstate	F octstringtonumber
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 nofconversions	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 presettabulate	F registerbuttons
F previouscountervalue	F registercolorintent
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 resetinjector  
F resetitaliccorrection  
F resetmapfiles  
F resetmarking  
F resetmathattributes  
F resetmathitalics  
F resetnullfont  
F resetparallel  
F resetpath  
F resetprevdepth  
F resetreference  
F resetscript  
F resetshownsynonyms  
F resetstructureprocessor  
F resetsubcounter  
F resettimer  
F resettrackers  
F resetusedsynonyms  
F restartcounter  
F restartsubcounter  
F restorecounter  
F restorecurrentattributes  
F restorenote  
F restoreobject  
F reuserandomseed  
F revivefeature  
F romannumerals  
F rounded  
F ruby  
F runbuffer  
F runcontextjob  
F safechar  
F savebuffer  
F savecounter  
F savecurrentattributes  
F savedlistnumber  
F savedlistprefixednumber  
F savedlisttitle  
F savefloat  
F savefont  
F savemargindata  
F savenote  
F savepagedata  
F savepageinjections

F saveparallel  
F savespecificfloat  
F savestructureblock  
F savetaggedtwopassdata  
F savetwopassdata  
F savevariable  
F second  
F selectstructureblock  
F setactivecatcodes  
F setbreakpoints  
F setcharacteralign  
F setcharactercasing  
F setcharactercleaning  
F setcharacterkerning  
F setcharacterspacing  
F setcharacterstripping  
F setcloseddocumentaction  
F setclosepageaction  
F setcolormodel  
F setcolumnsetarea  
F setcolumnsetlines  
F setcolumnsetproperties  
F setcolumnsetstart  
F setcounter  
F setdataset  
F setdestinationattribute  
F setdigitsmanipulation  
F setdirection  
F setdocumentargument  
F setdocumentcommandline  
F setdocumentctxfile  
F setdocumentdefaultargument  
F setdocumentenvironments  
F setdocumentfilename  
F setdocumentfilenames  
F setdocumentmodes  
F setdocumentmodules  
F seteffect  
F setelementuserproperties  
F setextrafontkerns  
F setfieldcalculationset  
F setfigurelookuporder  
F setfigurepaths  
F setfirstline

F setfontfeature	F setopenpageaction
F setfontofid	F setowncounter
F setfontsolution	F setownsubcounter
F setformat	F setpagecolormodel
F setformsmethod	F setpagestate
F sethsizecolumnset	F setpagestaterealignpageno
F sethsizecolumnspan	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 settagsynonym	F startactualtext
F settagtablecell	F startchemical
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 structurecatcodedget	F unit_normal
F structuregivencatcodedget	F unit_reverse
F structurenumber	F unloadlanguage
F structuretitle	F upper
F structureuservariable	F useMPLibrary
F structurevariable	F useanyfile
F strwd	F useanyfileonce
F subcountervalue	F usecldfilename
F subcountervalues	F usecldfilenameonce
F subsubcountervalues	F usecolors
F subtractfeature	F usecomponent
F synccolor	F useenvironment
F synccolorclone	F usefigurebase
F synccolorcount	F usefile
F synchronizemarking	F usejavascriptpreamble
F synchronizestream	F usejavascriptscripts
F synonymmeaning	F useluafile
F synonymname	F useluafileonce
F systemlog	F useluamodule
F tagmfunctionlab	F usemodules
F tagmfunctiontxt	F usepath
F tan	F useproduct
F tand	F useproject
F texdefinition_one	F usesubpath
F texdefinition_two	F usesymbols
F textime	F usetexfile
F thefirstcharacter	F usetexfileonce
F themaxboxwidth	F useurl
F theremainingcharacters	F usexmlfile
F tochar	F usexmlfileonce
F transparencycomponents	F usezipfile
F triggerpagebuilder	F utfchar
F truefilename	F utfmathclass
F truefontname	F utfmathcommand
F type	F utfmathcommandabove
F typebuffer	F utfmathcommandbelow
F typefile	F utfmathcommandfiller
F typesetbuffer	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 vspacingdefine	F xmlcount
F vspacingsetamount	F xmldelete
F vspacingsnap	F xmldirect
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 xmldoifelsesetext
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 xmlflushlinewidth
F xmladdindex	F xmlflushpure
F xmlaftersesup	F xmlflushsetups
F xmlall	F xmlflushspacewise
F xmlappendsetup	F xmlflushtext
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 xmlbeforesesup	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 xmlloaddata	F xmlstripnolines	
F xmlloaddirectives	F xmlstripped	
F xmlloadentities	F xmlstrippednolines	
F xmlmain	F xmltag	
F xmlmatch	F xmltexentity	
F xmlname	F xmltext	
F xmlnamespace	F xmltobuffer	
F xmlnonspace	F xmltobufferverbose	
F xmlpath	F xmltofile	
F xmlpopmatch	F xmltoparameters	
F xmlpos	F xmlverbatim	
F xmlprependsetup	F xmlwithindex	
F xmlpure	F year	
F xmlpushmatch	<b>setconstant</b>	function
F xmlraw	<b>setcount</b>	function
F xmlrawtex	<b>setdimen</b>	function
F xmlrefatt	<b>setelement</b>	function
F xmlregisters	<b>setformat</b>	function
F xmlremapname	<b>setmacro</b>	function
F xmlremapnamespace	<b>setmessage</b>	function
F xmlremovesetup	<b>setmessages</b>	function
F xmlresetinjectors	<b>settranslation</b>	function
F xmlresetsetups	<b>setupstrings</b>	data table
F xmlsave	<b>setuserinterface</b>	function
F xmlsetcommandtonone	<b>setvalidkeys</b>	function
F xmlsetcommandtotext	<b>setvariable</b>	function
F xmlsetentity	<b>showmessage</b>	function
F xmlsetinjectors	<b>storedscanners</b>	data table
F xmlsetsetup	<b>strings</b>	table
F xmlsnippet	<b>syntax</b>	data table
F xmlstartraw	<b>tolist</b>	function
F xmlstarttiming	<b>translations</b>	data table
F xmlstopraw	<b>usednamespaces</b>	data table
F xmlstoptiming	<b>variables</b>	data table
F xmlstrip	<b>writestatus</b>	function
F xmlstripanywhere		

## 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 registerpattern</b>	
<b>associated</b>	data table	<b>F setfeatures</b>	
<b>association</b>	function	<b>installed</b>	function
<b>counters</b>	data table	<b>labels</b>	table
<b>current</b>	function	<b>F define</b>	
<b>data</b>	data table	<b>F split</b>	
<b>decimals</b>	data table	<b>loadable</b>	function
<b>define</b>	function	<b>loadwords</b>	function
<b>expand</b>	function	<b>logger</b>	table
<b>flatten</b>	function	<b>F report</b>	
<b>frequencies</b>	table	<b>nofflatten</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>	
<b>F registerexception</b>		<b>T enablers</b>	

B enables

T methods

F found

N threshold

F load



# 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>B none</b>	
<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)

**cleanup tempfiles**      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>inlineverbatim</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>displayverbatim</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)

<b>HEX</b>	function
<b>crypt</b>	function
<b>dec</b>	function
<b>decrypt</b>	function
<b>exor</b>	function

<b>hex</b>	function
<b>sum</b>	function
<b>sumHEXA</b>	overloaded function
<b>sumhexa</b>	overloaded 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)

**fields** function

**finder** function

**finders** table

F file

**get\_boolean** function

**get\_number** function

**get\_numeric** function

**get\_string** function

**new** overloaded function

**pen\_info** function

**preprocessed** function

**version** function

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

<b>remove</b>	function	<b>traverse</b>	function
<b>set_attribute</b>	function	<b>traverse_char</b>	function
<b>set_properties_mode</b>	function	<b>traverse_id</b>	function
<b>setfield</b>	function	<b>type</b>	function
<b>setglue</b>	function	<b>types</b>	function
<b>setproperty</b>	function	<b>unprotect_glyphs</b>	function
<b>setwhd</b>	function	<b>unset_attribute</b>	function
<b>slide</b>	function	<b>usedlist</b>	function
<b>subtype</b>	function	<b>vpack</b>	function
<b>subtypes</b>	function	<b>whatsits</b>	function
<b>tail</b>	function	<b>write</b>	function
<b>tostring</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>topics</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>tobasepoints</b>	function
<b>basepoints</b>	function	<b>tobitstring</b>	function
<b>bit</b>	function	<b>tocentimeters</b>	function
<b>bits</b>	function	<b>toxiceros</b>	function
<b>bytetodecimal</b>	function	<b>tocontext</b>	function
<b>clearbit</b>	function	<b>todidots</b>	function
<b>decimaltobyte</b>	function	<b>todimen</b>	function
<b>dimenfactors</b>	data table	<b>toevenhex</b>	function
<b>formatted</b>	function	<b>toinches</b>	function
<b>formattedfloat</b>	function	<b>tomillimeters</b>	function
<b>hasbit</b>	function	<b>tonewciceros</b>	function
<b>maxdimen</b>	number	<b>tonewdidots</b>	function
<b>nopts</b>	function	<b>tonumberf</b>	function
<b>percent</b>	function	<b>tonumberg</b>	function
<b>points</b>	function	<b>topicas</b>	function
<b>pts</b>	function	<b>topoints</b>	function
<b>setbit</b>	function	<b>toscaled</b>	function
<b>signed</b>	function	<b>toscaledpoints</b>	function
<b>sparseexponent</b>	function	<b>toset</b>	function
<b>splitdimen</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>getcatalog</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>setcatalog</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>getrunner</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>nspace</b>	table
<b>autosingle</b>	function	<b>optionalquoted</b>	function
<b>booleanstring</b>	function	<b>quote</b>	function
<b>byte</b>	function	<b>quoted</b>	function
<b>bytepairs</b>	function	<b>rep</b>	function
<b>bytes</b>	function	<b>replacenewlines</b>	function
<b>bytetable</b>	function	<b>reverse</b>	function
<b>char</b>	function	<b>split</b>	function
<b>characterpairs</b>	function	<b>splitlines</b>	function
<b>characters</b>	function	<b>splitup</b>	function
<b>checkedsplit</b>	function	<b>strip</b>	function
<b>collapsespaces</b>	function	<b>sub</b>	function
<b>count</b>	function	<b>tformat</b>	function
<b>dump</b>	function	<b>toHEX</b>	function
<b>escapedpattern</b>	function	<b>toboollean</b>	function
<b>explode</b>	function	<b>tobytes</b>	function
<b>find</b>	function	<b>tocontext</b>	function
<b>format</b>	function	<b>todec</b>	function
<b>formatter</b>	function	<b>todimen</b>	function
<b>formatters</b>	function	<b>tohex</b>	function
<b>fullstrip</b>	function	<b>tonodes</b>	function
<b>gmatch</b>	function	<b>topattern</b>	function
<b>gsub</b>	function	<b>totable</b>	function
<b>is_boolean</b>	function	<b>toutf</b>	function
<b>is_empty</b>	function	<b>tracedchar</b>	function
<b>itself</b>	function	<b>tracedchars</b>	table
<b>len</b>	function	<b>unquote</b>	function
<b>limit</b>	function	<b>unquoted</b>	function
<b>longtostring</b>	function	<b>upper</b>	function
<b>lower</b>	function	<b>utfcharacters</b>	function
<b>match</b>	function	<b>utfvalues</b>	function
<b>nspace</b>	function	<b>valid</b>	function

# structures (context)

<b>atlocation</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 table

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

## references table

- 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

- 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 settagssubsentencesymbol	
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>vrbcatcodes</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 replacensp			F addanchortoline
F replacenspaces			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