

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 sio **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)

FFISUPPORTED	function	environment	table
INITEXMODE	boolean	epdf	table
LUAEXCOREVERSION	number	error	function
LUAEXENGINE	string	experiments	table
LUAEXFUNCTIONALITY	number	ffi	table
LUAEXVERSION	number	ffilib	function
MP	table	figures	table
_LUAVERSION	number	file	table
_MAJORVERSION	number	fio	table
_MINORVERSION	number	floats	table
arg	table	font	table
assert	function	fonts	table
attributes	table	frozen	boolean
backends	table	functions	table
bit32	table	getmetatable	function
blobs	table	getpos	function
blockrequire	function	getvpos	function
boolean	table	global	table
buffers	table	grammar_parsed_text_one_nop	userdata
builders	table	grammar_parsed_text_one_yes	userdata
caches	table	grammar_parsed_text_two_nop	userdata
callback	table	grammar_parsed_text_two_yes	userdata
callbacks	table	grammar_unparsed_text_nop	userdata
catcodes	table	grammar_unparsed_text_yes	userdata
characters	table	graphics	table
chemistry	table	gregorian_to_jalali	function
collectgarbage	function	gzip	table
commands	table	img	table
containers	table	inspect	function
context	function	interactions	table
converters	table	interfaces	table
coroutine	table	io	table
ctxrunner	table	ipairs	function
debug	table	jalali_to_gregorian	function
dimen	function	job	table
dir	table	lang	table
directives	table	languages	table
document	table	last	number
documentdata	table	layouts	table
dofile	function	lfs	table
done	boolean	libraries	table

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

utf  
utilities  
v  
vf  
visualizers

table  
table  
number  
table  
table

xml  
xpcall  
zip  
zlib

table  
function  
table  
table

# attributes (context)

## colorintents table

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

## colors table

- N attribute
- F cmyk
- F cmyktogray
- F cmyktorgb
- F colorcomponents
- 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 hsvtogray
- F hsvtorgb
- F iccprofile
- F isblack
- N main
- S model

- D models
- F mpcolor
- F mpnamedcolor
- F mpoptions
- F namedcolorattributes
- N none
- F popset
- F processcolorcomponents
- F pushset
- F register
- D registered
- F registerspotcolor
- F rgb
- F rgbtocmyk
- F rgbtogray
- 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 toattributes
- 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		N hardlight	
D registered		N hue	
D values		N lighten	
<b>handlers</b>	table	N luminosity	
<b>list</b>	data table	N multiply	
<b>names</b>	data table	N none	
<b>negatives</b>	table	N normal	
N attribute		N overlay	
D data		N saturation	
F enable		N screen	
F handler		N softlight	
F register		N none	
D registered		F register	
F set		D registered	
<b>numbers</b>	data table	B supported	
<b>ofnode</b>	function	F toattribute	
<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 contribute_filter		B process_output_buffer
B define_font		B process_rule
B find_cidmap_file		B read_cidmap_file
B find_data_file		B read_data_file
B find_enc_file		B read_enc_file
B find_font_file		B read_font_file
B find_format_file		B read_map_file
B find_image_file		B read_opentype_file
B find_map_file		B read_pk_file
B find_opentype_file		B read_sfd_file
B find_output_file		B read_truetype_file
B find_pk_file		B read_type1_file
B find_read_file		B read_vf_file
B find_sfd_file		B show_error_hook
B find_truetype_file		B show_error_message
B find_type1_file		B show_lua_error_hook
B find_vf_file		B show_warning_message
B find_write_file		B start_file
B finish_pdffile		B start_page_number
B finish_pdfpage		B start_run
B finish_synctex_callback		B stop_file
B glyph_not_found		B stop_page_number
B glyph_stream_provider		B stop_run
B hpack_filter		B vpack_filter
B hpack_quality		B vpack_quality
B hyphenate		



## catcodes (context)

**names** data table

**numbers** data table

**register** function

characters (context)

[illegible]

[illegible][illegible]

$S\,0,\wedge$	$S\,U^\circ$
$S\,0,$	$S\,U^\circ$
$S\,0,\neg$	$S\,U''$
$S\,P'$	$S\,U^\vee$
$S\,P'$	$S\,U^\sim$
$S\,R'$	$S\,U^\sim$
$S\,R'$	$S\,U^\circ$
$S\,R^\circ$	$S\,U^\circ,\backslash$
$S\,R^\sim$	$S\,U^\circ,'$
$S\,R^\sim$	$S\,U^\circ,\sim$
$S\,R,$	$S\,U^\circ,^\circ$
$S\,R,\neg$	$S\,U^\circ,$
$S\,R,$	$S\,U,$
$S\,R_$	$S\,U_$
$S\,S'$	$S\,U_$
$S\,S',\cdot$	$S\,U_\wedge$
$S\,S^\wedge$	$S\,U_\sim$
$S\,S'$	$S\,V^\sim$
$S\,S^\vee$	$S\,V,$
$S\,S^\vee,\cdot$	$S\,W^\backslash$
$S\,S,$	$S\,W'$
$S\,S,\cdot$	$S\,W^\wedge$
$S\,S,$	$S\,W'$
$S\,S,$	$S\,W''$
$S\,T'$	$S\,W,$
$S\,T^\circ$	$S\,X'$
$S\,T,$	$S\,X''$
$S\,T,$	$S\,Y^\backslash$
$S\,T,$	$S\,Y'$
$S\,T_\wedge$	$S\,Y^\wedge$
$S\,T_$	$S\,Y^\sim$
$S\,U^\backslash$	$S\,Y^\sim$
$S\,U'$	$S\,Y'$
$S\,U^\wedge$	$S\,Y''$
$S\,U^\sim$	$S\,Y^\circ$
$S\,U^\circ'$	$S\,Y,$
$S\,U^\sim$	$S\,Z'$
$S\,U^\sim$	$S\,Z^\wedge$
$S\,U^\sim$	$S\,Z'$
$S\,U''$	$S\,Z^\vee$
$S\,U''$	$S\,Z,$
$S\,U''^\backslash$	$S\,Z_$
$S\,U''^\circ'$	$S\,a^\backslash$
$S\,U''^\sim$	$S\,a'$



S i`	S o`´
S i`	S o`^-
S i`´	S o`^^
S i`	S o`-
S i`	S o`^^
S i`	S o`´
S i`	S o`-
S i`	S o`
S i,	S o`-
S i,	S o`
S i_	S o`^-
S j^	S o`´
S j`	S o`´
S k´	S o`
S k`	S o`
S k,	S o`
S k,	S o`^
S k_	S o`
S l´	S o`^^
S l`	S o`´
S l,	S o`^^
S l,-	S o`´
S l,	S o`.
S l,	S o,
S l_	S o,^
S m´	S o,
S m`	S o,^-
S m,	S p´
S n`	S p`
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S n`	S r`
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S n,	S r`
S n,	S r,
S n,	S r,-
S n_	S r,
S o`	S r_
S o´	S s´
S o^	S s`´
S o`^^	S s^
S o`´	S s`
S o`^^	S s`
S o`´	S s`´
S o`	S s,

$$\begin{array}{l} S, S, \\ S, S, \\ S, S, \\ S, t^+, \\ S, t^-, \\ S, t^-, \\ S, t, \\ S, t, \\ S, t, \\ S, t_+, \\ S, t_-, \\ S, u^+, \\ S, u^-, \\ S, u^+, \\ S, u^-, \\ S, u^{++}, \\ S, u^{--}, \\ S, u^{+-}, \\ S, u^{-+}, \\ S, u^+, \\ S, u^0, \\ S, u^-, \\ S, u^-, \\ S, u^+, \\ S, u^-, \\ S, u^-, \\ S, u^-, \\ S, u^-, \\ S, u_+, \\ S, u_-, \\ S, u_+, \\ S, u_-, \\ S, v^+, \\ S, v, \\ S, w^+ \end{array}$$

[illegible]



S $\varnothing^\sim$	S H'
S $\emptyset^\sim$	S H''\`
S $\circ^\sim$	S H''\`
S $\mathfrak{z}^\sim$	S H'\'
S $\sim^\sim\prime$	S H'\'
S A`	S H'
S A'	S H'
S A $^\sim$	S H'
S A $^\sim$	S H
S A'	S I $^\sim$
S A'\`	S I'
S A'\`	S I $^\sim$
S A'\'	S I $^\sim$
S A'\'	S I $^\sim$
S A'	S I'
S A'	S I''\`
S A'	S I'\'
S A'	S I'
S A'\`	S I'
S A'\`	S I''\`
S A'\'	S I'\'
S A'\'	S I'
S A'	S $\emptyset^\sim$
S A'	S $\emptyset'$
S A'	S $\emptyset'$
S A	S $\emptyset''\`$
S E $^\sim$	S $\emptyset'\'$
S E'	S $\emptyset'$
S E'	S $\emptyset''\`$
S E'\`	S $\emptyset'\'$
S E'\'	S P'
S E'	S Y $^\sim$
S E'\`	S Y'
S E'\'	S Y $^\sim$
S H $^\sim$	S Y $^\sim$
S H'	S Y $^\sim$
S H'	S Y'
S H'\`	S Y''\`
S H'\`	S Y'\'
S H'\'	S Y'
S H'\'	S $\Omega^\sim$
S H'	S $\Omega'$
S H'	S $\Omega'$
S H'	S $\Omega''\`$

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 $\varsigma \iota'$

S ɿ'	S ʊ'
S ɿ	S ʊ'
S ɔ̀	S ʊ'
S ɔ́	S ʊ'
S ɔ́	S ʊ'
S ɔ́`	S ʊ
S ɔ́´	S ʊ
S ɔ́	S ʊ
S ɔ́`	S ɿ̀
S ɔ́´	S ɿ´
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contextname	function	S .
csletters	data table	S .
data	data table	T B
decomposed	data table	S ´
description	function	S .
descriptions	data table	S _
detailltags	data table	T C
directions	table	S ´
emoji	table	S ^
F compact		S ´
F known		S ˇ
F resolve		S ,
emojized	function	T D
encodes	data table	S ´
entities	data table	S ˇ
fallbacks	data table	S .
filters	data table	S ,
fractions	table	S ^
fromnumber	function	S _
fschars	data table	T E
fscodes	data table	S `
getrange	function	S ´
graphemes	table	S ^

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T ¨H	S ´
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T i	S
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$T \tilde{\omega}$	$S \prime$
$S$	$S$
$T \tilde{\omega}$	$T \leftarrow$
$S$	$S /$
$T \eta$	$T \rightarrow$
$S \backslash$	$S /$
$S \prime$	$T \leftrightarrow$
$S$	$S /$
$S$	$T \approx$
$T \eta$	$S /$
$S \backslash$	$T \Rightarrow$
$S \prime$	$S /$
$S$	$T \leftrightarrow$
$S$	$S /$
$T \eta$	$T \exists$
$S$	$S /$
$T \eta$	$T \in$
$S$	$S /$
$T \eta$	$T \exists$
$S$	$S /$
$T \eta$	$T$
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$T \eta$	$T$
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$T \eta$	$T \sim$
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$T \dot{\eta}$	$T \equiv$
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$T \dot{\omega}$	$T \approx$
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$T \tilde{\alpha}$	$T \approx$
$S$	$S /$
$T \prime$	$T \equiv$
$S \backslash$	$S /$
$S \prime$	$T \leq$
$S$	$S /$
$T \tilde{\eta}$	$T \geq$
$S$	$S /$
$T \tilde{\omega}$	$T \leq$
$S$	$S /$
$T \prime$	$T \geq$
$S \backslash$	$S /$







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S		S jl	
T		S jt	
S		S jv	
S		S lf	
T		S nl	
S		S ns	
S		S nu	
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		mathlists	table
S al		mirrors	table
S b2		otfscripts	data table
S ba		private	table
S bb		ranges	data table
S bk		registerentities	function
S cb		remap_hangul_syllabe	function
S cj		setactivecatcodes	function
S cl		setlettercatcodes	function
S cm		shape	function
S cp		shaped	function
S cr		shash	data table
S eb		shchars	data table
S em		shcodes	data table

**showstring**  
**specialchars**  
**specials**  
**splits**

T char

T compat

**subscripts**  
**superscripts**  
**synonyms**  
**tex**

D accentmapping

D commandmapping

function  
data table  
data table  
table

table  
table  
data table  
table

F defineaccents

F safechar

F toutf

F toutfpattern

**textclasses**

**tonumber**

**ucchars**

**uccode**

**uccodes**

**uhash**

**unicodechar**

**upper**

table  
function  
data table  
function  
data table  
data table  
function  
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>spaceddigits</b>	function
<b>character</b>	function	<b>spanishnumerals</b>	function
<b>characters</b>	function	<b>textime</b>	function
<b>chineseallnumerals</b>	function	<b>toabjad</b>	function
<b>chinesecapnumerals</b>	function	<b>tochinese</b>	function
<b>chinesenumerals</b>	function	<b>toroman</b>	function
<b>chr</b>	function	<b>totime</b>	function
<b>chrs</b>	function	<b>uchexnumber</b>	function
<b>cn</b>	function	<b>uchexnumbers</b>	function
<b>cn-a</b>	function	<b>upper</b>	function

**verbose**

D data

F translate

**weekday**

table

function

**word**

**words**

**year**

function

function

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

## epdf (extra tex)

**Array** function  
**Attribute** function  
**AttributeOwner\_Type** function  
**Attribute\_Type** function  
**Dict** function  
**Object** function

**PDFRectangle** function  
**StructElement\_Type** function  
**open** overloaded function  
**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>nofmissing</b>	number
<b>exists</b>	data table	<b>nofprocessed</b>	number
<b>exists</b>	function	<b>order</b>	data table
<b>formats</b>	data table	<b>paths</b>	data table
<b>found</b>	data table	<b>patterns</b>	data table
<b>get</b>	function	<b>pop</b>	function
<b>getinfo</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)

<b>addcharacters</b>	function	<b>id</b>	function
<b>current</b>	function	<b>max</b>	function
<b>define</b>	function	<b>nextid</b>	function
<b>each</b>	function	<b>read_tfm</b>	function
<b>fonts</b>	table	<b>read_vf</b>	function
<b>frozen</b>	function	<b>setexpansion</b>	function
<b>getfont</b>	overloaded function	<b>setfont</b>	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 addcharacters

F addcoreunicodes

F aftercopyingcharacters

F applymanipulators

F assignmathparameters

B autocleanup

F beforecopyingcharacters

D cache

B cacheintex

F calculatescale

F checkedfeatures

F checkedfilename

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 report

F register

F report

T otf

F addfeature

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

F gsub_altername	T gposhandlers
F gsub_context	F chainedcontext
F gsub_contextchain	F context
F gsub_ligature	F cursive
F gsub_multiple	F extension
F gsub_reversecontextchain	F marktobase
F gsub_single	F marktoligature
F trigger_space_kerns	F marktomark
T helpers	F pair
F blockligatures	F single
F pardirstate	F gsub
F txtfirststate	T gsubhandlers
F load	F alternate
F loadoutlinedata	F chainedcontext
F loadstreamdata	F context
F modeinitializer	F extension
D pdfcache	F ligature
F plugininitializer	F multiple
F pluginprocessor	F reversechainedcontextsingle
T plugins	F single
T readers	F gvar
F addunicodetable	F head
F avar	T helpers
F cbdt	F axistofactors
F cblc	F cleanname
F cff	F getaxissscale
F cff2	F getfactors
F cffcheck	F getscales
F checkhash	F gotodatatable
F cmap	F normalizedaxis
F colr	T normalizedaxisishash
F compact	F readvariationdata
F cpal	F reportskippedtable
F ebdt	F setvariabledata
F eblc	F hhea
F ebsc	F hmtx
F expand	F hvar
F extend	F kern
F fvar	F loadfont
F gdef	F loadshapes
F getcomponents	F loca
F getinfo	F math
F glyf	F maxp
F gpos	F mvar



F name	F skiplong
F os/2	F skipposition
F pack	F skipshort
F parsecharstrings	F writebyte
F post	F writecardinal2
F registerextender	F writecardinal4
F rehash	F writestring
F sbix	F svg
F stat	N tableversion
T streamreader	F unifymissing
F close	F unpack
F getposition	F vhea
F getsize	F vmtx
F look	F vorg
F open	F vvar
F read2dot14	F woff2otf
F readbyte	F registerpalette
F readbytes	F registerplugin
F readbytetable	F reorderlookups
F readcardinal	T sbix
F readcardinal1	F topdf
F readcardinal2	D sbixcache
F readcardinal2le	B sbixenabled
F readcardinal3	F scriptandlanguage
F readcardinal3le	F setdynamics
F readcardinal4	F setfeatures
F readcardinal4le	T statistics
F readchar	D usedfeatures
F readfixed2	F storepdfdata
F readfixed4	T svg
F readinteger	F filterglyph
F readinteger1	F topdf
F readinteger2	D svgcache
F readinteger2le	B svgenabled
F readinteger3	T tables
F readinteger3le	D baselines
F readinteger4	D features
F readinteger4le	D featuretypes
F readsignedbyte	D languages
F readstring	D scripts
F readtag	N version
F setposition	T pfb
F size	F loadvector
F skip	T tfm

F addtounicode	S scriptscriptpercentage
D features	S size
N maxnestingdepth	S slantfactor
N maxnestingsize	S slantperpoint
F reencode	T spacing
F setfeatures	S extra
N version	S shrink
T vf	S stretch
T combinations	S width
F combine	S units
T combiner	S vfactor
D commands	S xheight
D helpers	T properties
D math	S autoitalicamount
D predefined	S cidinfo
N version	S embedding
D whatever	S encodingbytes
F hashfeatures	S filename
F hashinstance	S finalized
T hashmethods	S fontname
F normal	S format
F virtual	S fullname
F initializefeatures	S hasitalics
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 designsize	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

F scale		N Becyrillic
F scaled		N Cdot
F setfactor		N Checyrillic
F setfeature		N Decyrillic
F setname		N Djecyrillic
B sharefonts		N Dzecyrillic
F trytosharefont		N Dzhecyrillic
N version		N Ecyrillic
<b>current</b>	function	N Edot
<b>currentid</b>	function	N Efcyrillic
<b>definers</b>	table	N Elcyrillic
F addlookup		N Emcyrillic
F analyze		N Encyrillic
F applypostprocessors		N Ercyrillic
F checkedmode		N Ereversedcyrillic
F checkedscript		N Escyrillic
F current		N Fitacyrillic
S defaultlookup		N Gcedilla
F define		N Gdot
F getspecification		N Gecyrillic
F internal		N Gheupturncyrillic
F loadfont		N Gjecyrillic
F makespecification		N Hardsigncyrillic
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>	function	N Kjecyrillic
<b>encodings</b>	table	N Lcedilla
T agl		N Ljecyrillic
D ctxcodes		N Ncedilla
D extras		N Njecyrillic
D names		N Ocyrillic
T synonyms		N Oddblacute
N Acyrillic		N Ohm

N Pecyrillic	N cdot
N Rcedilla	N compass
N Shacyrillic	N dagesh
N Shchacyrillic	N dalet
N Softsigncyrillic	N daletdagesh
N Tcedilla	N daletthatafpatah
N Tecyrillic	N daletthatafpatahhebrew
N Tsecyrillic	N daletthatafsegol
N Tshecyrillic	N daletthatafsegolhebrew
N Ucyrillic	N dalethebrew
N Udblacute	N daletthiriq
N Ushortcyrillic	N daletthiriqhebrew
N Vecyrillic	N dalettholam
N Yatcyrillic	N dalettholamhebrew
N Yericyrillic	N daletpatah
N Yicyrillic	N daletpatahhebrew
N Zdot	N daletqamats
N Zecyrillic	N daletqamatshebrew
N Zhecyrillic	N daletqubuts
N acutecmb	N daletqubutshebrew
N acyrillic	N daletsegol
N afii00208	N daletsegolhebrew
N afii08941	N daletsheva
N afii57694	N daletshevahebrew
N afii57695	N dalettsere
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 finalkafqamats	N hatafsegolquarterhebrew
N finalkafqamatshebrew	N he
N finalkafsheva	N hedagesh
N finalmem	N hehfinalalttwoarabic
N finalnun	N het
N finalpe	N hiriq
N finaltsadi	N hiriq14
N fivearabic	N hiriq21
N forall	N hiriq2d
N fourarabic	N hiriqhebrew
N gcedilla	N hiriqnarrowhebrew
N gdot	N hiriqqarterhebrew
N gimel	N holam
N gimeldagesh	N holam19
N gravecmb	N holam26
N haaltonearabic	N holam32
N hamzaarabic	N holamhebrew
N hamzadammaarabic	N holamnarrowhebrew
N hamzadammatanarabic	N holamquarterhebrew
N hamzafathaarabic	N ilde
N hamzafathatanarabic	N integralbottom
N hamzallowarabic	N integraltop
N hamzallowkasraarabic	N kaf
N hamzallowkasratanarabic	N kafdagesh
N hatafpatah	N kashidaautoarabic
N hatafpatah16	N kashidaautonosidebearingarabic
N hatafpatah23	N kcedilla
N hatafpatah2f	N lamed
N hatafpatahhebrew	N lameddagesh
N hatafpatahnarrowhebrew	N lamedhebrew
N hatafpatahquarterhebrew	N lamedholam
N hatafqamats	N lamedholamdagesh
N hatafqamats1b	N lamedholamdageshhebrew
N hatafqamats28	N laminitialarabic
N hatafqamats34	N lammeemjeeminitialarabic
N hatafqamatshebrew	N lcedilla
N hatafqamatsnarrowhebrew	N logicalnotreversed
N hatafqamatsquarterhebrew	N mahapakhhebrew
N hatafsegol	N mem
N hatafsegol17	N memdagesh
N hatafsegol24	N merkhahebrew
N hatafsegol30	N merkhakefulahebrew
N hatafsegolhebrew	N middot
N hatafsegolnarrowhebrew	N munahhebrew

N nbspace	N qofholamhebrew
N ncedilla	N qofpatah
N newsheqelsign	N qofpatahhebrew
N ninearabic	N qofqamats
N noonhehinitialarabic	N qofqamatshebrew
N nun	N qofqubuts
N nundagesh	N qofqubutshebrew
N odblacute	N qofsegol
N onearabic	N qofsegolhebrew
N overscore	N qofsheva
N patah	N qofshevahebrew
N patah11	N qoftsere
N patah1d	N qubuts
N patah2a	N qubuts18
N patahhebrew	N qubuts25
N patahnarrowhebrew	N qubuts31
N patahquarterhebrew	N qubutshebrew
N pe	N qubutsnarrowhebrew
N pedagesh	N qubutsquarterhebrew
N qamats	N quoteleftreversed
N qamats10	N rafe
N qamats1a	N rcedilla
N qamats1c	N reharabic
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 ressholam
N qamatsqatanwidehebrew	N ressholamhebrew
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 reviahebrew	N tsere
N samekh	N tsere12
N samekhdagesh	N tsere1e
N segol	N tsere2b
N segol13	N tserehebrew
N segol1f	N tserenarrowhebrew
N segol2c	N tserequarterhebrew
N segolhebrew	N twoarabic
N segolnarrowhebrew	N udblacute
N segolquarterhebrew	N vav
N sevenarabic	N vavdagesh
N sfthyphen	N vavdagesh65
N shaddaarabic	N vavholam
N sheqel	N yerahbenyomohebrew
N sheva	N yod
N sheva115	N yoddagesh
N sheva15	N zayin
N sheva22	N zayindagesh
N sheva2e	N zdot
N shevahebrew	N zeroarabic
N shevanarrowhebrew	D unicodes
N shevaquarterhebrew	D cache
N shin	T ctxcodes
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 tavdages	N Abrevehook
N tavdagesh	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 Adotbelow  
N Adoublegrave  
N Agrave  
N Ahook  
N Ainvertedbreve  
N Amacron  
N Aogonek  
N Aring  
N Aringacute  
N Astroke  
N Atilde  
N Bhook  
N Cacute  
N Ccaron  
N Ccedilla  
N Ccircumflex  
N Cdotaccent  
N Chook  
N Cstroke  
N DZcaronligature  
N DZligature  
N Dafrican  
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 Rcommaaccent
N Nacute	N Rdoublegrave
N Ncaron	N Rinvertedbreve
N Ncommaaccent	N Sacute
N Neng	N Scaron
N Ngrave	N Scedilla
N Njligature	N Schwa
N Ntilde	N Scircumflex
N OEligature	N Scommaaccent
N Oacute	N Tcaron
N Obreve	N Tcedilla
N Ocaron	N Tcommaaccent
N Ocircumflex	N Thook
N Ocircumflexacute	N Thorn
N Ocircumflexdotbelow	N Tstroke
N Ocircumflexgrave	N Uacute
N Ocircumflexhook	N Ubreve
N Ocircumflextilde	N Ucaron
N Odiaeresis	N Ucircumflex
N Odiaeresismacron	N Udiaeresis
N Odotaccent	N Udiaeresisacute
N Odotaccentmacron	N Udiaeresiscaron
N Odotbelow	N Udiaeresisgrave
N Odoublegrave	N Udiaeresismacron
N Ograve	N Udotbelow
N Ohook	N Udoublegrave
N Ohorn	N Ugrave
N Ohornacute	N Uhook
N Ohorndotbelow	N Uhorn
N Ohorngrave	N Uhornacute
N Ohornhook	N Uhorndotbelow
N Ohorntilde	N Uhorngrave
N Ohungarumlaut	N Uhornhook
N Oinvertedbreve	N Uhorntilde
N Omacron	N Uhungarumlaut
N Oogonek	N Uinvertedbreve
N Oogonekmacron	N Umacron
N Ostroke	N Uogonek
N Ostrokeacute	N Uring
N Otilde	N Utilde
N Otildemacron	N Wcircumflex
N Phook	N Yacute
N Racute	N Ycircumflex
N Rcaron	N Ydiaeresis

N Ydotbelow	N cacute
N Ygrave	N carriagereturn
N Yhook	N ccaron
N Ymacron	N ccedilla
N Ytilde	N ccircumflex
N Zacute	N ccurl
N Zcaron	N cdotaccent
N Zdotaccent	N chook
N Zhook	N copyright
N Zstroke	N cstroke
N aacute	N cyrillicA
N abreve	N cyrillicAE
N abreveacute	N cyrillicAbreve
N abovedotbelow	N cyrillicAdiaeresis
N abrevegrave	N cyrillicB
N abrevehook	N cyrillicBIGYUS
N abrevetilde	N cyrillicBIGYUSiotified
N acaron	N cyrillicC
N acircumflex	N cyrillicCH
N acircumflexacute	N cyrillicCHEDC
N acircumflexdotbelow	N cyrillicCHEDCabkhasian
N acircumflexgrave	N cyrillicCHEabkhasian
N acircumflexhook	N cyrillicCHEdiaeresis
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 aacute	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 cyrillicEiotified	N cyrillic0barred
N cyrillicF	N cyrillic0barreddiaeresis
N cyrillicFITA	N cyrillic0diaeresis
N cyrillicG	N cyrillicP
N cyrillicGHEmidhook	N cyrillicPALATALIZATION
N cyrillicGHEstroke	N cyrillicPALOCHKA
N cyrillicGHEupturn	N cyrillicPEmidhook
N cyrillicGJE	N cyrillicPSI
N cyrillicH	N cyrillicPSILIPNEUMATA
N cyrillicHA	N cyrillicR
N cyrillicHADC	N cyrillicS
N cyrillicHRDSN	N cyrillicSCHWA
N cyrillicI	N cyrillicSCHWAdiaeresis
N cyrillicIE	N cyrillicSDSC
N cyrillicII	N cyrillicSEMISSOFT
N cyrillicISHRT	N cyrillicSFTSN
N cyrillicISHRTtail	N cyrillicSH
N cyrillicIZHITSA	N cyrillicSHCH
N cyrillicIZHITSAdoublegrave	N cyrillicSHHA
N cyrillicIdiaeresis	N cyrillicT
N cyrillicIgrave	N cyrillicTEDC
N cyrillicImacron	N cyrillicTETSE
N cyrillicJE	N cyrillicTITLO
N cyrillicK	N cyrillicTSHE
N cyrillicKADC	N cyrillicU
N cyrillicKAbashkir	N cyrillicUK
N cyrillicKAhook	N cyrillicUSHRT
N cyrillicKAstroke	N cyrillicUdiaeresis
N cyrillicKAvertstroke	N cyrillicUdoubleacute
N cyrillicKJE	N cyrillicUmacron
N cyrillicKOPPA	N cyrillicV
N cyrillicKSI	N cyrillicYA
N cyrillicL	N cyrillicYAT
N cyrillicLITTLEYUS	N cyrillicYERUdiaeresis
N cyrillicLITTLEYUSiotified	N cyrillicYI
N cyrillicLJE	N cyrillicY0
N cyrillicM	N cyrillicYU
N cyrillicN	N cyrillicYstr
N cyrillicNJE	N cyrillicYstrstroke
N cyrillicO	N cyrillicZ
N cyrillicOMEGA	N cyrillicZDSC
N cyrillicOMEGAround	N cyrillicZEdiaeresis
N cyrillicOMEGAtitlo	N cyrillicZH
N cyrillicOT	N cyrillicZHEbreve

N cyrillicZHEdescender	N cyrillicha
N cyrillicZHEdiaeresis	N cyrillichadc
N cyrillica	N cyrillichrdsn
N cyrillicabreve	N cyrillici
N cyrillicadiaeresis	N cyrillicidiaeresis
N cyrillicae	N cyrillicie
N cyrillicb	N cyrillicigrave
N cyrillicbigyus	N cyrillicii
N cyrillicbigyusiotified	N cyrillicimacron
N cyrillicc	N cyrillicishrt
N cyrillicch	N cyrillicishrttail
N cyrilliccheabkhasian	N cyrillicizhitsa
N cyrillicchedc	N cyrillicizhitsadoublegrave
N cyrillicchedcabkhasian	N cyrillicje
N cyrillicchediaeresis	N cyrillick
N cyrillicchekhakassian	N cyrillickabashkir
N cyrillicchevertstroke	N cyrillickadc
N cyrillicd	N cyrillickahook
N cyrillicdje	N cyrillickastroke
N cyrillicdze	N cyrillickavertstroke
N cyrillicdzeabkhasian	N cyrillickje
N cyrillicdzhe	N cyrillickoppa
N cyrillice	N cyrillicksi
N cyrillicebreve	N cyrillicl
N cyrillicediaeresis	N cyrilliclittleyus
N cyrillicegrave	N cyrilliclittleyusiotified
N cyrilliceiotified	N cyrilliclje
N cyrilliceltail	N cyrillicm
N cyrillicemtail	N cyrillicn
N cyrillicencd	N cyrillicnje
N cyrillicenghe	N cyrillico
N cyrillicenhook	N cyrillicobarred
N cyrillicentail	N cyrillicobarreddiaeresis
N cyrillicerev	N cyrillicodiaeresis
N cyrillicertick	N cyrillicomega
N cyrillicery	N cyrillicomegaround
N cyrillicf	N cyrillicomegatitlo
N cyrillicfita	N cyrillicot
N cyrillicg	N cyrillicp
N cyrillicghemidhook	N cyrillicpemidhook
N cyrillicghestroke	N cyrillicpsi
N cyrillicgheupturn	N cyrillicr
N cyrillicgje	N cyrillics
N cyrillich	N cyrillicschwa

N cyrillicschwadiaeresis  
N cyrillicsdsc  
N cyrillicsemisoft  
N cyrillicsftsn  
N cyrillicsh  
N cyrillicshch  
N cyrillicshha  
N cyrillict  
N cyrillictedc  
N cyrillictetse  
N cyrillictshe  
N cyrillicu  
N cyrillicudiaeresis  
N cyrillicudoubleacute  
N cyrillicuk  
N cyrillicumacron  
N cyrillicushrt  
N cyrillicv  
N cyrillicya  
N cyrillicyat  
N cyrillicyerudiaeresis  
N cyrillicyi  
N cyrillicyo  
N cyrillicystr  
N cyrillicystrstroke  
N cyrillicyu  
N cyrillicz  
N cyrilliczdsc  
N cyrilliczediaeresis  
N cyrilliczh  
N cyrilliczhebreve  
N cyrilliczhedescender  
N cyrilliczhediaeresis  
N dcaron  
N dcurl  
N dhook  
N dotlessI  
N dotlessJ  
N dotlessi  
N dotlessj  
N dotlessjstroke  
N dstroke  
N dtail  
N dzcaronligature

N dzligature  
N eacute  
N ebreve  
N ecaron  
N ecedilla  
N ecircumflex  
N ecircumflexacute  
N ecircumflexdotbelow  
N ecircumflexgrave  
N ecircumflexhook  
N ecircumflextilde  
N ediaeresis  
N edotaccent  
N edotbelow  
N edoublegrave  
N egrave  
N ehook  
N einvertedbreve  
N emacron  
N emdash  
N emspace  
N endash  
N enspace  
N eogonek  
N etilde  
N exclamdown  
N ffligature  
N ffligature  
N ffligature  
N fhook  
N figurespace  
N filigature  
N fiveeighths  
N fivesixths  
N flligature  
N fourfifths  
N fourperemspace  
N gacute  
N gbreve  
N gcaron  
N gcircumflex  
N gcommaaccent  
N gdotaccent  
N greekAlpha

N greekAlphadasia  
N greekAlphadasiaaperispomeni  
N greekAlphadasiatonos  
N greekAlphadasiavaria  
N greekAlphaiotasub  
N greekAlphaiotasubdasia  
N greekAlphaiotasubdasiaperispomeni  
N greekAlphaiotasubdasiatonos  
N greekAlphaiotasubdasiavaria  
N greekAlphaiotasubpsili  
N greekAlphaiotasubpsiliperispomeni  
N greekAlphaiotasubpsilitonos  
N greekAlphaiotasubpsilivaria  
N greekAlphamacron  
N greekAlphapsili  
N greekAlphapsiliperispomeni  
N greekAlphapsilitonos  
N greekAlphapsilivaria  
N greekAlphatonos  
N greekAlphavaria  
N greekAlphavrachy  
N greekBeta  
N greekChi  
N greekCoronis  
N greekDelta  
N greekEpsilon  
N greekEpsilondasia  
N greekEpsilondasiatonos  
N greekEpsilondasiavaria  
N greekEpsilonpsili  
N greekEpsilonpsilitonos  
N greekEpsilonpsilivaria  
N greekEpsilontonos  
N greekEpsilonvaria  
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N greekEtadasia  
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N greekEtadasiatonos  
N greekEtadasiavaria  
N greekEtaiotasub  
N greekEtaiotasubdasia  
N greekEtaiotasubdasiaperispomeni  
N greekEtaiotasubdasiatonos  
N greekEtaiotasubdasiavaria

N greekEtaiotasubpsili  
N greekEtaiotasubpsiliperispomeni  
N greekEtaiotasubpsilitonos  
N greekEtaiotasubpsilivaria  
N greekEtapsili  
N greekEtapsiliperispomeni  
N greekEtapsilitonos  
N greekEtapsilivaria  
N greekEtatonos  
N greekEtavaria  
N greekGamma  
N greekIota  
N greekIotadasia  
N greekIotadasiaaperispomeni  
N greekIotadasiatonos  
N greekIotadasiavaria  
N greekIotadialytika  
N greekIotamacron  
N greekIotapsili  
N greekIotapsiliperispomeni  
N greekIotapsilitonos  
N greekIotapsilivaria  
N greekIotatonos  
N greekIotavaria  
N greekIotavrachy  
N greekKappa  
N greekLambda  
N greekMu  
N greekNu  
N greekOmega  
N greekOmegasia  
N greekOmegasiaaperispomeni  
N greekOmegasiatonos  
N greekOmegasiaavaria  
N greekOmegaiotasub  
N greekOmegaiotasubdasia  
N greekOmegaiotasubdasiaperispomeni  
N greekOmegaiotasubdasiatonos  
N greekOmegaiotasubdasiavaria  
N greekOmegaiotasubpsili  
N greekOmegaiotasubpsiliperispomeni  
N greekOmegaiotasubpsilitonos  
N greekOmegaiotasubpsilivaria  
N greekOmegapsili

N greekOmegapsiliperispomeni	N greekalphiotasubdasiavaria
N greekOmegapsilitonos	N greekalphiotasubperispomeni
N greekOmegapsilivaria	N greekalphiotasubpsili
N greekOmegatonos	N greekalphiotasubpsiliperispomeni
N greekOmegavaria	N greekalphiotasubpsilitonos
N greekOmicron	N greekalphiotasubpsilivaria
N greekOmicrondasia	N greekalphiotasubtonos
N greekOmicrondasiatonos	N greekalphiotasubvaria
N greekOmicrondasiavaria	N greekalphamacron
N greekOmicronpsili	N greekalphaoxia
N greekOmicronpsilitonos	N greekalphaperispomeni
N greekOmicronpsilivaria	N greekalphapsili
N greekOmicrontonos	N greekalphapsiliperispomeni
N greekOmicronvaria	N greekalphapsilitonos
N greekPhi	N greekalphapsilivaria
N greekPi	N greekalphatonos
N greekPsi	N greekalphavaria
N greekRho	N greekalphavrachy
N greekRhodasia	N greekbeta
N greekSigma	N greekchi
N greekSigmaunate	N greekdasia
N greekTau	N greekdasiaperispomeni
N greekTheta	N greekdasiatonos
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 greekepsilontonos
N greekalphadasiavaria	N greekepsilonvaria
N greekalphaiotasub	N greeketa
N greekalphaiotasubdasia	N greeketadasia
N greekalphaiotasubdasiaperispomeni	N greeketadasiaaperispomeni
N greekalphaiotasubdasiatonos	N greeketadasiatonos

N greeketadasiavaria	N greeklambda
N greeketaiotasub	N greekmu
N greeketaiotasubdasia	N greeknu
N greeketaiotasubdasiaperispomeni	N greeknumkoppa
N greeketaiotasubdasiatonos	N greekomega
N greeketaiotasubdasiavaria	N greekomegadasia
N greeketaiotasubperispomeni	N greekomegadasiaperispomeni
N greeketaiotasubpsili	N greekomegadasiatonos
N greeketaiotasubpsiliperispomeni	N greekomegadasiavaria
N greeketaiotasubpsilitonos	N greekomegaiotasub
N greeketaiotasubpsilivaria	N greekomegaiotasubdasia
N greeketaiotasubtonos	N greekomegaiotasubdasiaperispomeni
N greeketaiotasubvaria	N greekomegaiotasubdasiatonos
N greeketaoxia	N greekomegaiotasubdasiavaria
N greeketaperispomeni	N greekomegaiotasubperispomeni
N greeketapsili	N greekomegaiotasubpsili
N greeketapsiliperispomeni	N greekomegaiotasubpsiliperispomeni
N greeketapsilitonos	N greekomegaiotasubpsilitonos
N greeketapsilivaria	N greekomegaiotasubpsilivaria
N greeketatonos	N greekomegaiotasubtonos
N greeketavaria	N greekomegaiotasubvaria
N greekfinalsigma	N greekomegaoxia
N greekgamma	N greekomegaperispomeni
N greekiota	N greekomegapsili
N greekiotadasia	N greekomegapsiliperispomeni
N greekiotadasiaaperispomeni	N greekomegapsilitonos
N greekiotadasiatonos	N greekomegapsilivaria
N greekiotadasiaavaria	N greekomegatonos
N greekiotadialytika	N greekomegavaria
N greekiotadialytikaaperispomeni	N greekomicron
N greekiotadialytikatonos	N greekomicrondasia
N greekiotadialytikavaria	N greekomicrondasiatonos
N greekiotamacron	N greekomicrondasiavaria
N greekiotaonia	N greekomicronoxia
N greekiotaperispomeni	N greekomicronpsili
N greekiotapsili	N greekomicronpsilitonos
N greekiotapsiliperispomeni	N greekomicronpsilivaria
N greekiotapsilitonos	N greekomicrontonos
N greekiotapsilivaria	N greekomicronvaria
N greekiotatonos	N greekoxia
N greekiotavaria	N greekperispomeni
N greekiotavrachy	N greekphi
N greekkappa	N greekphialt
N greekkoppa	N greekpi



N greekpialt	N hairspace
N greekprosgegrammeni	N hcaron
N greekpsi	N hcircumflex
N greekpsili	N hebrewAlef
N greekpsiliperispomeni	N hebrewAyin
N greekpsilitonos	N hebrewBet
N greekpsilivaria	N hebrewDalet
N greekrho	N hebrewGimel
N greekrhoalt	N hebrewHe
N greekrhodasia	N hebrewHet
N greekrhopsili	N hebrewKaf
N greeksampi	N hebrewKaffinal
N greeksigma	N hebrewLamed
N greeksigmalunate	N hebrewMem
N greekstigma	N hebrewMemfinal
N greektau	N hebrewNun
N greektheta	N hebrewNunfinal
N greekthetaalt	N hebrewPe
N greektionos	N hebrewPefinal
N greekupsilon	N hebrewQof
N greekupsilondasia	N hebrewResh
N greekupsilondasiaperispomeni	N hebrewSamekh
N greekupsilondasiatonos	N hebrewShin
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 ijligature	N odotbelow
N imacron	N odoublegrave
N iogonek	N oeligature
N itilde	N ograve
N jcaron	N ohook
N jcircumflex	N ohorn
N kcaron	N ohornacute
N kcommaaccent	N ohorndotbelow
N khook	N ohorngrave
N kkra	N ohornhook
N lacute	N ohorntilde
N lbar	N ohungarumlaut
N lcaron	N oinvertedbreve
N lcommaaccent	N omacron
N lcurl	N oneeighth
N ldotmiddle	N onefifth
N leftguillemot	N onehalf
N ljligature	N onequarter
N lstroke	N onesixth
N medspace	N onesuperior
N nacute	N onethird
N napostrophe	N oogonek
N narrownobreakspace	N oogonekmacron
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
N ocircumflex	N questiondown
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 rcaron	N scommaaccent
N rcommaaccent	N sectionmark
N rdoublegrave	N seveneighths
N registered	N sixperemspace
N rightguillemot	N slong
N rinvertedbreve	N softthyphen
N romanC	N ssharp
N romanD	N stligature
N romanI	N tcaron
N romanII	N tcedilla
N romanIII	N tcommaaccent
N romanIV	N tcurl
N romanIX	N textAngstrom
N romanL	N textacute
N romanM	N textampersand
N romanV	N textasciicircum
N romanVI	N textasciitilde
N romanVII	N textat
N romanVIII	N textbackslash
N romanX	N textbar
N romanXI	N textbottomcomma
N romanXII	N textbottomdot
N romanc	N textbraceleft
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
N sacute	N textdiaeresis
N scaron	N textdiv
N scedilla	N textdollar
N schwa	N textdong
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N scircumflex	N textellipsis

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N texthash	N udiaeresismacron
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N texthungarumlaut	N udoublegrave
N texthyphen	N ugrave
N textkelvin	N uhook
N textlognot	N uhorn
N textmacron	N uhornacute
N textmho	N uhorndotbelow
N textminus	N uhorngrave
N textmu	N uhornhook
N textmultiply	N uhorntilde
N textnumero	N uhungarumlaut
N textogonek	N uinvertedbreve
N textohm	N umacron
N textounce	N uogonek
N textpercent	N uring
N textperiod	N utilde
N textpm	N wcircumflex
N textring	N yacute
N textslash	N ycircumflex
N textsterling	N ydiaeresis
N texttilde	N ydotbelow
N textunderscore	N ygrave
N textyen	N yhook
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N thorn	N ytilde
N threeeighths	N zacute
N threefifths	N zcaron
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
N udiaeresis	T names

## T unicodes

N A  
 N AE  
 N AEacute  
 N AEmacron  
 N Aacute  
 N Abreve  
 N Abreveacute  
 N Abrevecyrillic  
 N Abrevedotbelow  
 N Abrevegrave  
 N Abrevehookabove  
 N Abrevetilde  
 N Acaron  
 N Acircle  
 N Acircumflex  
 N Acircumflexacute  
 N Acircumflexdotbelow  
 N Acircumflexgrave  
 N Acircumflexhookabove  
 N Acircumflextilde  
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 N Adieresismacron  
 N Adotbelow  
 N Adotmacron  
 N Agrave  
 N Ahookabove  
 N Aiecyrillic  
 N Ainvertedbreve  
 N Alpha  
 N Alphanos  
 N Amacron  
 N Amonospace  
 N Aogonek  
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 N Aringbelow  
 N Atilde  
 N Aybarmenian  
 N B  
 N Bcircle

N Bdotaccent  
 N Bdotbelow  
 N Becyrillic  
 N Benarmenian  
 N Beta  
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 N Caarmenian  
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 N Ccaron  
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 N Cdotaccent  
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 N Chedieresiscyrillic  
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 N Chekhakassiancyrillic  
 N Cheverticalstrokecyrillic  
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 N Chook  
 N Cmonospace  
 N Coarmenian  
 N D  
 N DZ  
 N DZcaron  
 N Daarmenian  
 N Dafrican  
 N Dcaron  
 N Dcedilla  
 N Dcircle  
 N Dcircumflexbelow  
 N Dcroat  
 N Ddotaccent  
 N Ddotbelow

N Decyrillic	N Elevenroman
N Deicoptic	N Emacron
N Delta	N Emacronacute
N Deltagreek	N Emacrongrave
N Dhook	N Emcyrillic
N Digammagreek	N Emonospace
N Djecyrillic	N Encyrillic
N Dlinebelow	N Endescendercyrillic
N Dmonospace	N Eng
N Dslash	N Enghecyrillic
N Dtopbar	N Enhookcyrillic
N Dz	N Egonek
N Dzcaron	N Eopen
N Dzeabkhasiancyrillic	N Epsilon
N Dzecyrillic	N Epsilontonos
N Dzhecyrillic	N Ercyrillic
N E	N Ereversed
N Eacute	N Ereversedcyrillic
N Ebreve	N Escyrillic
N Ecaron	N Esdescendercyrillic
N Ecedillabreve	N Esh
N Echarmenian	N Eta
N Ecircle	N Etarmenian
N Ecircumflex	N Etatonos
N Ecircumflexacute	N Eth
N Ecircumflexbelow	N Etilde
N Ecircumflexdotbelow	N Etildebelow
N Ecircumflexgrave	N Euro
N Ecircumflexhookabove	N Ezh
N Ecircumflextilde	N Ezhcaron
N Ecyrillic	N Ezhreversed
N Edblgrave	N F
N Edieresis	N Fcircle
N Edot	N Fdotaccent
N Edotaccent	N Feharmenian
N Edotbelow	N Feicoptic
N Efcyrillic	N Fhook
N Egrave	N Fitacyrillic
N Eharmenian	N Fiveroman
N Ehookabove	N Fmonospace
N Eightroman	N Fourroman
N Einvertedbreve	N G
N Eiotifiedcyrillic	N GBSquare
N Elcyrillic	N Gacute

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N Gammaafrican	N IAcyrillic
N Gangiaoptic	N IJ
N Gbreve	N IUcyrillic
N Gcaron	N Iacute
N Gcedilla	N Ibreve
N Gcircle	N Icaron
N Gcircumflex	N Icircle
N Gcommaaccent	N Icircumflex
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N Gdotaccent	N Idblgrave
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N Ghadarmenian	N Idieresisacute
N Ghemiddlehookcyrillic	N Idieresiscyrillic
N Ghestrokecyrillic	N Idot
N Gheupturncyrillic	N Idotaccent
N Ghook	N Idotbelow
N Gimarmenian	N Iebrevecyrillic
N Gjecyrillic	N Iecyrillic
N Gmacron	N Ifraktur
N Gmonospace	N Igrave
N Gsmallhook	N Ihookabove
N Gstroke	N Iicyrillic
N H	N Iinvertedbreve
N H18533	N Iishortcyrillic
N H18543	N Imacron
N H18551	N Imacroncyrillic
N H22073	N Imonospace
N HPsquare	N Iniarmenian
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N Hadescendercyrillic	N Iogonek
N Hardsigncyrillic	N Iota
N Hbar	N Iotaafrican
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N Hcedilla	N Iotatonos
N Hcircle	N Istroke
N Hcircumflex	N Itilde
N Hdieresis	N Itildebelow
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N Hdotbelow	N Izhitsadblgravecyrillic
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N Hoarmenian	N Jaarmenian
N Horicoptic	N Jcircle
N Hzsquare	N Jcircumflex

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N Jheharmerian  
N Jmonospace  
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N KBsquare  
N KKsquare  
N Kabashkircyrillic  
N Kacute  
N Kacyrillic  
N Kadescendercyrillic  
N Kahookcyrillic  
N Kappa  
N Kastrokecyrillic  
N Kaverticallstrokecyrillic  
N Kcaron  
N Kcedilla  
N Kcircle  
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N Kenarmenian  
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N Kheicoptic  
N Khook  
N Kjecyrillic  
N Klinebelow  
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N Koppacyrillic  
N Koppagreek  
N Ksicyrillic  
N L  
N LJ  
N Lacute  
N Lambda  
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N Ldot  
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N Ldotbelowmacron  
N Liwnarmenian

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N O  
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N Ocenteredtilde  
N Ocicle  
N Ocircumflex



N Ocircumflexacute  
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N Odieresiscyrillic  
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N Ograve  
N Oharmenian  
N Ohm  
N Ohookabove  
N Ohorn  
N Ohornacute  
N Ohorndotbelow  
N Ohorngrave  
N Ohornhookabove  
N Ohorntilde  
N Ohungarumlaut  
N Oi  
N Oinvertedbreve  
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N Omacrongrave  
N Omega  
N Omegacyrillic  
N Omegagreek  
N Omegaroundcyrillic  
N Omegatitlocyrillic  
N Omegatonos  
N Omicron  
N Omicrontonos  
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N Oogonekmacron  
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N Oslashacute  
N Ostrokeacute  
N Otcyrillic

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N Otildedieresis  
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N Pdotaccent  
N Pecyrillic  
N Pecharmenian  
N Pemiddlehookcyrillic  
N Phi  
N Phook  
N Pi  
N Piwrarmenian  
N Pmonospace  
N Psi  
N Psicyrillic  
N Q  
N Qcircle  
N Qmonospace  
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N Rcaron  
N Rcedilla  
N Rcircle  
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N Rdblgrave  
N Rdotaccent  
N Rdotbelow  
N Rdotbelowmacron  
N Reharmenian  
N Rfraktur  
N Rho  
N Rinvertedbreve  
N Rlinebelow  
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N Rsmallinvertedsuperior  
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N SF020000  
N SF030000  
N SF040000

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N SF070000	N Sacutedotaccent
N SF080000	N Sampigreek
N SF090000	N Scaron
N SF10000	N Scarondotaccent
N SF100000	N Scedilla
N SF110000	N Schwa
N SF190000	N Schwacyrillic
N SF20000	N Schwadiesiscyrillic
N SF200000	N Scircle
N SF210000	N Scircumflex
N SF220000	N Scommaaccent
N SF230000	N Sdotaccent
N SF240000	N Sdotbelow
N SF250000	N Sdotbelowdotaccent
N SF260000	N Seharmerian
N SF270000	N Sevenroman
N SF280000	N Shaarmenian
N SF30000	N Shacyrillic
N SF360000	N Shchacyrillic
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N SF380000	N Shhacyrillic
N SF390000	N Shimacoptic
N SF40000	N Sigma
N SF400000	N Sixroman
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N SF420000	N Softsigncyrillic
N SF430000	N Stigmagreek
N SF440000	N T
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 Tcyrillic
N SF540000	N Tedescendercyrillic
N SF60000	N Tenroman
N SF70000	N Tetsecyrillic
N SF80000	N Theta

N Thook	N Ukcyrillic
N Thorn	N Umacron
N Threeroman	N Umacroncyrillic
N Tiwnarmenian	N Umacrondieresis
N Tlinebelow	N Umonospace
N Tmonospace	N Uogonek
N Toarmenian	N Upsilon
N Tonefive	N Upsilonl
N Tonesix	N Upsilonacutehooksgreek
N Tonetwo	N Upsilonafrican
N Tretroflexhook	N Upsilondieresis
N Tsecyrillic	N Upsilondieresishooksgreek
N Tshcyrillic	N Upsilonhooksymbol
N Twelveroman	N Upsilontonos
N Tworoman	N Uring
N U	N Ushortcyrillic
N Uacute	N Ustraightcyrillic
N Ubreve	N Ustraightstrokecyrillic
N Ucaron	N Utilde
N Ucircle	N Utildeacute
N Ucircumflex	N Utildebelow
N Ucircumflexbelow	N V
N Ucyrillic	N Vcircle
N Udblacute	N Vdotbelow
N Udblgrave	N Vecyrillic
N Udieresis	N Vewarmenian
N Udieresisacute	N Vhook
N Udieresisbelow	N Vmonospace
N Udieresiscaron	N Voarmenian
N Udieresiscyrillic	N Vtilde
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N Udieresismacron	N Wacute
N Udotbelow	N Wcircle
N Ugrave	N Wcircumflex
N Uhookabove	N Wdieresis
N Uhorn	N Wdotaccent
N Uhornacute	N Wdotbelow
N Uhorndotbelow	N Wgrave
N Uhorngrave	N Wmonospace
N Uhornhookabove	N X
N Uhorntilde	N Xcircle
N Uhungarumlaut	N Xdieresis
N Uhungarumlautcyrillic	N Xdotaccent
N Uinvertedbreve	N Xeharmenian

N Xi	N Zstroke
N Xmonospace	N a
N Y	N aabengali
N Yacute	N aacute
N Yatcyrillic	N aadeva
N Ycircle	N aagujarati
N Ycircumflex	N aagurmukhi
N Ydieresis	N aamatragurmukhi
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N Ydotbelow	N aavowelsignbengali
N Yericyrillic	N aavowelsigndeva
N Yerudieresiscyrillic	N aavowelsigngujarati
N Ygrave	N abbreviationmarkarmenian
N Yhook	N abbreviationsigndeva
N Yhookabove	N abengali
N Yiarmenian	N abopomofo
N Yicyrillic	N abreve
N Yiwnarmenian	N abreveacute
N Ymonospace	N abrevecyrillic
N Ytilde	N abrevedotbelow
N Yusbigcyrillic	N abrevegrave
N Yusbigiotifiedcyrillic	N abrevehookabove
N Yuslittlecyrillic	N abrevetilde
N Yuslittleiotifiedcyrillic	N acaron
N Z	N acircle
N Zaarmenian	N acircumflex
N Zacute	N acircumflexacute
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N Zcircle	N acircumflexgrave
N Zcircumflex	N acircumflexhookabove
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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 Zhearmanian	N acutetonecmb
N Zhebrevecyrillic	N acyrillic
N Zhecyrillic	N adblgrave
N Zhedescendercyrillic	N addakgurmukhi
N Zhedieresiscyrillic	N adeva
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N Zmonospace	N adieresiscyrillic

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N aideva  
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N aigurmukhi  
N aimatragurmukhi  
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N ainfinalarabic  
N aininitialarabic

N ainmedialarabic	N angleright
N ainvertedbreve	N angstrom
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N aivowelsigngujarati	N anusvarabengali
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N akatakanahalfwidth	N anusvaragujarati
N akorean	N aogonek
N alef	N apaatosquare
N alefarabic	N aparen
N alefdageshhebrew	N apostrophearmenian
N aleffinalarabic	N apostrophemod
N alefhamzaaboveearabic	N apple
N alefhamzaabovefinalarabic	N approaches
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N alefhamzabelowfinalarabic	N approxequalorimage
N alefhebrew	N approximatelyequal
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N alefmaddaabovefinalarabic	N arc
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N alefmaksurainitialarabic	N aringacute
N alefmaksuramedialarabic	N aringbelow
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 arrowheaddownmod
N anglebracketleft	N arrowheadleftmod
N anglebracketleftvertical	N arrowheadrightmod
N anglebracketright	N arrowheadupmod
N anglebracketrightvertical	N arrowleft
N angleleft	N arrowleftdbl



N arrowleftdblstroke	N augurmukhi
N arrowleftoverright	N aulengthmarkbengali
N arrowleftwhite	N aumatragurmukhi
N arrowright	N auvowelsignbengali
N arrowrightdblstroke	N auvowelsigndeva
N arrowrightheavy	N auvowelsigngujarati
N arrowrightoverleft	N avagrahadeva
N arrowrightwhite	N aybarmenian
N arrowtableft	N ayin
N arrowtabright	N ayinaltonehebrew
N arrowup	N ayinhebrew
N arrowupdn	N b
N arrowupdnbs	N babengali
N arrowupdownbase	N backslash
N arrowupleft	N backslashmonospace
N arrowupleftofdown	N badeva
N arrowupright	N bagujarati
N arrowupwhite	N bagurmukhi
N asciicircum	N bahiragana
N asciicircummonospace	N bahtthai
N asciitilde	N bakatakana
N asciitildemonospace	N bar
N ascript	N barmonospace
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 betdageshhebrew	N braceleft
N bethebrew	N braceleftmonospace
N betrafehebrew	N braceleftsmall
N bhabengali	N braceleftvertical
N bhadeva	N braceright
N bhagujarati	N bracerightmonospace
N bhagurmukhi	N bracerightsmall
N bhook	N bracerightvertical
N bihiragana	N bracketleft
N bikatakana	N bracketleftmonospace
N bilabialclick	N bracketright
N bindigurmukhi	N bracketrightmonospace
N birusquare	N breve
N blackcircle	N brevebelowcmb
N blackdiamond	N brevecmb
N blackdownpointingtriangle	N breveinvertedbelowcmb
N blackleftpointingpointer	N breveinvertedcmb
N blackleftpointingtriangle	N breveinverteddoublecmb
N blacklenticularbracketleft	N bridgebelowcmb
N blacklenticularbracketleftvertical	N bridgeinvertedbelowcmb
N blacklenticularbracketright	N brokenbar
N blacklenticularbracketrightvertical	N bstroke
N blacklowerlefttriangle	N btopbar
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 bqsquare	N caron

N caronbelowcmb	N cieucacirclekorean
N caroncmb	N cieucaparenkorean
N carriagereturn	N cieuccirclekorean
N cbopomofo	N cieuckorean
N ccaron	N cieucparenkorean
N ccedilla	N cieucuparenkorean
N ccedillaacute	N circle
N ccircle	N circlemultiply
N ccircumflex	N circleot
N ccurl	N circleplus
N cdot	N circlepostalmark
N cdotaccent	N circlewithlefthalfblack
N cdsquare	N circlewithrighthalfblack
N cedilla	N circumflex
N cedillacmb	N circumflexbelowcmb
N cent	N circumflexcmb
N centigrade	N clear
N centmonospace	N clickalveolar
N chaarmenian	N clickdental
N chabengali	N clicklateral
N chadeva	N clickretroflex
N chagujarati	N club
N chagurmukhi	N clubsuitblack
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 commaturnedabovemb	N cornerbracketrightvertical
N commaturnedmod	N corporationsquare
N compass	N cosquare
N congruent	N coverkgsquare
N contourintegral	N cparen
N control	N cruzeiro
N controlACK	N cstretched
N controlBEL	N curlyand
N controlBS	N curlyor
N controlCAN	N currency
N controlCR	N d
N controlDC1	N daarmenian
N controlDC2	N dabengali
N controlDC3	N dadarabic
N controlDC4	N dadeva
N controlDEL	N dadfinalarabic
N controlDLE	N dadinitialarabic
N controlEM	N dadmedialarabic
N controlENQ	N dagesh
N controlEOT	N dageshhebrew
N controlESC	N dagger
N controlETB	N daggerdbl
N controlETX	N dagujarati
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 daletqubutshebrew	N ddalfinalarabic
N daletsegol	N dddhadeva
N daletsegolhebrew	N ddhabengali
N daletsheva	N ddhadeva
N daletshevahebrew	N ddhagujarati
N dalettsere	N ddhagurmukhi
N dalettserehebrew	N ddotaccent
N dalfinalarabic	N ddotbelow
N dammaarabic	N decimalseparatorarabic
N dammalowarabic	N decimalseparatorpersian
N dammatanaltonearabic	N decyrillic
N dammatanarabic	N degree
N danda	N dehihebrew
N dargahebrew	N dehiragana
N dargalefthebrew	N deicoptic
N dasiapneumatacyrillicmb	N dekatakana
N dblanglebracketleft	N deleteleft
N dblanglebracketleftvertical	N deleteright
N dblanglebracketright	N delta
N dblanglebracketrightvertical	N deltaturned
N dblarchinvertedbelowcmb	N denominatorminusonenumeratorbengali
N dbllarrowleft	N dezhang
N dbllarrowright	N dhabengali
N dbldanda	N dhadeva
N dblgravecmb	N dhagujarati
N dblintegral	N dhagurmukhi
N dbllowline	N dhook
N dbllowlinecmb	N dialytikatonos
N dbloverlinecmb	N dialytikatonoscmb
N dblprimemod	N diamond
N dblverticalbar	N diamondsuitwhite
N dblverticallineabovecmb	N dieresis
N dbopomofo	N dieresisbelowcmb
N dbsquare	N dieresiscmb
N dcaron	N dieresis-tonos
N dcedilla	N dihiragana
N dcircle	N dikatakana
N dcircumflexbelow	N dittomark
N dcroat	N divide
N ddabengali	N divides
N ddadeva	N divisionslash
N ddagujarati	N djecyrillic
N ddagurmukhi	N dkshade
N ddalarabic	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 doubleyodpatahhebrew  
 N downtackbelowcmb  
 N downtackmod  
 N dparen  
 N dtail  
 N dtopbar  
 N duhiragana  
 N dukatakana  
 N dz  
 N dzaltone  
 N dzcaron  
 N dzcurl  
 N dzeabkhasiancyrillic  
 N dzecyrillic  
 N dzhecyrillic  
 N e  
 N eacute  
 N earth  
 N ebengali  
 N ebopomofo

N ebreve  
 N ecandradeva  
 N ecandragujarati  
 N ecandravowelsigndeva  
 N ecandravowelsignujarati  
 N ecaron  
 N ecedillabreve  
 N echarmenian  
 N echyiwnarmenian  
 N ecircle  
 N ecircumflex  
 N ecircumflexacute  
 N ecircumflexbelow  
 N ecircumflexdotbelow  
 N ecircumflexgrave  
 N ecircumflexhookabove  
 N ecircumflextilde  
 N ecyrillic  
 N edblgrave  
 N edeva  
 N edieresis  
 N edot  
 N edotaccent  
 N edotbelow  
 N eegurmukhi  
 N eematragurmukhi  
 N efcyrillic  
 N egrave  
 N egujarati  
 N eharmenian  
 N ehbopomofo  
 N ehiragana  
 N ehookabove  
 N eibopomofo  
 N eight  
 N eightarabic  
 N eightbengali  
 N eightcircle  
 N eightcircleinversesansserif  
 N eightdeva  
 N eightteencircle  
 N eighteenparen  
 N eighteenperiod  
 N eightgujarati

N eightgurmukhi	N enhookcyrillic
N eighthackarabic	N enspace
N eighthangzhou	N eogonek
N eighthnotebeamed	N eokorean
N eightideographicparen	N eopen
N eightinferior	N eopenclosed
N eightmonospace	N eopenreversed
N eightparen	N eopenreversedclosed
N eightperiod	N eopenreversedhook
N eightpersian	N eparen
N eightroman	N epsilon
N eightsuperior	N epsilontonos
N eightthai	N equal
N einvertedbreve	N equalmonospace
N eiotifiedcyrillic	N equalsmall
N ekatakana	N equalsuperior
N ekatakanahalfwidth	N equivalence
N ekonkargurmukhi	N erbopomofo
N ekorean	N ercyrillic
N elcyrillic	N ereversed
N element	N ereversedcyrillic
N elevencircle	N escyrillic
N elevenparen	N esdescendercyrillic
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 eukorean	N finalkafdagesh
N euro	N finalkafdageshhebrew
N evowelsignbengali	N finalkafhebrew
N evowelsigndeva	N finalkafqamats
N evowelsigngujarati	N finalkafqamatshebrew
N exclam	N finalkafsheva
N exclamarmenian	N finalkafshevahebrew
N exclamdbl	N finalmem
N exclamdown	N finalmemhebrew
N exclammonospace	N finalnun
N existential	N finalnunhebrew
N ezh	N finalpe
N ezhcaron	N finalpehebrew
N ezhcurl	N finaltsadi
N ezhreversed	N finaltsadihebrew
N ezhtail	N firsttonechinese
N f	N fisheye
N fadeva	N fitacyrillic
N fagurmukhi	N five
N fahrenheit	N fivearabic
N fathaarabic	N fivebengali
N fathalowarabic	N fivecircle
N fathatanarabic	N fivecircleinversesansserif
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 fongmanthai  
 N forall  
 N four  
 N fourarabic  
 N fourbengali  
 N fourcircle  
 N fourcircleinversesansserif  
 N fourdeva  
 N fourgujarati  
 N fourgurmukhi  
 N fourhackarabic  
 N fourhangzhou  
 N fourideographicparen  
 N fourinferior  
 N fourmonospace  
 N fournumeratorbengali  
 N fourparen  
 N fourperiod  
 N fourpersian  
 N fourroman  
 N foursuperior  
 N fourteencircle  
 N fourteenparen  
 N fourteenperiod  
 N fourthai  
 N fourthtonechinese  
 N fparen  
 N fraction  
 N franc  
 N g  
 N gabengali  
 N gacute  
 N gadeva  
 N gafarabic  
 N gaffinalarabic  
 N gafinitialarabic  
 N gafmedialarabic  
 N gagujarati  
 N gagurmukhi  
 N gahiragana  
 N gakatakana  
 N gamma  
 N gammalatinsmall  
 N gammasuperior

N gangiacoptic  
 N gbopomofo  
 N gbreve  
 N gcaron  
 N gcedilla  
 N gcircle  
 N gcircumflex  
 N gcommaaccent  
 N gdot  
 N gdotaccent  
 N gecyrillic  
 N gehiragana  
 N gekatakana  
 N geometricallyequal  
 N gereshaccenthebrew  
 N gereshhebrew  
 N gereshmuqdamhebrew  
 N germandbls  
 N gershayimaccenthebrew  
 N gershayimhebrew  
 N getamark  
 N ghabengali  
 N ghadarmenian  
 N ghadeva  
 N ghagujarati  
 N ghagurmukhi  
 N ghainarabic  
 N ghainfinalarabic  
 N ghaininitialarabic  
 N ghainmedialarabic  
 N ghemiddlehookcyrillic  
 N ghestrokecyrillic  
 N gheupturncyrillic  
 N ghadeva  
 N ghagurmukhi  
 N ghook  
 N ghzsquare  
 N gihiragana  
 N gikatakana  
 N gimarmenian  
 N gimel  
 N gimeldagesh  
 N gimeldageshhebrew  
 N gimelhebrew

N gjecyrillic	N haabkhasiancyrillic
N glottalinvertedstroke	N haaltonearabic
N glottalstop	N habengali
N glottalstopinverted	N hadescendercyrillic
N glottalstopmod	N hadeva
N glottalstopreversed	N hagujarati
N glottalstopreversedmod	N hagurmukhi
N glottalstopreversedsuperior	N haharabic
N glottalstopstroke	N hahfinalarabic
N glottalstopstrokereversed	N hahinitialarabic
N gmacron	N hahiragana
N gmonospace	N hahmedialarabic
N gohiragana	N haitusquare
N gokatakana	N hakatakana
N gparen	N hakatakanahalfwidth
N gpasquare	N halantgurmukhi
N gradient	N hamzaarabic
N grave	N hamzadammaarabic
N gravebelowcmb	N hamzadammatanarabic
N gravecmb	N hamzafathaarabic
N gravecomb	N hamzafathatanarabic
N gravedeva	N hamzalowarabic
N gravelowmod	N hamzalowkasraarabic
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 gurusquare	N hatafqamats34
N gysquare	N hatafqamatshebrew
N h	N hatafqamatsnarrowhebrew

N hatafqamatsquarterhebrew	N het
N hatafqamatswidehebrew	N hethebrew
N hatafsego1	N hhook
N hatafsego117	N hhooksuperior
N hatafsego124	N hieuhacirclekorean
N hatafsego130	N hieuhaparenkorean
N hatafsego1hebrew	N hieuhcirclekorean
N hatafsego1narrowhebrew	N hieuhkorean
N hatafsego1quarterhebrew	N hieuhparenkorean
N hatafsego1widehebrew	N hihiragana
N hbar	N hikatakana
N hbopomofo	N hikatakanahalfwidth
N hbrevebelow	N hiriq
N hcedilla	N hiriq14
N hcircle	N hiriq21
N hcircumflex	N hiriq2d
N hdieresis	N hiriqhebrew
N hdotaccent	N hiriqnarrowhebrew
N hdotbelow	N hiriqqarterhebrew
N he	N hiriqwidehebrew
N heart	N hlinebelow
N heartsuitblack	N hmonospace
N heartsuitwhite	N hoarmenian
N hedagesh	N hohipthai
N hedageshhebrew	N hohiragana
N hehalttonearabic	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 hookabovecomb
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 hotsprings	N ideographichaveparen
N house	N ideographichighcircle
N hparen	N ideographiciterationmark
N hsuperior	N ideographiclaborcircle
N hturned	N ideographiclaborparen
N huhiragana	N ideographicleftcircle
N huitosquare	N ideographiclowcircle
N hukatakana	N ideographicmedicinecircle
N hukatakanahalfwidth	N ideographicmetalparen
N hungarumlaut	N ideographicmoonparen
N hungarumlautcmb	N ideographicnameparen
N hv	N ideographicperiod
N hyphen	N ideographicprintcircle
N hyphenmonospace	N ideographicreachparen
N hyphensmall	N ideographicrepresentparen
N hyphentwo	N ideographicresourceparen
N i	N ideographicrightcircle
N iacute	N ideographicsecretcircle
N iacyrillic	N ideographicselfparen
N ibengali	N ideographicsocietyparen
N ibopomofo	N ideographicspace
N ibreve	N ideographicspecialparen
N icaron	N ideographicstockparen
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 iecyrillic
N ideographicfinancialparen	N ieungacirclekorean
N ideographicfireparen	N ieungaparenkorean

N ieungcirclekorean  
N ieungkorean  
N ieungparenkorean  
N igrave  
N igujarati  
N igurmukhi  
N ihiragana  
N ihookabove  
N iibengali  
N iicyrillic  
N iideva  
N iigujarati  
N iigurmukhi  
N iimatragurmukhi  
N iinvertedbreve  
N iishortcyrillic  
N iivowelsignbengali  
N iivowelsigndeva  
N iivowelsigngujarati  
N ij  
N ikatakana  
N ikatakanahalfwidth  
N ikorean  
N ilde  
N iluyhebrew  
N imacron  
N imacroncyrillic  
N imageorapproximatelyequal  
N imatragurmukhi  
N imonospace  
N increment  
N infinity  
N iniarmenian  
N integral  
N integralbottom  
N integralbt  
N integraltop  
N integraltp  
N intersection  
N intisquare  
N invbullet  
N invcircle  
N invsmileface  
N iocyrlilic

N iogonek  
N iota  
N iodadieresis  
N iodadieresisstonos  
N iotalatin  
N iotatonos  
N iparen  
N irigurmukhi  
N ismallhiragana  
N ismallkatakana  
N ismallkatakanahalfwidth  
N issharbengali  
N istroke  
N iterationhiragana  
N iterationkatakana  
N itilde  
N itildebelow  
N iubopomofo  
N iucyrlilic  
N ivowelsignbengali  
N ivowelsigndeva  
N ivowelsigngujarati  
N izhitsacyrillic  
N izhitsadblgravecyrillic  
N j  
N jaarmenian  
N jabengali  
N jadeva  
N jagujarati  
N jagurmukhi  
N jbopomofo  
N jcaron  
N jcicle  
N jccircumflex  
N jccrossedtail  
N jdotlessstroke  
N jecyrlilic  
N jeemarabic  
N jeemfinalarabic  
N jeeminitialarabic  
N jeemmedialarabic  
N jeharabic  
N jehfinalarabic  
N jhabengali

N jhadeva	N katahiraprolongmarkhalfwidth
N jhagujarati	N kaverticalserokecyrillic
N jhagurmukhi	N kbopomofo
N jheharmerian	N kcalsquare
N jis	N kcaron
N jmonospace	N kcedilla
N jpren	N kcircle
N jsuperior	N kcommaaccent
N k	N kdotbelow
N kabashkircyrillic	N keharmerian
N kabengali	N kehiragana
N kacute	N kekatakana
N kacyrillic	N kekatakanahalfwidth
N kadescendercyrillic	N kenarmerian
N kadeva	N kesmallkatakana
N kaf	N kgreenlandic
N kafarabic	N khabengali
N kafdagesh	N khacyrillic
N kafdageshhebrew	N khadeva
N kaffinalarabic	N khagujarati
N kafhebrew	N khagurmukhi
N kafinitialarabic	N khaharabic
N kafmedialarabic	N khahfinalarabic
N kafrafehebrew	N khahinitialarabic
N kagujarati	N khahmedialarabic
N kagurmukhi	N kheicoptic
N kahiragana	N khadeva
N kahookcyrillic	N khagurmukhi
N kakatakana	N khieukhacirclekorean
N kakatakanahalfwidth	N khieukhaparenkorean
N kappa	N khieukhcirclekorean
N kappasymbolgreek	N khieukhkorean
N kapyeounmieumkorean	N khieukhparenkorean
N kapyeounphieuphorean	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 kiroguramusquare	N lamalefhamzabelowfinalarabic
N kiromeetorusquare	N lamalefhamzabelowisolatedarabic
N kirosquare	N lamalefisolatedarabic
N kiyeokacirclekorean	N lamalefmaddaabovefinalarabic
N kiyeokaparenkorean	N lamalefmaddaaboveisolatedarabic
N kiyeokcirclekorean	N lamarabic
N kiyeokkorean	N lambda
N kiyeokparenkorean	N lambdastroke
N kiyeoksioskorean	N lamed
N kjecyrillic	N lameddagesh
N klinebelow	N lameddageshhebrew
N klsquare	N lamedhebrew
N kmcubedsquare	N lamedholam
N kmonospace	N lamedholamdagesh
N kmsquaredsquare	N lamedholamdageshhebrew
N kohiragana	N lamedholamhebrew
N kohmsquare	N lamfinalarabic
N kokaithai	N lamhahinitialarabic
N kokatakana	N laminitialarabic
N kokatakanahalfwidth	N lamjeeminitialarabic
N kooposquare	N lamkhahinitialarabic
N koppacyrillic	N lamlamhehisolatedarabic
N koreanstandardsymbol	N lammedialarabic
N koroniscmb	N lammeemhahinitialarabic
N kparen	N lammeeminitialarabic
N kpasquare	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 lessequalorgreater  
 N lessmonospace  
 N lessorequivalent  
 N lessorgreater  
 N lessoverequal  
 N lesssmall  
 N lezh  
 N lfblock  
 N lhookretroflex  
 N lira  
 N liwnarmenian  
 N lj  
 N ljecyrillic  
 N lladeva  
 N llagujarati  
 N llinebelow  
 N llladeva  
 N llvocalicbengali  
 N llvocalicdeva  
 N llvocalicvowelsignbengali  
 N llvocalicvowelsigndeva  
 N lmiddletilde  
 N lmonospace  
 N lmsquare  
 N lochulathai  
 N logicaland  
 N logicalnot  
 N logicalnotreversed  
 N logicalor  
 N lolingthai  
 N longs  
 N lowlinecenterline  
 N lowlinecmb  
 N lowlinedashed  
 N lozenge  
 N lparen  
 N lslash  
 N lsquare  
 N ltshade  
 N luthai  
 N lvocalicbengali  
 N lvocalicdeva  
 N lvocalicvowelsignbengali  
 N lvocalicvowelsigndeva

N lxsquare  
 N m  
 N mabengali  
 N macron  
 N macronbelowcmb  
 N macroncmb  
 N macronlowmod  
 N macronmonospace  
 N macute  
 N madeva  
 N magujarati  
 N magurmukhi  
 N mahapakhhebrew  
 N mahapakhlefthebrew  
 N mahiragana  
 N maichattawathai  
 N maiekthai  
 N maihanakatthai  
 N maitaikhuthai  
 N maithothai  
 N maitrithai  
 N maiyamokthai  
 N makatakana  
 N makatakanahalfwidth  
 N male  
 N mansyonsquare  
 N maqafhebrew  
 N mars  
 N masoracirclehebrew  
 N masquare  
 N mbopomofo  
 N mbsquare  
 N mcircle  
 N mcubedsquare  
 N mdotaccent  
 N mdotbelow  
 N meemarabic  
 N meemfinalarabic  
 N meeminitialarabic  
 N meemmedialarabic  
 N meemmeeminitialarabic  
 N meemmeemisolatedarabic  
 N meetorusquare  
 N mehiragana



N meizierasquare	N molsquare
N mekatakana	N momathai
N mekatakanahalfwidth	N moverssquare
N mem	N moverssquaredsquare
N memdagesh	N mparen
N memdageshhebrew	N mpasquare
N memhebrew	N mssquare
N menarmenian	N mturned
N merkhahebrew	N mu
N merkhakefulahebrew	N mul
N merkhakefulalefthebrew	N muasquare
N merkhalefthebrew	N muchgreater
N mhook	N muchless
N mhzsquare	N mufsquare
N middledotkatakanahalfwidth	N mugreek
N middot	N mugsquare
N mieumacirclekorean	N muhiragana
N mieumaparenkorean	N mukatakana
N mieumcirclekorean	N mukatakanahalfwidth
N mieumkorean	N mulsquare
N mieumpansioskorean	N multiply
N mieuparenkorean	N mumsquare
N mieumpieupkorean	N munahhebrew
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 mvmegasquare
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 nakatakanahalfwidth	N ninedeva
N napostrophe	N ninegujarati
N nasquare	N ninegurmukhi
N nbopomofo	N ninehackarabic
N nbspace	N ninehangzhou
N ncaron	N nineideographicparen
N ncedilla	N nineinferior
N ncircle	N ninemonospace
N ncircumflexbelow	N nineparen
N ncommaaccent	N nineperiod
N ndotaccent	N ninepersian
N ndotbelow	N nineroman
N nehiragana	N ninesuperior
N nekatakana	N nineteencircle
N nekatakanahalfwidth	N nineteenparen
N newsheqelsign	N nineteenperiod
N nfsquare	N ninthai
N ngabengali	N nj
N ngadeva	N njecyrillic
N ngagujarati	N nkatakana
N ngagurmukhi	N nkatakanahalfwidth
N ngonguthai	N nlegrightlong
N nhiragana	N nlinebelow
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 noonmedialarabic	N nyabengali
N noonmeeminitialarabic	N nyadeva
N noonmeemisolatedarabic	N nyagujarati
N noonnoonfinalarabic	N nyagurmukhi
N notcontains	N o
N notelement	N oacute
N notelementof	N oangthai
N notequal	N obarred
N notgreater	N obarredcyrillic
N notgreaternorequal	N obarreddieresiscyrillic
N notgreaternorless	N obengali
N notidentical	N obopomofo
N notless	N obreve
N notlessnorequal	N ocandradeva
N notparallel	N ocandragujarati
N notprecedes	N ocandravowelsigndeva
N notsubset	N ocandravowelsigngujarati
N notsucceeds	N ocaron
N notsuperset	N ocircle
N nowarmenian	N ocircumflex
N nparen	N ocircumflexacute
N nssquare	N ocircumflexdotbelow
N nsuperior	N ocircumflexgrave
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 ohorngrave	N onepersian
N ohornhookabove	N onequarter
N ohorntilde	N oneroman
N ohungarumlaut	N onesuperior
N oi	N onethai
N oinvertedbreve	N onethird
N okatakana	N oogonek
N okatakanahalfwidth	N oogonekmacron
N okorean	N oogurmukhi
N olehebrew	N oomatragurmukhi
N omacron	N oopen
N omacronacute	N oparen
N omacrongrave	N openbullet
N omdeva	N option
N omega	N ordfeminine
N omegal	N ordmasculine
N omegacyrillic	N orthogonal
N omegalatinclosed	N oshortdeva
N omegaroundcyrillic	N oshortvowelsigndeva
N omegatitlocyrillic	N oslash
N omegatonos	N oslashacute
N omgujarati	N osmallhiragana
N omicron	N osmallkatakana
N omicrontonos	N osmallkatakanahalfwidth
N omonospace	N ostrokeacute
N one	N otcyrillic
N onearabic	N otilde
N onebengali	N otildeacute
N onecircle	N otildedieresis
N onecircleinversesansserif	N oubopomofo
N onedeva	N overline
N onedotenleader	N overlinecenterline
N oneeighth	N overlinecmb
N onegujarati	N overlinedashed
N onegurmukhi	N overlinedblwavy
N onehackarabic	N overlinewavy
N onehalf	N overscore
N onehangzhou	N ovowelsignbengali
N oneideographicparen	N ovowelsigndeva
N oneinferior	N ovowelsigngujarati
N onemonospace	N p
N onenumeratorbengali	N paampssquare
N oneparen	N paasentosquare
N oneperiod	N pabengali

N pacute  
 N padeva  
 N pagedown  
 N pageup  
 N pagujarati  
 N pagurmukhi  
 N pahiragana  
 N paiyannoithai  
 N pakatakana  
 N palatalizationcyrilliccmb  
 N palochkacyrillic  
 N pansioskorean  
 N paragraph  
 N parallel  
 N parenleft  
 N parenleftalttonearabic  
 N parenleftinferior  
 N parenleftmonospace  
 N parenleftsmall  
 N parenleftsuperior  
 N parenleftvertical  
 N parenright  
 N parenrightalttonearabic  
 N parenrightinferior  
 N parenrightmonospace  
 N parenrightsmall  
 N parenrightsuperior  
 N parenrightvertical  
 N partialdiff  
 N paseqhebrew  
 N pashtahebrew  
 N pasquare  
 N patah  
 N patah1l  
 N patah1d  
 N patah2a  
 N patahhebrew  
 N patahnarrowhebrew  
 N patahquarterhebrew  
 N patahwidehebrew  
 N pazerhebrew  
 N pbopomofo  
 N pcircle  
 N pdotaccent

N pe  
 N pecyrillic  
 N pedagesh  
 N pedageshhebrew  
 N peezisquare  
 N pefinaldageshhebrew  
 N peharabic  
 N peharmenian  
 N pehebrew  
 N pehfinalarabic  
 N pehinitialarabic  
 N pehiragana  
 N pehmedialarabic  
 N pekatakana  
 N pemiddlehookcyrillic  
 N perafehebrew  
 N percent  
 N percentarabic  
 N percentmonospace  
 N percentsmall  
 N period  
 N periodarmenian  
 N periodcentered  
 N periodhalfwidth  
 N periodmonospace  
 N periodsmall  
 N perispomenigreekcmb  
 N perpendicular  
 N perthousand  
 N peseta  
 N pfsquare  
 N phabengali  
 N phadeva  
 N phagujarati  
 N phagurmukhi  
 N phi  
 N phil  
 N phieuphacirclekorean  
 N phieuphaparenkorean  
 N phieuphcirclekorean  
 N phieuphkorean  
 N phieuphparenkorean  
 N philatin  
 N phinthuthai

N phisymbolgreek	N primemod
N phook	N primereversed
N phophanthai	N product
N phophungthai	N projective
N phosamphaothai	N prolongedkana
N pi	N propellor
N pieupacirclekorean	N propersubset
N pieupaparenkorean	N propersuperset
N pieupcieuckorean	N proportion
N pieupcirclekorean	N proportional
N pieupkiyeokkorean	N psi
N pieupkorean	N psicyrillic
N pieupparenkorean	N psilipneumatacyrilliccmb
N pieupsioskiyeokkorean	N pssquare
N pieupsioskorean	N puhiragana
N pieupsiosstikeutkorean	N pukatakana
N pieupthieuthkorean	N pvsquare
N pieuptikeutkorean	N pwsquare
N pihiragana	N q
N pikatakana	N qadeva
N pisymbolgreek	N qadmahebrew
N piwrarmenian	N qafarabic
N plus	N qaffinalarabic
N plusbelowcmb	N qafinitaliarabic
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 qamatsqatanannarrowhebrew
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 qhook	N quotedblleft
N qmonospace	N quotedblmonospace
N qof	N quotedblprime
N qofdagesh	N quotedblprimereversed
N qofdageshhebrew	N quotedblright
N qofhatafpatah	N quoteleft
N qofhatafpatahhebrew	N quoteleftreversed
N qofhatafsegol	N quotereversed
N qofhatafsegolhebrew	N quoteright
N qofhebrew	N quoterightn
N qofhiriq	N quotesinglbase
N qofhiriqhebrew	N quotesingle
N qofholam	N quotesinglemonospace
N qofholamhebrew	N r
N qofpatah	N raarmenian
N qofpatahhebrew	N rabengali
N qofqamats	N racute
N qofqamatshebrew	N radeva
N qofqubuts	N radical
N qofqubutshebrew	N radoverssquare
N qofsegol	N radoverssquaresquare
N qofsegolhebrew	N radsquare
N qofsheva	N rafe
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 reflexsuperset	N rhosymbolgreek
N registered	N rhotichookmod
N reharabic	N rieulacirclekorean
N reharmenian	N rieulaparenkorean
N rehfinalarabic	N rieulcirclekorean
N rehiragana	N rieulhieuhkorean
N rehyehaleflamarabic	N rieulkiyeokkorean
N rekatakana	N rieulkiyeoksioskorean
N rekatakanahalfwidth	N rieulkkorean
N resh	N rieulmieumkorean
N reshdageshhebrew	N rieulpansioskorean
N reshhatafpatah	N rieulparenkorean
N reshhatafpatahhebrew	N rieulphieuphkorean
N reshhatafsegol	N rieulpieupkorean
N reshhatafsegolhebrew	N rieulpieupsioskorean
N reshhebrew	N rieulsioskorean
N reshhiriq	N rieulthieuthkorean
N reshhiriqhebrew	N rieultikeutkorean
N reshholam	N rieulyeorinhieuhkorean
N reshholamhebrew	N rightangle
N reshpatah	N righttackbelowcmb
N reshpatahhebrew	N righttriangle
N reshqamats	N rihiragana
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 roruathai	N samekhdagesh
N rparen	N samekhdageshhebrew
N rrabengali	N samekhhebrew
N rradeva	N saraaathai
N rragurmukhi	N saraaethai
N rreharabic	N saraaimaimalaithai
N rrehfinalarabic	N saraaimaimuanthai
N rrvoalibengali	N saraamthai
N rrvoalibdeva	N saraathai
N rrvoalibgujarati	N saraethai
N rrvoalibvowelsignbengali	N saraiithai
N rrvoalibvowelsigndeva	N saraiithai
N rrvoalibvowelsigngujarati	N saraothai
N rtblock	N sarauethai
N rturned	N sarauethai
N rturnedsuperior	N sarauthai
N ruhiragana	N sarauuthai
N rukatakana	N sbopomofo
N rukatakanahalfwidth	N scaron
N rupeemarkbengali	N scarondotaccent
N rupeesignbengali	N scedilla
N ruthai	N schwa
N rvocalibengali	N schwacyrillic
N rvocalibdeva	N schwadiesiscyrillic
N rvocalibgujarati	N schwahook
N rvocalibvowelsignbengali	N scircle
N rvocalibvowelsigndeva	N scircumflex
N rvocalibvowelsigngujarati	N scommaaccent
N s	N sdotaccent
N sabengali	N sdotbelow
N sacute	N sdotbelowdotaccent
N sacutedotaccent	N seagullbelowcmb
N sadarabic	N second
N sadeva	N secondtonechinese
N sadfinalarabic	N section
N sadinitialarabic	N seenarabic
N sadmedialarabic	N seenfinalarabic
N sagujarati	N seeninitialarabic
N sagurmukhi	N seenmedialarabic
N sahiragana	N segol
N sakatakana	N segol13
N sakatakanahalfwidth	N segol1f
N sallallahoualayhewasallamarabic	N segol2c
N samekh	N segolhebrew

N segolnarrowhebrew  
 N segolquarterhebrew  
 N segoltahebrew  
 N segolwidehebrew  
 N seharmenian  
 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 sevendevea  
 N seveneighths  
 N sevengujarati  
 N sevengurmukhi  
 N sevenhackarabic  
 N sevenhangzhou  
 N sevenideographicparen  
 N seveninferior  
 N sevenmonospace  
 N sevenparen  
 N sevenperiod  
 N sevenpersian  
 N sevenroman  
 N sevensuperior  
 N seventeencircle  
 N seventeenparen  
 N seventeenperiod  
 N seventhai  
 N sfthyphen  
 N shaarmenian  
 N shabengali  
 N shacyrillic  
 N shaddaarabic

N shaddadammaarabic  
 N shaddadammatanarabic  
 N shaddafathaarabic  
 N shaddafathatanarabic  
 N shaddakasraarabic  
 N shaddakasratanarabic  
 N shade  
 N shadedark  
 N shadelight  
 N shademedium  
 N shadeva  
 N shagujarati  
 N shagurmukhi  
 N shalshethebrew  
 N shbopomofo  
 N shchacyrillic  
 N sheenarabic  
 N sheenfinalarabic  
 N sheeninitialarabic  
 N sheenmedialarabic  
 N sheicoptic  
 N sheqel  
 N sheqelhebrew  
 N sheva  
 N sheva15  
 N sheva15  
 N sheva22  
 N sheva2e  
 N shevahebrew  
 N shevanarrowhebrew  
 N shevaquarterhebrew  
 N shevawidehebrew  
 N shhacyrillic  
 N shimacoptic  
 N shin  
 N shindagesh  
 N shindageshhebrew  
 N shindageshshindot  
 N shindageshshindothebrew  
 N shindageshsindot  
 N shindageshsindothebrew  
 N shindothebrew  
 N shinhebrew  
 N shinshindot

N shinshindothewbrew	N sixteencurrencydenominatorbengali
N shinsindot	N sixteenparen
N shinsindothewbrew	N sixteenperiod
N shook	N sixthai
N sigma	N slash
N sigma1	N slashmonospace
N sigmafinal	N slong
N sigmaunatesymbolgreek	N slongdotaccent
N sihiragana	N smileface
N sikatakana	N smonospace
N sikatakanahalfwidth	N sofpassuqhebrew
N siluqhebrew	N softthyphen
N siluqlfthebrew	N softsigncyrillic
N similar	N sohiragana
N sindothewbrew	N sokatakana
N siosacirclekorean	N sokatakanahalfwidth
N siosaparenkorean	N soliduslongoverlaycmb
N sioscieuckorean	N solidusshortoverlaycmb
N sioscirclekorean	N sorusithai
N sioskiyeokkorean	N sosalathai
N sioskorean	N sosothai
N siosnieunkorean	N sosuathai
N siosparenkorean	N space
N siospieupkorean	N spacehackarabic
N siostikeutkorean	N spade
N six	N spadessuitblack
N sixarabic	N spadessuitwhite
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
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N sixmonospace	N squarelog
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N sixsuperior	N squareorthogonalcrosshatchfill
N sixteencircle	N squareupperlefttolowerrightfill

N squareupperrighttolowerleftfill	N tahinitialarabic
N squareverticalfill	N tahiragana
N squarewhitewithsmallblack	N tahmedialarabic
N srsquare	N taisyouerasquare
N ssabengali	N takatakana
N ssadeva	N takatakanahalfwidth
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N ssangcieuckorean	N tau
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N ssangieungkorean	N tavadages
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N sun	N tecyrillic
N superset	N tedescendercyrillic
N supersetnotequal	N teharabic
N supersetorequal	N tehfinalarabic
N svsquare	N tehhahinitialarabic
N syouwaerasquare	N tehhahisolatedarabic
N t	N tehinitialarabic
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N tackleft	N tehjeemisolatedarabic
N tadeva	N tehmarbutaarabic
N tagujarati	N tehmarbutafinalarabic
N tagurmukhi	N tehmedialarabic
N taharabic	N tehmeeminitialarabic
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N tekatakana	N thook
N tekatakanahalfwidth	N thophuthaothai
N telephone	N thorn
N telephoneblack	N thothahanthai
N telishagedolahebrew	N thothanthai
N telishaqetanahebrew	N thothongthai
N tencircle	N thothungthai
N tenideographicparen	N thousandcyrillic
N tenparen	N thousandsseparatorarabic
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N tevirlefthebrew	N threegurmukhi
N thabengali	N threehackarabic
N thadeva	N threehangzhou
N thagujarati	N threeideographicparen
N thagurmukhi	N threeinferior
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N thieuthaparenkorean	N tikeutacirclekorean
N thieuthcirclekorean	N tikeutaparenkorean
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N tildeoverlaycmb	N tsadihebrew
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N twodotleader	N uhiragana
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N twogujarati	N uhorn
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N twohangzhou	N uhorngrave
N twoideographicparen	N uhornhookabove
N twoinferior	N uhorntilde
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N twoparen	N uinvertedbreve
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N twopersian	N ukatakanahalfwidth
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N ucircumflex	N universal
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N udieresisbelow	N upsilontonos
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N udieresis-cyrillic	N uptackmod
N udieresisgrave	N uragurmukhi
N udieresismacron	N uring

N ushortcyrillic	N verticallineabovcmb
N usmallhiragana	N verticallinebelowcmb
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N usmallkatakanahalfwidth	N verticallinemod
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N ustraightstrokecyrillic	N vhook
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N tildebelow	N viramadeva
N uubengali	N viramagujarati
N uudeva	N visargabengali
N uugujarati	N visargadeva
N uugurmukhi	N visargagujarati
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N vdotbelow	N wavedash
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N vehinitialarabic	N wawhamzaabovearabic
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N wdotaccent	N wparen
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N weierstrass	N wturned
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N whitebullet	N xcircle
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N wokatakanahalfwidth	N yehbarreefinalarabic
N won	N yehfinalarabic
N wonmonospace	N yehhamzaabovearabic

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N yehhamzaaboveinitialarabic	N yotgreek
N yehhamzaabovemedialarabic	N yoyaekorean
N yehinitialarabic	N yoyakorean
N yehmedialarabic	N yoyakthai
N yehmeeminitialarabic	N yoyingthai
N yehmeemisolatedarabic	N yparen
N yehnoonfinalarabic	N ypogegrammeni
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N yen	N yring
N yenmonospace	N ysuperior
N yeokorean	N ytilde
N yeorinhieuhkorean	N yturned
N yerahbenyomohebrew	N yuhiragana
N yerahbenyomolefthebrew	N yuikorean
N yericyrillic	N yukatakana
N yerudieresiscyrillic	N yukatakanahalfwidth
N yesieungkorean	N yukorean
N yesieungpansioskorean	N yusbigcyrillic
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N yhook	N yusmallhiragana
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N yodhebrew	N zagurmukhi
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## gzip (extra lua)

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F MPLs		F autofinishstructurelevels
F MPn		F autonextspace
F MPp		F autonextstructurelevel

F autose setups	F bt xfoundname
F autostarttext	F bt xfoundtype
F autostoptext	F bt xhandlecite
F averagecharwidth	F bt xhandlenocite
F bf	F bt xlastofrange
F bi	F bt xlistvariant
F bitmapimage	F bt xloaddefinitionfile
F blockcolumnset	F bt xloadjournallist
F blockligatures	F bt xloadreplacementfile
F boxtostring	F bt xoneorrange
F bposcolumn	F bt xpreparelistentries
F bposcolumnregistered	F bt xremapauthor
F bs	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 xauthorforegister	F bt xsingularorplural
F bt xcollectlistentries	F bt xtoregister
F bt xcurrentfirstnames	F bt xuseddataset
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 checkcountersetup
F bt xdoifelse	F checkedconversion
F bt xdoifelsecombiinlist	F checkedemoji
F bt xdoifelsesameasprevious	F checkedpagefloat
F bt xdoifelseuservariable	F checkinjector
F bt xdoifnot	F checkinterfacechain
F bt xexpandedjournal	F checktwopassdata
F bt xfetchlistentries	F chemicalcomponent
F bt xfield	F chinesenumerals
F bt xfieldname	F cleanfontname
F bt xfieldtype	F cleanupbox
F bt xfirstofrange	F cleanupplayers
F bt xflush	F clonefield
F bt xflushlistcombi	F collectfloat
F bt xflushlistentry	F collecthelp
F bt xflushmarked	F colorcomponents
F bt xflushpages	F columnsetcurrentcolumn

F columnsetgoto	F definefilesynonym
F columnsetnoto	F definefont_one
F concatcommalist	F definefont_two
F consultfloat	F definefontcolorpalette
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 currentpostthyphenchar	F definenamespace
F currentprehyphenchar	F definenote
F currentproduct	F defineparallel
F currentproject	F defineparbuilder
F currentreferenceorder	F defineprocesscolordummy
F currentsectiontolist	F defineprocesscolorglobal
F datasetvariable	F defineprocesscolorlocal
F dayname	F defineprogram
F decimals	F definereference
F decrementcounter	F defineregister
F decrementedcounter	F definerule
F decrementsubcounter	F definesectionlevels
F defineaccents	F defineshift
F defineattribute	F definesnapmethod
F definebreakpoint	F definespotcolorglobal
F definebreakpoints	F definestructureblock
F definecharacterspacing	F definestructureset
F definechemical	F definetransparency
F definecolumnset	F definetransparencyglobal
F defineconversion	F definetwopasslist
F definecounter	F definetypeface
F definedlayoutcomponent	F defineviewerlayer
F definefallbackfamily	F depthnumber
F definefield	F digits_normal
F definefieldset	F digits_reverse
F definefilefallback	F directboxfromcache

F directcopyboxfromcache  
F disableautofontscript  
F disabledirectives  
F disableexperiments  
F disablejobsave  
F disableparbuilder  
F disableregime  
F disablespellchecking  
F disablestatetriggering  
F disablestream  
F disabletrackers  
F discardfromlist  
F doanalyzeframedbox  
F doifcommon  
F doifcounter  
F doifelseblack  
F doifelseboxincache  
F doifelsebuffer  
F doifelsecharinfont  
F doifelsecommon  
F doifelsecontinewithfile  
F doifelseconverter  
F doifelsecounter  
F doifelsecurrentfonthasfeature  
F doifelsedrawingblack  
F doifelsefieldcategory  
F doifelsefiledefined  
F doifelsefileexist  
F doifelsefirstchar  
F doifelsefontpresent  
F doifelseinelement  
F doifelseinputfile  
F doifelseinset  
F doifelseintwopassdata  
F doifelseleapyear  
F doifselisthasentry  
F doifselisthasnumber  
F doifselisthaspage  
F doifselisthastitle  
F doifselocfile  
F doifelsemarkedpage  
F doifelsemarking  
F doifelsemessage  
F doifelseobject

F doifelseobjectreference  
F doifelseoldversion  
F doifelseoverlapping  
F doifelseparallel  
F doifelseparentfile  
F doifelsepathexist  
F doifelseposition  
F doifelsepositiononpage  
F doifelsepositionsonsamepage  
F doifelsepositionsonthispage  
F doifelsepositionsused  
F doifelserangeonpage  
F doifelserreference  
F doifelserightttoleftinbox  
F doifelsesame  
F doifelsestackedfloats  
F doifelsesynonymshown  
F doifelsesynonymused  
F doifelseurldefined  
F doifelseutfmathabove  
F doifelseutfmathaccent  
F doifelseutfmathbelow  
F doifelseutfmathfiller  
F doifelseutfmathlimop  
F doifelsevisualizer  
F doiffieldsetelse  
F doifinset  
F doifnotcommon  
F doifnotcounter  
F doifnotecontent  
F doifnoteonsamepageasprevious  
F doifnotinset  
F doifnotsame  
F doifposition  
F doifsame  
F doprocesstypescriptfile  
F doreshapeframedbox  
F dosaveposition  
F dosavepositionplus  
F dosavepositionwhd  
F dosetposition  
F dosetpositionbox  
F dosetpositionplus  
F dosetpositionstrut

F dosetpositionstrutkind	F featurelist
F dosetpositionwhd	F feedback
F dostarttextfile	F fetchallmarks
F dostoptextfile	F fetchmultipar
F elapsedtime	F fetchonemark
F enableasciimode	F fetchposboxes
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 enablefontcolor schemes	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 flushpageinjectionsbefore	F getinternallistreference
F flushpostponedblocks	F getlasttwopassdata
F flushpostponednotes	F getmarking
F flushstream	F getmathdomain
F flushstreamcopy	F getmathitalics
F fontchar	F getmessage
F fontcharbyindex	F getmpextensions
F fontcollectionclone	F getnaturaldimensions
F fontcollectiondefine	F getnaturalwd
F fontcollectionprepare	F getnotestate
F fontcollectionregister	F getobjectdimensions
F fontcollectionreport	F getobjectreference
F fontcollectionreset	F getobjectreferencepage
F fontlookupgetkey	F getprivatechar
F fontlookupgetkeyofindex	F getprivateglyphslot
F fontlookupinitialize	F getprivatemathchar
F fontlookupnoffound	F getprivateslot
F forceendjob	F getprogram
F forcequitjob	F getrandomdimen
F formatcolor	F getrandomfloat
F formatgray	F getrandomnumber
F from	F getrandomseed
F frule	F getreadfilename
F getbidimode	F getsetupstring
F getbodyfontsizes	F getsomefullstructurenumber
F getboxfromcache	F getsomestructurenumber
F getbuffer	F getspecificstructuretitle
F getbuffercontent	F getstructurelevel
F getbufferctxlua	F getstructurenumber
F getbuffermkvi	F getsubstring
F getcheckedinterfaceparameters	F gettexbuffer
F getcurrentprefixspec	F gettwopassdata
F getcurrentreferencemetadata	F gettwopassdatalist
F getdefaultfieldvalue	F geturl
F getdocumentargument	F getvisual
F getdocumentfilename	F 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 incrementcounter	F listnamespaces
F incrementedcounter	F listprefixednumber
F incrementsubcounter	F listprefixedpage
F initializeexport	F listrealpage
F initializejob	F listsize
F initializemathcollapsing	F listtitle
F initializemathdomain	F listuserdata
F initializemathitalics	F loadexamodes
F initializemathkernpairs	F loadfontgoodies
F initializestream	F loadluamodule
F initializetexdirectives	F loadmapfile
F initializetextrackers	F loadmapline
F injectcurrentreference	F loadspellchecklist
F injectcurrentreferencehtdp	F loadtypescriptfile
F injectreference	F loadvisualizer
F inlinechemical	F locatefilepath
F inputfilebarename	F locfilename
F inputfilename	F lower
F inputfilerealsuffix	F lpdf_adddocumentcolorspace
F inputfilesuffix	F lpdf_adddocumenttextgstate
F insertattachment	F lpdf_adddocumentpattern
F insertcomment	F lpdf_adddocumentshade
F insertfield	F lpdf_addtocatalog
F insertionnumber	F lpdf_addtoinfo
F insertrenderingwindow	F lpdf_addtonames
F installedlanguages	F lpdf_addtopageattributes
F installtexdirective	F lpdf_addtopageresources
F installtextracker	F lpdf_addtopagesattributes
F it	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 markpage
F leapyear	F markregionbox
F linenumbersstageone	F markregionboxcorrected
F linenumbersstagetwo	F markregionboxtagged
F listgroupindex	F markregionboxtaggedkind
F listlabel	F markvisualfonts
F listlocation	F mathfraction

F mathrenderset	F nofconversions
F message	F nofdays
F metapostescaped	F nofstackedfloats
F metapostformatted	F notedeltapage
F metapostgraphformat	F noteinternal
F minute	F notelistindex
F mixcleanup	F noteprefixednumber
F mixfinalize	F notetitle
F mixflushlist	F ntimes
F mixflushrest	F number
F mixgetsplit	F numbers
F mixsetsplit	F octnumber
F mixstate	F octstringtonumber
F molecule	F operatingsystem
F month	F ordinal
F monthmnem	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 poppath	F rawsetupstring
F poprandomseed	F rawsubcountervalue
F popreferenceprefix	F referencepagedetail
F popregime	F referencepagestate
F popsectionblock	F referencecerealpage
F postponenotes	F registerattachment
F prefixedconverted	F registerbackendsymbol
F prepareMPvariable	F registerbackground
F preparecolumnsetflush	F registerbodyfontsize
F presetmathalternate	F registerbookmark
F presetsymbollist	F registerbuttons
F presettabulate	F registercolorintent
F previouscountervalue	F registercolumnsetarea
F previoussubcountervalue	F registeredviewerlayer
F processbodyfontsizes	F registerfigurepattern
F processbuffer	F registerfiguresuffix
F processcolorcomponents	F registerfontalternative
F processedfile	F registerfontfallbackid
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 replacepospxywhd  
F reportstructure  
F resavefloat  
F resetboxesincache  
F resetcharacteralign  
F resetcolumnset  
F resetcounter  
F reseteffect  
F resetfeature  
F resetfontfeature  
F resetfontsolution  
F resetinjector  
F resetitaliccorrection  
F resetmapfiles  
F resetmarking  
F resetmathattributes  
F resetmathhang  
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 resolvedemoji  
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 setmathalternate
F setdocumentenvironments	F setmathattribute
F setdocumentfilename	F setmathdirection
F setdocumentfilenames	F setmathdomain
F setdocumentmodes	F setmathhang
F setdocumentmodules	F setmathitalics
F seteffect	F setmathpenalties
F setelementuserproperties	F setmathstyle
F setextrafontkerns	F setmpextensions
F setfieldcalculationset	F setnaturalwd
F setfigurelookuporder	F setnegative
F setfigurepaths	F setnextinternalreference
F setfirstline	F setnextreferenceorder
F setfontfeature	F setnotestate
F setfontofid	F setopendocumentaction
F setfontsolution	F setopenpageaction
F setformat	F setowncounter
F setformsmethod	F setownsubcounter
F sethsizecolumnset	F setpagecolormodel
F sethsizecolumnspan	F setpagestate
F sethyphenatedurlcharacters	F setpagestaterealpageno
F sethyphenationfeatures	F setpagetransition
F sethyphenationmethod	F setparbuilder
F setinitial	F setpdfcompression
F setinitialsectionblock	F setprofile
F setinjector	F setrandomseed
F setinnerreferencemethod	F setrealign
F setinsertionlocation	F setrealspaces
F setinterfaceconstant	F setreferencearguments
F setinterfaceelement	F setreferenceoperation
F setinterfacemessage	F setregionbox
F setinterfacemessages	F setregionboxtagged
F setinterfacevariable	F setregistermethod
F setinternalreference	F setreplacements
F setitaliccorrection	F setruby
F setjavascriptpreamble	F setscript
F setjobcomment	F setsectionblock
F setlanguageexceptions	F setsectionentry
F setlanguagesynonym	F setstructureblockstate
F setlettercatcodes	F setstructurelevel
F setmapfile	F setstructurenumber
F setmapline	F setsubcounter
F setmarking	F settagaspect
F setmathalphabet	F settagcombination

F settagconstruct	F showexperiments
F settagdelimitedsymbol	F showhyphenatedinlist
F settagfigure	F showhyphenationtrace
F settaggedmetadata	F showinjector
F settaghighlight	F showjustification
F settagitem	F showlogcategories
F settagitemgroup	F showmessage
F settaglist	F showtrackers
F settagnotation	F sin
F settagnotationsymbol	F sind
F settagproperty	F sl
F settagproperty_b	F spaceddigits
F settagproperty_n	F specifiedfont
F settagregister	F specifiedfontsize
F settagsorting	F specifiedfontspec
F settagsubsentencesymbol	F splitfilename
F settagsynonym	F spotcolorname
F settagtablecell	F spotcolorparent
F settagtabulatecell	F spotcolorvalue
F setupbookmarks	F startactualtext
F setupcanvas	F startchemical
F setupcharacterspacing	F startcolorset
F setupexport	F startcomponent
F setupfontexpansion	F startenvironment
F setupfontprotrusion	F startfontsolution
F setupidentity	F startparbuilder
F setupinsertion	F startproduct
F setupitaliccorrection	F startproject
F setuplinenumbering	F startregime
F setupsynctex	F startruby
F setuserinterface	F startsectionlevel
F setvalidinterfacekeys	F startstream
F setvisual	F starttag
F setvisualfont	F starttag_c
F setvisuallayer	F starttag_d
F setvisuals	F starttag_u
F setvsizecolumnset	F starttext
F setxmpfile	F startviewerlayer
F showassignerror	F step
F showattributes	F stopactualtext
F showcounter	F stopchemical
F showdebuginfo	F stopcolorset
F showdirectives	F stopcomponent
F showdiscretionaries	F stopenvironment

F stopfontsolution	F tagmfunctiontxt
F stopparbuilder	F tan
F stopproduct	F tand
F stopproject	F texdefinition_one
F stopregime	F texdefinition_two
F stopsectionlevel	F texttime
F stopstream	F tf
F stoptag	F thefirstcharacter
F stoptext	F themaxboxwidth
F stopviewerlayer	F theremainingcharacters
F storejavascriptcode	F tochar
F storejavascriptpreamble	F transparencycomponents
F storenote	F triggerpagebuilder
F storeregister	F truefilename
F strdp	F truefontname
F strhd	F type
F strht	F typebuffer
F strip	F typefile
F structureautocatcodedget	F typesetbuffer
F structurecatcodedget	F uchar
F structuregivencatcodedget	F uchexnumber
F structurenumber	F uchexnumbers
F structuretitle	F undefinechemical
F structureuservariable	F unicodechar
F structurevariable	F unihex
F strwd	F unit_normal
F subcountervalue	F unit_reverse
F subcountervalues	F unloadlanguage
F subsubcountervalues	F upper
F subtractfeature	F useMPLibrary
F synccolor	F useanyfile
F synccolorclone	F useanyfileonce
F synccolorcount	F usecldfilename
F synchronizemarking	F usecldfilenameonce
F synchronizestream	F usecolors
F synctexblockfilename	F usecomponent
F synctexpause	F useenvironment
F synctexresetfilename	F usefigurebase
F synctexresume	F usefile
F synctexsetfilename	F usejavascriptpreamble
F synonymmeaning	F usejavascriptscripts
F synonymname	F useluafilename
F systemlog	F useluafilenameonce
F tagmfunctionlab	F useluamodule



F usemodules	F x_table_next_row_option
F usepath	F x_table_r
F useproduct	F x_table_reflow_height
F useproject	F x_table_reflow_width
F usesubpath	F x_table_set_construct
F usesymbols	F x_table_set_reflow_height
F usetexfile	F x_table_set_reflow_width
F usetexfileonce	F xmladdindex
F useurl	F xmlaftersetup
F usexmlfile	F xmlall
F usexmlfileonce	F xmlappendsetup
F usezipfile	F xmlapplyselectors
F utfchar	F xmlatt
F utfmathclass	F xmlattdef
F utfmathcommand	F xmlattribute
F utfmathcommandabove	F xmlattributedef
F utfmathcommandbelow	F xmlbadinclusions
F utfmathcommandfiller	F xmlbeforesetup
F utfmathfiller	F xmlchainatt
F utfmathstretch	F xmlchainattdef
F vboxlisttohbox	F xmlchecknamespace
F verbose	F xmlcommand
F vspacing	F xmlconcat
F vspacingcollapse	F xmlconcatrange
F vspacingcollapseonly	F xmlcontext
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 xmldoifelsetext
F x_table_flush	F xmldoifempty
F x_table_init_construct	F xmldoifnot
F x_table_init_reflow_height	F xmldoifnotempty
F x_table_init_reflow_height_option	F xmldoifnotselfempty
F x_table_init_reflow_width	F xmldoifnottext
F x_table_init_reflow_width_option	F xmldoifselfempty
F x_table_next_row	F xmldoiftext

F xmlelement  
 F xmlfilter  
 F xmlfilterlist  
 F xmlfirst  
 F xmlflush  
 F xmlflushcontext  
 F xmlflushlinewidth  
 F xmlflushpure  
 F xmlflushsetups  
 F xmlflushspacewise  
 F xmlflushtext  
 F xmlfunction  
 F xmlgetindex  
 F xmlinclude  
 F xmlincludeoptions  
 F xmlinclusion  
 F xmlinclusionbase  
 F xmlinclusions  
 F xmlindex  
 F xmlinlineverbatim  
 F xmlinstalldirective  
 F xmllast  
 F xmllastatt  
 F xmllastmatch  
 F xmlload  
 F xmlloadbuffer  
 F xmlloaddata  
 F xmlloaddirectives  
 F xmlloadentities  
 F xmlmain  
 F xmlmatch  
 F xmlname  
 F xmlnamespace  
 F xmlnonspace  
 F xmlpath  
 F xmlpopmatch  
 F xmlpos  
 F xmlprependsetup  
 F xmlpure  
 F xmlpushmatch  
 F xmlraw  
 F xmlrawtex  
 F xmlrefatt  
 F xmlregisterns

F xmlremapname  
 F xmlremapnamespace  
 F xmlremovesetup  
 F xmlresetinjectors  
 F xmlresetsetups  
 F xmlsave  
 F xmlsetcommandtonone  
 F xmlsetcommandtotext  
 F xmlsetentity  
 F xmlsetinjectors  
 F xmlsetsetup  
 F xmlsnippet  
 F xmlstartraw  
 F xmlstarttiming  
 F xmlstopraw  
 F xmlstoptiming  
 F xmlstrip  
 F xmlstripanywhere  
 F xmlstripnolines  
 F xmlstripped  
 F xmlstrippednolines  
 F xmltag  
 F xmltexentity  
 F xmltext  
 F xmltobuffer  
 F xmltobuffertextonly  
 F xmltobufferverbose  
 F xmltofile  
 F xmltoparameters  
 F xmlverbatim  
 F xmlwithindex  
 F year

<b>setconstant</b>	function
<b>setcount</b>	function
<b>setdimen</b>	function
<b>setelement</b>	function
<b>setformat</b>	function
<b>setmacro</b>	function
<b>setmessage</b>	function
<b>setmessages</b>	function
<b>settranslation</b>	function
<b>setupstrings</b>	data table
<b>setuserinterface</b>	function
<b>setvalidkeys</b>	function

<b>setvariable</b>	function	<b>tolist</b>	function
<b>showmessage</b>	function	<b>translations</b>	data table
<b>storedscanners</b>	data table	<b>usednamespaces</b>	data table
<b>strings</b>	table	<b>variables</b>	data table
<b>syntax</b>	data table	<b>writestatus</b>	function

## io (basic lua)

<b>ask</b>	function	<b>pathseparator</b>	string
<b>bytes</b>	function	<b>popen</b>	overloaded function
<b>characters</b>	function	<b>read</b>	function
<b>close</b>	function	<b>readall</b>	function
<b>copydata</b>	function	<b>readnumber</b>	function
<b>exists</b>	function	<b>readstring</b>	function
<b>fileseparator</b>	string	<b>saved_lines</b>	function
<b>flush</b>	function	<b>savedata</b>	function
<b>input</b>	overloaded function	<b>size</b>	function
<b>lines</b>	overloaded function	<b>stderr</b>	userdata
<b>loadchunk</b>	function	<b>stdin</b>	userdata
<b>loaddata</b>	function	<b>stdout</b>	userdata
<b>loadlines</b>	function	<b>tmpfile</b>	function
<b>noflines</b>	function	<b>type</b>	function
<b>open</b>	overloaded function	<b>write</b>	function
<b>output</b>	overloaded 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>setformats</b>	function
<b>categories</b>	function	<b>setformatters</b>	function
<b>direct</b>	function	<b>setlogfile</b>	function
<b>disable</b>	function	<b>setmessenger</b>	function
<b>enable</b>	function	<b>setprocessor</b>	function
<b>exporters</b>	table	<b>setprogram</b>	function
<b>extendbanner</b>	function	<b>settarget</b>	function
<b>finalactions</b>	function	<b>settimedlog</b>	function
<b>flush</b>	function	<b>settranslations</b>	function
<b>help</b>	function	<b>show</b>	function
<b>loggingerrors</b>	function	<b>show_close</b>	function
<b>messenger</b>	function	<b>show_load</b>	function
<b>new</b>	function	<b>show_open</b>	function
<b>newline</b>	function	<b>simple</b>	function
<b>poptarget</b>	function	<b>simpleline</b>	function
<b>pushtarget</b>	function	<b>simplelines</b>	function
<b>registerfinalactions</b>	function	<b>start_page_number</b>	function
<b>report</b>	function	<b>starterrorlogging</b>	function
<b>reportbanner</b>	function	<b>startfilelogging</b>	function
<b>reporter</b>	function	<b>status</b>	function
<b>reporters</b>	table	<b>stop_page_number</b>	function
F banner		<b>stoperrorlogging</b>	function
F export		<b>stopfilelogging</b>	function
F help		<b>subdirect</b>	function
F info		<b>subreport</b>	function
F lines		<b>system</b>	function
F version		<b>texerrormessage</b>	function
<b>reportline</b>	function	<b>writer</b>	function
<b>reportlines</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>mask</b>	string
<b>bytedata</b>	data table	<b>messages</b>	data table
<b>bytdone</b>	table	<b>name</b>	table
B page-cst		<b>newtable</b>	function
<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
<b>lastbytecode</b>	number		

# luatex (context)

<b>cleanuptempfiles</b>	function	F enable
<b>currentfile</b>	function	F finish
<b>registerdumpactions</b>	function	F pause
<b>registerpageactions</b>	function	F registerdisabler
<b>registerstartactions</b>	function	F registerenabler
<b>registerstopactions</b>	function	F resetfilename
<b>registertempfile</b>	function	F resume
<b>starttime</b>	number	F setfilename
<b>synctex</b>	table	F setup
F blockfilename		F start
F collect		F stop
F disable		F wrapup

# lxml (context)

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

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

## math (basic lua)

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

# mathematics (context)

<b>addfallbacks</b>	function	<b>mapremap</b>	data table
<b>alphabets</b>	data table	<b>overloadadditions</b>	function
<b>alternatives</b>	data table	<b>overloadparameters</b>	function
<b>big</b>	function	<b>privatebase</b>	number
<b>boldmap</b>	data table	<b>registerdomain</b>	function
<b>categories</b>	table	<b>registerfallbackid</b>	function
D functions		<b>remapalphabets</b>	function
<b>charactersets</b>	data table	<b>renderings</b>	table
<b>checkaccentbaseheight</b>	function	D mappings	
<b>checkprivateparameters</b>	function	D numbers	
<b>classes</b>	data table	D sets	
<b>codes</b>	data table	<b>renderset</b>	function
<b>define</b>	function	<b>resetattributes</b>	function
<b>dimensions</b>	function	<b>resetitalics</b>	function
<b>domains</b>	table	<b>resolvefallbacks</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>setridofprime</b>	function
F add		<b>sets</b>	data table
F copy		<b>styles</b>	data table
<b>fallbacks</b>	table	<b>syncboth</b>	function
F apply		<b>syncname</b>	function
F install		<b>syncstyle</b>	function
<b>fallbackstyleattr</b>	function	<b>toname</b>	function
<b>families</b>	data table	<b>tostyle</b>	function
<b>finishfallbacks</b>	function	<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>getridofprime</b>	function	<b>utfmathcommand</b>	function
<b>getstyle</b>	function	<b>utfmathfiller</b>	function
<b>horizontalcode</b>	function	<b>utfmathstretch</b>	function
<b>initializeparameters</b>	function	<b>virtualize</b>	function
<b>makefont</b>	function	<b>virtualized</b>	data table



## 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)

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



# noads (context)

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

## node (basic tex)

<b>check_discretionaries</b>	function
<b>check_discretionary</b>	function
<b>copy</b>	function
<b>copy_list</b>	function
<b>count</b>	function
<b>current_attr</b>	function
<b>dimensions</b>	function
<b>direct</b>	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 flatten\_discretionaries
- F flush\_list
- F flush\_node
- F flush\_properties\_table
- F free
- F get\_attribute
- F get\_properties\_table
- F get\_synctex\_fields
- 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 set\_synctex\_fields
- F setattributelist
- F setboth

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

<b>next</b>	function	<b>tail</b>	function
<b>prev</b>	function	<b>tostring</b>	function
<b>protect_glyph</b>	function	<b>traverse</b>	function
<b>protect_glyphs</b>	function	<b>traverse_char</b>	function
<b>protrusion_skippable</b>	function	<b>traverse_id</b>	function
<b>rangedimensions</b>	function	<b>type</b>	function
<b>remove</b>	function	<b>types</b>	function
<b>set_attribute</b>	function	<b>unprotect_glyph</b>	function
<b>set_properties_mode</b>	function	<b>unprotect_glyphs</b>	function
<b>setfield</b>	function	<b>unset_attribute</b>	function
<b>setglue</b>	function	<b>usedlist</b>	function
<b>setproperty</b>	function	<b>uses_font</b>	function
<b>setwhd</b>	function	<b>vpack</b>	function
<b>slide</b>	function	<b>whatsits</b>	function
<b>subtype</b>	function	<b>write</b>	function
<b>subtypes</b>	function		

## nodes (context)

<b>accentcodes</b>	data table	<b>fencecodes</b>	data table
<b>aligned</b>	function	<b>fields</b>	function
<b>append</b>	function	<b>fillcodes</b>	data table
<b>apply</b>	function	<b>find_attribute</b>	function
<b>applyvisuals</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>getattr</b>	function
<b>builders</b>	table	<b>getattribute</b>	function
F buildpage_filter		<b>getbox</b>	function
F vpack_filter		<b>getchar</b>	function
<b>check_discretionaries</b>	function	<b>getdisc</b>	function
<b>codes</b>	data table	<b>getfield</b>	function
<b>concat</b>	function	<b>getfont</b>	function
<b>copy</b>	function	<b>getglue</b>	function
<b>copy_list</b>	function	<b>getid</b>	function
<b>copy_node</b>	function	<b>getleader</b>	function
<b>count</b>	function	<b>getlist</b>	function
<b>countall</b>	function	<b>getnext</b>	function
<b>current_attr</b>	function	<b>getprev</b>	function
<b>delete</b>	function	<b>getsubtype</b>	function
<b>destinations</b>	table	<b>getwhd</b>	function
N attribute		<b>gluecodes</b>	data table
T done		<b>glyphcodes</b>	data table
F handler		<b>glyphdir_is_equal</b>	data table
T stack		<b>glyphdir_is_opposite</b>	data table
<b>dimensionfields</b>	data table	<b>glyphdir_is_orthogonal</b>	data table
<b>dimensions</b>	function	<b>handlers</b>	table
<b>dir_is_pop</b>	data table	F accessibility	
<b>dir_negation</b>	data table	F alignbackgrounds	
<b>disccodes</b>	data table	F backgrounds	
<b>discretionarycodes</b>	data table	F characters	
<b>effective_glue</b>	function	F checkforleaks	
<b>end_of_math</b>	function	F checkglyphs	

F cleanupbox		<b>is_node</b>	function
F cleanuppage		<b>is_nut</b>	function
F export		<b>is_rotated</b>	data table
F finalize		<b>is_zero_glue</b>	function
F flatten		<b>ischar</b>	function
F flattenline		<b>isglyph</b>	function
F migrate		<b>kerncodes</b>	data table
F protectglyphs		<b>kerning</b>	function
F stripping		<b>keys</b>	table
F textbackgrounds		T whatsit	
F unprotectglyphs		<b>last_node</b>	function
<b>has_attribute</b>	function	<b>leadercodes</b>	data table
<b>has_field</b>	function	<b>leftmarginwidth</b>	function
<b>has_glyph</b>	function	<b>length</b>	function
<b>hpack</b>	function	<b>ligaturing</b>	function
<b>idstousing</b>	function	<b>linefillers</b>	table
<b>ignorablefields</b>	data table	D data	
<b>injections</b>	table	F define	
F copy		F enable	
F getligaindex		F handler	
F getthreshold		<b>lines</b>	table
F handler		T boxed	
F installgetspaceboth		F register	
F installnewkern		F setup	
F isspace		F stage_one	
F keepcounts		F stage_two	
F reset		D data	
F resetcounts		F finalize	
F setcursive		F number	
F setkern		N scratchbox	
F setligaindex		<b>link</b>	function
F setmark		<b>linked</b>	function
F setmove		<b>list</b>	function
F setposition		<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

**mlist\_to\_hlist**

**new**

**noadcodes**

**noadoptions**

N axis

N exact

N left

N middle

N no\_axis

N right

N set

N unused\_1

N unused\_2

**nodecodes**

**nopts**

**nuts**

F append

F apply

F applyvisuals

F check\_discretionaries

F concat

F copy

F copy\_list

F copy\_no\_components

F copy\_node

F copy\_only\_glyphs

F copy\_properties

F copyvisual

F count

F count\_components

F countall

F current\_attr

F delete

F dimensions

F effective\_glue

F end\_of\_math

F find\_attribute

F first\_glyph

F firstcharacter

F firstcharinbox

F firstglyph

F flush

F flush\_list

F flush\_node

function

function

data table

table

data table

function

table

F free

F fullhpack

F get\_components

F get\_synctex\_fields

F getattr

F getattribute

F getattributelist

F getattrlist

F getboth

F getbox

F getboxglue

F getchar

F getcomponents

F getdepth

F getdir

F getdisc

F getdiscretionary

F getfield

F getfont

F getglue

F getheight

F getid

F getkern

F getlang

F getlanguage

F getleader

F getlist

F getnext

F getnucleus

F getoffsets

F getpenalty

F getprev

F getprop

F getshift

F getsub

F getsubtype

F getsup

F getsurround

F getwhd

F getwidth

F has\_attribute

F has\_field

F has\_glyph

F hpack

F insert_after	F leader
F insert_before	F leftmarginkern
F insert_list_after	F leftskip
F is_char	F lineskip
F is_direct	F mathchar
F is_display_math	F mathtextchar
F is_glyph	F negatedglue
F is_node	F noad
F is_nut	F pdfannotation
F is_zero_glue	F pdfdestination
F ischar	F pdfdirectliteral
F isglyph	F pdfliteral
F kerning	F pdforiginliteral
F last_node	F pdfpageliteral
F leftmarginwidth	F pdfrawliteral
F length	F pdfrestore
F ligaturing	F pdfsave
F link	F pdfsetmatrix
F linked	F penalty
F locate	F radical
F mlist_to_hlist	F register
F nestedtracedslide	F rightmarginkern
F new	F rightskip
T pool	F rule
F accent	F shrink
F baselineskip	F special
F boundary	F stretch
F choice	F subbox
F cleanup	F sublist
F delim	F temp
F delimiter	F textdir
F disc	F usage
F emptyrule	F userattributes
F fence	T usersids
F fontkern	N margins.inline
F fraction	N property
F glue	N splitters.one
F gluespec	N splitters.two
F glyph	F userlist
F hlist	F userlua
F italicckern	F usernumber
F kern	F userrule
F latelua	F userstring
F lateluafunction	F usertokens



F vlist	F setnucleus
F wordboundary	F setoffsets
F prepend	F setpenalty
F protect_glyph	F setprev
F protect_glyphs	F setprop
F protrusion_skippable	F setshift
F rangedimensions	F setsplit
F rawprop	F setsub
F reference	F setsubtype
F rehpick	F setup
F remove	F setsurround
F repackhlist	F setunsetattributes
F replace	F setvisual
F rightmarginwidth	F setvisuals
T rules	F setwhd
F userrule	F setwidth
F set_attribute	F slide
F set_components	F somepenalty
F set_synctex_fields	F somespace
F setattr	F splitbox
F setattrattribute	F tail
F setattrattributelist	F take_components
F setattrattributes	F takeattr
F setattrlist	F takebox
F setboth	F takelist
F setbox	F theprop
F setboxglue	F tonode
F setchar	F tonodes
F setcomponents	F tonut
F setdepth	F tosequence
F setdir	F toString
F setdisc	F tracedslide
F setdiscretionary	F traverse
F setfield	F traverse_char
F setfont	F traverse_id
F setglue	T typesetters
F setheight	F tohbox
F setkern	F tohpack
F setlang	F tonodes
F setlanguage	F to vbox
F setleader	F tovpack
F setlink	F unprotect_glyph
F setlist	F unprotect_glyphs
F setnext	F unset_attribute

F unsetattribute		F rule	
F unsetattributes		F special	
F untracedslide		F usage	
F use_components		F usernumber	
F usedlist		F vlist	
F uses_font		<b>prepend</b>	function
F vianodes		<b>print</b>	function
F vianuts		<b>processors</b>	table
F vpack		F contribute_filter	
F write		B enabled	
<b>packlist</b>	function	F hpack_filter	
<b>pardir_is_equal</b>	data table	F post_linebreak_filter	
<b>pardir_is_opposite</b>	data table	F pre_linebreak_filter	
<b>pardir_is_parallel</b>	data table	F tracer	
<b>partextdir_is_equal</b>	data table	<b>processranges</b>	function
<b>penaltycodes</b>	data table	<b>processwords</b>	function
<b>plugindata</b>	table	<b>properties</b>	table
F finalizer		T actions	
F initializer		F delayed	
S name		F fdelayed	
T namespace		F immediate	
N attribute		F attach	
D data		T data	
F enable		F delayed	
F handler		<b>protect_glyph</b>	function
F register		<b>protect_glyphs</b>	function
D registered		<b>protrusion_skippable</b>	function
D values		<b>pts</b>	function
F processor		<b>radicalcodes</b>	data table
<b>points</b>	function	<b>rangedimensions</b>	function
<b>pool</b>	table	<b>reference</b>	function
F baselineskip		<b>references</b>	table
F cleanup		N attribute	
F glyph		T done	
F hlist		F handler	
F kern		T stack	
F latelua		<b>reheapack</b>	function
F lineskip		<b>remove</b>	function
F pdfdirectliteral		<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

D data		F resetsamples	
F define		F takesample	
F enable		<b>somepenalty</b>	function
F handler		<b>spacespace</b>	function
T ruleactions		<b>splitbox</b>	function
F box		<b>stripdiscretionaries</b>	function
F draw		<b>stripping</b>	table
F fill		T glyphs	
F mp		F set	
F stroke		<b>striprange</b>	function
F userrule		<b>tail</b>	function
<b>save</b>	function	<b>takeattr</b>	function
<b>serialize</b>	function	<b>takebox</b>	function
<b>serializebox</b>	function	<b>tasks</b>	table
<b>set_attribute</b>	function	F actions	
<b>setattr</b>	function	F appendaction	
<b>setattribute</b>	function	F disableaction	
<b>setattributes</b>	function	F disablegroup	
<b>setboth</b>	function	F enableaction	
<b>setbox</b>	function	F enablegroup	
<b>setboxtonaturalwd</b>	function	F freeze	
<b>setfield</b>	function	F freezegroup	
<b>setglue</b>	function	F new	
<b>setlink</b>	function	F prependaction	
<b>setlist</b>	function	F removeaction	
<b>setnext</b>	function	F replaceaction	
<b>setprev</b>	function	F restart	
<b>setunsetattributes</b>	function	F setaction	
<b>setwhd</b>	function	F showactions	
<b>shifts</b>	table	F table	
D data		<b>texmdir_is_equal</b>	data table
F define		<b>texmdir_is_is</b>	data table
F enable		<b>texmdir_is_opposite</b>	data table
F handler		<b>texmdir_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

<b>tonodes</b>	function	F reset	
<b>tonut</b>	function	F start	
<b>topics</b>	function	F stop	
<b>topoints</b>	function	F stop	
<b>toscaledpoints</b>	function	T transparencies	
<b>tosequence</b>	function	F reset	
<b>tostring</b>	function	F set	
<b>totable</b>	function	F setlist	
<b>totree</b>	function	<b>traverse</b>	function
<b>toutf</b>	function	<b>traverse_char</b>	function
<b>tracers</b>	table	<b>traverse_id</b>	function
		<b>typesetters</b>	table
T characters		F hbox	
F collect		F hpack	
F equal		F tohbox	
F start		F tohpack	
F string		F tonodes	
F unicodes		F tovbox	
T colors		F tovpack	
F reset		F vpack	
F set		<b>unprotect_glyph</b>	function
F setlist		<b>unprotect_glyphs</b>	function
F fontchar		<b>unset_attribute</b>	function
T frequencies		<b>unsetattribute</b>	function
F register		<b>unsetattributes</b>	function
T pool		<b>usedlist</b>	function
T nodes		<b>usercodes</b>	data table
F rule		<b>vianodes</b>	function
T nuts		<b>vianuts</b>	function
F rule		<b>visualizebox</b>	function
F resetproperties		<b>visualizers</b>	table
F rule		F attribute	
F setlist		T attributes	
F setproperties		F box	
F start		F handler	
T steppers		F markfonts	
F check		F setfont	
F codes		F setlayer	
F features		F setruledglyph	
F font		F setvisual	
F glyphs		<b>vpack</b>	function
F message		<b>whatcodes</b>	data table
F messages		<b>whatsitcodes</b>	data table
F nofsteps		<b>write</b>	function
F register			

## number (context)

	function
<b>basepoints</b>	function
<b>bit</b>	function
<b>bits</b>	function
<b>bytetodecimal</b>	function
<b>clearbit</b>	function
<b>compactfloat</b>	function
<b>decimaltobyte</b>	function
<b>dimenfactors</b>	data table
<b>formatted</b>	function
<b>formattedfloat</b>	function
<b>hasbit</b>	function
<b>maxdimen</b>	number
<b>nopts</b>	function
<b>percent</b>	function
<b>points</b>	function
<b>pts</b>	function
<b>setbit</b>	function
<b>signed</b>	function
<b>sparseexponent</b>	function
<b>splitdimen</b>	function

<b>tobasepoints</b>	function
<b>tobitstring</b>	function
<b>tocentimeters</b>	function
<b>toxiceros</b>	function
<b>tocontext</b>	function
<b>todidots</b>	function
<b>todimen</b>	function
<b>toevenhex</b>	function
<b>toinches</b>	function
<b>tomillimeters</b>	function
<b>tonewciceros</b>	function
<b>tonewdidots</b>	function
<b>tonumberf</b>	function
<b>tonumberg</b>	function
<b>topicas</b>	function
<b>topoints</b>	function
<b>toscaled</b>	function
<b>toscaledpoints</b>	function
<b>toset</b>	function
<b>valid</b>	function

## objects (context)

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

## os (basic lua)

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

## package (basic lua)

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



# pagebuilders (context)

## columnsets      table

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

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

## injections      table

- F flushafter
- F flushbefore
- F save

## mixedcolumns      table

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

## pdf (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>getcatalo<b>g</b></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>setcatalo<b>g</b></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 nofregistered		<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 short		N nofdatasets	
F tag		N nofdefinitions	
<b>load</b>	function	N nofshortcuts	
<b>loadbibdata</b>	function	<b>tables</b>	table
<b>loaddefinitionfile</b>	function	D implicits	
<b>loaders</b>	table	D origins	
F bbl		D privates	
F bib		D sets	
F buffer		D specials	
F endnote		D types	
F json		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>findpath</b>	function
<b>appendhash</b>	function	<b>findtexfile</b>	function
<b>automount</b>	function	<b>findwildcardfile</b>	function
<b>automounted</b>	table	<b>findwildcardfiles</b>	function
<b>booleanvariable</b>	function	<b>formatofsuffix</b>	function
<b>cacheversion</b>	string	<b>formatofvariable</b>	function
<b>checkedvariable</b>	function	<b>formats</b>	data table
<b>cleanedpathlist</b>	function	<b>foundintree</b>	function
<b>cleanpath</b>	function	<b>foundintrees</b>	function
<b>cleanpathlist</b>	function	<b>generators</b>	data table
<b>concatinators</b>	data table	<b>get_from_content</b>	function
<b>configbanner</b>	string	<b>getenv</b>	function
<b>configurationfiles</b>	function	<b>getextrapaths</b>	function
<b>criticalvars</b>	data table	<b>getfilehashes</b>	function
<b>dangerous</b>	data table	<b>gethashes</b>	function
<b>datastate</b>	function	<b>getownpath</b>	function
<b>defaultsuffixes</b>	table	<b>getreadfilename</b>	function
<b>dowithfilesandreport</b>	function	<b>hashers</b>	data table
<b>dowithfilesintree</b>	function	<b>homedir</b>	string
<b>dowithpath</b>	function	<b>initialized</b>	function
<b>dowithvariable</b>	function	<b>inputstack</b>	table
<b>env</b>	function	<b>installinputfilehandler</b>	function
<b>executers</b>	table	<b>installinputlinehandler</b>	function
<b>expandbraces</b>	function	<b>jobpath</b>	function
<b>expandedpathfromlist</b>	function	<b>jobs</b>	table
<b>expandedpathlist</b>	function	F currentcomponent	
<b>expandedpathlistfromvariable</b>	function	F currentenvironment	
<b>expandpath</b>	function	F currentproduct	
<b>expandpathfromvariable</b>	function	F currentproject	
<b>expansion</b>	function	F justacomponent	
<b>extendtexmfvariable</b>	function	D processors	
<b>filtered_from_content</b>	function	F productcomponent	
<b>find_file</b>	function	F usefile	
<b>find_files</b>	function	<b>joinpath</b>	function
<b>findbinfile</b>	function	<b>knownvariables</b>	function
<b>findctxfile</b>	function	<b>load</b>	function
<b>finders</b>	data table	<b>loadbinfile</b>	function
<b>findfile</b>	function	<b>loaders</b>	data table
<b>findfiles</b>	function	<b>loadlua lib</b>	function
<b>findgivenfile</b>	function	<b>loadtexfile</b>	function
<b>findgivenfiles</b>	function	<b>loadtime</b>	function

<b>locateformat</b>	function	<b>savers</b>	data table
<b>locators</b>	data table	<b>scandata</b>	function
<b>luacnffallback</b>	string	<b>scanfiles</b>	function
<b>luacnfname</b>	string	<b>schemes</b>	table
<b>luacnfspec</b>	string	T cleaners	
<b>luacnfstate</b>	string	F md5	
<b>macros</b>	table	F none	
F convertfile		F strip	
F decodecomment		F cleanname	
F enablecomment		F fetchstring	
F encodecomment		F fetchtable	
F preprocessed		F install	
F processmk		<b>setdynamic</b>	function
F processmkvi		<b>setenv</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>openbinfile</b>	function	<b>splitconfigurationpath</b>	function
<b>openers</b>	data table	<b>splitexpansions</b>	function
<b>openfile</b>	function	<b>splitmethod</b>	function
<b>opentexfile</b>	function	<b>splitpath</b>	function
<b>ownpath</b>	string	<b>stackpath</b>	function
<b>popextrapath</b>	function	<b>starttiming</b>	function
<b>poppath</b>	function	<b>stoptiming</b>	function
<b>prefixes</b>	data table	<b>suffixes</b>	data table
<b>prependhash</b>	function	<b>suffixmap</b>	data table
<b>pushextrapath</b>	function	<b>suffixofformat</b>	function
<b>pushpath</b>	function	<b>texdatablob</b>	function
<b>registerextrapath</b>	function	<b>toppath</b>	function
<b>registerfile</b>	function	<b>unexpandedpath</b>	function
<b>registerfilehash</b>	function	<b>unexpandedpathlist</b>	function
<b>registerintrees</b>	function	<b>unresolve</b>	function
<b>registermethod</b>	function	<b>updaterelations</b>	function
<b>registerzipfile</b>	function	<b>updatescript</b>	function
<b>relations</b>	data table	<b>uselibrary</b>	function
<b>renew</b>	function	<b>usertypes</b>	data table
<b>renewcache</b>	function	<b>usezipfile</b>	function
<b>repath</b>	function	<b>validatedpath</b>	function
<b>reset</b>	function	<b>variable</b>	function
<b>resetextrapaths</b>	function	<b>variableofformat</b>	function
<b>resetmemstream</b>	function	<b>variableofformatorsuffix</b>	function
<b>resetresolve</b>	function	<b>wildcardpattern</b>	function
<b>resolve</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

## sio (context)

<b>read2dot14</b>	function
<b>readbytes</b>	function
<b>readbytetable</b>	function
<b>readcardinal1</b>	function
<b>readcardinal2</b>	function
<b>readcardinal3</b>	function
<b>readcardinal4</b>	function

<b>readfixed2</b>	function
<b>readfixed4</b>	function
<b>readinteger1</b>	function
<b>readinteger2</b>	function
<b>readinteger3</b>	function
<b>readinteger4</b>	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>resettiming</b>	function
<b>elapsed</b>	function	<b>runtime</b>	function
<b>elapsedindeed</b>	function	<b>savefmtstatus</b>	function
<b>elapsedseconds</b>	function	<b>show</b>	function
<b>elapsedtime</b>	function	<b>starttiming</b>	function
<b>enable</b>	boolean	<b>stoptiming</b>	function
<b>formatruntime</b>	function	<b>threshold</b>	number
<b>hastiming</b>	function	<b>timed</b>	function
<b>memused</b>	function	<b>tracefunction</b>	function
<b>register</b>	function		

## status (basic tex)

**list**                   function

**resetmessages**   function

**setexitcode**       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

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

## references

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

## table

## table

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

## table

- F get
- F prepare
- F process
- F setmethod
- F sort
- F store
- D tobesaved
- 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

F setchecker		F elementtag
F setentry		F finishexport
F setinitialblock		F getid
F setlevel		F getmetadata
F setnumber		F handler
F structuredata		F initializeexport
F title		D labels
D tobesaved		F last
F typesetnumber		F lastinchain
F userdata		F locatedtag
B verbose		T patterns
<b>sets</b>	table	U splitter
F define		D properties
F get		F registermetadata
F getall		F restart
D setlist		F setaspect
<b>specials</b>	table	F setattributefield
D collected		F setcombination
F retrieve		F setconstruct
F store		F setfigure
D tobesaved		F sethighlight
<b>synonyms</b>	table	F setitem
F analyzed		F setitemgroup
D collected		F setlist
F compare		F setnotation
F define		F setnotationsymbol
F filter		F setproperty
F finalize		F setregister
F flush		F setsorting
F isshown		F setsynonym
F isused		F settablecell
F meaning		F settablecell
F prepare		F settagdelimitedsymbol
F process		F settagssubsentencesymbol
F register		F setupexport
F registershown		F setuserproperties
F registerused		D specifications
F resetshown		F start
F resetused		F stop
F sort		F strip
F synonym		D taglist
D tobesaved		T usewithcare
<b>tags</b>	table	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>getmuglue</b>	function
<b>badness</b>	function	<b>getmuskip</b>	function
<b>box</b>	table	<b>getnest</b>	function
<b>catcode</b>	table	<b>getsfcode</b>	function
<b>conditionals</b>	data table	<b>getskip</b>	function
<b>constants</b>	data table	<b>gettoks</b>	function
<b>count</b>	table	<b>getuccode</b>	function
<b>cprint</b>	function	<b>glue</b>	table
<b>ctdcatcodes</b>	number	<b>hashtokens</b>	function
<b>ctxcatcodes</b>	number	<b>ifs</b>	data table
<b>definefont</b>	function	<b>inimatcodes</b>	number
<b>delcode</b>	table	<b>init_rand</b>	function
<b>dimen</b>	table	<b>isattribute</b>	function
<b>directives</b>	data table	<b>isbox</b>	function
<b>enableprimitives</b>	function	<b>iscount</b>	overloaded function
<b>error</b>	function	<b>isdefined</b>	function
<b>extraprimitives</b>	function	<b>isdimen</b>	overloaded function
<b>finish</b>	function	<b>ismuskip</b>	overloaded function
<b>fontidentifier</b>	function	<b>isskip</b>	overloaded function
<b>fontname</b>	function	<b>istoken</b>	function
<b>force_synctex_line</b>	function	<b>istoks</b>	function
<b>force_synctex_tag</b>	function	<b>lccode</b>	table
<b>fprint</b>	function	<b>linebreak</b>	function
<b>get</b>	function	<b>lists</b>	table
<b>get_synctex_line</b>	function	<b>lua_math_random</b>	function
<b>get_synctex_mode</b>	function	<b>lua_math_randomseed</b>	function
<b>get_synctex_tag</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>round</b>	function	<b>setuccode</b>	function
<b>run</b>	function	<b>sfcode</b>	table
<b>saveboxresource</b>	function	<b>shipout</b>	function
<b>scale</b>	function	<b>show_context</b>	function
<b>scantoks</b>	function	<b>skip</b>	table
<b>set</b>	function	<b>sp</b>	function
<b>set_synctex_line</b>	function	<b>splitbox</b>	function
<b>set_synctex_mode</b>	function	<b>sprint</b>	function
<b>set_synctex_tag</b>	function	<b>systemmodes</b>	data table
<b>setattribute</b>	function	<b>takebox</b>	function
<b>setbox</b>	function	<b>texcatcodes</b>	number
<b>setcatcode</b>	function	<b>toks</b>	table
<b>setcount</b>	function	<b>tpacatcodes</b>	number
<b>setdelcode</b>	function	<b>tpbcacodes</b>	number
<b>setdimen</b>	function	<b>tprint</b>	function
<b>setglue</b>	function	<b>trackers</b>	data table
<b>setlcode</b>	function	<b>triggerbuildpage</b>	function
<b>setlist</b>	function	<b>txtcatcodes</b>	number
<b>setmath</b>	function	<b>type</b>	function
<b>setmathcode</b>	function	<b>uccode</b>	table
<b>setmuglue</b>	function	<b>uniform_rand</b>	function
<b>setmuskip</b>	function	<b>uniformdeviate</b>	function
<b>setnest</b>	function	<b>uprint</b>	function
<b>setsfcode</b>	function	<b>useboxresource</b>	function
<b>setskip</b>	function	<b>vrbcacodes</b>	number
<b>settoks</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)

## alignments table

- F handler
- F set

## breakpoints table

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

## cases table

- T actions
- F handler
- F register
- F set

## characteralign table

- F handler
- F resetcharacteralign
- F setcharacteralign

## characters table

- F handler
- T methods
- F replacenbsp
- F replacenbspaces

## checkers table

- F handler
- F reset
- F set

## cleaners table

- F handler
- F set

## digits table

- T actions
- F handler
- F set

## directions table

- F getfences
- F getglobal
- F getmethod
- F handler

- T handlers
- F installhandler
- F processmath
- F set
- F setcolor
- F setmath
- F tomode

## firstlines table

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

## fontkerns table

- F handler

## initials table

- T actions
- F default
- F addanchortoline
- F addtoline
- F calculatedelta
- F checkline
- F handler
- F moveinline
- F normalize
- F set

## injectors table

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

## italics 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 checkmemory
- 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	B latin-modern-light-designsize
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
	T modern-variable,latin-modern-variable-designsize,latin-modern-light
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	B paper
T modern,latin-modern,modern-variable,latin-modern-variable,modern-condensed,latin-modern-condensed	B rightpage
B latin-modern	B text
B latin-modern-condensed	F iterator
B latin-modern-variable	F keq_to_hash
B modern	F listitem
B modern-condensed	F make_settings_to_hash_pattern
B modern-variable	F mergehashes
T modern,latin-modern-designsize,latin-modern	F options_to_array
B latin-modern	F options_to_hash
B latin-modern-designsize	T patterns
B modern	U settings_to_array
T modern,modern-base	U settings_to_hash_a
B modern	U settings_to_hash_b
B modern-base	U settings_to_hash_c
T modern-condensed,latin-modern-condensed-designsize,latin-modern-condensed,latin-modern-light-condensed,latin-modern-light-designsize	U unittotex
B latin-modern-condensed	F process_stripped_settings
B latin-modern-condensed-designsize	F rfc4180splitter
B latin-modern-light-condensed	F runtime
B modern-condensed	F settings_to_array
B modern-light-condensed	F settings_to_array_obey_fences
T modern-light,latin-modern-light-designsize,latin-modern-light	
B latin-modern-light	

- F settings\_to\_array\_with\_repeat
- F settings\_to\_hash
- F settings\_to\_hash\_strict
- F settings\_to\_hash\_tolerant
- F settings\_to\_numbers
- F settings\_to\_set
- F simple\_hash\_to\_string
- F splitmethod
- F splitthousands
- F stepper
- F stripped\_settings\_to\_array
- F unittotex
- F unittoxml

## randomizer table

- F get
- F getnumber
- F getseed
- F popseed
- F pushseed
- F reuseseed
- F setseed
- F setseedi

## report function

## sequencers table

- F appendaction
- F appendgroup
- F compile
- F disableaction
- F disablegroup
- F enableaction
- F enablegroup
- D functions
- F localize
- F new
- F nodeprocessor
- F prependaction
- F prependgroup
- F removeaction
- F replaceaction
- F setkind
- F tostring

## setters table

- F disable
- F enable

- F initialize
- F list
- F new
- F register
- F report
- F reset
- F show

## stacker table

- F new

## storage table

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

## streams table

- F close
- F getposition
- F look
- F open
- F read2dot14
- F read2dot4
- F readbyte
- F readbytes
- F readbytetable
- F readcardinal
- F readcardinal1
- F readcardinal2
- F readcardinal2LE
- F readcardinal3
- F readcardinal3le
- F readcardinal4
- F readchar
- F readfixed2
- F readfixed4
- F readinteger
- F readinteger1
- F readinteger2
- F readinteger2le
- F readinteger3
- F readinteger3le
- F readinteger4
- F readinteger4le

F readsignedbyte	U retain and collapse
F readstring	U retain and no empty
F setposition	F striplines
F size	F striplong
F skip	F tabtospace
F skipbytes	T tracers
F skiplong	<b>tables</b> table
F skipshort	F accesstable
<b>strings</b> table	F definedtable
F collapsecrlf	F definetable
T formatters	F encapsulate
F add	F insertaftervalue
F new	F insertbeforevalue
F newcollector	F migratetable
F newrepeater	F removevalue
F nice	F replacevalue
T striplinepatterns	<b>templates</b> table
U collapse	F load
U prune	F replace
U prune and collapse	F replacer
U prune and no empty	F resolve
U retain	



## 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>serializetotext</b>	function
<b>nodesettostring</b>	function	<b>setcdata</b>	function
<b>originalload</b>	function	<b>setcomment</b>	function
<b>package</b>	function	<b>sethandlersfunction</b>	function
<b>parent</b>	function	<b>setinjectors</b>	function
<b>parsedentitylpeg</b>	userdata	<b>setproperty</b>	function
<b>pihandlers</b>	table	<b>settings</b>	function
F injector		<b>specialcodes</b>	table
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	S ~	
<b>profiled</b>	table	<b>specialhandler</b>	table
<b>pushmatch</b>	function	<b>sprint</b>	function
<b>raw</b>	function	<b>string</b>	function
<b>registerentity</b>	function	<b>strip</b>	function
<b>registers</b>	function	<b>strip_whitespace</b>	function
<b>reindex</b>	function	<b>stripelement</b>	function
<b>remap_name</b>	function	<b>stripleadingspaces</b>	function
<b>remap_namespace</b>	function	<b>table</b>	function
<b>remap_tag</b>	function	<b>text</b>	function
<b>remapname</b>	function	<b>textonly</b>	function
<b>remapnamespace</b>	function	<b>texttocdata</b>	function
<b>remaptag</b>	function	<b>tocdata</b>	function
<b>renamespace</b>	function	<b>toelement</b>	function
<b>reparsedentitylpeg</b>	userdata	<b>tostring</b>	function

<b>totable</b>	function	<b>unprivatized</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

## zip (extra lua)

<b>archives</b>	table	<b>openarchive</b>	function
<b>close</b>	function	<b>openfile</b>	function
<b>closearchive</b>	function	<b>registeredfiles</b>	table
<b>open</b>	overloaded function	<b>type</b>	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