

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

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

# global (alias: \_G)

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

lxml	table	resolvers	table
math	table	sandbox	table
mathematics	table	scripts	table
mbox	table	select	function
md5	table	set	table
metapost	table	setfenv	function
mime	table	setinspector	function
module	function	setmetatable	function
moduledata	table	socket	table
modules	table	sorters	table
mp	function	statistics	table
mplib	table	status	table
newproxy	function	storage	table
next	function	streams	table
noads	table	string	table
node	table	structures	table
nodes	table	swiglib	function
number	table	table	table
objects	table	tex	table
optionalrequire	function	texconfig	table
os	table	texio	table
package	table	thirddata	table
pagebuilders	table	toboolean	function
pairs	function	tokens	table
parametersets	table	tonumber	function
pcall	function	tostring	function
pdf	table	tracers	table
pdfboolean	function	trackers	table
pdfnull	function	type	function
pdfreference	function	typesetters	table
pdfscanner	table	unicode	table
pdfverbose	function	unpack	function
physics	table	url	table
print	function	userdata	table
profiler	table	utf	table
publications	table	utilities	table
rawequal	function	vf	table
rawget	function	visualizers	table
rawlen	function	xml	table
rawset	function	xpcall	function
regimes	table	zip	table
require	function	zlib	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 hsvtorgay
- F hsvtorgb
- F iccprofile
- F isblack
- N main
- S model

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

define

effects

function

table

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

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

# backends (context)

## **codeinjections** table

F boxresourcedimensions  
F registerboxresource  
F restoreboxresource

## **current** string

## **defaults** table

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

## **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 stoplayer  
F stopunicodetoactualtext  
F supportedformats  
F unicodetoactualtext  
F useviewerlayer  
F validfield  
F validfieldcategory  
F validfieldset  
S comment  
T nodeinjections  
F addtags  
F annotation

F attachfile	F startstackedlayer	
F changestackedlayer	F stoplayer	
F cmykcolor	F stopstackedlayer	
F comment	F transparency	
F destination	F typesetfield	
F effect	T registrations	
F graycolor	F cmykindexcolor	
F injectbitmap	F cmykspotcolor	
F insertmovie	F getspotcolorreference	
F insertsound	F grayindexcolor	
F insertswf	F grayspotcolor	
F insertu3d	F rgbindexcolor	
F knockout	F rgbspotcolor	
F negative	F spotcolorname	
F overprint	F transparency	
F positive	T tables	
F reference	D vfspecials	
F rgbcolor	<b>registrations</b>	table
F spotcolor	<b>tables</b>	table
F startlayer		

## bit (context)

<b>arshift</b>	function
<b>band</b>	function
<b>bnot</b>	function
<b>bor</b>	function
<b>bswap</b>	function
<b>bxor</b>	function

<b>lshift</b>	function
<b>rol</b>	function
<b>ror</b>	function
<b>rshift</b>	function
<b>tobit</b>	function
<b>tohex</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	F define	
<b>assign</b>	function	F hassomecontent	
<b>collectcontent</b>	function	F next	
<b>erase</b>	function	F place	
<b>exists</b>	function	F reset	
<b>getcontent</b>	function	F save	
<b>getlines</b>	function		
<b>loadcontent</b>	function	<b>prepend</b>	function
<b>parallel</b>	table	<b>raw</b>	function
		<b>undent</b>	function

# builders (context)

## kernel table

- F hyphenation
- F kerning
- F ligaturing
- F mlist\_to\_hlist
- T originals
  - F hyphenate
  - F kerning
  - F ligaturing

## paragraphs table

- T constructors
  - N attribute
  - F define
  - F disable
  - F enable
  - F handler
- T methods
  - F basic
  - F default
  - F hpack
  - F oneline
- D names
- D numbers
- F set
- F start
- F stop
- T expansion
  - F trace
- F kepttogether
- F registertogether
- T solutions
  - T splitters
    - F define
    - F optimize

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

## profiling table

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

## vspacing table

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

## cache (context)

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

## callback (basic tex)

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

**register** overloaded function

## callbacks (context)

<b>freeze</b>	function
<b>known</b>	function
<b>list</b>	data table
<b>pop</b>	function

<b>push</b>	function
<b>register</b>	function
<b>report</b>	function



## catcodes (context)

**names** data table

**numbers** data table

**register** function

# characters (context)

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

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

## 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>isleapyear</b>	function
<b>A:es</b>	function	<b>lchexnumber</b>	function
<b>AK</b>	function	<b>lchexnumbers</b>	function
<b>Alphabetic</b>	function	<b>leapyear</b>	function
<b>Alphabetic:es</b>	function	<b>lower</b>	function
<b>Character</b>	function	<b>max</b>	function
<b>Characters</b>	function	<b>maxchrs</b>	function
<b>I</b>	function	<b>minute</b>	function
<b>KA</b>	function	<b>month</b>	function
<b>KR</b>	function	<b>nicenumber</b>	function
<b>R</b>	function	<b>nofdays</b>	function
<b>RK</b>	function	<b>number</b>	function
<b>Romannumerals</b>	function	<b>numbers</b>	function
<b>Sloviannumerals</b>	function	<b>octnumber</b>	function
<b>Spanishnumerals</b>	function	<b>octstringtonumber</b>	function
<b>Word</b>	function	<b>ordinal</b>	function
<b>Words</b>	function	<b>r</b>	function
<b>a</b>	function	<b>rawcharacter</b>	function
<b>a:es</b>	function	<b>romannumerals</b>	function
<b>abjadnodotnumerals</b>	function	<b>second</b>	function
<b>abjadnumerals</b>	function	<b>sequences</b>	data table
<b>alphabetic</b>	function	<b>settime</b>	function
<b>alphabetic:es</b>	function	<b>sloviannumerals</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
<b>cn-c</b>	function	<b>verbose</b>	table
<b>convert</b>	function		
<b>decimals</b>	function	D data	
<b>define</b>	function	F translate	
<b>hexstringtonumber</b>	function	<b>weekday</b>	function
<b>hour</b>	function	<b>word</b>	function
<b>i</b>	function	<b>words</b>	function
		<b>year</b>	function

## coroutine (basic lua)

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

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

# ctxrunner (context)

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



## debug (basic lua)

<b>debug</b>	function	<b>setfenv</b>	function
<b>getfenv</b>	function	<b>sethook</b>	function
<b>gethook</b>	function	<b>setlocal</b>	function
<b>getinfo</b>	function	<b>setmetatable</b>	function
<b>getlocal</b>	function	<b>setupvalue</b>	function
<b>getmetatable</b>	function	<b>setuservalue</b>	function
<b>getregistry</b>	function	<b>traceback</b>	function
<b>getupvalue</b>	function	<b>upvalueid</b>	function
<b>getuservalue</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>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>maxnofruns</b>	number
<b>currentrun</b>	number	<b>originalarguments</b>	data table
<b>default_texmfcnf</b>	string	<b>outputfilename</b>	string
<b>definefilefallback</b>	function	<b>ownbin</b>	string
<b>definefilesynonym</b>	function	<b>ownmain</b>	string
<b>engineflags</b>	data table	<b>ownname</b>	string
<b>filename</b>	string	<b>ownpath</b>	string
<b>files</b>	table	<b>prerollrun</b>	boolean
<b>filesynonyms</b>	data table	<b>rawarguments</b>	data table
<b>forcedruns</b>	number	<b>reconstructcommandline</b>	function
<b>getargument</b>	function	<b>relativepath</b>	function
<b>homedir</b>	string	<b>setargument</b>	function
<b>initex</b>	boolean	<b>splitarguments</b>	function
<b>initializearguments</b>	function	<b>suffix</b>	string
<b>initializefilenames</b>	function	<b>texfile</b>	function
<b>inputfilebarename</b>	string	<b>texmfos</b>	string
<b>inputfilename</b>	string	<b>texos</b>	string
<b>inputfilesuffix</b>	string	<b>texroot</b>	string
<b>jobfilename</b>	string	<b>truefilename</b>	function
<b>jobfilesuffix</b>	string	<b>uselua module</b>	function
<b>jobname</b>	string	<b>usemodules</b>	function
<b>kindofrun</b>	number	<b>validengines</b>	data table
<b>loadexamodes</b>	function	<b>version</b>	string
<b>loadluafile</b>	function		

## epdf (extra tex)

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

**PDFRectangle** function  
**StructElement\_Type** function  
**open** overloaded function  
**openMemStream** function  
**type** function

## experiments (context)

<b>data</b>	data table
<b>default</b>	function
<b>disable</b>	function
<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

# figures (context)

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



## file (basic lua)

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

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

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

# fontloader (extra tex)

<b>apply_afmfile</b>	function	<b>info</b>	overloaded function
<b>apply_featurefile</b>	function	<b>open</b>	overloaded function
<b>close</b>	function	<b>to_table</b>	function
<b>fields</b>	function	<b>totable</b>	function
<b>fullinfo</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 addcoreunicodes

F aftercopyingcharacters

F applymanipulators

F assignmathparameters

B autocleanup

F beforecopyingcharacters

D cache

B cacheintex

F calculatyscale

F checkedfeatures

F checkedfilename

F checkvirtualids

F cleanupable

F collectprocessors

F currentfonthasfeature

D designsizes

D dontembed

F enhanceparameters

N factor

T features

D afm

D off

D tfm

F finalize

F getfeatureaction

T handlers

T afm

B autoprefixed

D cache

D features	T handlers
F getkern	F devanagari_remove_joiners
T helpdata	F devanagari_reorder_matras
D bothkerned	F devanagari_reorder_pre_base_reordering_consonants
D leftkerned	F devanagari_reorder_reph
D ligatures	F gpos_context
D rightkerned	F gpos_contextchain
D texligatures	F gpos_cursive
F load	F gpos_mark2base
T readers	F gpos_mark2ligature
F getinfo	F gpos_mark2mark
F loadfont	F gpos_pair
F setfeatures	F gpos_single
B syncspace	F gsub_alternate
N version	F gsub_context
T otf	F gsub_contextchain
F addfeature	F gsub_ligature
F basemodeinitializer	F gsub_multiple
D cache	F gsub_reversecontextchain
F collectlookups	F gsub_single
T coverup	F trigger_space_kerns
T actions	F load
F alternate	F modeinitializer
F chainposition	F nodemodeinitializer
F chainsubstitution	F packoutlines
F kern	D pdfcache
F ligature	T readers
F multiple	F addunicodetable
F pair	D cache
F substitution	F cff
F register	F checkhash
S stepkey	F cmap
F dataset	F colr
S defaultbasealternate	F compact
S defaultnodealternate	F cpal
D enhancers	F expand
D features	F extend
F featuresprocessor	F gdef
F getactualtext	F getcomponents
F getalternate	F getinfo
F getgsub	F glyf
F getkern	F gpos
F getmultiple	F gsub
F getsubstitution	F head

F hhea	F writecardinal4
F hmtx	F writestring
F kern	F svg
F loadfont	N tableversion
F loadshapes	F unifymissing
F loca	F unpack
F math	N version
F maxp	F woff2otf
F name	F scriptandlanguage
F os/2	F setdynamics
F pack	F setfeatures
F post	T statistics
F registerextender	D usedfeatures
F rehash	T svg
T streamreader	F filterglyph
F close	F storepdfdata
F getposition	F topdf
F getsize	D svgcache
F look	B svgenabled
F open	T tables
F read2dot14	D baselines
F readbyte	D features
F readbytes	D featuretypes
F readcardinal	D languages
F readcardinal1	D scripts
F readcardinal2	F unpackoutlines
F readcardinal3	N version
F readcardinal4	T pfb
F readchar	F loadvector
F readfixed4	T tfm
F readinteger	F addtounicode
F readinteger1	D features
F readinteger2	N maxnestingdepth
F readinteger3	N maxnestingsize
F readinteger4	F reencode
F readstring	F setfeatures
F readtag	N version
F setposition	T vf
F size	T combinations
F skip	F combine
F skiplong	T combiner
F skipshort	D commands
F writebyte	D helpers
F writecardinal2	D math

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	
S scriptscriptpercentage	F scale	
S size	F scaled	
S slantfactor	F setfactor	
S slantperpoint	F setfeature	
T spacing	F setname	
S extra	B sharefonts	
S shrink	F trytosharefont	
S stretch	N version	
S width	<b>current</b>	function
S units	<b>currentid</b>	function
S vfactor	<b>definers</b>	table
S xheight	F addlookup	
T properties	F analyze	
S autoitalicamount	F applypostprocessors	



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>	N Kjecyrillic
<b>encodings</b>	N Lcedilla
T agl	N Ljecyrillic
D ctxcodes	N Ncedilla
D extras	N Njecyrillic
D names	N Ocyrillic
T synonyms	N Odblacute
N Acyrillic	N Ohm
N Becyrillic	N Pecyrillic
N Cdot	N Rcedilla
N Checyrillic	N Shacyrillic
N Decyrillic	N Shchacyrillic
N Djecyrillic	N Softsigncyrillic
N Dzecyrillic	N Tcedilla
N Dzhecyrillic	N Tecyrillic
N Ecyrillic	N Tsecyrillic
N Edot	N Tshacyrillic
N Efcyrillic	N Ucyrillic
N Elcyrillic	N Udblacute
N Emcyrillic	N Ushortcyrillic
N Encyrillic	N Vecyrillic
N Ercyrillic	N Yatcyrillic

N 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 etnahtaafoukhhebrew
N blackrectangle	N etnahtaafoukhlefthebrew
N blackrightpointingpointer	N etnahtahebrew
N blacksmilingface	N fathaarabic
N blacksquare	N finalkaf
N blackuppointingtriangle	N finalkafdagesh
N bulletinverse	N finalkafhebrew
N cdot	N finalkafqamats
N compass	N finalkafqamatshebrew
N dagesh	N finalkafsheva
N dalet	N finalmem
N daletdagesh	N finalnun
N dalethatafpatah	N finalpe
N dalethatafpatahhebrew	N finaltsadi
N dalethatafsegol	N fivearabic
N dalethatafsegolhebrew	N forall
N dalethebrew	N fourarabic
N dalethiriq	N gcedilla
N dalethiriqhebrew	N gdot
N daletholam	N gimel
N daletholamhebrew	N gimeldagesh

N 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 hamzalowarabic	N integraltop
N hamzalowkasraarabic	N kaf
N hamzalowkasratanarabic	N kafdagesh
N hatafpatah	N kashidaautoarabic
N hatafpatah16	N kashidaautosidebearingarabic
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 hatafsegolquarterhebrew	N nbspace
N he	N ncedilla
N hedagesh	N newsheqelsign
N hehfinalalttwoarabic	N ninearabic
N het	N noonhehinitialarabic
N hiriq	N nun
N hiriq14	N nundagesh
N hiriq21	N odblacute
N hiriq2d	N onearabic
N hiriqhebrew	N overscore
N hiriqnarrowhebrew	N patah
N hiriqquarterhebrew	N patah11
N holam	N patah1d
N holam19	N patah2a

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 reshholam
N qamatsqatanwidehebrew	N reshholamhebrew
N qamatsquarterhebrew	N reshpatah
N qof	N reshpatahhebrew
N qofdagesh	N reshqamats
N qofhatafpatah	N reshqamatshebrew
N qofhatafpatahhebrew	N reshqubuts
N qofhatafsegol	N reshqubutshebrew
N qofhatafsegolhebrew	N reshsegol
N qofhebrew	N reshsegolhebrew
N qofhiriq	N reshsheva
N qofhiriqhebrew	N reshshevahebrew
N qofholam	N reshtsere
N qofholamhebrew	N reviahebrew
N qofpatah	N samekh
N qofpatahhebrew	N samekhdagesh
N qofqamats	N segol
N qofqamatshebrew	N segol13
N qofqubuts	N segol1f
N qofqubutshebrew	N segol2c
N qofsegol	N segolhebrew
N qofsegolhebrew	N segolnarrowhebrew
N qofsheva	N segolquarterhebrew
N qofshevahebrew	N sevenarabic
N qoftsere	N sfthyphen
N qubuts	N shaddaarabic
N qubuts18	N sheqel

N 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 tavadages	N Abrevehook
N tavadagesh	N Abrevetilde
N tcedilla	N Acaron
N tchehinitialarabic	N Acircumflex
N tet	N Acircumflexacute
N tetdagesh	N Acircumflexdotbelow
N tevirhebrew	N Acircumflexgrave
N thousandsseparatorarabic	N Acircumflexhook
N threearabic	N Acircumflextilde
N tildecmb	N Adiaeresis
N tipehahebrew	N Adiaeresismacron
N tsadi	N Adotaccent
N tsadidagesh	N Adotaccentmacron
N tsere	N Adotbelow
N tsere12	N Adoublegrave
N tsere1e	N Agrave
N tsere2b	N Ahook
N tserehebrew	N Ainvertedbreve
N tserenarrowhebrew	N Amacron
N tserequarterhebrew	N Aogonek
N twoarabic	N Aring
N udblacute	N Aringacute
N vav	N Astroke
N vavdagesh	N Atilde
N vavdagesh65	N Bhook
N vavholam	N Cacute
N yerahbenyomohebrew	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 Nacute  
N Ncaron  
N Ncommaaccent  
N Neng  
N Ngrave  
N Njligature  
N Ntilde  
N OEligature  
N Oacute  
N Obreve  
N Ocaron  
N Ocircumflex  
N Ocircumflexacute

N Ocircumflexdotbelow  
N Ocircumflexgrave  
N Ocircumflexhook  
N Ocircumflextilde  
N Odiaeresis  
N Odiaeresismacron  
N Odotaccent  
N Odotaccentmacron  
N Odotbelow  
N Odoublegrave  
N Ograve  
N Ohook  
N Ohorn  
N Ohornacute  
N Ohorndotbelow  
N Ohorngrave  
N Ohornhook  
N Ohorntilde  
N Ohungarumlaut  
N Oinvertedbreve  
N Omacron  
N Ogonek  
N Ogonekmacron  
N Ostroke  
N Ostrokeacute  
N Otilde  
N Otildemacron  
N Phook  
N Racute  
N Rcaron  
N Rcommaaccent  
N Rdoublegrave  
N Rinvertedbreve  
N Sacute  
N Scaron  
N Scedilla  
N Schwa  
N Scircumflex  
N Scommaaccent  
N Tcaron  
N Tcedilla  
N Tcommaaccent  
N Thook  
N Thorn

N Tstroke  
N Uacute  
N Ubreve  
N Ucaron  
N Ucircumflex  
N Udiaeresis  
N Udiaeresisacute  
N Udiaeresiscaron  
N Udiaeresisgrave  
N Udiaeresismacron  
N Udotbelow  
N Udoublegrave  
N Ugrave  
N Uhook  
N Uhorn  
N Uhornacute  
N Uhorndotbelow  
N Uhorngrave  
N Uhornhook  
N Uhorntilde  
N Uhungarumlaut  
N Uinvertedbreve  
N Umacron  
N Uogonek  
N Uring  
N Utilde  
N Wcircumflex  
N Yacute  
N Ycircumflex  
N Ydiaeresis  
N Ydotbelow  
N Ygrave  
N Yhook  
N Ymacron  
N Ytilde  
N Zacute  
N Zcaron  
N Zdotaccent  
N Zhook  
N Zstroke  
N aacute  
N abreve  
N abreveacute  
N abreviedotbelow

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 aeacute	N cyrillicDZHE
N aeligature	N cyrillicE
N aemacron	N cyrillicELtail
N agrave	N cyrillicEMtail
N ahook	N cyrillicENDC
N ainvertedbreve	N cyrillicENGHE
N amacron	N cyrillicENhook
N aogonek	N cyrillicENTail
N aring	N cyrillicEREV
N aringacute	N cyrillicERY
N atilde	N cyrillicERTick
N bhook	N cyrillicEbreve
N breakablethinspace	N cyrillicEdiaeresis
N bstroke	N cyrillicEgrave
N cacute	N cyrillicEiotified
N carriagereturn	N cyrillicF
N ccaron	N cyrillicFITA
N ccedilla	N cyrillicG
N ccircumflex	N cyrillicGHEmidhook
N ccurl	N cyrillicGHEstroke
N cdotaccent	N cyrillicGHEupturn
N chook	N cyrillicGJE
N copyright	N cyrillicH
N cstroke	N cyrillicHA
N cyrillicA	N cyrillicHADC
N cyrillicAE	N cyrillicHRDSN
N cyrillicAbreve	N cyrillicI
N cyrillicAdiaeresis	N cyrillicIE



N cyrillicII	N cyrillicSEMISOFT
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 cyrillicObarred	N cyrillicZHEdescender
N cyrillicObarreddiaeresis	N cyrillicZHEdiaeresis
N cyrillicOdiaeresis	N cyrillica
N cyrillicP	N cyrillicabreve
N cyrillicPALATALIZATION	N cyrillicadiaeresis
N cyrillicPALOCHKA	N cyrillicae
N cyrillicPEmidhook	N cyrillicb
N cyrillicPSI	N cyrillicbigyus
N cyrillicPSILIPNEUMATA	N cyrillicbigyusiotified
N cyrillicR	N cyrillicc
N cyrillicS	N cyrillicch
N cyrillicSCHWA	N cyrilliccheabkhasian
N cyrillicSCHWAdiaeresis	N cyrillicchedc
N cyrillicSDSC	N cyrillicchedcabkhasian

N cyrillichediaeresis  
N cyrillicchekhakassian  
N cyrillicchevertstroke  
N cyrillicd  
N cyrillicdje  
N cyrillicdze  
N cyrillicdzeabkhasian  
N cyrillicdzhe  
N cyrillice  
N cyrillicebreve  
N cyrillicediaeresis  
N cyrillicegrave  
N cyrilliceiotified  
N cyrilliceltail  
N cyrillicemtail  
N cyrillicencd  
N cyrillicenghe  
N cyrillicenhook  
N cyrillicentail  
N cyrillicerev  
N cyrillicertick  
N cyrillicery  
N cyrillicf  
N cyrillicfita  
N cyrillicg  
N cyrillicghemidhook  
N cyrillicghestroke  
N cyrillicgheupturn  
N cyrillicgje  
N cyrillich  
N cyrillicha  
N cyrillichadc  
N cyrillichrdsn  
N cyrillic  
N cyrillicidiaeresis  
N cyrillicie  
N cyrillicigrave  
N cyrillicii  
N cyrillicimacron  
N cyrillicishrt  
N cyrillicishrttail  
N cyrillicizhitsa  
N cyrillicizhitsadoublegrave  
N cyrillicje

N cyrillick  
N cyrillickabashkir  
N cyrillickadc  
N cyrillickahook  
N cyrillickastroke  
N cyrillickavertstroke  
N cyrillickje  
N cyrillickoppa  
N cyrillicksi  
N cyrillicl  
N cyrilliclittleyus  
N cyrilliclittleyusiotified  
N cyrilliclje  
N cyrillicm  
N cyrillicn  
N cyrillicnje  
N cyrillico  
N cyrillicobarred  
N cyrillicobarreddiaeresis  
N cyrillicodiaeresis  
N cyrillicomega  
N cyrillicomegaround  
N cyrillicomegatitlo  
N cyrillicot  
N cyrillicp  
N cyrillicpemidhook  
N cyrillicpsi  
N cyrillicr  
N cyrillics  
N cyrillicschwa  
N cyrillicschwadiaeresis  
N cyrillicsdsc  
N cyrillicsemisoft  
N cyrillicsftsn  
N cyrillicsh  
N cyrillicshch  
N cyrillicshha  
N cyrillict  
N cyrillictedc  
N cyrillictetse  
N cyrillictshe  
N cyrillicu  
N cyrillicudiaeresis  
N cyrillicudoubleacute

N cyrillicuk	N edoublegrave
N cyrillicumacron	N egrave
N cyrillicushrt	N ehook
N cyrillicv	N einvertedbreve
N cyrillicya	N emacron
N cyrillicyat	N emdash
N cyrillicyerudiaeresis	N emspace
N cyrillicyi	N endash
N cyrillicyo	N enspace
N cyrillicystr	N eogonek
N cyrillicystrstroke	N etilde
N cyrillicyu	N exclamdown
N cyrillicz	N ffiligature
N cyrilliczdsc	N ffligature
N cyrilliczediaeresis	N fflligature
N cyrilliczh	N fhook
N cyrilliczhebreve	N figurespace
N cyrilliczhedescender	N filigature
N cyrilliczhediaeresis	N fiveeighths
N dcaron	N fivesixths
N dcurl	N flligature
N dhook	N fourfifths
N dotlessI	N fourperemspace
N dotlessJ	N gacute
N dotlessi	N gbreve
N dotlessj	N gcaron
N dotlessjstroke	N gcircumflex
N dstroke	N gcommaaccent
N dtail	N gdotaccent
N dzcaronligature	N greekAlpha
N dzligature	N greekAlphadasia
N eacute	N greekAlphadasiaaperispomeni
N ebreve	N greekAlphadasiatonos
N ecaron	N greekAlphadasiaavaria
N ecedilla	N greekAlphaiotasub
N ecircumflex	N greekAlphaiotasubdasia
N ecircumflexacute	N greekAlphaiotasubdasiaperispomeni
N ecircumflexdotbelow	N greekAlphaiotasubdasiatonos
N ecircumflexgrave	N greekAlphaiotasubdasiavaria
N ecircumflexhook	N greekAlphaiotasubpsili
N ecircumflextilde	N greekAlphaiotasubpsiliperispomeni
N ediaeresis	N greekAlphaiotasubpsilitonos
N edotaccent	N greekAlphaiotasubpsilivaria
N edotbelow	N greekAlphamacron

N greekAlphapsili	N greekIotadasiatonos
N greekAlphapsiliperispomeni	N greekIotadasiavaria
N greekAlphapsilitonos	N greekIotadialytika
N greekAlphapsilivaria	N greekIotamacron
N greekAlphatonos	N greekIotapsili
N greekAlphavaria	N greekIotapsiliperispomeni
N greekAlphavrachy	N greekIotapsilitonos
N greekBeta	N greekIotapsilivaria
N greekChi	N greekIotatonos
N greekCoronis	N greekIotavaria
N greekDelta	N greekIotavrachy
N greekEpsilon	N greekKappa
N greekEpsilondasia	N greekLambda
N greekEpsilondasiatonos	N greekMu
N greekEpsilondasiavaria	N greekNu
N greekEpsilonpsili	N greekOmega
N greekEpsilonpsilitonos	N greekOmegadasia
N greekEpsilonpsilivaria	N greekOmegadasiaaperispomeni
N greekEpsilontonos	N greekOmegadasiatonos
N greekEpsilonvaria	N greekOmegadasiavaria
N greekEta	N greekOmegaiotasub
N greekEtadasia	N greekOmegaiotasubdasia
N greekEtadasiaaperispomeni	N greekOmegaiotasubdasiaaperispomeni
N greekEtadasiatonos	N greekOmegaiotasubdasiatonos
N greekEtadasiavaria	N greekOmegaiotasubdasiavaria
N greekEtaiotasub	N greekOmegaiotasubpsili
N greekEtaiotasubdasia	N greekOmegaiotasubpsiliperispomeni
N greekEtaiotasubdasiaaperispomeni	N greekOmegaiotasubpsilitonos
N greekEtaiotasubdasiatonos	N greekOmegaiotasubpsilivaria
N greekEtaiotasubdasiavaria	N greekOmegapsili
N greekEtaiotasubpsili	N greekOmegapsiliperispomeni
N greekEtaiotasubpsiliperispomeni	N greekOmegapsilitonos
N greekEtaiotasubpsilitonos	N greekOmegapsilivaria
N greekEtaiotasubpsilivaria	N greekOmegatonos
N greekEtapsili	N greekOmegavaria
N greekEtapsiliperispomeni	N greekOmicron
N greekEtapsilitonos	N greekOmicrondasia
N greekEtapsilivaria	N greekOmicrondasiatonos
N greekEtatonos	N greekOmicrondasiavaria
N greekEtavaria	N greekOmicronpsili
N greekGamma	N greekOmicronpsilitonos
N greekIota	N greekOmicronpsilivaria
N greekIotadasia	N greekOmicrontonos
N greekIotadasiaaperispomeni	N greekOmicronvaria

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 greekUpsilonontonos	N greekepsilonalt
N greekUpsilonvaria	N greekepsilonondasia
N greekUpsilonvrachy	N greekepsilonondasiatonos
N greekXi	N greekepsilonondasiavaria
N greekZeta	N greekepsilonoxia
N greekalpha	N greekepsilonpsili
N greekalphadasia	N greekepsilonpsilitonos
N greekalphadasiaperispomeni	N greekepsilonpsilivaria
N greekalphadasiatonos	N greekepsilonontonos
N greekalphadasiavaria	N greekepsilonvaria
N greekalphaiotasub	N greeketa
N greekalphaiotasubdasia	N greeketadasia
N greekalphaiotasubdasiaperispomeni	N greeketadasiaperispomeni
N greekalphaiotasubdasiatonos	N greeketadasiatonos
N greekalphaiotasubdasiavaria	N greeketadasiavaria
N greekalphaiotasubperispomeni	N greeketaiotasub
N greekalphaiotasubpsili	N greeketaiotasubdasia
N greekalphaiotasubpsiliperispomeni	N greeketaiotasubdasiaperispomeni
N greekalphaiotasubpsilitonos	N greeketaiotasubdasiatonos
N greekalphaiotasubpsilivaria	N greeketaiotasubdasiavaria
N greekalphaiotasubtonos	N greeketaiotasubperispomeni
N greekalphaiotasubvaria	N greeketaiotasubpsili
N greekalphamacron	N greeketaiotasubpsiliperispomeni
N greekalphaoxia	N greeketaiotasubpsilitonos
N greekalphaperispomeni	N greeketaiotasubpsilivaria
N greekalphapsili	N greeketaiotasubtonos
N greekalphapsiliperispomeni	N greeketaiotasubvaria
N greekalphapsilitonos	N greeketaoxia

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 greekiotadasiavaria	N greekomegatonos
N greekiotadialytika	N greekomegavaria
N greekiotadialytikaperispomeni	N greekomicron
N greekiotadialytikatonos	N greekomicrondasia
N greekiotadialytikavaria	N greekomicrondasiatonos
N greekiotamacron	N greekomicrondasiavaria
N greekiotaoxia	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 greeklambda	N greekpialt
N greekmu	N greekprosgegrammeni
N greeknu	N greekpsi
N greeknumkoppa	N greekpsili
N greekomega	N greekpsiliperispomeni
N greekomegadasia	N greekpsilitonos
N greekomegadasiaaperispomeni	N greekpsilivaria
N greekomegadasiatonos	N greekrho
N greekomegadasiavaria	N greekrhoalt
N greekomegaiotasub	N greekrhodasia
N greekomegaiotasubdasia	N greekrhopsili
N greekomegaiotasubdasiaperispomeni	N greeksampi
N greekomegaiotasubdasiatonos	N greeksigma
N greekomegaiotasubdasiavaria	N greeksigmalunate

N greekstigma	N hebrewMemfinal
N greektau	N hebrewNun
N greektheta	N hebrewNunfinal
N greekthetaalt	N hebrewPe
N greektonos	N hebrewPefinal
N greekupsilon	N hebrewQof
N greekupsilondasia	N hebrewResh
N 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 hairspace	N ijligature
N hcaron	N imacron
N hcircumflex	N iogonek
N hebrewAlef	N itilde
N hebrewAyin	N jcaron
N hebrewBet	N jcircumflex
N hebrewDalet	N kcaron
N hebrewGimel	N kcommaaccent
N hebrewHe	N khook
N hebrewHet	N kkra
N hebrewKaf	N lacute
N hebrewKaffinal	N lbar
N hebrewLamed	N lcaron
N hebrewMem	N lcommaaccent

N lcurl	N oneeighth
N ldotmiddle	N onefifth
N leftguillemot	N onehalf
N lligature	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 odotbelow	N rcaron
N odoublegrave	N rcommaaccent
N oeligature	N rdoublegrave
N ograve	N registered
N ohook	N rightguillemot
N ohorn	N rinvertedbreve
N ohornacute	N romanC
N ohorndotbelow	N romanD
N ohorngrave	N romanI
N ohornhook	N romanII
N ohorntilde	N romanIII
N ohungarumlaut	N romanIV
N oinvertedbreve	N romanIX
N omacron	N romanL



N 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
N schwahook	N textdotaccent
N scircumflex	N textellipsis
N scommaaccent	N texteuro
N sectionmark	N textfraction
N seveneighths	N textgrave
N sixperemspace	N texthash
N slong	N texthorizontalbar
N softhyphen	N texthungarumlaut
N ssharp	N textkelvin
N stligature	N textlognot
N tcaron	N textmacron
N tcedilla	N textmho
N tcommaaccent	N textminus
N tcurl	N textmu
N textAngstrom	N textmultiply
N textacute	N textnumero

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
N thook	N ymacron
N thorn	N ytilde
N threeeighths	N zacute
N threefifths	N zcaron
N threeperemspace	N zdotaccent
N threequarter	N zerowidthnbreakspace
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
N udiaeresisacute	T unicodes
N udiaeresiscaron	N A
N udiaeresisgrave	N AE
N udiaeresismacron	N AEacute
N udotbelow	N AEmacron
N udoublegrave	N Aacute
N ugrave	N Abreve
N uhook	N Abreveacute
N uhorn	N Abrevecyrillic
N uhornacute	N Abrevedotbelow
N uhorndotbelow	N Abrevegrave
N uhorngrave	N Abrevehookabove
N uhornhook	N Abrevetilde
N uhorntilde	N Acaron
N uhungarumlaut	N Acircle

N Acircumflex  
N Acircumflexacute  
N Acircumflexdotbelow  
N Acircumflexgrave  
N Acircumflexhookabove  
N Acircumflextilde  
N Acyrillic  
N Adblgrave  
N Adieresis  
N Adieresiscyrillic  
N Adieresismacron  
N Adotbelow  
N Adotmacron  
N Agrave  
N Ahookabove  
N Aiecyrillic  
N Ainvertedbreve  
N Alpha  
N Alphanos  
N Amacron  
N Amonospace  
N Aogonek  
N Aring  
N Aringacute  
N Aringbelow  
N Atilde  
N Aybarmenian  
N B  
N Bcircle  
N Bdotaccent  
N Bdotbelow  
N Becyrillic  
N Benarmenian  
N Beta  
N Bhook  
N Blinebelow  
N Bmonospace  
N Btopbar  
N C  
N Caarmenian  
N Cacute  
N Ccaron  
N Ccedilla  
N Ccedillaacute

N Ccircle  
N Ccircumflex  
N Cdot  
N Cdotaccent  
N Chaarmenian  
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N Checyrillic  
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N Chedescendercyrillic  
N Chedieresiscyrillic  
N Cheharmenian  
N Chekhakassiancyrillic  
N Cheverticalstrokecyrillic  
N Chi  
N Chook  
N Cmonospace  
N Coarmenian  
N D  
N DZ  
N DZcaron  
N Daarmenian  
N Dafrican  
N Dcaron  
N Dcedilla  
N Dcircle  
N Dcircumflexbelow  
N Dcroat  
N Ddotaccent  
N Ddotbelow  
N Decyrillic  
N Deicoptic  
N Delta  
N Deltagreek  
N Dhook  
N Digammagreek  
N Djecyrillic  
N Dlinebelow  
N Dmonospace  
N Dslash  
N Dtopbar  
N Dz  
N Dzcaron  
N Dzeabkhasiancyrillic  
N Dzecyrillic

N Dzhecyrillic  
N E  
N Eacute  
N Ebreve  
N Ecaron  
N Ecedillabreve  
N Echarmenian  
N Ecircle  
N Ecircumflex  
N Ecircumflexacute  
N Ecircumflexbelow  
N Ecircumflexdotbelow  
N Ecircumflexgrave  
N Ecircumflexhookabove  
N Ecircumflextilde  
N Ecyrillic  
N Edblgrave  
N Edieresis  
N Edot  
N Edotaccent  
N Edotbelow  
N Efcyrillic  
N Egrave  
N Eharmenian  
N Ehookabove  
N Eightroman  
N Einvertedbreve  
N Eiotifiedcyrillic  
N Elcyrillic  
N Elevenroman  
N Emacron  
N Emacronacute  
N Emacrongrave  
N Emcyrillic  
N Emonospace  
N Encyrillic  
N Endescendercyrillic  
N Eng  
N Enghecyrillic  
N Enhookcyrillic  
N Eogonek  
N Eopen  
N Epsilon  
N Epsilontonos

N Ercyrillic  
N Ereversed  
N Ereversedcyrillic  
N Escyrillic  
N Esdescendercyrillic  
N Esh  
N Eta  
N Etarmenian  
N Etatonos  
N Eth  
N Etilde  
N Etildebelow  
N Euro  
N Ezh  
N Ezhcaron  
N Ezhreversed  
N F  
N Fcircle  
N Fdotaccent  
N Feharmenian  
N Feicoptic  
N Fhook  
N Fitacyrillic  
N Fiveroman  
N Fmonospace  
N Fourroman  
N G  
N GBsquare  
N Gacute  
N Gamma  
N Gammaafrican  
N Gangiaoptic  
N Gbreve  
N Gcaron  
N Gcedilla  
N Gcircle  
N Gcircumflex  
N Gcommaaccent  
N Gdot  
N Gdotaccent  
N Gecyrillic  
N Ghadarmenian  
N Ghemiddlehookcyrillic  
N Ghestrokecyrillic

N Gheupturncyrillic  
N Ghook  
N Gimarmenian  
N Gjecyrillic  
N Gmacron  
N Gmonospace  
N Gsmallhook  
N Gstroke  
N H  
N H18533  
N H18543  
N H18551  
N H22073  
N HPsquare  
N Haabkhasiancyrillic  
N Hadescendercyrillic  
N Hardsigncyrillic  
N Hbar  
N Hbrevebelow  
N Hcedilla  
N Hcircle  
N Hcircumflex  
N Hdieresis  
N Hdotaccent  
N Hdotbelow  
N Hmonospace  
N Hoarmenian  
N Horicoptic  
N Hsquare  
N I  
N IAcyrillic  
N IJ  
N IUcyrillic  
N Iacute  
N Ibreve  
N Icaron  
N Icircle  
N Icircumflex  
N Icyrillic  
N Idblgrave  
N Idieresis  
N Idieresisacute  
N Idieresiscyrillic  
N Idot

N Idotaccent  
N Idotbelow  
N Iebrevocyrillic  
N Iecyrillic  
N Ifraktur  
N Igrave  
N Ihookabove  
N Iicyrillic  
N Iinvertedbreve  
N Iishortcyrillic  
N Imacron  
N Imacroncyrillic  
N Imonospace  
N Iniarmenian  
N Iocyrillic  
N Iogonek  
N Iota  
N Iotaafrican  
N Iotadieresis  
N Iotatonos  
N Istroke  
N Itilde  
N Itildebelow  
N Izhitsacyrillic  
N Izhitsadblgravecyrillic  
N J  
N Jaarmenian  
N Jcircle  
N Jcircumflex  
N Jecyrillic  
N Jheharmenian  
N Jmonospace  
N K  
N KBsquare  
N Kksquare  
N Kabashkircyrillic  
N Kacute  
N Kacyrillic  
N Kadescendercyrillic  
N Kahookcyrillic  
N Kappa  
N Kastrokecyrillic  
N Kaverticallstrokecyrillic  
N Kcaron

N Kcedilla  
N Kcircle  
N Kcommaaccent  
N Kdotbelow  
N Keharmenian  
N Kenarmenian  
N Khacyrillic  
N Kheicoptic  
N Khook  
N Kjecyrillic  
N Klinebelow  
N Kmonospace  
N Koppacyrillic  
N Koppagreek  
N Ksicyrillic  
N L  
N LJ  
N Lacute  
N Lambda  
N Lcaron  
N Lcedilla  
N Lcircle  
N Lcircumflexbelow  
N Lcommaaccent  
N Ldot  
N Ldotaccent  
N Ldotbelow  
N Ldotbelowmacron  
N Liwnarmenian  
N Lj  
N Ljecyrillic  
N Llinebelow  
N Lmonospace  
N Lslash  
N M  
N MBsquare  
N Macute  
N Mcircle  
N Mdotaccent  
N Mdotbelow  
N Menarmenian  
N Mmonospace  
N Mturned  
N Mu

N N  
N NJ  
N Nacute  
N Ncaron  
N Ncedilla  
N Ncircle  
N Ncircumflexbelow  
N Ncommaaccent  
N Ndotaccent  
N Ndotbelow  
N Nhookleft  
N Nineroman  
N Nj  
N Njecyrillic  
N Nlinebelow  
N Nmonospace  
N Nowarmenian  
N Ntilde  
N Nu  
N O  
N OE  
N Oacute  
N Obarredcyrillic  
N Obarreddieresiscyrillic  
N Obreve  
N Ocaron  
N Ocenteredtilde  
N Ocircle  
N Ocircumflex  
N Ocircumflexacute  
N Ocircumflexdotbelow  
N Ocircumflexgrave  
N Ocircumflexhookabove  
N Ocircumflextilde  
N Ocyrillic  
N Odblacute  
N Odblgrave  
N Odieresis  
N Odieresiscyrillic  
N Odotbelow  
N Ograve  
N Oharmenian  
N Ohm  
N Ohookabove

N Ohorn	N Psi
N Ohornacute	N Psicyrillic
N Ohorndotbelow	N Q
N Ohorngrave	N Qcircle
N Ohornhookabove	N Qmonospace
N Ohorntilde	N R
N Ohungarumlaut	N Raarmenian
N Oi	N Racute
N Oinvertedbreve	N Rcaron
N Omacron	N Rcedilla
N Omacronacute	N Rcircle
N Omacrongrave	N Rcommaaccent
N Omega	N Rdblgrave
N Omegacyrillic	N Rdotaccent
N Omegagreek	N Rdotbelow
N Omegaroundcyrillic	N Rdotbelowmacron
N Omegatitlocyrillic	N Reharmerian
N Omegatonos	N Rfraktur
N Omicron	N Rho
N Omicrontonos	N Rinvertedbreve
N Omonospace	N Rlinebelow
N Oneroman	N Rmonospace
N Oogonek	N Rsmallinverted
N Oogonekmacron	N Rsmallinvertedsuperior
N Oopen	N S
N Oslash	N SF010000
N Oslashacute	N SF020000
N Ostrokeacute	N SF030000
N Otcyrillic	N SF040000
N Otilde	N SF050000
N Otildeacute	N SF060000
N Otildedieresis	N SF070000
N P	N SF080000
N Pacute	N SF090000
N Pcircle	N SF10000
N Pdotaccent	N SF100000
N Pecyrillic	N SF110000
N Peharmenian	N SF190000
N Pemiddlehookcyrillic	N SF20000
N Phi	N SF200000
N Phook	N SF210000
N Pi	N SF220000
N Piwrarmenian	N SF230000
N Pmonospace	N SF240000

N SF250000	N Sdotbelowdotaccent
N SF260000	N Seharmerian
N SF270000	N Sevenroman
N SF280000	N Shaarmenian
N SF30000	N Shacyrillic
N SF360000	N Shchacyrillic
N SF370000	N Sheicoptic
N SF380000	N Shhacyrillic
N SF390000	N Shimacoptic
N SF40000	N Sigma
N SF400000	N Sixroman
N SF410000	N Smonospace
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 Tecyrillic
N SF540000	N Tedescendercyrillic
N SF60000	N Tenroman
N SF70000	N Tetsecyrillic
N SF80000	N Theta
N SF90000	N Thook
N Sacute	N Thorn
N Sacutedotaccent	N Threeroman
N Sampigreek	N Tiwnarmenian
N Scaron	N Tlinebelow
N Scarondotaccent	N Tmonospace
N Scedilla	N Toarmenian
N Schwa	N Tonefive
N Schwacyrillic	N Tonesix
N Schwadiesiscyrillic	N Tonetwo
N Scircle	N Retroflexhook
N Scircumflex	N Tsecyrillic
N Scommaaccent	N Tshecyrillic
N Sdotaccent	N Twelveroman
N Sdotbelow	N Tworoman



N 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
N Udieresisgrave	N W
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 Ukcyrillic	N Xi
N Umacron	N Xmonospace
N Umacroncyrillic	N Y
N Umacrondieresis	N Yacute
N Umonospace	N Yatcyrillic
N Uogonek	N Ycircle
N Upsilon	N Ycircumflex
N Upsilon1	N Ydieresis
N Upsilonacutehooksymbolgreek	N Ydotaccent
N Upsilonafrican	N Ydotbelow
N Upsilondieresis	N Yericyrillic
N Upsilondieresishooksymbolgreek	N Yerudieresiscyrillic
N Upsilonhooksymbol	N Ygrave
N Upsilonontonos	N Yhook
N Uring	N Yhookabove

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 Yuslitleiotifiedcyrillic	N acaron
N Z	N acircle
N Zaarmenian	N acircumflex
N Zacute	N acircumflexacute
N Zcaron	N acircumflexdotbelow
N Zcircle	N acircumflexgrave
N Zcircumflex	N acircumflexhookabove
N Zdot	N acircumflextilde
N Zdotaccent	N acute
N Zdotbelow	N acutebelowcmb
N Zecyrillic	N acutecmb
N Zedescendercyrillic	N acutecomb
N Zedieresiscyrillic	N acutedeva
N Zeta	N acutelowmod
N Zhearmanian	N acutetonecmb
N Zhebrevecyrillic	N acyrillic
N Zhecyrillic	N adblgrave
N Zhedescendercyrillic	N addakgurmukhi
N Zhedieresiscyrillic	N adeva
N Zlinebelow	N adieresis
N Zmonospace	N adieresiscyrillic
N Zstroke	N adieresismacron
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N aabengali	N adotmacron
N aacute	N ae
N aadeva	N aeacute
N aagujarati	N aekorean
N aagurmukhi	N aemacron
N aamatragurmukhi	N afii00208
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N aavowelsigndeva	N afii10018
N aavowelsigngujarati	N afii10019
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N abengali	N afii10022

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N afii57683	N agujarati
N afii57684	N agurmukhi
N afii57685	N ahiragana
N afii57686	N ahookabove
N afii57687	N aibengali
N afii57688	N aibopomofo
N afii57689	N aideva
N afii57690	N aiecyrillic
N afii57694	N aigujarati
N afii57695	N aigurmukhi
N afii57700	N aimatragurmukhi
N afii57705	N ainarabic
N afii57716	N ainfinalarabic
N afii57717	N aininitialarabic
N afii57718	N ainmedialarabic
N afii57723	N ainvertedbreve
N afii57793	N aivowelsignbengali
N afii57794	N aivowelsigndeva
N afii57795	N aivowelsigngujarati
N afii57796	N akatakana
N afii57797	N akatakanahalfwidth
N afii57798	N akorean
N afii57799	N alef
N afii57800	N alefarabic
N afii57801	N alefdageshhebrew
N afii57802	N aleffinalarabic
N afii57803	N alefhamzaabovearabic
N afii57804	N alefhamzaabovefinalarabic
N afii57806	N alefhamzabelowarabic

N alefhamzabelowfinalarabic	N approxequalorimage
N alefhebrew	N approximatelyequal
N aleflamedhebrew	N araeaekorean
N alefmaddaaboveearabic	N araeaakorean
N alefmaddaabovefinalarabic	N arc
N alefmaksuraarabic	N arighthalfring
N alefmaksurafinalarabic	N aring
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 angleright	N arrowleftdblstroke
N angstrom	N arrowleftoverright
N anoteleia	N arrowleftwhite
N anudattadeva	N arrowright
N anusvarabengali	N arrowrightdblstroke
N anusvaradeva	N arrowrightheavy
N anusvaragujarati	N arrowrightoverleft
N aogonek	N arrowrightwhite
N apaatosquare	N arrowtableft
N aparen	N arrowtabright
N apostrophearmenian	N arrowup
N apostrophemod	N arrowupdn
N apple	N arrowupdnbse
N approaches	N arrowupdownbase
N approxequal	N arrowupleft

N arrowupleftofdown	N badeva
N arrowupright	N bagujarati
N arrowupwhite	N bagurmukhi
N asciiicircum	N bahiragana
N asciiicircummonospace	N bahtthai
N asciiitilde	N bakatakana
N asciiitildemonospace	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 augurmukhi	N betdageshhebrew
N aulengthmarkbengali	N bethebrew
N aumatragurmukhi	N betrafehebrew
N auvowelsignbengali	N bhabengali
N auvowelsigndeva	N bhadeva
N auvowelsigngujarati	N bhagujarati
N avagrahadeva	N bhagurmukhi
N aybarmenian	N bhook
N ayin	N bihiragana
N ayinaltonehebrew	N bikatakana
N ayinhebrew	N bilabialclick
N b	N bindigurmukhi
N babengali	N birusquare
N backslash	N blackcircle
N backslashmonospace	N blackdiamond

N blackdownpointingtriangle	N breveinvertedbelowcmb
N blackleftpointingpointer	N breveinvertedcmb
N blackleftpointingtriangle	N breveinverteddoublecmb
N blacklenticularbracket	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 braceleft	N caronbelowcmb
N braceleftmonospace	N caroncmb
N braceleftsmall	N carriagereturn
N braceleftvertical	N cbopomofo
N braceright	N ccaron
N bracerightmonospace	N ccedilla
N bracerightsmall	N ccedillaacute
N bracerightvertical	N ccircle
N bracketleft	N cccircumflex
N bracketleftmonospace	N ccurl
N bracketright	N cdot
N bracketrightmonospace	N cdotaccent
N breve	N cdsquare
N brevebelowcmb	N cedilla
N brevecmb	N cedillacmb



N 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 commaaboverightcmb
N chieuchparenkorean	N commaarabic
N chochangthai	N commaarmenian
N chochanthai	N commamonospace
N chochingthai	N commareversedabovecmb
N chochoethai	N commareversedmod
N chook	N commasmall
N cieucacirclekorean	N commaturnedabovecmb
N cieucaparenkorean	N commaturnedmod
N cieuccirclekorean	N compass
N cieuckorean	N congruent
N cieucparenkorean	N contourintegral
N cieucuparenkorean	N control
N circle	N controlACK
N circlemultiply	N controlBEL
N circleot	N controlBS
N circleplus	N controlCAN
N circlepostalmark	N controlCR
N circlewithlefthalfblack	N controlDC1
N circlewithrighthalfblack	N controlDC2
N circumflex	N controlDC3
N circumflexbelowcmb	N controlDC4

N 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 dalethatafpatah
N controlSO	N dalethatafpatahhebrew
N controlSOT	N dalethatafsegol
N controlSTX	N dalethatafsegolhebrew
N controlSUB	N dalethebrew
N controlSYN	N dalethiriq
N controlUS	N dalethiriqhebrew
N controlVT	N daletholam
N copyright	N daletholamhebrew
N cornerbracketleft	N daletpatah
N cornerbracketlefthalfwidth	N daletpatahhebrew
N cornerbracketleftvertical	N daletqamats
N cornerbracketright	N daletqamatshebrew
N cornerbracketrighthalfwidth	N daletqubuts
N cornerbracketrightvertical	N daletqubutshebrew
N corporationsquare	N daletsegol
N cosquare	N daletsegolhebrew
N coverkgsquare	N daletsheva
N cparen	N daletshevahebrew
N cruzeiro	N dalettsere
N cstretched	N dalettserehebrew
N curlyand	N dalfinalarabic
N curlyor	N dammaarabic
N currency	N dammalowarabic
N d	N dammatanaltonearabic
N daarmenian	N dammatanarabic
N dabengali	N danda
N dadarabic	N dargahebrew
N dadeva	N dargalefthebrew

N dasiapneumatacyrilliccmb	N dekatakana
N dblanglebracketleft	N deleteteleft
N dblanglebracketleftvertical	N deleteright
N dblanglebracketright	N delta
N dblanglebracketrightvertical	N delteturned
N dblarchinvertedbelowcmb	N denominatorminusonenumeratorbengali
N dblarrowleft	N dezh
N dblarrowright	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 ddalfinalarabic	N dl-square
N dddhadeva	N dmacron
N ddhabengali	N dmonospace
N ddhadeva	N dnblock
N ddhagujarati	N dochadathai
N ddhagurmukhi	N dodekthai
N ddotaccent	N dohiragana
N ddotbelow	N dokatakana
N decimalseparatorarabic	N dollar
N decimalseparatorpersian	N dollarmonospace
N decyrillic	N dollarsmall
N degree	N dong
N dehihebrew	N dorusquare
N dehiragana	N dotaccent
N deicoptic	N dotaccentcmb

N dotbelowcmb	N ecircumflexhookabove
N dotbelowcomb	N ecircumflextilde
N dotkatakana	N ecyrillic
N dotlessi	N edblgrave
N dotlessj	N edeva
N dotlessjstrokehook	N edieresis
N dotmath	N edot
N dottedcircle	N edotaccent
N doubleyodpatah	N edotbelow
N doubleyodpatahhebrew	N eegurmukhi
N down tackbelowcmb	N eematragurmukhi
N down tackmod	N efcyrillic
N dparen	N egrave
N dtail	N egujarati
N dtopbar	N eharmenian
N duhiragana	N ehbopomofo
N dukatakana	N ehiragana
N dz	N ehookabove
N dzaltone	N eibopomofo
N dzcaron	N eight
N dzcurl	N eightarabic
N dzeabkhasiancyrillic	N eightbengali
N dzecyrillic	N eightcircle
N dzhecyrillic	N eightcircleinversesansserif
N e	N eightdeva
N eacute	N eighteencircle
N earth	N eighteenparen
N ebengali	N eighteenperiod
N ebopomofo	N eightgujarati
N ebreve	N eightgurmukhi
N ecandradeva	N eighthackarabic
N ecandragujarati	N eighthangzhou
N ecandravowelsigndeva	N eighthnotebeamed
N ecandravowelsigngujarati	N eightideographicparen
N ecaron	N eightinferior
N ecedillabreve	N eightmonospace
N echarmenian	N eightparen
N echyiwnarmenian	N eightperiod
N ecircle	N eightpersian
N ecircumflex	N eightroman
N ecircumflexacute	N eightsuperior
N ecircumflexbelow	N eightthai
N ecircumflexdotbelow	N einvertedbreve
N ecircumflexgrave	N eiotifiedcyrillic

N 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 enhookcyrillic	N eukorean
N enspace	N euro
N eogonek	N evowelsignbengali
N eokorean	N evowelsigndeva
N eopen	N evowelsigngujarati
N eopenclosed	N exclam
N eopenreversed	N exclamarmenian
N eopenreversedclosed	N exclamdbl
N eopenreversedhook	N exclamdown
N eparen	N exclammonospace
N epsilon	N existential
N epsilontonos	N ezh
N equal	N ezhcaron
N equalmonospace	N ezhcurl
N equalsmall	N ezhreversed

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 finalkafdagesh	N fongmanthai
N finalkafdageshhebrew	N forall
N finalkafhebrew	N four
N finalkafqamats	N fourarabic
N finalkafqamatshebrew	N fourbengali
N finalkafsheva	N fourcircle
N finalkafshevahebrew	N fourcircleinversesansserif
N finalmem	N fourdeva
N finalmemhebrew	N fourgujarati
N finalnun	N fourgurmukhi
N finalnunhebrew	N fourhackarabic
N finalpe	N fourhangzhou
N finalpehebrew	N fourideographicparen
N finaltsadi	N fourinferior
N finaltsadihebrew	N fourmonospace

N 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 gereshebrew  
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 glottalinvertedstroke  
N glottalstop  
N glottalstopinverted  
N glottalstopmod  
N glottalstopreversed  
N glottalstopreversedmod  
N glottalstopreversedsuperior  
N glottalstopstroke  
N glottalstopstroke reversed  
N gmacron  
N gmonospace  
N gohiragana  
N gokatakana  
N gparen

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 hatafqamatsshebrew
N h	N hatafqamatsnarrowhebrew
N haabkhasiancyrillic	N hatafqamatsquarterhebrew
N haaltonearabic	N hatafqamatswidehebrew
N habengali	N hatafsegol
N hadescendercyrillic	N hatafsegol17
N hadeva	N hatafsegol24
N hagujarati	N hatafsegol30
N hagurmukhi	N hatafsegolhebrew
N haharabic	N hatafsegolnarrowhebrew
N hahfinalarabic	N hatafsegolquarterhebrew
N hahinitialarabic	N hatafsegolwidehebrew
N hahiragana	N hbar
N hahmedialarabic	N hbopomofo
N haitusquare	N hbrevebelow
N hakatakana	N hcedilla
N hakatakanahalfwidth	N hcircle



N hcircumflex	N hiriq2d
N hdieresis	N hiriqhebrew
N hdotaccent	N hiriqnarrowhebrew
N hdotbelow	N hiriqquarterhebrew
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 hehaltonearabic	N hokatakana
N heharabic	N hokatakanahalfwidth
N hehebrew	N holam
N hehfinalaltonearabic	N holam19
N hehfinalalttwoarabic	N holam26
N hehfinalarabic	N holam32
N hehhamzaabovefinalarabic	N holamhebrew
N hehhamzaaboveisolatedarabic	N holamnarrowhebrew
N hehinitialaltonearabic	N holamquarterhebrew
N hehinitialarabic	N holamwidehebrew
N hehiragana	N honokhukthai
N hehmedialaltonearabic	N hookabovecmb
N hehmedialarabic	N hookcmb
N heiseierasquare	N hookpalatalizedbelowcmb
N hekatakana	N hookretroflexbelowcmb
N hekatakanahalfwidth	N hoonsquare
N hekutaarusquare	N horicoptic
N henghook	N horizontalbar
N herutusquare	N horncmb
N het	N hotsprings
N hethebrew	N house
N hhook	N hparen
N hhooksuperior	N hsuperior
N hieuhacirclekorean	N hturned
N hieuhaparenkorean	N huhiragana
N hieuhcirclekorean	N huiitosquare
N hieuhkorean	N hukatakana
N hieuhparenkorean	N hukatakanahalfwidth
N hihiragana	N hungarumlaut
N hikatakana	N hungarumlautcmb
N hikatakanahalfwidth	N hv
N hiriq	N hyphen
N hiriql4	N hyphenmonospace
N hiriq21	N hyphensmall

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 ideographichaveparen	N ieungcirclekorean
N ideographichighcircle	N ieungkorean
N ideographiciterationmark	N ieungparenkorean
N ideographiclaborcircle	N igrave
N ideographiclaborparen	N igujarati
N ideographicleftcircle	N igurmukhi
N ideographiclowcircle	N ihiragana
N ideographicmedicinecircle	N ihookabove
N ideographicmetalparen	N iibengali
N ideographicmoonparen	N iicyrillic
N ideographicnameparen	N iideva
N ideographicperiod	N iigujarati
N ideographicprintcircle	N iigurmukhi
N ideographicreachparen	N iimatragurmukhi
N ideographicrepresentparen	N iinvertedbreve

N iishortcyrillic	N itilde
N iivowelsignbengali	N itildebelow
N iivowelsigndeva	N iubopomofo
N iivowelsigngujarati	N iucyrillic
N ij	N ivowelsignbengali
N ikatakana	N ivowelsigndeva
N ikatakanahalfwidth	N ivowelsigngujarati
N ikorean	N izhitsacyrillic
N ilde	N izhitsadblgravecyrillic
N iluyhebrew	N j
N imacron	N jaarmenian
N imacroncyrillic	N jabengali
N imageorapproximatelyequal	N jadeva
N imatragurmukhi	N jagujarati
N imonospace	N jagurmukhi
N increment	N jbopomofo
N infinity	N jcaron
N iniarmenian	N jcircle
N integral	N jcircumflex
N integralbottom	N jcrosseddtail
N integralbt	N jdotlessstroke
N integraltop	N jecyrillic
N integraltop	N jeemarabic
N intersection	N jeemfinalarabic
N intisquare	N jeeminitialarabic
N invbullet	N jeemmedialarabic
N invcircle	N jeharabic
N invsmileface	N jehfinalarabic
N iocyrillic	N jhabengali
N iogonek	N jhadeva
N iota	N jhagujarati
N iotadieresis	N jhagurmukhi
N iotadieresis-tonos	N jheharmenian
N iotalatin	N jis
N iotatonos	N jmonospace
N iparen	N jparen
N irigurmukhi	N jsuperior
N ismallhiragana	N k
N ismallkatakana	N kabashkircyrillic
N ismallkatakanahalfwidth	N kabengali
N issharbengali	N kacute
N istroke	N kacyrillic
N iterationhiragana	N kadescendercyrillic
N iterationkatakana	N kadeva

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 khhadeva
N kahookcyrillic	N khhagurmukhi
N kakatakana	N khieukhacirclekorean
N kakatakanahalfwidth	N khieukhaparenkorean
N kappa	N khieukhcirclekorean
N kappasymbolgreek	N khieukhkorean
N kapyeounmieumkorean	N khieukhparenkorean
N kapyeounphieuphkorean	N khokhathai
N kapyeounpieupkorean	N khokhonthai
N kapyeounssangpieupkorean	N khokhuatthai
N karoriisquare	N khokhwaithai
N kashidaaautoarabic	N khomutthai
N kashidaaautosidebearingarabic	N khook
N kasmallkatakana	N khorakhangthai
N kasquare	N khzsquare
N kasraarabic	N kihiragana
N kasratanarabic	N kikatakana
N kastrokecyrillic	N kikatakanahalfwidth
N katahiraprolongmarkhalfwidth	N kioguramusquare
N kavericalstrokecyrillic	N kiromeetorusquare
N kbopomofo	N kirosquare
N kcalsquare	N kiyeokacirclekorean
N kcaron	N kiyeokaparenkorean
N kcedilla	N kiyeokcirclekorean
N kcircle	N kiyeokkorean
N kcommaaccent	N kiyeokparenkorean
N kdotbelow	N kiyeoksioskorean
N keharmerian	N kjecyrillic
N kehiragana	N klinebelow
N kekatakana	N klsquare
N kekatakanahalfwidth	N kmcubedsquare
N kenarmenian	N kmonospace
N kesmallkatakana	N kmsquaredsquare

N 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 lakkhangyaotai	N leftangleabovecmb
N lamaleffinalarabic	N lefttackbelowcmb
N lamalefhamzaabovfinalarabic	N less
N lamalefhamzaaboveisolatedarabic	N lessequal
N lamalefhamzabelowfinalarabic	N lessequalorgreater
N lamalefhamzabelowisolatedarabic	N lessmonospace
N lamalefisolatedarabic	N lessorequivalent
N lamalefmaddaabovefinalarabic	N lessorgreater
N lamalefmaddaaboveisolatedarabic	N lessorequal
N lamarabic	N lesssmall
N lambda	N lezh
N lambdastroke	N lfblock
N lamed	N lhookretroflex
N lameddagesh	N lira
N lameddageshhebrew	N liwnarmenian
N lamedhebrew	N lj
N lamedholam	N ljecyrillic
N lamedholamdagesh	N lladeva
N lamedholamdageshhebrew	N llagujarati

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

N middot	N mugsquare
N mieumacirclekorean	N muhiragana
N mieumaparenkorean	N mukatakana
N mieumcirclekorean	N mukatakanahalfwidth
N mieumkorean	N mulsquare
N mieumpansioskorean	N multiply
N mieumparenkorean	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 molsquare	N nakatakanahalfwidth
N momathai	N napostrophe
N moverssquare	N nasquare
N moverssquaredsquare	N nbopomofo
N mparen	N nbspace
N mpasquare	N ncaron
N mssquare	N ncedilla
N mturned	N ncircle
N mu	N ncircumflexbelow
N mul	N ncommaaccent
N muasquare	N ndotaccent
N muchgreater	N ndotbelow
N muchless	N nehiragana
N mufsquare	N nekatakana
N mugreek	N nekatakanahalfwidth

N newsheqelsign	N nineteenperiod
N nfsquare	N ninethai
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 nmsquare
N nieunacirclekorean	N nnabengali
N nieunaparenkorean	N nnadeva
N nieuncieuckorean	N nnagujarati
N nieuncirclekorean	N nnagurmukhi
N nieunhieuhkorean	N nnnadeva
N nieunkorean	N nohiragana
N nieunpansioskorean	N nokatakana
N nieunparenkorean	N nokatakanahalfwidth
N nieunsioskorean	N nonbreakingspace
N nieuntikeutkorean	N nonenthai
N nihiragana	N nonuthai
N nikatakana	N noonarabic
N nikatakanahalfwidth	N noonfinalarabic
N nikhahitthai	N noonghunnaarabic
N nine	N noonghunnafinalarabic
N ninearabic	N noonhehinitialarabic
N ninebengali	N nooninitialarabic
N ninecircle	N noonjeeminitialarabic
N ninecircleinversesansserif	N noonjeemisolatedarabic
N ninedeva	N noonmedialarabic
N ninegujarati	N noonmeeminitialarabic
N ninegurmukhi	N noonmeemisolatedarabic
N ninehackarabic	N noonnoonfinalarabic
N ninehangzhou	N notcontains
N nineideographicparen	N notelement
N nineinferior	N notelementof
N ninemonospace	N notequal
N nineparen	N notgreater
N nineperiod	N notgreaternorequal
N ninepersian	N notgreaternorless
N nineroman	N notidentical
N ninesuperior	N notless
N nineteencircle	N notlessnorequal
N nineteenparen	N notparallel



N 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 nukdadeva	N odieresis
N nuktagujarati	N odieresiscyrillic
N nuktagurmukhi	N odotbelow
N numbersign	N oe
N numbersignmonospace	N oekorean
N numbersignsmall	N ogonek
N numeralsigngreek	N ogonekcmb
N numeralsignlowergreek	N ograve
N numero	N ogujarati
N nun	N oharmenian
N nundagesh	N ohiragana
N nundageshhebrew	N ohookabove
N nunhebrew	N ohorn
N nvsquare	N ohornacute
N nwsquare	N ohorndotbelow
N nyabengali	N ohorngrave
N nyadeva	N ohornhookabove
N nyagujarati	N ohorntilde
N nyagurmukhi	N ohungarumlaut
N o	N oi
N oacute	N oinvertedbreve
N oangthai	N okatakana
N obarred	N okatakanahalfwidth
N obarredcyrillic	N okorean
N obarreddieresiscyrillic	N olehebrew
N obengali	N omacron
N obopomofo	N omacronacute
N obreve	N omacrongrave
N ocandradeva	N omdeva
N ocandragujarati	N omega

N 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 onepersian	N pacute
N onequarter	N padeva
N oneroman	N pagedown
N onesuperior	N pageup
N onethai	N pagujarati
N onethird	N pagurmukhi
N oogonek	N pahiragana
N oogonekmacron	N paiyannoithai
N oogurmukhi	N pakatakana
N oomatragurmukhi	N palatalizationcyrilliccmb
N oopen	N palochkacyrillic
N oparen	N pansioskorean
N openbullet	N paragraph
N option	N parallel
N ordfeminine	N parenleft

N parenleftalttonearabic	N perafehebrew
N parenleftinferior	N percent
N parenleftmonospace	N percentarabic
N parenleftsmall	N percentmonospace
N parenleftsuperior	N percentsmall
N parenleftvertical	N period
N parenright	N periodarmenian
N parenrightalttonearabic	N periodcentered
N parenrightinferior	N periodhalfwidth
N parenrightmonospace	N periodmonospace
N parenrightsmall	N periodsmall
N parenrightsuperior	N perispomenigreekcmb
N parenrightvertical	N perpendicular
N partialdiff	N perthousand
N paseqhebrew	N peseta
N pashtahebrew	N pfsquare
N pasquare	N phabengali
N patah	N phadeva
N patahl1	N phagujarati
N patahl1d	N phagurmukhi
N patah2a	N phi
N patahhebrew	N phil
N patahnarrowhebrew	N phieuphacirclekorean
N patahquarterhebrew	N phieuphaparenkorean
N patahwidehebrew	N phieuphcirclekorean
N pazerhebrew	N phieuphkorean
N pbopomofo	N phieuphparenkorean
N pcircle	N philatin
N pdotaccent	N phinhuthai
N pe	N phisymbolgreek
N pecyrillic	N phook
N pedagesh	N phophanthai
N pedageshhebrew	N phophungthai
N peezisquare	N phosamphaothai
N pefinaldageshhebrew	N pi
N peharabic	N pieupacirclekorean
N peharmenian	N pieupaparenkorean
N pehebrew	N pieupcieuckorean
N pehfinalarabic	N pieupcirclekorean
N pehinitialarabic	N pieupkiyeokkorean
N pehiragana	N pieupkorean
N pehmedialarabic	N pieupparenkorean
N pekatakana	N pieupsioskiyeokkorean
N pemiddlehookcyrillic	N pieupsioskorean

N pieupsioستikeutkorean  
 N pieupthieuthkorean  
 N pieuptikeutkorean  
 N pihiragana  
 N pikatakana  
 N pisymbolgreek  
 N piwrarmenian  
 N plus  
 N plusbelowcmb  
 N pluscircle  
 N plusminus  
 N plusmod  
 N plusmonospace  
 N plussmall  
 N plussuperior  
 N pmonospace  
 N pmsquare  
 N pohiragana  
 N pointingindexdownwhite  
 N pointingindexleftwhite  
 N pointingindexrightwhite  
 N pointingindexupwhite  
 N pokatakana  
 N poplathai  
 N postalmark  
 N postalmarkface  
 N pparen  
 N precedes  
 N prescription  
 N primemod  
 N primereversed  
 N product  
 N projective  
 N prolongedkana  
 N propellor  
 N propersubset  
 N propersuperset  
 N proportion  
 N proportional  
 N psi  
 N psicyrillic  
 N psilipneumatacyrilliccmb  
 N pssquare  
 N puhiragana

N pukatakana  
 N pvsquare  
 N pwsquare  
 N q  
 N qadeva  
 N qadmahebrew  
 N qafarabic  
 N qaffinalarabic  
 N qafinitialarabic  
 N qafmedialarabic  
 N qamats  
 N qamats10  
 N qamats1a  
 N qamats1c  
 N qamats27  
 N qamats29  
 N qamats33  
 N qamatsde  
 N qamatshebrew  
 N qamatsnarrowhebrew  
 N qamatsqatanhebrew  
 N qamatsqatanarrowhebrew  
 N qamatsqatanquarterhebrew  
 N qamatsqatanwidehebrew  
 N qamatsquarterhebrew  
 N qamatswidehebrew  
 N qarneyparahebrew  
 N qbopomofo  
 N qcircle  
 N qhook  
 N qmonospace  
 N qof  
 N qofdagesh  
 N qofdageshhebrew  
 N qofhatafpatah  
 N qofhatafpatahhebrew  
 N qofhatafsegol  
 N qofhatafsegolhebrew  
 N qofhebrew  
 N qofhiriq  
 N qofhiriqhebrew  
 N qofholam  
 N qofholamhebrew  
 N qofpatah

N qofpatahhebrew	N rabengali
N qofqamats	N racute
N qofqamatshebrew	N radeva
N qofqubuts	N radical
N qofqubutshhebrew	N radoverssquare
N qofsego1	N radoverssquaresquare
N qofsego1hebrew	N radsquare
N qofsheva	N rafe
N qofshevahebrew	N rafehebrew
N qoftsere	N ragujarati
N qoftserehebrew	N ragurmukhi
N qpren	N rahiragana
N quarternote	N rakatakana
N qubuts	N rakatakanahalfwidth
N qubuts18	N ralowerdiagonalbengali
N qubuts25	N ramiddlediagonalbengali
N qubuts31	N ramshorn
N qubutshhebrew	N ratio
N qubutsnarrowhebrew	N rbopomofo
N qubutsquaterhebrew	N rcaron
N qubutswidehebrew	N rcedilla
N question	N rcircle
N questionarabic	N rcommaaccent
N questionarmenian	N rdblgrave
N questiondown	N rdotaccent
N questiongreek	N rdotbelow
N questionmonospace	N rdotbelowmacron
N quotedbl	N referencemark
N quotedblbase	N reflexsubset
N quotedblleft	N reflexsuperset
N quotedblmonospace	N registered
N quotedblprime	N reharabic
N quotedblprimereversed	N reharmenian
N quotedblright	N rehfinalarabic
N quoteleft	N rehiragana
N quoteleftreversed	N rehyehaleflamarabic
N quotereversed	N rekatakana
N quoteright	N rekatakanahalfwidth
N quoterightn	N resh
N quotesinglbase	N reshdageshhebrew
N quotesingle	N reshhatafpatah
N quotesinglemonospace	N reshhatafpatahhebrew
N r	N reshhatafsego1
N raarmenian	N reshhatafsego1hebrew

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 rhosymbolgreek	N roruathai
N rhotichookmod	N rparen
N rieulacirclekorean	N rrabengali
N rieulaparenkorean	N rradeva
N rieulcirclekorean	N rragurmukhi
N rieulhieuhkorean	N rreharabic
N rieulkiyeokkorean	N rrehfinalarabic
N rieulkiyeoksioskorean	N rrvocalicbengali
N rieulkorean	N rrvocalicdeva
N rieulmieumkorean	N rrvocalicgujarati
N rieulpansioskorean	N rrvocalicvowelsignbengali
N rieulparenkorean	N rrvocalicvowelsigndeva
N rieulphieuphkorean	N rrvocalicvowelsigngujarati
N rieulpieupkorean	N rtblock
N rieulpieupsioskorean	N rturned

N 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 rvocalicbengali	N schwacyrillic
N rvocalicdeva	N schwadiesiscyrillic
N rvocalicgujarati	N schwahook
N rvocalicvowelsignbengali	N scircle
N rvocalicvowelsigndeva	N scircumflex
N rvocalicvowelsigngujarati	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 segoll3
N sakatakanahalfwidth	N segollf
N sallallahoualayhewasallamarabic	N segol2c
N samekh	N segolhebrew
N samekhdagesh	N segolnarrowhebrew
N samekhdageshhebrew	N segolquarterhebrew
N samekhhebrew	N segoltahebrew
N saraaathai	N segolwidehebrew
N saraaethai	N seharmerian
N saraaimaimalaithai	N sehiragana
N saraaimaimuanthai	N sekatakana
N saraamthai	N sekatakanahalfwidth
N saraathai	N semicolon
N saraethai	N semicolonarabic
N saraiithai	N semicolonmonospace
N saraithai	N semicolonsmall
N saraothai	N semivoicedmarkkana
N saraueethai	N semivoicedmarkkanahalfwidth
N sarauethai	N sentisquare

N sentosquare	N shchacyrillic
N seven	N sheenarabic
N sevenarabic	N sheenfinalarabic
N sevenbengali	N sheeninitialarabic
N sevenscircle	N sheenmedialarabic
N sevenscircleinversesansserif	N sheicoptic
N sevendeve	N sheqel
N seveneighths	N sheqelhebrew
N sevengujarati	N sheva
N sevengurmukhi	N sheva115
N sevenhackarabic	N sheva15
N sevenhangzhou	N sheva22
N sevenideographicparen	N sheva2e
N seveninferior	N shevahebrew
N sevenmonospace	N shevanarrowhebrew
N sevenparen	N shevaquarterhebrew
N sevenperiod	N shevawidehebrew
N sevenpersian	N shhacyrillic
N sevenroman	N shimacoptic
N sevensuperior	N shin
N seventeencircle	N shindagesh
N seventeenparen	N shindageshhebrew
N seventeenperiod	N shindageshshindot
N seventhai	N shindageshshindothebrew
N sfthyphen	N shindageshsindot
N shaarmenian	N shindageshsindothebrew
N shabengali	N shindothebrew
N shacyrillic	N shinhebrew
N shaddaarabic	N shinshindot
N shaddadammaarabic	N shinshindothebrew
N shaddadammatanarabic	N shinsindot
N shaddafathaarabic	N shinsindothebrew
N shaddafathatanarabic	N shook
N shaddakasraarabic	N sigma
N shaddakasratanarabic	N sigma1
N shade	N sigmafinal
N shadeddark	N sigmalunatesymbolgreek
N shadelight	N sihiragana
N shademedium	N sikatakana
N shadeva	N sikatakanahalfwidth
N shagujarati	N siluqhebrew
N shagurmukhi	N siluqlefthebrew
N shalshethebrew	N similar
N shbopomofo	N sindothebrew



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 spadesuitblack
N sixarabic	N spadesuitwhite
N sixbengali	N sparen
N sixcircle	N squarebelowcmb
N sixcircleinversesansserif	N squareecc
N sixdeva	N squareecm
N sixgujarati	N squarediagonalcrosshatchfill
N sixgurmukhi	N squarehorizontalfill
N sixhackarabic	N squarekg
N sixhangzhou	N squarekm
N sixideographicparen	N squarekmcapital
N sixinferior	N squareln
N sixmonospace	N squarelog
N sixparen	N squaremg
N sixperiod	N squaremil
N sixpersian	N squaremm
N sixroman	N squaremsquared
N sixsuperior	N squareorthogonalcrosshatchfill
N sixteencircle	N squareupperlefttolowerrightfill
N sixteencurrencydenominatorbengali	N squareupperrighttolowerleftfill
N sixteenparen	N squareverticalfill
N sixteenperiod	N squarewhitewithsmallblack
N sixthai	N srsquare
N slash	N ssabengali
N slashmonospace	N ssadeva
N slong	N ssagujarati
N slongdotaccent	N ssangcieuckorean
N smileface	N ssanghieuhkorean
N smonospace	N ssangieungkorean
N sofpassuqhebrew	N ssangkiyeokkorean
N softthyphen	N ssangnieunkorean
N softsigncyrillic	N ssangpieupkorean
N sohiragana	N ssangsioskorean
N sokatakana	N ssangtikeutkorean

N sterling  
N sterlingmonospace  
N strokelongoverlaycmb  
N strokeshortoverlaycmb  
N subset  
N subsetnotequal  
N subsetorequal  
N succeeds  
N suchthat  
N suhiragana  
N sukatakana  
N sukatakanahalfwidth  
N sukunarabic  
N summation  
N sun  
N superset  
N supersetnotequal  
N supersetorequal  
N svsquare  
N syouwaerasquare  
N t  
N tabengali  
N tackdown  
N tackleft  
N tadeva  
N tagujarati  
N tagurmukhi  
N taharabic  
N tahfinalarabic  
N tahinitialarabic  
N tahiragana  
N tahmedialarabic  
N taisyouerasquare  
N takatakana  
N takatakanahalfwidth  
N tatweelarabic  
N tau  
N tav  
N tavgages  
N tavgagesh  
N tavgageshhebrew  
N tavhebrew  
N tbar  
N tbopomofo

N tcaron  
N tccurl  
N tcedilla  
N tcheharabic  
N tchehfinalarabic  
N tchehinitialarabic  
N tchehmedialarabic  
N tchehmeeminitialarabic  
N tcircle  
N tcircumflexbelow  
N tcommaaccent  
N tdieresis  
N tdotaccent  
N tdotbelow  
N tecyrillic  
N tedescendercyrillic  
N teharabic  
N tehfinalarabic  
N tehhahinitialarabic  
N tehhahisolatedarabic  
N tehinitialarabic  
N tehiragana  
N tehjeeminitialarabic  
N tehjeemisolatedarabic  
N tehmarbutaarabic  
N tehmarbutafinalarabic  
N tehmedialarabic  
N tehmeeminitialarabic  
N tehmeemisolatedarabic  
N tehnoonfinalarabic  
N tekatakana  
N tekatakanahalfwidth  
N telephone  
N telephoneblack  
N telishagedolahebrew  
N telishaqetanahebrew  
N tencircle  
N tenideographicparen  
N tenparen  
N tenperiod  
N tenroman  
N tesh  
N tet  
N tetdagesh

N tetdageshhebrew	N threecircleinversesansserif
N tethebrew	N threedeva
N tetsecyrillic	N threeeighths
N tevirhebrew	N threegujarati
N tevirlefthebrew	N threegurmukhi
N thabengali	N threehackarabic
N thadeva	N threehangzhou
N thagujarati	N threeideographicparen
N thagurmukhi	N threeinferior
N thalarabic	N threemonospace
N thalfinalarabic	N threenumeratorbengali
N thanthakhatthai	N threeparen
N theharabic	N threepreperiod
N thehfinalarabic	N threepersian
N thehinitialarabic	N threequarters
N thehmedialarabic	N threeroman
N thereexists	N threesuperior
N therefore	N threethai
N theta	N thzsquare
N thetal	N tihiragana
N thetasymbolgreek	N tikatakana
N thieuthacirclekorean	N tikatakanahalfwidth
N thieuthaparenkorean	N tikeutacirclekorean
N thieuthcirclekorean	N tikeutaparenkorean
N thieuthkorean	N tikeutcirclekorean
N thieuthparenkorean	N tikeutkorean
N thirteencircle	N tikeutparenkorean
N thirteenparen	N tilde
N thirteenperiod	N tildebelowcmb
N thonangmonthothai	N tildecmb
N thook	N tildecomb
N thophuthaothai	N tildedoublecmb
N thorn	N tildeoperator
N thothahanthai	N tildeoverlaycmb
N thothanthai	N tildeverticalcmb
N thothongthai	N timescircle
N thothungthai	N tipehahebrew
N thousandscyrillic	N tipehalefthebrew
N thousandsseparatorarabic	N tippigurmukhi
N thousandsseparatorpersian	N titlocyrilliccmb
N three	N tiwnarmenian
N threearabic	N tlinebelow
N threebengali	N tmonospace
N threecircle	N toarmenian

N tohiragana	N ttabengali
N tokatakana	N ttadeva
N tokatakanahalfwidth	N ttagujarati
N tonebarextrahighmod	N ttagurmukhi
N tonebarextralowmod	N tteharabic
N tonebarhighmod	N ttefinalarabic
N tonebarlowmod	N tteinitialarabic
N tonebarmidmod	N ttehdialarabic
N tonefive	N tthabengali
N tonesix	N tthadeva
N tonetwo	N tthagujarati
N tonos	N tthagurmukhi
N tonsquare	N tturned
N topatakthai	N tuhiragana
N tortoiseshellbracketleft	N tukatakana
N tortoiseshellbracketleftsmall	N tukatakanahalfwidth
N tortoiseshellbracketleftvertical	N tusmallhiragana
N tortoiseshellbracketright	N tusmallkatakana
N tortoiseshellbracketrightsmall	N tusmallkatakanahalfwidth
N tortoiseshellbracketrightvertical	N twelvecircle
N totaothai	N twelveparen
N tpalatalhook	N twelveperiod
N tparen	N twelveroman
N trademark	N twentycircle
N retroflexhook	N twentyparen
N triagdn	N twentyperiod
N triaglf	N two
N triagrt	N twoarabic
N triagup	N twobengali
N ts	N twocircle
N tsadi	N twocircleinversesansserif
N tsadidagesh	N twodeva
N tsadidageshhebrew	N twodotenleader
N tsadihebrew	N twodotleader
N tsecyrillic	N twodotleadervarical
N tsere	N twogujarati
N tsere12	N twogurmukhi
N tsere1e	N twohackarabic
N tsere2b	N twohangzhou
N tserehebrew	N twoideographicparen
N tsere narrowhebrew	N twoinferior
N tserequarterhebrew	N twomonospace
N tsere widehebrew	N twonumeratorbengali
N tsecyrillic	N twoparen

N twoperiod	N ukatakana
N twopersian	N ukatakanahalfwidth
N tworoman	N ukcyrillic
N twostroke	N ukorean
N twosuperior	N umacron
N twothai	N umacroncyrillic
N twothirds	N umacrondieresis
N u	N umatragurmukhi
N uacute	N umonospace
N ubar	N underscore
N ubengali	N underscoredbl
N ubopomofo	N underscoremonospace
N ubreve	N underscorevertical
N ucaron	N underscorewavy
N ucircle	N union
N ucircumflex	N universal
N ucircumflexbelow	N uogonek
N ucyrillic	N uparen
N udattadeva	N upblock
N udblacute	N upperdothebrew
N udblgrave	N upsilon
N udeva	N upsilondieresis
N udieresis	N upsilondieresis-tonos
N udieresisacute	N upsilonlatin
N udieresisbelow	N upsilontonos
N udieresiscaron	N uptackbelowcmb
N udieresiscyrillic	N uptackmod
N udieresisgrave	N uragurmukhi
N udieresismacron	N uring
N udotbelow	N ushortcyrillic
N ugrave	N usmallhiragana
N ugujarati	N usmallkatakana
N ugurmukhi	N usmallkatakanahalfwidth
N uhiragana	N ustraightcyrillic
N uhookabove	N ustraightstrokecyrillic
N uhorn	N utilde
N uhornacute	N utildeacute
N uhorndotbelow	N utildebelow
N uhorngrave	N uubengali
N uhornhookabove	N uudeva
N uhorntilde	N uugujarati
N uhungarumlaut	N uugurmukhi
N uhungarumlautcyrillic	N uumatragurmukhi
N uinvertedbreve	N uuvowelsignbengali

N uuvowelsigndeva	N voicediterationhiragana
N uuvowelsigngujarati	N voicediterationkatakana
N uvowelsignbengali	N voicedmarkkana
N uvowelsigndeva	N voicedmarkkanahalfwidth
N uvowelsigngujarati	N vokatakana
N v	N vparen
N vadeva	N vtilde
N vagujarati	N vturned
N vagurmukhi	N vuhiragana
N vakatakana	N vukatakana
N vav	N w
N vavdagesh	N wacute
N vavdagesh65	N waekorean
N vavdageshhebrew	N wahiragana
N vavhebrew	N wakatakana
N vavholam	N wakatakanahalfwidth
N vavholamhebrew	N wakorean
N vavvavhebrew	N wasmallhiragana
N vavyodhebrew	N wasmallkatakana
N vcircle	N wattosquare
N vdotbelow	N wavedash
N vecyrillic	N wavyunderscorevertical
N veharabic	N wawarabic
N vehfinalarabic	N wawfinalarabic
N vehinitialarabic	N wawhamzaabovearabic
N vehmedialarabic	N wawhamzaabovefinalarabic
N vekatakana	N wbsquare
N venus	N wcircle
N verticalbar	N wcircumflex
N verticallineabovecmb	N wdieresis
N verticallinebelowcmb	N wdotaccent
N verticallinelowmod	N wdotbelow
N verticallinemode	N wehiragana
N vewarmenian	N weierstrass
N vhook	N wekatakana
N vikatakana	N wekorean
N viramabengali	N weokorean
N viramadeva	N wgrave
N viramagujarati	N whitebullet
N visargabengali	N whitecircle
N visargadeva	N whitecircleinverse
N visargagujarati	N whitecornerbracketleft
N vmonospace	N whitecornerbracketleftvertical
N voarmenian	N whitecornerbracketright

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

N yerahbenyomolefthebrew  
 N yericyrillic  
 N yerudieresiscyrillic  
 N yesieungkorean  
 N yesieungpansioskorean  
 N yesieungsioskorean  
 N yetivhebrew  
 N ygrave  
 N yhook  
 N yhookabove  
 N yiarmenian  
 N yicyrillic  
 N yikorean  
 N yinyang  
 N yiwnarmenian  
 N ymonospace  
 N yod  
 N yoddagesh  
 N yoddageshhebrew  
 N yodhebrew  
 N yodyodhebrew  
 N yodyodpatahhebrew  
 N yohiragana  
 N yoikorean  
 N yokatakana  
 N yokatakanahalfwidth  
 N yokorean  
 N yosmallhiragana  
 N yosmallkatakana  
 N yosmallkatakanahalfwidth  
 N yotgreek  
 N yoyaekorean  
 N yoyakorean  
 N yoyakthai  
 N yoyingthai  
 N yparen  
 N ypogegrammeni  
 N ypogegrammenigreekcmb  
 N yr  
 N yring  
 N ysuperior  
 N ytilde  
 N yturned  
 N yuhiragana

N yuikorean  
 N yukatakana  
 N yukatakanahalfwidth  
 N yukorean  
 N yusbigcyrillic  
 N yusbigiotifiedcyrillic  
 N yuslittlecyrillic  
 N yuslittleiotifiedcyrillic  
 N yusmallhiragana  
 N yusmallkatakana  
 N yusmallkatakanahalfwidth  
 N yuyekorean  
 N yuyeokorean  
 N yyabengali  
 N yyadeva  
 N z  
 N zaarmenian  
 N zacute  
 N zadeva  
 N zagurmukhi  
 N zaharabic  
 N zahfinalarabic  
 N zahinitialarabic  
 N zahiragana  
 N zahmedialarabic  
 N zainarabic  
 N zainfinalarabic  
 N zakatakana  
 N zaqefgadolhebrew  
 N zaqefqatanhebrew  
 N zarqahebrew  
 N zayin  
 N zayindagesh  
 N zayindageshhebrew  
 N zayinhebrew  
 N zbopomofo  
 N zcaron  
 N zcircle  
 N zcircumflex  
 N zcurl  
 N zdot  
 N zdotaccent  
 N zdotbelow  
 N zecyrillic



N zedescendercyrillic	
N zedieresiscyrillic	
N zehiragana	
N zekatakana	
N zero	
N zeroarabic	
N zerobengali	
N zerodeva	
N zerogujarati	
N zerogurmukhi	
N zerohackarabic	
N zeroinferior	
N zeromonospace	
N zeropersian	
N zerosuperior	
N zerothai	
N zerowidthjoiner	
N zerowidthnonjoiner	
N zerowidthspace	
N zeta	
N zhbopomofo	
N zhearmenian	
N zhebrevecyrillic	
N zhecyrillic	
N zhedescendercyrillic	
N zhedieresiscyrillic	
N zihiragana	
N zikatakana	
N zinorhebrew	
N zlinebelow	
N zmonospace	
N zohiragana	
N zokatakana	
N zparen	
N zretroflexhook	
N zstroke	
N zuhiragana	
N zukatakana	
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<b>getdiscexpansion</b>	function

<b>getkern</b>	function
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F getcompositions	
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F load	
F prepare_features	
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D dynamics		<b>loggers</b>	table
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F addprivate		F maxbounds	
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F indextoslot		<b>names</b>	data table
F name		<b>nulldata</b>	data table
F nametoslot		<b>protrusions</b>	data table
F setdigitwidth		<b>readers</b>	table
F splitfontpattern		F afm	
F tochar		F check_lua	
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F characters		F ofm	
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F otf		S sc
F pfb		T ss
D sequence		T features
F tfm		S sc
F ttc		T texgyrebonummath
F ttf		T options
F woff		S extras
<b>reserveid</b>	<b>function</b>	S features
<b>select</b>	<b>table</b>	T texgyredejavumath
T alternatives		T options
F bodyfont		S extras
T data		S features
F default		T texgyrepagellamath
T defaults		T options
T asanamath		S extras
T options		S features
S extras		T texgyrescholamath
S features		T options
S goodies		S extras
T cambriamath		S features
T options		T texgyretermesmath
S extras		T options
S features		S extras
S goodies		S features
T dejavumath		T xitsmath
T options		T options
S extras		S extras
S features		S features
T latinmodernmath		S goodies
T options		F definefallbackfamily
S extras		F definefontfamily
S features		F definefontfamilypreset
S goodies		T extras
T lucidabrightmathot		F features
T options		F goodies
S extras		F fallback
S features		T fallbacks
S goodies		F features
T neoeuler		F filefallback
T options		F fontdata
S extras		F fontfallback
S features		F fontsynonym
T rm		F goodies
T features		F mathfallback

T methods		F mergecontext	
F default		F presetcontext	
F file		F registercontext	
F name		F showcontext	
F style		F splitcontext	
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F registerfallback		D variants	
F registerfiles		<b>symbols</b>	table
F registerfontalternative		F uselibrary	
F registerfontfamily		<b>tables</b>	table
F textfallback		D data	
F typeface		F savefont	
F typescript		F saveoriginal	
F userdata		<b>tracers</b>	table
<b>setdiscexpansion</b>	function	<b>treatments</b>	table
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D contextmerged		D data	
F contextnumber		S filename	
D contextnumbers		F ignoredfile	
D contextsetups		F report	
F contexttostring		F trace	
F definecontext		<b>typefaces</b>	table

# functions (context)

**dummy** function

# graphics (context)

## backgrounds table

F calculatemultipar

F fetchmultipar

F pair

F path

F point

## gzip (extra lua)

**close**    function  
**lines**    function  
**load**    function

**open**    function  
**save**    function  
**suffix** function

## img (basic tex)

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

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



# interactions (context)

**attachments** data table

**fields** table

F clone

F define

F defineset

F insert

**general** table

F getidentity

F setupidentity

**help** table

F collect

F reference

F register

**javascripts** table

F addtopreamble

F code

D codes

F flushpreambles

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

**linkedList** data table

**pages** table

F setpagetransition

F setupcanvas

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F setcloseddocument

F setclosepage

F setopendocument

F setopenpage

**renderings** data table

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# interfaces (context)

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

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

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

F disablestream	F doifelserangeonpage
F disabletrackers	F doifelserreference
F discardfromlist	F doifelserighttoleftinbox
F doanalyzeframedbox	F doifelsesame
F doifcommon	F doifelsestackedfloats
F doifcounter	F doifelsesynonymshown
F doifelseblack	F doifelsesynonymused
F doifelsebuffer	F doifelseurldefined
F doifelsecharinfont	F doifelseutfmathabove
F doifelsecommon	F doifelseutfmathaccent
F doifelsecontinuewithfile	F doifelseutfmathbelow
F doifelseconverter	F doifelseutfmathfiller
F doifelsecounter	F doifelsevisualizer
F doifelsecurrentfonthasfeature	F doiffieldsetelse
F doifelsedrawingblack	F doifinset
F doifelsefieldcategory	F doifnotcommon
F doifelsefiledefined	F doifnotcounter
F doifelsefileexist	F doifnotecontent
F doifelsefirstchar	F doifnoteonsamepagesprevious
F doifelsefontpresent	F doifnotinset
F doifelseinelement	F doifnotsame
F doifelseinputfile	F doifposition
F doifelseinset	F doifsame
F doifelseintwopassdata	F doprocesstypescriptfile
F doifelseleapyear	F doreshapeframedbox
F doifselisthasentry	F dosaveposition
F doifselisthasnumber	F dosavepositionplus
F doifselisthaspage	F dosavepositionwhd
F doifselisthastitle	F dosetposition
F doifselocfile	F dosetpositionbox
F doifelsemarking	F dosetpositionplus
F doifelsemessage	F dosetpositionstrut
F doifelseobject	F dosetpositionwhd
F doifelseobjectreference	F dostarttextfile
F doifelseolderversion	F dostoptextfile
F doifelseoverlapping	F elapsedtime
F doifelseparallel	F enableasciimode
F doifelseparentfile	F enableautofences
F doifelsepathexist	F enableautofontscript
F doifelseposition	F enablebackgroundalign
F doifelsepositiononpage	F enablebackgroundboxes
F doifelsepositionsonsamepage	F enablecolor
F doifelsepositionsonthispage	F enablecolorintents
F doifelsepositionsused	F enablecrlf

F enabledirectives	F figure_mergegoodies
F enableexperiments	F figure_nof_registered_pages
F enablefontcolorsschemes	F figure_pop
F enableinteraction	F figure_push
F enablelinefillers	F figure_register_page
F enableparbuilder	F figure_reset
F enableregime	F figure_scale
F enablerules	F figurefilename
F enableshifts	F figurefilepath
F enablespellchecking	F figurefiletype
F enablestatetriggering	F figurerequest
F enablestream	F figuresetdimensions
F enabletrackers	F figurestatus
F enabletransparency	F figureused
F enableutf	F filterdefaultreference
F enhancelinkedlist	F filterreference
F enhancealist	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 fakeword	F flushlabeledfloat
F featureattribute	F flushnotes
F featurelist	F flushpageinjectionsafter
F feedback	F flushpageinjectionsbefore
F fetchallmarks	F flushpostponedblocks
F fetchmultipar	F flushpostponednotes
F fetchmultishape	F flushstream
F fetchonemark	F flushstreamcopy
F fetchposboxes	F fontchar
F fetchtwomarks	F fontcharbyindex
F figure_check	F fontcollectionclone
F figure_done	F fontcollectiondefine
F figure_dummy	F fontcollectionprepare
F figure_flush_registered_pages	F fontcollectionregister
F figure_identify	F fontcollectionreport
F figure_include	F fontcollectionreset

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

F inputfilerealsuffix	F lpdf_adddocumentshade
F inputfilesuffix	F lpdf_addtocatalog
F insertattachment	F lpdf_addtoinfo
F insertcomment	F lpdf_addtonames
F insertfield	F lpdf_addtopageattributes
F insertionnumber	F lpdf_addtopageresources
F insertrenderingwindow	F lpdf_addtopagesattributes
F installedlanguages	F lpdf_collectedresources
F installtexdirective	F lpdf_color
F installtextracker	F luascript
F jobfilename	F luathread
F jobfilesuffix	F lxmlid
F languagenumber	F markcontent
F lastcountervalue	F markingnumber
F lastsubcountervalue	F markingtitle
F lchexnumber	F markinjector
F lchexnumbers	F markregionbox
F leapyear	F markregionboxcorrected
F linenumbersstageone	F markregionboxtagged
F linenumbersstagetwo	F markvisualfonts
F listgroupindex	F mathfraction
F listlabel	F mathrenderset
F listlocation	F message
F listnamespaces	F metapostescaped
F listprefixednumber	F metapostformatted
F listprefixedpage	F metapostgraphformat
F listrealpage	F minute
F listsize	F mixcleanup
F listtitle	F mixfinalize
F listuserdata	F mixflushlist
F loadexamodes	F mixflushrest
F loadfontgoodies	F mixgetsplit
F loadluamodule	F mixsetsplit
F loadmapfile	F mixstate
F loadmapline	F molecule
F loadspellchecklist	F month
F loadtypescriptfile	F monthmnem
F loadvisualizer	F monthname
F locatefilepath	F mpcolor
F locfilename	F mpflushliteral
F lower	F mpflushreset
F lpdf_adddocumentcolorspace	F mpgettext
F lpdf_adddocumenttextstate	F mpgraphic
F lpdf_adddocumentpattern	F mpoptions



F mprunset	F pdfstartmirroring
F mpruntab	F pdfstartrotation
F mprunvar	F pdfstartscaling
F mpsetclippath	F pdfstopmatrix
F mpsetoutercolor	F pdfstopmirroring
F mpsetsxxy	F pdfstoprotation
F mpsettext	F pdfstopscaling
F mptexget	F percentageof
F mptexreset	F pgfxcolorspec
F mptexset	F pickupbuffer
F mptexsetfrombuffer	F pickupmarkedcontent
F namedstructureuservariable	F pickuppunctuation
F namedstructurevariable	F placeparallel
F naturalwd	F popfloat
F nbfs	F pophyphenation
F negatedcolorcomponent	F popitaliccorrection
F nextcountervalue	F poplist
F nextparallel	F poppath
F nextsubcountervalue	F poprandomseed
F nofconversions	F popreferenceprefix
F nofdays	F popregime
F nofstackedfloats	F popsectionblock
F notedeltapage	F postponeotes
F noteinternal	F prefixedconverted
F notelistindex	F preparecolumnsetflush
F noteprefixednumber	F presetmathalternate
F notetitle	F presetsymbollist
F ntimes	F presettabulate
F number	F prevcountervalue
F numbers	F previoussubcountervalue
F octnumber	F processbodyfontsizes
F octstringtonumber	F processbuffer
F operatingsystem	F processcolorcomponents
F ordinal	F processedfile
F outputfilename	F processedfiles
F overloadbookmark	F processfile
F overloaderror	F processfilemany
F overloadlowercase	F processfilenone
F overloaduppercase	F processfileonce
F pageofinternal	F processjob
F pagestaterealpage	F processlist
F parpos	F processregister
F pdfrotation	F processsplit
F pdfstartmatrix	F processsynonyms

F profilebox	F registerobject
F purefontname	F registerpattern
F pushfloat	F registerpostponedblock
F pushhyphenation	F registerreferencedobject
F pushitaliccorrection	F registerrendering
F pushlist	F registersection
F pushpath	F registershownsynonym
F pushrandomseed	F registerstructureprocessor
F pushreferenceprefix	F registersynonym
F pushregime	F registerunit
F pushsectionblock	F registerusedsynonym
F pushstream	F registeruserdata
F putboxincache	F relatemarking
F putincolumnset	F renderingvar
F rawcharacter	F replacefeature
F rawcountervalue	F replacepospxywhd
F rawdate	F reportstructure
F rawsetupstring	F resavefloat
F rawsubcountervalue	F resetboxesincache
F referencepagedetail	F resetcharacteralign
F referencepagestate	F resetcolumnset
F referencerealpage	F resetcounter
F registerattachment	F reseteffect
F registerbackendsymbol	F resetfeature
F registerbodyfontsize	F resetfontfeature
F registerbookmark	F resetfontsolution
F registerbuttons	F resetinjector
F registercolorintent	F resetitaliccorrection
F registercolumnsetarea	F resetmapfiles
F registeredviewerlayer	F resetmarking
F registerfigurepattern	F resetmathattributes
F registerfiguresuffix	F resetmathitalics
F registerfontalternative	F resetnullfont
F registerfontfamily	F resetparallel
F registerhelp	F resetpath
F registerhyphenationexception	F resetprevdepth
F registerhyphenationpattern	F resetreference
F registeritemgroup	F resetscript
F registerlanguagefeatures	F resetshownsynonyms
F registerlinenumbers	F resetstructureprocessor
F registermaintextcolor	F resetsubcounter
F registermpyfile	F resettimer
F registernamedlua	F resettrackers
F registernamespace	F resetusedsynonyms

F restartcounter	F setcolumnsetarea
F restartsubcounter	F setcolumnsetlines
F restorecounter	F setcolumnsetproperties
F restorecurrentattributes	F setcolumnsetstart
F restorenote	F setcounter
F restoreobject	F setdataset
F reuserandomseed	F setdestinationattribute
F revivefeature	F setdigitsmanipulation
F romannumerals	F setdirection
F rounded	F setdocumentargument
F runbuffer	F setdocumentcommandline
F runcontextjob	F setdocumentctxfile
F safechar	F setdocumentdefaultargument
F savebuffer	F setdocumentenvironments
F savecounter	F setdocumentfilename
F savecurrentattributes	F setdocumentfilenames
F savedlistnumber	F setdocumentmodes
F savedlistprefixednumber	F setdocumentmodules
F savedlisttitle	F seteffect
F savefloat	F setelementuserproperties
F savefont	F setfieldcalculationset
F savemargindata	F setfigurelookuporder
F savenote	F setfigurepaths
F savepagedata	F setfirstline
F savepageinjections	F setfontfeature
F saveparallel	F setfontofid
F savespecificfloat	F setfontsolution
F savestructureblock	F setformat
F savetaggedtwopassdata	F setformsmethod
F savetwopassdata	F sethsizecolumnset
F savevariable	F sethsizecolumnspan
F second	F sethyphenatedurlcharacters
F selectstructureblock	F sethyphenationfeatures
F setactivecatcodes	F sethyphenationmethod
F setbreakpoints	F setinitial
F setcharacteralign	F setinitialsectionblock
F setcharactercasing	F setinjector
F setcharactercleaning	F setinnerreferencemethod
F setcharacterkerning	F setinsertionlocation
F setcharacterspacing	F setinterfaceconstant
F setcharacterstripping	F setinterfaceelement
F setcloseddocumentaction	F setinterfacemessage
F setclosepageaction	F setinterfacemessages
F setcolormodel	F setinterfacevariable

F setinternalreference	F setsectionblock
F setitaliccorrection	F setsectionentry
F setjavascriptpreamble	F setstructureblockstate
F setjobcomment	F setstructurelevel
F setlanguageexceptions	F setstructurenumber
F setlanguagesynonym	F setsubcounter
F setlettercatcodes	F settagaspect
F setmapfile	F settagcombination
F setmapline	F settagdelimitedsymbol
F setmarking	F settagfigure
F setmathalphabet	F settaggedmetadata
F setmathalternate	F settaghighlight
F setmathattribute	F settagitem
F setmathdirection	F settagitemgroup
F setmathdomain	F settaglist
F setmathitalics	F settagnotation
F setmathstyle	F settagnotationsymbol
F setmpextensions	F settagproperty
F setnaturalwd	F settagproperty_b
F setnegative	F settagproperty_n
F setnextinternalreference	F settagregister
F setnextreferenceorder	F settagsorting
F setnotestate	F settagssubsentencesymbol
F setopendocumentaction	F settagssynonym
F setopenpageaction	F settagtablecell
F setowncounter	F settagtabulatecell
F setownsubcounter	F setupbookmarks
F setpagecolormodel	F setupcanvas
F setpagestate	F setupcharacterspacing
F setpagestaterealpageno	F setupexport
F setpagetransition	F setupfontexpansion
F setparbuilder	F setupfontprotrusion
F setpdfcompression	F setupidentity
F setprofile	F setupinsertion
F setrandomseed	F setupitaliccorrection
F setrealign	F setuplinenumbers
F setrealspaces	F setuserinterface
F setreferencearguments	F setvalidinterfacekeys
F setreferenceoperation	F setvisual
F setregionbox	F setvisualfont
F setregionboxtagged	F setvisualfont
F setregistermethod	F setvisuals
F setreplacements	F setvsizecolumnset
F setscript	F setxmpfile

F showassignerror	F stopfontsolution
F showattributes	F stopparbuilder
F showcounter	F stopproduct
F showdebuginfo	F stopproject
F showdirectives	F stopregime
F showdiscretionaries	F stopsectionlevel
F showexperiments	F stopstream
F showhyphenatedinlist	F stoptag
F showhyphenationtrace	F stoptext
F showinjector	F stopviewerlayer
F showjustification	F storejavascriptcode
F showlogcategories	F storejavascriptpreamble
F showmessage	F storenote
F showtrackers	F storeregister
F sin	F strdp
F sind	F strhd
F splitfilename	F strht
F spotcolorname	F strip
F spotcolorparent	F structureautocatcodedget
F spotcolorvalue	F structurecatcodedget
F startactualtext	F structuregivencatcodedget
F startchemical	F structurenumber
F startcolorset	F structuretitle
F startcomponent	F structureuservariable
F startenvironment	F structurevariable
F startfontsolution	F strwd
F startparbuilder	F subcountervalue
F startproduct	F subcountervalues
F startproject	F subsubcountervalues
F startregime	F subtractfeature
F startsectionlevel	F synccolor
F startstream	F synccolorclone
F starttag	F synccolorcount
F starttag_c	F synchronizemarking
F starttag_d	F synchronizestream
F starttag_u	F synonymmeaning
F starttext	F synonymname
F startviewerlayer	F systemlog
F step	F tagmfunctionlab
F stopactualtext	F tagmfunctiontxt
F stopchemical	F tan
F stopcolorset	F tand
F stopcomponent	F texdefinition_one
F stopenvironment	F texdefinition_two

F textime	F useurl
F thefirstcharacter	F usexmlfile
F themaxboxwidth	F usexmlfileonce
F theremainingcharacters	F usezipfile
F tochar	F utfchar
F transparencycomponents	F utfmathclass
F triggerpagebuilder	F utfmathcommand
F truefilename	F utfmathcommandabove
F type	F utfmathcommandbelow
F typebuffer	F utfmathcommandfiller
F typefile	F utfmathfiller
F uchar	F utfmathstretch
F uchexnumber	F vboxlisttohbox
F uchexnumbers	F verbose
F undefinechemical	F vspacing
F unicodechar	F vspacingcollapse
F unihex	F vspacingcollapseonly
F unit_normal	F vspacingdefine
F unit_reverse	F vspacingsetamount
F unloadlanguage	F vspacingsnap
F upper	F way
F useMPLibrary	F weekday
F useanyfile	F weekdayname
F useanyfileonce	F writestatus
F usecldfilename	F x_table_c
F usecldfilenameonce	F x_table_cleanup
F usecolors	F x_table_construct
F usecomponent	F x_table_create
F useenvironment	F x_table_finish_row
F usefigurebase	F x_table_flush
F usefile	F x_table_init_construct
F usejavascriptpreamble	F x_table_init_reflow_height
F usejavascriptscripts	F x_table_init_reflow_height_option
F useluafilename	F x_table_init_reflow_width
F useluafilenameonce	F x_table_init_reflow_width_option
F useluamodule	F x_table_next_row
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 xmlaftersesetup	F xmlflushsetups
F xmlall	F xmlflushspacewise
F xmlappendsetup	F xmlflushtext
F xmlapplyselectors	F xmlfunction
F xmlatt	F xmlgetindex
F xmlattdef	F xmlinclude
F xmlattribute	F xmlincludeoptions
F xmlattributedef	F xmlinclusion
F xmlbadinclusions	F xmlinclusions
F xmlbeforesetup	F xmlindex
F xmlchainatt	F xmlinlineverbatim
F xmlchainattdef	F xmlinstalldirective
F xmlchecknamespace	F xmllast
F xmlcommand	F xmllastatt
F xmlconcat	F xmllastmatch
F xmlconcatrange	F xmlload
F xmlcontext	F xmlloadbuffer
F xmlcount	F xmlloaddata
F xmldelete	F xmlloadaddirectives
F xmldirect	F xmlloadentities
F xmldirectives	F xmlmain
F xmldirectivesafter	F xmlmatch
F xmldirectivesbefore	F xmlname
F xmldisplayverbatim	F xmlnamespace
F xmldoif	F xmlnonamespace
F xmldoifelse	F xmlpath
F xmldoifelseempty	F xmlpos
F xmldoifelseselfempty	F xmlprependsetup
F xmldoifelsetext	F xmlpure
F xmldoifempty	F xmlraw
F xmldoifnot	F xmlrawtex
F xmldoifnotempty	F xmlrefatt
F xmldoifnotselfempty	F xmlregisterns
F xmldoifnottext	F xmlremapname
F xmldoifselfempty	F xmlremapnamespace
F xmldoiftext	F xmlremovesetup
F xmlelement	F xmlresetinjectors
F xmlfilter	F xmlresetsetups
F xmlfilterlist	F xmlsave
F xmlfirst	F xmlsetcommandtonone
F xmlflush	F xmlsetcommandtotext
F xmlflushcontext	F xmlsetentity
F xmlflushlinewise	F xmlsetinjectors
F xmlflushpure	F xmlsetsetup

F xmlsnippet		<b>setcount</b>	function
F xmlstartraw		<b>setdimen</b>	function
F xmlstarttiming		<b>setelement</b>	function
F xmlstopraw		<b>setformat</b>	function
F xmlstoptiming		<b>setmacro</b>	function
F xmlstrip		<b>setmessage</b>	function
F xmlstripanywhere		<b>setmessages</b>	function
F xmlstripnolines		<b>settranslation</b>	function
F xmlstripped		<b>setupstrings</b>	data table
F xmlstrippednolines		<b>setuserinterface</b>	function
F xmltag		<b>setvalidkeys</b>	function
F xmltexentity		<b>setvariable</b>	function
F xmltext		<b>showmessage</b>	function
F xmltobuffer		<b>storedscanners</b>	data table
F xmltobufferverbose		<b>strings</b>	table
F xmltofile		<b>syntax</b>	data table
F xmltoparameters		<b>tolist</b>	function
F xmlverbatim		<b>translations</b>	data table
F xmlwithindex		<b>usednamespaces</b>	data table
F year		<b>variables</b>	data table
<b>setconstant</b>	function	<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>exists</b>	function	<b>readnumber</b>	function
<b>fileseparator</b>	string	<b>readstring</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		

# jit (context)

<b>arch</b>	string		F start
<b>attach</b>	function	<b>os</b>	string
<b>flush</b>	function	<b>status</b>	function
<b>off</b>	function	<b>version</b>	string
<b>on</b>	function	<b>version_num</b>	number
<b>opt</b>	table		

# job (context)

<b>comment</b>	function	F find	
<b>datasets</b>	table	F first	
D collected		F get	
F extend		F getcollected	
F getdata		F getdata	
F setdata		F getfield	
D tobesaved		F gettobesaved	
<b>disablesave</b>	function	F inlist	
<b>fileobjreferences</b>	table	F last	
D collected		F list	
D tobesaved		F save	
<b>files</b>	table	F savetagged	
D collected		D tobesaved	
F context		<b>positions</b>	table
B forcerun		F b_column	
F run		F b_region	
D tobesaved		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		F get	
F set		F getreserved	
D tobesaved		F gettobesaved	
<b>pack</b>	boolean	F hangafter	
<b>packversion</b>	number	F hangindent	
<b>pagestates</b>	table	F height	
D collected		F hsize	
F extend		F leftskip	
F realpage		F lowerleft	
F setstate		F lowerright	
D tobesaved		F markregionbox	
<b>passes</b>	table	F n	
F check		F onsamepage	
D collected		F overlapping	
F count		F p	
F define		F page	

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 width	F save	
F x	F setchecksum	
F xy	D tobesaved	
F y	<b>version</b>	number
<b>register</b>		
		function

## lang (basic tex)

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

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

# languages (context)

<b>associate</b>	function	<b>F registerexception</b>	
<b>associated</b>	data table	<b>F registerpattern</b>	
<b>association</b>	function	<b>F setfeatures</b>	
<b>counters</b>	data table	<b>installed</b>	function
<b>current</b>	function	<b>labels</b>	table
<b>data</b>	data table	<b>F define</b>	
<b>decimals</b>	data table	<b>F split</b>	
<b>define</b>	function	<b>loadable</b>	function
<b>expand</b>	function	<b>loadwords</b>	function
<b>expanders</b>	table	<b>logger</b>	table
<b>frequencies</b>	table	<b>F report</b>	
<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>B optimize</b>		<b>D characters</b>	
<b>F popmethod</b>		<b>N lefthyphenmin</b>	
<b>F pushmethod</b>		<b>D mapping</b>	
<b>F setmethod</b>		<b>B packslashes</b>	
<b>F setup</b>		<b>N righthyphenmin</b>	
<b>F showhyphenationtrace</b>		<b>F setcharacters</b>	
<b>T traditional</b>		<b>version</b>	number
<b>F definefeatures</b>		<b>visualizediscretionaries</b>	function
<b>F gettrace</b>		<b>words</b>	table
<b>F hyphenate</b>		<b>F check</b>	
<b>F injecthyphens</b>		<b>T data</b>	
<b>F installmethod</b>		<b>F disable</b>	
<b>F lasttrace</b>		<b>F enable</b>	
<b>F loadpatterns</b>		<b>T enablers</b>	

B enables

T methods

F found

N threshold

F load

# layouts (context)

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



## lfs (extra lua)

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

## libraries (context)

**basiclua** data table

**basictex** data table

**builtin** data table

**extralua** data table

**extratex** data table

**functions** data table

**globals** data table

## lmx (context)

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

<b>loadedfile</b>	function
<b>make</b>	function
<b>new</b>	function
<b>overloaderror</b>	function
<b>popupfile</b>	function
<b>print</b>	function
<b>pv</b>	function
<b>report</b>	function
<b>reset</b>	function
<b>result</b>	function
<b>set</b>	function
<b>show</b>	function
<b>showdebuginfo</b>	function
<b>showerror</b>	function
<b>stripcss</b>	function
<b>tv</b>	function
<b>type</b>	function
<b>urlescape</b>	function
<b>variable</b>	function
<b>variables</b>	table
S color-background-blue	
S color-background-body	
S color-background-green	
S color-background-main	
S color-background-purple	
S color-background-yellow	
S title-default	

# logs (context)

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

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

# lpdf (context)

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

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

## lpeg (basic lua)

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

# ltn12 (extra lua)

**BLOCKSIZE** number

**filter** table

F chain

F cycle

**pump** table

F all

F step

**sink** table

F chain

F error

F file

F null

F simplify

F table

**source** table

F cat

F chain

F empty

F error

F file

F rewind

F simplify

F string



# lua (basic tex)

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

# luatex (context)

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

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

## lxml (context)

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

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

## math (basic lua)

<b>abs</b>	function	<b>log10</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>	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
<b>log</b>	function		

# mathematics (context)

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

## mbox (context)

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

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

## md5 (extra lua)

**HEX**      function

**crypt**    function

**dec**       function

**decrypt**   function

**exor**      function

**hex**       function

**sum**       function

**sumhexa**   function



# metapost (context)

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

<b>setextensions</b>	function	F set	
<b>setoutercolor</b>	function	F setfrombuffer	
<b>settext</b>	function	<b>texerrors</b>	boolean
<b>showlog</b>	boolean	<b>textextsdata</b>	function
<b>simple</b>	function	<b>theclippath</b>	function
<b>svformat</b>	function	<b>totable</b>	function
<b>tex</b>	table	<b>unload</b>	function
F get		<b>untagvariable</b>	function
F reset		<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>boolean</b>	function
<b>MakeupWidth</b>	function	<b>dataset</b>	function
<b>NOfColumns</b>	function	<b>datasets</b>	table
<b>NOfPages</b>	function	<b>F load</b>	
<b>NamedColor</b>	function	<b>defaultcolormodel</b>	function
<b>OnOddPage</b>	function	<b>format</b>	function
<b>OnRightPage</b>	function	<b>formatted</b>	function
<b>OuterEdgeDistance</b>	function	<b>get</b>	table
<b>OuterEdgeWidth</b>	function	<b>F boolean</b>	
<b>OuterMarginDistance</b>	function	<b>F number</b>	

<code>F numeric</code>		<b>quadruple</b>	function
<code>F string</code>		<b>quoted</b>	function
<b>get_outline_text</b>	function	<b>report</b>	function
<b>graphformat</b>	function	<b>size</b>	function
<b>n</b>	function	<b>tb_dimensions</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>print</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)

**handlers**            table

- F alternates
- F autofences
- F classes
- F collapse
- F domains
- F families
- F italics
- F relocate
- F render
- F resize
- F showtree
- F tags

F unscript

F variants

**process**            function

**processnested**    function

**processors**        table

T autofences

T collapse

F mlist\_to\_hlist

T relocate

T render

T resize

T unscript

**processouter**     function

# node (basic tex)

<b>copy</b>	<b>function</b>	F insert_before
<b>copy_list</b>	<b>function</b>	F is_char
<b>count</b>	<b>function</b>	F is_direct
<b>current_attr</b>	<b>function</b>	F is_glyph
<b>dimensions</b>	<b>function</b>	F is_node
<b>direct</b>	<b>table</b>	F is_zero_glue
F copy		F kerning
F copy_list		F last_node
F count		F length
F current_attr		F ligaturing
F dimensions		F new
F do_ligature_n		F protect_glyph
F effective_glue		F protect_glyphs
F end_of_math		F protrusion_skippable
F find_attribute		F remove
F first_glyph		F set_attribute
F flush_list		F set_properties_mode
F flush_node		F setboth
F flush_properties_table		F setbox
F free		F setchar
F get_attribute		F setdisc
F get_properties_table		F setfield
F getboth		F setglue
F getbox		F setleader
F getchar		F setlink
F getdisc		F setlist
F getfield		F setnext
F getfont		F setprev
F getglue		F setproperty
F getid		F setsubtype
F getleader		F slide
F getlist		F tail
F getnext		F todirect
F getprev		F tonode
F getproperty		F toString
F getsubtype		F traverse
F has_attribute		F traverse_char
F has_field		F traverse_id
F has_glyph		F unprotect_glyphs
F hpack		F unset_attribute
F insert_after		F usedlist



F vpack		<b>is_zero_glue</b>	function
F write		<b>kerning</b>	function
<b>do_ligature_n</b>	function	<b>last_node</b>	function
<b>effective_glue</b>	function	<b>length</b>	function
<b>end_of_math</b>	function	<b>ligaturing</b>	function
<b>family_font</b>	function	<b>mlist_to_hlist</b>	function
<b>fields</b>	function	<b>new</b>	function
<b>find_attribute</b>	function	<b>next</b>	function
<b>first_glyph</b>	function	<b>prev</b>	function
<b>flush_list</b>	function	<b>protect_glyph</b>	function
<b>flush_node</b>	function	<b>protect_glyphs</b>	function
<b>flush_properties_table</b>	function	<b>protrusion_skippable</b>	function
<b>free</b>	function	<b>remove</b>	function
<b>get_attribute</b>	function	<b>set_attribute</b>	function
<b>get_properties_table</b>	function	<b>set_properties_mode</b>	function
<b>getboth</b>	function	<b>setboth</b>	function
<b>getchar</b>	function	<b>setfield</b>	function
<b>getdisc</b>	function	<b>setglue</b>	function
<b>getfield</b>	function	<b>setlink</b>	function
<b>getfont</b>	function	<b>setnext</b>	function
<b>getglue</b>	function	<b>setprev</b>	function
<b>getid</b>	function	<b>setProperty</b>	function
<b>getleader</b>	function	<b>slide</b>	function
<b>getlist</b>	function	<b>subtype</b>	function
<b>getnext</b>	function	<b>subtypes</b>	function
<b>getprev</b>	function	<b>tail</b>	function
<b>getproperty</b>	function	<b>tostring</b>	function
<b>getsubtype</b>	function	<b>traverse</b>	function
<b>has_attribute</b>	function	<b>traverse_char</b>	function
<b>has_field</b>	function	<b>traverse_id</b>	function
<b>has_glyph</b>	function	<b>type</b>	function
<b>hpack</b>	function	<b>types</b>	function
<b>id</b>	function	<b>unprotect_glyphs</b>	function
<b>insert_after</b>	function	<b>unset_attribute</b>	function
<b>insert_before</b>	function	<b>usedlist</b>	function
<b>is_char</b>	function	<b>vpack</b>	function
<b>is_glyph</b>	function	<b>whatsits</b>	function
<b>is_node</b>	function	<b>write</b>	function

# nodes (context)

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

<b>has_field</b>	function	<b>linefillers</b>	table
<b>has_glyph</b>	function	D data	
<b>hpack</b>	function	F define	
<b>idstostring</b>	function	F enable	
<b>ignorablefields</b>	data table	F handler	
<b>injections</b>	table	<b>lines</b>	table
F copy		T boxed	
F getligaindex		F register	
F getthreshold		F setup	
F handler		F stage_one	
F installnewkern		F stage_two	
F isspace		D data	
F keepcounts		F finalize	
F reset		F number	
F resetcounts		N scratchbox	
F setcursive		<b>link</b>	function
F setkern		<b>linked</b>	function
F setligaindex		<b>list</b>	function
F setmark		<b>listablefields</b>	data table
F setpair		<b>listcodes</b>	data table
F setspacekerns		<b>listtutf</b>	function
<b>insert_after</b>	function	<b>load</b>	function
<b>insert_before</b>	function	<b>locate</b>	function
<b>insert_list_after</b>	function	<b>margincodes</b>	data table
<b>installattributehandler</b>	function	<b>marginkerncodes</b>	data table
<b>is_char</b>	function	<b>markers</b>	table
<b>is_direct</b>	function	F get	
<b>is_display_math</b>	function	<b>mathcodes</b>	data table
<b>is_glyph</b>	function	<b>maxboxwidth</b>	function
<b>is_mirrored</b>	data table	<b>mlist_to_hlist</b>	function
<b>is_node</b>	function	<b>new</b>	function
<b>is_nut</b>	function	<b>noadcodes</b>	data table
<b>is_rotated</b>	data table	<b>nodecodes</b>	data table
<b>is_zero_glue</b>	function	<b>nopts</b>	function
<b>ischar</b>	function	<b>nuts</b>	table
<b>isglyph</b>	function	F append	
<b>kerncodes</b>	data table	F concat	
<b>kerning</b>	function	F copy	
<b>keys</b>	table	F copy_list	
T whatsit		F copy_properties	
<b>last_node</b>	function	F copyvisual	
<b>leadercodes</b>	data table	F count	
<b>leftmarginwidth</b>	function	F current_attr	
<b>ligaturing</b>	function	F delete	

F dimensions	F isglyph
F do_ligature_n	F kerning
F effective_glue	F last_node
F end_of_math	F leftmarginwidth
F first_glyph	F ligaturing
F firstcharacter	F link
F firstcharinbox	F linked
F firststglyph	F locate
F flush_list	F mlist_to_hlist
F flush_node	F nestedtracedslide
F free	F new
F fullhpack	T pool
F getattr	F baselineskip
F getattribute	F boundary
F getboth	F cleanup
F getbox	F disc
F getchar	F emptyrule
F getdisc	F fontkern
F getfield	F glue
F getfont	F gluespec
F getglue	F glyph
F getid	F hlist
F getleader	F italickern
F getlist	F kern
F getnext	F latelua
F getprev	F lateluafunction
F getprop	F leftmarginkern
F getskip	F leftskip
F getsubtype	F lineskip
F has_attribute	F negatedglue
F has_field	F noad
F has_glyph	F pdfannotation
F hpack	F pdfdestination
F insert_after	F pdfdirect
F insert_before	F pdfdirectliteral
F insert_list_after	F pdfliteral
F is_char	F pdfpage
F is_direct	F pdfpageliteral
F is_display_math	F pdfrestore
F is_glyph	F pdfsave
F is_node	F pdfsetmatrix
F is_nut	F penalty
F is_zero_glue	F register
F ischar	F rightmarginkern

F rightskip  
 F rule  
 F shrink  
 F special  
 F stretch  
 F temp  
 F textdir  
 F usage  
 F userattributes  
 T userids  
   N margins.inline  
   N property  
   N splitters.one  
   N splitters.two  
 F userlist  
 F userlua  
 F usernumber  
 F userrule  
 F userstring  
 F usertokens  
 F vlist  
 F wordboundary  
 F zeroglue  
 F prepend  
 F protect\_glyph  
 F protect\_glyphs  
 F protrusion\_skippable  
 F rawprop  
 F reference  
 F rehpick  
 F remove  
 F repackhlist  
 F replace  
 F rightmarginwidth  
 F set\_attribute  
 F setattr  
 F setattribute  
 F setattributes  
 F setboth  
 F setbox  
 F setchar  
 F setdisc  
 F setfield  
 F setglue

F setleader  
 F setlink  
 F setlist  
 F setnext  
 F setprev  
 F setprop  
 F setsubtype  
 F setunsetattributes  
 F setvisual  
 F setvisuals  
 F slide  
 F somepenalty  
 F somespace  
 F splitbox  
 F tail  
 F takebox  
 F takelist  
 F theprop  
 F tonode  
 F tonodes  
 F tonut  
 F tosequence  
 F toString  
 F tracedslide  
 F traverse  
 F traverse\_char  
 F traverse\_id  
 T typesetters  
   F tohbox  
   F tohpack  
   F tonodes  
   F tovbox  
   F tovpick  
 F unprotect\_glyphs  
 F unset\_attribute  
 F unsetattribute  
 F unsetattributes  
 F untracedslide  
 F usedlist  
 F vianodes  
 F vianuts  
 F vpack  
 F write

**packlist**

function

<b>pardir_is_equal</b>	data table	F hpack_filter	
<b>pardir_is_opposite</b>	data table	F post_linebreak_filter	
<b>pardir_is_parallel</b>	data table	F pre_linebreak_filter	
<b>partextdir_is_equal</b>	data table	F tracer	
<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>reference</b>	function
<b>pool</b>	table	<b>references</b>	table
F baselineskip		N attribute	
F cleanup		T done	
F glyph		F handler	
F hlist		T stack	
F kern		<b>reheap</b>	function
F latelua		<b>remove</b>	function
F lateluafunction		<b>repackhlist</b>	function
F lineskip		<b>replace</b>	function
F pdfdirect		<b>report</b>	function
F pdfliteral		<b>rightmarginwidth</b>	function
F pdfpageliteral		<b>rulecodes</b>	data table
F pdfrestore		<b>rules</b>	table
F pdfsave		D data	
F pdfsetmatrix		F define	
F register		F enable	
F rule		F handler	
F special		T ruleactions	
F usage		F draw	
F usernumber		F fill	
F vlist		F mp	
<b>prepend</b>	function	F stroke	
<b>print</b>	function	F userrule	
<b>processors</b>	table	<b>save</b>	function
B enabled		<b>serialize</b>	function

<b>serializebox</b>	function	F new	
<b>set_attribute</b>	function	F prependaction	
<b>setattributes</b>	function	F removeaction	
<b>setbox</b>	function	F replaceaction	
<b>setboxtonaturalwd</b>	function	F restart	
<b>setfield</b>	function	F setaction	
<b>setglue</b>	function	F showactions	
<b>setunsetattributes</b>	function	F table	
<b>shifts</b>	table	<b>texmdir_is_equal</b>	data table
D data		<b>texmdir_is_is</b>	data table
F define		<b>texmdir_is_opposite</b>	data table
F enable		<b>texmdir_is_parallel</b>	data table
F handler		<b>tobasepoints</b>	function
<b>show</b>	function	<b>tocentimeters</b>	function
<b>showboxes</b>	function	<b>tociceros</b>	function
<b>showcodes</b>	function	<b>todidots</b>	function
<b>showlist</b>	function	<b>todimen</b>	function
<b>showsimplelist</b>	function	<b>toinches</b>	function
<b>skipcodes</b>	data table	<b>tomillimeters</b>	function
<b>slide</b>	function	<b>tonewciceros</b>	function
<b>snapshots</b>	table	<b>tonewdidots</b>	function
F getparameters		<b>tonode</b>	function
F getsamples		<b>tonodes</b>	function
F resetsamples		<b>tonut</b>	function
F takesample		<b>topicsas</b>	function
<b>somepenalty</b>	function	<b>topoints</b>	function
<b>somespace</b>	function	<b>toscaledpoints</b>	function
<b>splitbox</b>	function	<b>tosequence</b>	function
<b>stripdiscretionaries</b>	function	<b>tostring</b>	function
<b>stripping</b>	table	<b>totable</b>	function
T glyphs		<b>totree</b>	function
F set		<b>toutf</b>	function
<b>striprange</b>	function	<b>tracers</b>	table
<b>tail</b>	function	T characters	
<b>takebox</b>	function	F collect	
<b>tasks</b>	table	F equal	
F actions		F start	
F appendaction		F string	
F disableaction		F unicodes	
F disablegroup		T colors	
F enableaction		F reset	
F enablegroup		F set	
F freeze		F setlist	
F freezegroup		F fontchar	

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



## number (context)

	function	<b>tobitstring</b>	function
<b>basepoints</b>	function	<b>tocentimeters</b>	function
<b>bit</b>	function	<b>tociceros</b>	function
<b>bits</b>	function	<b>todidots</b>	function
<b>clearbit</b>	function	<b>todimen</b>	function
<b>dimenfactors</b>	data table	<b>toevenhex</b>	function
<b>formatted</b>	function	<b>toinches</b>	function
<b>hasbit</b>	function	<b>tomillimeters</b>	function
<b>maxdimen</b>	number	<b>tonewciceros</b>	function
<b>nopts</b>	function	<b>tonewdidots</b>	function
<b>percent</b>	function	<b>tonumberf</b>	function
<b>points</b>	function	<b>tonumberg</b>	function
<b>pts</b>	function	<b>topicsas</b>	function
<b>setbit</b>	function	<b>topoints</b>	function
<b>signed</b>	function	<b>toscaled</b>	function
<b>sparseexponent</b>	function	<b>toscaledpoints</b>	function
<b>splitdimen</b>	function	<b>toset</b>	function
<b>tobasepoints</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>platform</b>	string	<b>which</b>	function

## package (basic lua)

<b>config</b>	string	<b>loaded</b>	table
<b>cpath</b>	string	<b>loaders</b>	table
<b>extralibpath</b>	function	<b>loadlib</b>	function
<b>extralibpaths</b>	function	<b>luapaths</b>	function
<b>extralupath</b>	function	<b>path</b>	string
<b>extralupaths</b>	function	<b>preload</b>	table
<b>helpers</b>	table	<b>searchpath</b>	function
<b>libpaths</b>	function	<b>seeall</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>mapfile</b>	function
<b>fontobjnum</b>	function	<b>mapline</b>	function
<b>fontsize</b>	function	<b>maxobjnum</b>	function
<b>getcatalg</b>	function	<b>newcolorstack</b>	function
<b>getcompresslevel</b>	function	<b>obj</b>	function
<b>getdecimaldigits</b>	function	<b>objtype</b>	function
<b>getdestmargin</b>	function	<b>pageref</b>	function
<b>gethpos</b>	function	<b>print</b>	function
<b>getignoreunknownimages</b>	function	<b>refobj</b>	function
<b>getimageresolution</b>	function	<b>registerannot</b>	overloaded function
<b>getinclusionerrorlevel</b>	function	<b>reserveobj</b>	function
<b>getinfo</b>	function	<b>setcatalg</b>	overloaded function
<b>getlastannot</b>	function	<b>setcompresslevel</b>	function
<b>getlastlink</b>	function	<b>setdecimaldigits</b>	function
<b>getlastobj</b>	function	<b>setdestmargin</b>	function
<b>getlinkmargin</b>	function	<b>setfontattributes</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>getorigin</b>	function	<b>setmajorversion</b>	function
<b>getpageattributes</b>	function	<b>setminorversion</b>	function
<b>getpageresources</b>	function	<b>setnames</b>	overloaded function
<b>getpagesattributes</b>	function	<b>setobjcompresslevel</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
<b>immediateobj</b>	function		

# pdfscanner (context)

**scan** function

# physics (context)

**units** table

F registerunit

D tables



## profiler (extra lua)

**pause**    function  
**resume**   function

**start**    function  
**stop**     function

# 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 nofregettered		<b>setspecification</b>	function
F prepareentries		<b>singularorplural</b>	function
F register		<b>sortedentries</b>	function
F sameasprevious		<b>sortmethods</b>	table
T sorters		T authoryear	
F cite		T sequence	
F dataset		<b>specifications</b>	table
F default		T default	
F index		S author	
F list		S comment	
F reference		S copyright	
F short		S name	
F used		S version	
F uservariable		D virtual	
<b>listvariants</b>	table	<b>splitauthor</b>	function
F default		<b>splitoneauthor</b>	function
F index		<b>statistics</b>	table
F num		N nofbytes	
F page		N nofdatasets	
F short		N nofdefinitions	
F tag		N nofshortcuts	
<b>load</b>	function	<b>tables</b>	table
<b>loadbibdata</b>	function	D implicits	
<b>loaddefinitionfile</b>	function	D origins	
<b>loaders</b>	table	D privates	
F bbl		D sets	
F bib		D specials	
F buffer		D types	
F endnote		D virtuals	
F lua		<b>tags</b>	function
F refman		<b>tracers</b>	table
F registercleaner		F showdatasetauthors	
F xml		F showdatasetcompleteness	
<b>loadreplacementfile</b>	function	F showdatasetfields	
<b>new</b>	function	F showentry	

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

## regimes (context)

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

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

## resolvers (context)

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

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



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

## sandbox (context)

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

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

# scripts (context)

<b>autofontfeature</b>	table	N inter_char_stretch_factor
F disable		N inter_word_stretch_factor
F enable		<b>handlers</b>
F handler		data table
<b>categorytonumber</b>	data table	<b>hash</b>
<b>colors</b>	data table	table
<b>decomposehangul</b>	function	<b>injectors</b>
<b>defaults</b>	table	data table
N inter_char_half_shrink_factor		<b>installdataset</b>
N inter_char_half_stretch_factor		function
N inter_char_hangul_penalty		<b>installmethod</b>
N inter_char_quarter_shrink_factor		function
N inter_char_quarter_stretch_factor		<b>numbertocategory</b>
N inter_char_shrink_factor		data table
		<b>numbertodataset</b>
		data table
		<b>numbertohandler</b>
		data table
		<b>reset</b>
		function
		<b>set</b>
		function
		<b>splitters</b>
		data table

## set (context)

**contains**    function

**create**     function

**tolist**     function

**tonumber**   function

**totable**    function

# socket (extra lua)

**BLOCKSIZE** number  
**\_DEBUG** boolean  
**\_SETSIZE** number  
**bind** function  
**choose** function  
**connect** function  
**connect4** function  
**connect6** function  
**dns** table

F getaddrinfo  
F gethostname  
F getnameinfo  
F tohostname  
F toip

**ftp** table

S PASSWORD  
N PORT  
N TIMEOUT  
S USER  
F command  
F get  
F open  
F put

**gettime** function

**headers** table

T canonic  
S accept  
S accept-charset  
S accept-encoding  
S accept-language  
S accept-ranges  
S action  
S age  
S allow  
S alternate-recipient  
S arrival-date  
S authorization  
S bcc  
S cache-control  
S cc  
S comments

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

S received  
 S received-from-mta  
 S references  
 S referer  
 S remote-mta  
 S reply-to  
 S reporting-mta  
 S resent-bcc  
 S resent-cc  
 S resent-date  
 S resent-from  
 S resent-message-id  
 S resent-reply-to  
 S resent-sender  
 S resent-to  
 S retry-after  
 S return-path  
 S sender  
 S server  
 S smtp-remote-recipient  
 S status  
 S subject  
 S te  
 S to  
 S trailer  
 S transfer-encoding  
 S upgrade  
 S user-agent  
 S vary  
 S via  
 S warning  
 S will-retry-until  
 S www-authenticate  
 S x-mailer

**http**      **table**

N PORT  
 N TIMEOUT  
 S USERAGENT  
 F open  
 F request

**newtry**      **function**

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

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

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

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

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

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

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

N TIMEOUT  
 F connect

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

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

# sorters (context)

**basicsorter**      function

**comparers**        table

    F basic

**constants**        table

    S defaultdigits

    S defaultlanguage

    S defaultmethod

    N digitmaximum

    N digitoffset

    N ignoredoffset

    N replacementoffset

    T validmethods

        B ch

        B mc

        B mm

        B pc

    B pm

    B uc

    B zc

    B zm

**definitions**      data table

**firstofsplit**      function

**packch**            function

**packuc**            function

**setlanguage**      function

**sort**                function

**splitters**         table

    F utf

**strip**              function

**tracers**           data table

**update**            function

## statistics (context)

<b>checkfmtstatus</b>	function	<b>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

# storage (context)

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

## streams (context)

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

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

## string (basic lua)

<b>autodouble</b>	function	<b>optionalquoted</b>	function
<b>autosingle</b>	function	<b>quote</b>	function
<b>booleanstring</b>	function	<b>quoted</b>	function
<b>byte</b>	function	<b>rep</b>	function
<b>bytepairs</b>	function	<b>replacenewlines</b>	function
<b>bytes</b>	function	<b>reverse</b>	function
<b>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>	table	<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 checkpagechange	
F number		F define	
D ordered		F doifonsamepageasprevious	
F page		F get	
F popnesting		F getdeltapage	
F prefix		F getinternal	
F prefixednumber		F getn	
F prefixedpage		F getstate	
F process		F hascontent	
D pushed		F internal	
F pushnesting		F internalid	
F realpage		F listindex	
F reordered		F ordered	
T result		F postpone	

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

## table

F analyze

D collected

F compare

F define

F enhance

F extend

F filter

F filtercollected

F finalize

F findinternal

F flush

F get

F 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 setentry
- F setinitialblock
- F setlevel
- F setnumber
- F structuredata
- F title
- D tobesaved
- F typesetnumber
- F userdata
- B verbose

**sets** table

- F define
- F get
- F getall
- D setlist

**specials** table

- D collected
- F retrieve
- F store
- D tobesaved

**synonyms** table

- F analyzed
- D collected
- F compare
- F define
- F filter
- F finalize
- F flush
- F isshown
- F isused
- F meaning
- F prepare
- F process
- F register
- F registershown
- F registerused
- F resetshown
- F resetused
- F sort
- F synonym
- D tobesaved

**tags** table

- F elementtag
- F finishexport
- F getid
- F handler
- D labels
- F last
- F lastinchain
- F locatedtag
- T patterns
- U splitter
- D properties
- F registermetadata
- F restart
- F setaspect
- F setattributefield
- F setcombination
- F setfigure
- F sethighlight
- F setitem
- F setitemgroup
- F setlist
- F setnotation
- F setnotationsymbol
- F setproperty
- F setregister
- F setsorting
- F setsynonym
- F settablecell
- F settabulatecell
- F settagdelimitedsymbol
- F settagssubsentencesymbol
- F setupexport
- F setuserproperties
- D specifications
- F start
- F stop
- F strip
- D taglist
- T usewithcare
- 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>compact</b>	function	<b>reversed</b>	function
<b>concat</b>	function	<b>save</b>	function
<b>contains</b>	function	<b>sequenced</b>	function
<b>copy</b>	function	<b>serialize</b>	function
<b>count</b>	function	<b>setmetatablecall</b>	function
<b>derive</b>	function	<b>setmetatableindex</b>	function
<b>deserialize</b>	function	<b>setmetatablekey</b>	function
<b>drop</b>	function	<b>setmetatablenewindex</b>	function
<b>fastcopy</b>	function	<b>sort</b>	function
<b>fastserialize</b>	function	<b>sorted</b>	function
<b>filtered</b>	function	<b>sortedhash</b>	function
<b>flattened</b>	function	<b>sortedhashkeys</b>	function
<b>foreach</b>	function	<b>sortedhashonly</b>	function
<b>foreachi</b>	function	<b>sortedindexonly</b>	function
<b>fromhash</b>	function	<b>sortedkeys</b>	function
<b>getmetatablekey</b>	function	<b>sortedpairs</b>	function
<b>getn</b>	function	<b>sparse</b>	function
<b>has_one_entry</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>keys</b>	function	<b>tohandle</b>	function
<b>load</b>	function	<b>tohash</b>	function
<b>loweredkeys</b>	function	<b>toxml</b>	function
<b>maxn</b>	function	<b>twowaymapper</b>	function
<b>merge</b>	function	<b>unique</b>	function
<b>merged</b>	function	<b>unnest</b>	function
<b>mirrored</b>	function	<b>unpack</b>	function
<b>pack</b>	function	<b>values</b>	function

## tex (basic tex)

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

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

## texconfig (basic tex)

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

## texio (basic tex)

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

**write\_nl** function

# tokens (context)

**astable**      function  
**bgroup**      userdata  
**bits**        table

N active  
N alignment  
N begingroup  
N character  
N close  
N comment  
N endgroup  
N endoffline  
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 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 conditional
F dimen	F count
F glue	F csname
F macro	F dimen
F skip	F dimension
<b>shortcuts</b> table	F glue
T bits	F integer
N active	F keyword
N alignment	F list
N begingroup	F lxmlid
N character	F number
N close	F scanclose
N comment	F scanopen
N endgroup	F skip
N endofline	F string
N escape	F token
N ignore	F tokens
N invalid	F toks
N letter	F word
N mathshift	F scannumber
N open	F scanopen
N other	F scanstring
N parameter	F scanword
N space	F toboolean
N subscript	F todimen
N superscript	T tokens
N whitespace	F astable
N close	U bgroup
F inspect	T collectors
N open	F defaultwords
F report	F dowithwords
F scanboolean	F flush
F scanclose	F install
F scancode	F register
F scanconditional	F show
F scanscname	F test
F scandimen	F compile
F scandimension	F constant
F scaninteger	T converters
F scankeyword	S toboolean
F scanlist	S todimen
T scanners	S toglue
F boolean	S tonumber
F code	S tostring



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 scansname
F skip	F scandimen
F token	F scandimension
U hbox	F scaninteger
F istoken	F scankeyword
F letter	F scanlist
F letters	F scannumber
F other	F scanopen
F pickup	F scanstring
F printlist	F scanword
F scantable	F toboolean
T setters	F todimen
F box	F tonumber
F count	F tostring
F dimen	U vbox
F glue	U vtop
F macro	F tonumber
F skip	F tostring
T shortcuts	<b>vbox</b> userdata
N close	<b>vtop</b> userdata
F inspect	

# tracers (context)

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

## trackers (context)

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

# typesetters (context)

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

F handler	
F keepligature	
B keptogether	
D mapping	
F set	
<b>manipulators</b>	<b>table</b>
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	
<b>margins</b>	<b>table</b>
F finalhandler	
F globalhandler	
F localhandler	
F save	
<b>marksuspects</b>	<b>function</b>
<b>paragraphs</b>	<b>table</b>
F addanchortoline	
F addtoline	
F calculatedelta	
F checkline	
F handler	
F moveinline	
F normalize	
F set	
<b>processors</b>	<b>table</b>
F apply	
F register	
F reset	
F split	
F startapply	
F stopapply	
F stripped	
F tostring	
<b>showsuspects</b>	<b>function</b>
<b>spacings</b>	<b>table</b>
F define	
F handler	
D mapping	
T numbers	
T frenchpunctuation	
T characters	
S name	
N number	
F reset	
F set	
F setup	
<b>wrappers</b>	<b>table</b>
F handler	
<b>xtables</b>	<b>table</b>
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

## 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 utf16\_to\_utf8\_be  
F utf16\_to\_utf8\_be\_t  
F utf16\_to\_utf8\_le  
F utf16\_to\_utf8\_le\_t  
F utf16\_to\_utf8\_t  
F utf32\_to\_utf8\_be  
F utf32\_to\_utf8\_be\_t  
F utf32\_to\_utf8\_le  
F utf32\_to\_utf8\_le\_t

F utf32\_to\_utf8\_t  
F utf8\_to\_utf16  
F utf8\_to\_utf16\_be  
F utf8\_to\_utf16\_le  
F utf8\_to\_utf8\_t  
F values  
F xstring

## url (context)

<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 readcardinal  
F readcardinal1  
F readcardinal2  
F readcardinal3  
F readcardinal4  
F readchar  
F readfixed4  
F readinteger  
F readinteger1  
F readinteger2  
F readinteger3  
F readinteger4  
F readstring  
F readtag  
F setposition  
F size  
F skip  
F skiplong  
F skipshort  
F writebyte  
F writecardinal2  
F writecardinal4  
F writestring

## **formatters** table

F formatcolumns  
F list

F stripzeros

## **garbagecollector** table

F check  
N criterium  
B enabled

## **lua** table

B alwaysstripcode  
F compile  
F loadedluacode  
F loadstripped  
N nofstrippedbytes  
N nofstrippedchunks  
B stripcode  
T strippedchunks  
F strippedloadstring  
T suffixes  
S lua  
S luc  
S lui  
S luj  
S luv  
S tma  
S tmc  
S tua  
S tuc

## **packers** table

F hashed  
F new  
F pack  
F simplehashed  
F strip  
F unpack  
N version

## **parsers** table

F add\_settings\_to\_array  
F arguments\_to\_table  
F array\_to\_string  
F csvsplitter  
F getparameters  
F groupedsplitat  
F hash\_to\_string

T hashes

T settings\_to\_set

T max,fit,broad,auto

B auto

B broad

B fit

B max

T text,hidden,paper,page,leftpage,rightpage

B hidden

B leftpage

B page

B paper

B rightpage

B text

F iterator

F keq\_to\_hash

F listitem

F make\_settings\_to\_hash\_pattern

F mergehashes

F options\_to\_array

F options\_to\_hash

T patterns

U settings\_to\_array

U settings\_to\_hash\_a

U settings\_to\_hash\_b

U settings\_to\_hash\_c

U unittotex

F process\_stripped\_settings

F rfc4180splitter

F runtime

F settings\_to\_array

F settings\_to\_array\_obey\_fences

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 unittotxml

## report

## sequencers

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

F disable

F enable

F initialize

F list

F new

F register

F report

F reset

F show

## stacker

F new

## storage

F allocate

F checked

F mark

F marked

F setinitializer

F sparse

## streams

F close

F getposition

F look

F open

function

table

table

table

table

table

- F read2dot14
- F readbyte
- F readbytes
- F readcardinal
- F readcardinal1
- F readcardinal2
- F readcardinal3
- F readcardinal4
- F readchar
- F readfixed4
- F readinteger
- F readinteger1
- F readinteger2
- F readinteger4
- F readstring
- F setposition
- F size
- F skip
- F skipbytes
- F skiplong
- F skipshort

## strings

table

- F collapsecrlf
- T formatters
  - F add
  - F new
- F newrepeater
- F nice

- T striplinepatterns
  - U collapse
  - U prune
  - U prune and collapse
  - U prune and no empty
  - U retain
  - U retain and collapse
  - U retain and no empty

- F striplines
- F striplong
- F tabtospace
- T tracers

## tables

table

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

## templates

table

- F load
- F replace
- F replacer
- F resolve

## vf (context)

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

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

## visualizers (context)

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

## xml (context)

<b>addentitiesdoctype</b>	function	D parsedxml	
<b>addspecialcode</b>	function	D string	
<b>after</b>	function	D tex	
<b>all</b>	function	D texline	
<b>applylpath</b>	function	D texspace	
<b>assign</b>	function	D verbose	
<b>attribute</b>	function	<b>defaultprotocol</b>	string
<b>badinclusions</b>	function	<b>delete</b>	function
<b>before</b>	function	<b>delete_element</b>	function
<b>body</b>	function	<b>each</b>	function
<b>builtinentities</b>	table	<b>each_element</b>	function
B amp		<b>elements</b>	function
B apos		<b>elementtocdata</b>	function
B gt		<b>empty</b>	function
B lt		<b>entities</b>	data table
B quot		<b>erase</b>	function
<b>cdata</b>	function	<b>errorhandler</b>	function
<b>cdatatotext</b>	function	<b>escaped</b>	function
<b>checkbom</b>	function	<b>expressions</b>	table
<b>checkerror</b>	function	F boolean	
<b>checknamespace</b>	function	F child	
<b>checkns</b>	function	F contains	
<b>cleansed</b>	function	F count	
<b>collect</b>	function	F error	
<del><b>collect_elements</b></del>	<del>function</del>	F find	
<b>collect_tags</b>	function	F idstring	
<del><b>collect_texts</b></del>	<del>function</del>	F lower	
<b>collected</b>	function	F name	
<b>collecttexts</b>	function	F number	
<b>content</b>	function	F oneof	
<b>convert</b>	function	F print	
<b>copy</b>	function	F quit	
<b>count</b>	function	F tag	
<b>cprint</b>	function	F text	
<b>css</b>	table	F undefined	
F colorspecification		F upper	
F dimension		<b>fillin</b>	function
F fontspecification		<b>filter</b>	function
F padding		<b>finalizers</b>	table
<b>defaulthandlers</b>	table	F paragraphs	
D file		T tex	

F all	F match	
F attribute	F name	
F chainattribute	F position	
F chainpath	F reverse	
F command	F table	
F concat	F tag	
F concatrange	F tags	
F context	F text	
F count	F texts	
F ctxtext	F upperall	
F default	<b>first</b>	function
F first	<b>found</b>	function
F function	<b>functions</b>	table
F index	<b>getbuffer</b>	function
F last	<b>gethandlers</b>	function
F lettered	<b>gethandlersfunction</b>	function
F lower	<b>helpers</b>	table
F lowerall	F recursetext	
F match	<b>include</b>	function
F name	<b>inclusion</b>	function
F position	<b>inclusions</b>	function
F reverse	<b>index</b>	function
F stripped	<b>inheritedconvert</b>	function
F tag	<b>inject</b>	function
F tags	<b>inject_element</b>	function
F text	<b>inject_element_after</b>	function
F upper	<b>inject_element_before</b>	function
F upperall	<b>injectafter</b>	function
T xml	<b>injectbefore</b>	function
F all	<b>insert</b>	function
F att	<b>insert_element</b>	function
F attribute	<b>insert_element_after</b>	function
F attributes	<b>insert_element_before</b>	function
F cdata	<b>insertafter</b>	function
F chainattribute	<b>insertbefore</b>	function
F count	<b>insertcdata</b>	function
F default	<b>insertcomment</b>	function
F elements	<b>inspect</b>	function
F empty	<b>is_valid</b>	function
F first	<b>kind</b>	function
F function	<b>last</b>	function
F index	<b>lastmatch</b>	function
F last	<b>load</b>	function
F lowerall	<b>lpath</b>	function

<b>lpathcached</b>	function	<b>save</b>	function
<b>lpathcalls</b>	function	<b>selection</b>	function
<b>lshow</b>	function	<b>separate</b>	function
<b>makestandalone</b>	function	<b>serialize</b>	function
<b>match</b>	function	<b>setcdata</b>	function
<b>name</b>	function	<b>setcomment</b>	function
<b>newhandlers</b>	function	<b>sethandlersfunction</b>	function
<b>nodesettostring</b>	function	<b>setinjectors</b>	function
<b>originalload</b>	function	<b>setproperty</b>	function
<b>package</b>	function	<b>settings</b>	function
<b>parent</b>	function	<b>specialcodes</b>	table
<b>parsedentitylpeg</b>	userdata	S "	
<b>pihandlers</b>	table	S #	
F injector		S \$	
F tex		S %	
<b>placeholders</b>	table	S &	
F unknown_any_entity		S '	
F unknown_dec_entity		S <	
F unknown_hex_entity		S >	
<b>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	<b>specialhandler</b>	table
<b>processattributes</b>	function	<b>sprint</b>	function
<b>profiled</b>	table	<b>string</b>	function
<b>raw</b>	function	<b>strip</b>	function
<b>registerentity</b>	function	<b>strip_whitespace</b>	function
<b>registers</b>	function	<b>stripelement</b>	function
<b>reindex</b>	function	<b>stripleadingspaces</b>	function
<b>remap_name</b>	function	<b>table</b>	function
<b>remap_namespace</b>	function	<b>text</b>	function
<b>remap_tag</b>	function	<b>textonly</b>	function
<b>remapname</b>	function	<b>texttocdata</b>	function
<b>remapnamespace</b>	function	<b>tocdata</b>	function
<b>remaptag</b>	function	<b>toelement</b>	function
<b>renamespace</b>	function	<b>tostring</b>	function
<b>reparsedentitylpeg</b>	userdata	<b>totable</b>	function
<b>replace</b>	function	<b>toxml</b>	function
<b>replace_element</b>	function	<b>tprint</b>	function
<b>resetinjectors</b>	function	<b>traverse</b>	function
<b>resolvns</b>	function	<b>unescaped</b>	function
<b>root</b>	function	<b>unescapedentitylpeg</b>	userdata



**unprivatized**  
**unspecialized**  
**withelement**

function  
function  
function

**withelements**  
**wrap**  
**xmlns**

function  
function  
table

## zip (extra lua)

**archives**

table

**close**

function

**closearchive**

function

**open**

overloaded function

**openarchive**

function

**openfile**

function

**registeredfiles**

table

**type**

function

## zlib (extra lua)

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

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