

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>LUAEXVERSION</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>gzip</b>	table
<b>caches</b>	table	<b>img</b>	table
<b>callback</b>	table	<b>inspect</b>	function
<b>callbacks</b>	table	<b>interactions</b>	table
<b>catcodes</b>	table	<b>interfaces</b>	table
<b>characters</b>	table	<b>io</b>	table
<b>chemistry</b>	table	<b>ipairs</b>	function
<b>collectgarbage</b>	function	<b>jit</b>	table
<b>commands</b>	table	<b>job</b>	table
<b>containers</b>	table	<b>lang</b>	table
<b>context</b>	function	<b>languages</b>	table
<b>converters</b>	table	<b>last</b>	number
<b>coroutine</b>	table	<b>layouts</b>	table
<b>ctxrunner</b>	table	<b>lfs</b>	table
<b>debug</b>	table	<b>libraries</b>	table
<b>dimen</b>	function	<b>lmx</b>	table
<b>dir</b>	table	<b>load</b>	function
<b>directives</b>	table	<b>loadfile</b>	function
<b>document</b>	table	<b>loadstring</b>	function
<b>documentdata</b>	table	<b>logs</b>	table
<b>dofile</b>	function	<b>lpdf</b>	table
<b>done</b>	boolean	<b>lpeg</b>	table
<b>environment</b>	table	<b>ltn12</b>	table
<b>epdf</b>	table	<b>lua</b>	table
<b>error</b>	function	<b>luatex</b>	table
<b>experiments</b>	table	<b>lxml</b>	table
<b>figures</b>	table	<b>math</b>	table

mathematics	table	sandbox	table
mbox	table	scripts	table
md5	table	select	function
metapost	table	set	table
mime	table	setfenv	function
module	function	setinspector	function
moduledata	table	setmetatable	function
modules	table	socket	table
mp	function	sorters	table
mplib	table	statistics	table
newproxy	function	status	table
next	function	storage	table
noads	table	streams	table
node	table	string	table
nodes	table	structures	table
number	table	swiglib	function
objects	table	table	table
optionalrequire	function	tex	table
os	table	texconfig	table
package	table	texio	table
pagebuilders	table	thirddata	table
pairs	function	toboolen	function
parametersets	table	tokens	table
pcall	function	tonumber	function
pdf	table	tostring	function
pdfboolean	function	tracers	table
pdfnull	function	trackers	table
pdfreference	function	type	function
pdfscanner	table	typesetters	table
pdfverbose	function	unicode	table
physics	table	unpack	function
print	function	url	table
profiler	table	userdata	table
publications	table	utf	table
rawequal	function	utilities	table
rawget	function	vf	table
rawlen	function	visualizers	table
rawset	function	xml	table
regimes	table	xpcall	function
require	function	zip	table
resolvers	table	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
- B couple
- D data
- N default
- F defineintermediatecolor
- F definemultitonecolor
- F defineprocesscolor
- F definesimplegray
- F definespotcolor
- F definetransparency
- F enable
- F filter
- F forcedmodel
- F forcesupport
- F formatcolor
- F formatgray
- F getpagecolormodel
- F gray
- F graytohsb
- F handler
- F hstogray
- F hstorgb
- F iccprofile
- F isblack
- N main
- S model
- D models
- F mpcolor
- F mpnamedcolor

- F moptions
- U none
- F popset
- F processcolorcomponents
- F pushset
- F register
- D registered
- F registerspotcolor
- F rgb
- F rgbtocmyk
- F rgbtorgay
- F rgbtohsb
- 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
- F value
- D values
- B weightgray

define

effects

function

table

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

handlers

list

names

table

data table

data table

<b>negatives</b>	table	U none	
N attribute		F register	
D data		D registered	
F enable		B supported	
F handler		B triggering	
F register		F value	
D registered		D values	
F set		<b>unsetvalue</b>	number
<b>numbers</b>	data table	<b>viewerlayers</b>	table
<b>ofnode</b>	function	N attribute	
<b>private</b>	function	F cleanup	
<b>public</b>	function	D data	
<b>restore</b>	function	F define	
<b>save</b>	function	F definedlayoutcomponent	
<b>showcurrent</b>	function	F enable	
<b>states</b>	table	F forcesupport	
F disabletriggering		F handler	
F enabletriggering		B hasorder	
F finalize		D listwise	
F initialize		F register	
F process		D registered	
F selective		F resolve_begin	
F stacked		F resolve_end	
F stacker		F resolve_reset	
<b>system</b>	function	F resolve_step	
<b>transparencies</b>	table	D scopes	
N attribute		F setfeatures	
D data		F start	
F enable		F stop	
F forcesupport		B supported	
F handler		D values	

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

# builders (context)

## kernel table

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

## paragraphs table

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

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

## profiling table

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

## vspacing table

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

## cache (context)

<b>ask</b>	boolean	<b>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 calculatescale

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 oftf

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 nodemodeinitializer
F chainposition	F packoutlines
F chainsubstitution	D pdfcache
F kern	T readers
F ligature	F addunicodetable
F multiple	D cache
F pair	F cff
F substitution	F checkhash
F register	F cmap
S stepkey	F colr
F dataset	F compact
S defaultbasealternate	F cpal
S defaultnodealternate	F expand
D enhancers	F extend
D features	F gdef
F featuresprocessor	F getcomponents
F getactualtext	F getinfo
F getalternate	F glyf
F getgsub	F gpos
F getkern	F gsub
F getmultiple	F head
F getsubstitution	F hhea

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

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



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

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

N hamzalowkasratanarabic  
N hatafpatah  
N hatafpatah16  
N hatafpatah23  
N hatafpatah2f  
N hatafpatahhebrew  
N hatafpatahnarrowhebrew  
N hatafpatahquarterhebrew  
N hatafqamats  
N hatafqamats1b  
N hatafqamats28  
N hatafqamats34  
N hatafqamatshebrew  
N hatafqamatsnarrowhebrew  
N hatafqamatsquarterhebrew  
N hatafsego1  
N hatafsego117  
N hatafsego124  
N hatafsego130  
N hatafsego1hebrew  
N hatafsego1narrowhebrew  
N hatafsego1quarterhebrew  
N he  
N hedagesh  
N hehfinalalttwoarabic  
N het  
N hiriq  
N hiriq14  
N hiriq21  
N hiriq2d  
N hiriqhebrew  
N hiriqnarrowhebrew  
N hiriqquarterhebrew  
N holam  
N holam19  
N holam26  
N holam32  
N holamhebrew  
N holamnarrowhebrew  
N holamquarterhebrew  
N ilde  
N integralbottom  
N integraltop  
N kaf

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

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

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

N Dhook  
N Dstroke  
N Dzcaronligature  
N Dzligature  
N Eacute  
N Ebreve  
N Ecaron  
N Ecedilla  
N Ecircumflex  
N Ecircumflexacute  
N Ecircumflexdotbelow  
N Ecircumflexgrave  
N Ecircumflexhook  
N Ecircumflextilde  
N Ediaeresis  
N Edotaccent  
N Edotbelow  
N Edoublegrave  
N Egrave  
N Ehook  
N Einvertedbreve  
N Emacron  
N Eogonek  
N Eth  
N Etilde  
N Fhook  
N Gacute  
N Gbreve  
N Gcaron  
N Gcircumflex  
N Gcommaaccent  
N Gdotaccent  
N Ghook  
N Gstroke  
N Hcaron  
N Hcircumflex  
N Hstroke  
N IJligature  
N Iacute  
N Ibreve  
N Icaron  
N Icircumflex  
N Idiaeresis  
N Idotaccent

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

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

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

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



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

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

N cyrillicebreve	N cyrillicl
N cyrillicediaeresis	N cyrilliclittleyus
N cyrillicegrave	N cyrilliclittleyusiotified
N cyrilliceiotified	N cyrilliclje
N cyrilliceltail	N cyrillicm
N cyrillicemtail	N cyrillicn
N cyrillicendc	N cyrillicnje
N cyrillicenghe	N cyrillico
N cyrillicenhook	N cyrillicobarred
N cyrillicentail	N cyrillicobarreddiaeresis
N cyrillicerev	N cyrillicodiaeresis
N cyrillicertick	N cyrillicomega
N cyrillicery	N cyrillicomegaround
N cyrillicf	N cyrillicomegatitlo
N cyrillicfita	N cyrillicot
N cyrillicg	N cyrillicp
N cyrillicghemidhook	N cyrillicpemidhook
N cyrillicghestroke	N cyrillicpsi
N cyrillicgheupturn	N cyrillicr
N cyrillicgje	N cyrillics
N cyrillich	N cyrillicschwa
N cyrillicha	N cyrillicschwadiaeresis
N cyrillichadc	N cyrillicsdsc
N cyrillichrdsn	N cyrillicsemisoft
N cyrillici	N cyrillicsftsn
N cyrillicidiaeresis	N cyrillicsh
N cyrillicie	N cyrillicshch
N cyrillicigrave	N cyrillicshha
N cyrillicii	N cyrillict
N cyrillicimacron	N cyrillictedc
N cyrillicishrt	N cyrillicttetse
N cyrillicishrttail	N cyrillictshe
N cyrillicizhitsa	N cyrillicu
N cyrillicizhitsadoublegrave	N cyrillicudiaeresis
N cyrillicje	N cyrillicudoubleacute
N cyrillick	N cyrillicuk
N cyrillickabashkir	N cyrillicumacron
N cyrillickadc	N cyrillicushrt
N cyrillickahook	N cyrillicv
N cyrillickastroke	N cyrillicya
N cyrillickavertstroke	N cyrillicyat
N cyrillickje	N cyrillicyerudiaeresis
N cyrillickoppa	N cyrillicyi
N cyrillicksi	N cyrillicyo

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

N eogonek  
N etilde  
N exclamdown  
N ffligature  
N ffligature  
N ffligature  
N fhook  
N figurespace  
N filigature  
N fiveeighths  
N fivesixths  
N flligature  
N fourfifths  
N fourperemspace  
N gacute  
N gbreve  
N gcaron  
N gcircumflex  
N gcommaaccent  
N gdotaccent  
N greekAlpha  
N greekAlphadasia  
N greekAlphadasiaaperispomeni  
N greekAlphadasiatonos  
N greekAlphadasiaavaria  
N greekAlphaiotasub  
N greekAlphaiotasubdasia  
N greekAlphaiotasubdasiaperispomeni  
N greekAlphaiotasubdasiatonos  
N greekAlphaiotasubdasiavaria  
N greekAlphaiotasubpsili  
N greekAlphaiotasubpsiliperispomeni  
N greekAlphaiotasubpsilitonos  
N greekAlphaiotasubpsilivaria  
N greekAlphamacron  
N greekAlphapsili  
N greekAlphapsiliperispomeni  
N greekAlphapsilitonos  
N greekAlphapsilivaria  
N greekAlphatonos  
N greekAlphavaria  
N greekAlphavrachy  
N greekBeta  
N greekChi

N greekCoronis	N greekIotavaria
N greekDelta	N greekIotavrachy
N greekEpsilon	N greekKappa
N greekEpsilondasia	N greekLambda
N greekEpsilondasiatonos	N greekMu
N greekEpsilondasiavaria	N greekNu
N greekEpsilonpsili	N greekOmega
N greekEpsilonpsilitonos	N greekOmegadasia
N greekEpsilonpsilivaria	N greekOmegadasiaisperispomeni
N greekEpsilontonos	N greekOmegadasiatonos
N greekEpsilonvaria	N greekOmegadasiaavaria
N greekEta	N greekOmegaiotasub
N greekEtadasia	N greekOmegaiotasubdasia
N greekEtadasiaisperispomeni	N greekOmegaiotasubdasiaisperispomeni
N greekEtadasiatonos	N greekOmegaiotasubdasiatonos
N greekEtadasiaavaria	N greekOmegaiotasubdasiaavaria
N greekEtaiotasub	N greekOmegaiotasubpsili
N greekEtaiotasubdasia	N greekOmegaiotasubpsiliperispomeni
N greekEtaiotasubdasiaisperispomeni	N greekOmegaiotasubpsilitonos
N greekEtaiotasubdasiatonos	N greekOmegaiotasubpsilivaria
N greekEtaiotasubdasiaavaria	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 greekIotadasiaisperispomeni	N greekOmicronvaria
N greekIotadasiatonos	N greekPhi
N greekIotadasiaavaria	N greekPi
N greekIotadialytika	N greekPsi
N greekIotamacron	N greekRho
N greekIotapsili	N greekRhodasia
N greekIotapsiliperispomeni	N greekSigma
N greekIotapsilitonos	N greekSigmalunate
N greekIotapsilivaria	N greekTau
N greekIotatonos	N greekTheta

N greekUpsilon	N greekdasiavaria
N greekUpsilondasia	N greekdelta
N greekUpsilondasiaperispomeni	N greekdialytikaperispomeni
N greekUpsilondasiatonos	N greekdialytikatonos
N greekUpsilondasiavaria	N greekdialytikavaria
N greekUpsilondialytika	N greekdigamma
N greekUpsilonmacron	N greekepsilon
N greekUpsilontonos	N greekepsilonalt
N greekUpsilonvaria	N greekepsilondasia
N greekUpsilonvrachy	N greekepsilondasiatonos
N greekXi	N greekepsilondasiavaria
N greekZeta	N greekepsilonoxia
N greekalpha	N greekepsilonpsili
N greekalphadasia	N greekepsilonpsilitonos
N greekalphadasiaperispomeni	N greekepsilonpsilivaria
N greekalphadasiatonos	N greekepsilontonos
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 greekalphapsilivaria	N greeketaperispomeni
N greekalphatonos	N greeketapsili
N greekalphavaria	N greeketapsiliperispomeni
N greekalphavrachy	N greeketapsilitonos
N greekbeta	N greeketapsilivaria
N greekchi	N greeketatonos
N greekdasia	N greeketavaria
N greekdasiaperispomeni	N greekfinalsigma
N greekdasiatonos	N greekgamma

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 greekomegaiotasubperispomeni	N greekstigma
N greekomegaiotasubpsili	N greektau
N greekomegaiotasubpsiliperispomeni	N greektheta
N greekomegaiotasubpsilitonos	N greekthetaalt
N greekomegaiotasubpsilivaria	N greektonos
N greekomegaiotasubtonos	N greekupsilon
N greekomegaiotasubvaria	N greekupsilondasia
N greekomegaoxia	N greekupsilondasiaperispomeni
N greekomegaperispomeni	N greekupsilondasiatonos

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

N ncaron	N ordfeminine
N ncommaaccent	N ordmasculine
N ncurl	N ostroke
N neng	N ostrokeacute
N ngrave	N otilde
N njligature	N otildemacron
N nobreakspace	N paragraphmark
N ntilde	N periodcentered
N oacute	N perthousand
N obreve	N phook
N ocaron	N punctuationspace
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 oneeighth	N romanM
N onefifth	N romanV
N onehalf	N romanVI
N onequarter	N romanVII
N onesixth	N romanVIII
N onesuperior	N romanX
N onethird	N romanXI
N oogonek	N romanXII
N oogonekmacron	N romanc



N romand	N textbraceright
N romani	N textbreve
N romanii	N textbrokenbar
N romaniii	N textbullet
N romaniv	N textcaron
N romanix	N textcedilla
N romanl	N textcelsius
N romanm	N textcent
N romanv	N textcircledP
N romanvi	N textcircumflex
N romanvii	N textcomma
N romanviii	N textcurrency
N romanx	N textdag
N romanxi	N textddag
N romanxii	N textdegree
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 textampersand	N textogonek
N textasciicircum	N textohm
N textasciitilde	N textounce
N textat	N textpercent
N textbackslash	N textperiod
N textbar	N textpm
N textbottomcomma	N textring
N textbottomdot	N textslash
N textbraceleft	N textsterling

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 zerowidthnobreakspace
N threesuperior	N zerowidthspace
N trademark	N zhook
N tstroke	N zstroke
N twofifths	N zwj
N twosuperior	N zwnj
N twothirds	F is_known
N uacute	D known
N ubreve	F load
N ucaron	F make_unicode_vector
N ucircumflex	D math
N udiaeresis	T names
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 uinvertedbreve	N Acircumflex
N umacron	N Acircumflexacute
N uogonek	N Acircumflexdotbelow
N uring	N Acircumflexgrave
N utilde	N Acircumflexhookabove
N wcircumflex	N Acircumflextilde
N yacute	N Acyrillic
N ycircumflex	N Adblgrave
N ydiaeresis	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  
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 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  
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 N Cdot  
 N Cdotaccent  
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 N Checyrillic  
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 N Chekhakassiancyrillic  
 N Cheverticalstrokecyrillic  
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 N Chook  
 N Cmonospace  
 N Coarmenian  
 N D  
 N DZ  
 N DZcaron  
 N Daarmenian  
 N Dafrican  
 N Dcaron  
 N Dcedilla  
 N Dcircle  
 N Dcircumflexbelow  
 N Dcroat  
 N Ddotaccent  
 N Ddotbelow  
 N Decyrillic  
 N 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  
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 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  
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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 Gangiacoptic  
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 Iishortcyrillic
N H18543	N Imacron
N H18551	N Imacroncyrillic
N H22073	N Imonospace
N HPsquare	N Iniarmenian
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N Hadesclendercyrlilic	N Iogonek
N Hardsigncyrlilic	N Iota
N Hbar	N Iotaafrican
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N Hcedilla	N Iotatonos
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N Hcircumflex	N Itilde
N Hdieresis	N Itildebelow
N Hdotaccent	N Izhitsacyrlilic
N Hdotbelow	N Izhitsadblgravecyrlilic
N Hmonospace	N J
N Hoarmenian	N Jaarmenian
N Horicoptic	N Jcircle
N Hzsquare	N Jcircumflex
N I	N Jecyrlilic
N IAcyrlilic	N Jheharmenian
N IJ	N Jmonospace
N IUcyrlilic	N K
N Iacute	N KBsquare
N Ibreve	N KKsquare
N Icaron	N Kabashkircyrlilic
N Icircle	N Kacute
N Icircumflex	N Kacyrlilic
N Icyrlilic	N Kadescclendercyrlilic
N Idblgrave	N Kahookcyrlilic
N Idieresis	N Kappa
N Idieresisacute	N Kastrokcyrlilic
N Idieresiscyrlilic	N Kaverticalstrokcylilic
N Idot	N Kcaron
N Idotaccent	N Kcedilla
N Idotbelow	N Kcircle
N Iebrevcyrlilic	N Kcommaaccent
N Iecyrlilic	N Kdotbelow
N Ifraktur	N Keharmenian
N Igrave	N Kenarmenian
N Ihookabove	N Khacyrlilic
N Iicyrlilic	N Kheicoptic
N Iinvertedbreve	N Khook

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

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
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N Otildeacute	N SF060000
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N Peharmerian	N SF190000
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N Phi	N SF200000
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N Rcaron	N SF390000

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N SF80000  
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N Sacutedotaccent  
N Sampigreek  
N Scaron  
N Scarondotaccent  
N Scedilla  
N Schwa  
N Schwacyrillic  
N Schwadiesiscyrillic  
N Scircle  
N Scircumflex  
N Scommaaccent  
N Sdotaccent  
N Sdotbelow  
N Sdotbelowdotaccent  
N Seharmerian  
N Sevenroman  
N Shaarmenian  
N Shacyrillic  
N Shchacyrillic  
N Sheicoptic  
N Shhacyrillic  
N Shimacoptic

N Sigma  
N Sixroman  
N Smonospace  
N Softsigncyrillic  
N Stigmagreek  
N T  
N Tau  
N Tbar  
N Tcaron  
N Tcedilla  
N Tcircle  
N Tcircumflexbelow  
N Tcommaaccent  
N Tdotaccent  
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N Tecyrillic  
N Tedescendercyrillic  
N Tenroman  
N Tetsecyrillic  
N Theta  
N Thook  
N Thorn  
N Threeroman  
N Tiwnarmenian  
N Tlinebelow  
N Tmonospace  
N Toarmenian  
N Tonefive  
N Tonesix  
N Tonetwo  
N Retroflexhook  
N Tsecyrillic  
N Tshecyrillic  
N Twelveroman  
N Tworoman  
N U  
N Uacute  
N Ubreve  
N Ucaron  
N Ucircle  
N Ucircumflex  
N Ucircumflexbelow  
N Ucyrillic  
N Udblacute



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
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N Umonospace	N Yatcyrillic
N Uogonek	N Ycircle
N Upsilon	N Ycircumflex
N Upsilon1	N Ydieresis
N Upsilonacutehooksymbolgreek	N Ydotaccent
N Upsilonafrican	N Ydotbelow
N Upsilondieresis	N Yericyrillic
N Upsilondieresishooksymbolgreek	N Yerudieresiscyrillic
N Upsilonhooksymbol	N Ygrave
N Upsilontonos	N Yhook
N Uring	N Yhookabove
N Ushortcyrillic	N Yiarmenian
N Ustraightcyrillic	N Yicyrillic
N Ustraightstrokecyrillic	N Yiwnarmenian
N Utilde	N Ymonospace
N Utildeacute	N Ytilde
N Utildebelow	N Yusbigcyrillic
N V	N Yusbigiotifiedcyrillic
N Vcircle	N Yuslittlecyrillic
N Vdotbelow	N Yuslittleiotifiedcyrillic

N Z	N acircle
N Zaarmenian	N acircumflex
N Zacute	N acircumflexacute
N Zcaron	N acircumflexdotbelow
N Zcircle	N acircumflexgrave
N Zcircumflex	N acircumflexhookabove
N Zdot	N acircumflextilde
N Zdotaccent	N acute
N Zdotbelow	N acutebelowcmb
N Zecyrillic	N acutecmb
N Zedescendercyrillic	N acutecomb
N Zedieresiscyrillic	N acutedeva
N Zeta	N acutelowmod
N Zhearmenian	N acutetonecmb
N Zhebrevecyrillic	N acyrillic
N Zhecyrillic	N adblgrave
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N Zlinebelow	N adieresis
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N afii57807	N alefhamzabelowfinalarabic
N afii57839	N alefhebrew
N afii57841	N aleflamedhebrew
N afii57842	N alefmaddaabovearabic
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N afii61289	N alefmaksurafinalarabic
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N afii61573	N alefmaksuramedialarabic

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N aleph	N arrowdashleft
N allequal	N arrowdashright
N alpha	N arrowdashup
N alphanos	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 arrowlefttoverright
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 arrowupdnbase
N approaches	N arrowupdownbase
N approxequal	N arrowupleft
N approxequalorimage	N arrowupleftofdown
N approximatelyequal	N arrowupright
N araeaeakorean	N arrowupwhite
N araeakorean	N asciicircum
N arc	N asciicircummonospace
N arighthalfring	N asciitilde
N aring	N asciitildemonospace
N aringacute	N ascript
N aringbelow	N ascriptturned

N asmallhiragana  
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 N asmallkatakanahalfwidth  
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 N asteriskaltonearabic  
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 N asteriskmath  
 N asteriskmonospace  
 N asterisksmall  
 N asterism  
 N asymptoticallyequal  
 N at  
 N atilde  
 N atmonospace  
 N atsmall  
 N aturned  
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 N aubopomofo  
 N audeva  
 N augujarati  
 N augurmukhi  
 N aulengthmarkbengali  
 N aumatragurmukhi  
 N auvowelsignbengali  
 N auvowelsigndeva  
 N auvowelsigngujarati  
 N avagrahadeva  
 N aybarmenian  
 N ayin  
 N ayinaltonehebrew  
 N ayinhebrew  
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 N backslashmonospace  
 N badeva  
 N bagujarati  
 N bagurmukhi  
 N bahiragana  
 N bahtthai  
 N bakatakana  
 N bar  
 N barmonospace  
 N bbopomofo

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 N bdotbelow  
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 N bhagurmukhi  
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 N bikatakana  
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 N bindigurmukhi  
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 N blacklenticularbracketright  
 N blacklenticularbracketrightvertical  
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 N blacklowerrighttriangle

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N blackrightpointingtriangle	N bulletinverse
N blacksmallsquare	N bulletoperator
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N blackuppointingsmalltriangle	N cadeva
N blackuppointingtriangle	N cagujarati
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N block	N candrabindubengali
N bmonospace	N candrabinducmb
N bobaimaithai	N candrabindudeva
N bohiragana	N candrabindugujarati
N bokatakana	N capslock
N bparen	N careof
N bsquare	N caron
N braceleft	N caronbelowcmb
N braceleftmonospace	N caroncmb
N braceleftsmall	N carriagereturn
N braceleftvertical	N cbopomofo
N braceright	N ccaron
N bracerightmonospace	N ccedilla
N bracerightsmall	N ccedillaacute
N bracerightvertical	N ccircle
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N bracketleftmonospace	N ccurl
N bracketright	N cdot
N bracketrightmonospace	N cdotaccent
N breve	N cdsquare
N brevebelowcmb	N cedilla
N brevecmb	N cedillacmb
N breveinvertedbelowcmb	N cent
N breveinvertedcmb	N centigrade
N breveinverteddoublecmb	N centmonospace
N bridgebelowcmb	N chaarmenian
N bridgeinvertedbelowcmb	N chabengali
N brokenbar	N chadeva
N bstroke	N chagujarati
N btopbar	N chagurmukhi
N buhiragana	N chbopomofo



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 colontriangularmod
N chieuchaparenkorean	N comma
N chieuchcirclekorean	N commaabovecmb
N chieuchkorean	N commaaboveverightcmb
N chieuchparenkorean	N commaarabic
N chochangthai	N commaarmenian
N chochanthai	N commamonospace
N chochingthai	N commareversedabovecmb
N chochoethai	N commareversedmod
N chook	N commasmall
N cieucacirclekorean	N commaturnedabovecmb
N cieucaparenkorean	N commaturnedmod
N cieuccirclekorean	N compass
N cieuckorean	N congruent
N cieucparenkorean	N contourintegral
N cieucuparenkorean	N control
N circle	N controlACK
N circlemultiply	N controlBEL
N circleot	N controlBS
N circleplus	N controlCAN
N circlepostalmark	N controlCR
N circlewithlefthalfblack	N controlDC1
N circlewithrighthalfblack	N controlDC2
N circumflex	N controlDC3
N circumflexbelowcmb	N controlDC4
N circumflexcmb	N controlDEL
N clear	N controlDLE
N clickalveolar	N controlEM
N clickdental	N controlENQ
N clicklateral	N controlEOT
N clickretroflex	N controlESC
N club	N controlETB
N clubsuitblack	N controlETX
N clubsuitwhite	N controlFF

N controlFS  
 N controlGS  
 N controlHT  
 N controlLF  
 N controlNAK  
 N controlRS  
 N controlSI  
 N controlSO  
 N controlSOT  
 N controlSTX  
 N controlSUB  
 N controlSYN  
 N controlUS  
 N controlVT  
 N copyright  
 N cornerbracketleft  
 N cornerbracketlefthalfwidth  
 N cornerbracketleftvertical  
 N cornerbracketright  
 N cornerbracketrighthalfwidth  
 N cornerbracketrightvertical  
 N corporationsquare  
 N cosquare  
 N coverkgsquare  
 N cparen  
 N cruzeiro  
 N cstretched  
 N curlyand  
 N curlyor  
 N currency  
 N d  
 N daarmenian  
 N dabengali  
 N dadarabic  
 N dadeva  
 N dadfinalarabic  
 N dadinitialarabic  
 N dadmedialarabic  
 N dagesh  
 N dageshhebrew  
 N dagger  
 N daggerdbl  
 N dagujarati  
 N dagurmukhi

N dahiragana  
 N dakatakana  
 N dalarabic  
 N dalet  
 N daletdagesh  
 N daletdageshhebrew  
 N daletthatafpatah  
 N daletthatafpatahhebrew  
 N daletthatafsegol  
 N daletthatafsegolhebrew  
 N dalethebrew  
 N daletthiriq  
 N daletthiriqhebrew  
 N dalettholam  
 N dalettholamhebrew  
 N daletpatah  
 N daletpatahhebrew  
 N daletqamats  
 N daletqamatshebrew  
 N daletqubuts  
 N daletqubutshebrew  
 N daletsegol  
 N daletsegolhebrew  
 N daletsheva  
 N daletshevahebrew  
 N dalettsere  
 N dalettserehebrew  
 N dalfinalarabic  
 N dammaarabic  
 N dammalowarabic  
 N dammatanaltonearabic  
 N dammatanarabic  
 N danda  
 N dargahebrew  
 N dargalefthebrew  
 N dasiapneumatacyrilliccmb  
 N dblanglebracketleft  
 N dblanglebracketleftvertical  
 N dblanglebracketright  
 N dblanglebracketrightvertical  
 N dblarchinvertedbelowcmb  
 N dblarrowleft  
 N dblarrowright  
 N dbldanda

N dblgravecmb  
 N dblintegral  
 N dbllowline  
 N dbllowlinecmb  
 N dbloverlinecmb  
 N dblprimemod  
 N dblverticalbar  
 N dblverticalallineabovecmb  
 N dbopomofo  
 N dbsquare  
 N dcaron  
 N dcedilla  
 N dcircle  
 N dcircumflexbelow  
 N dcroat  
 N ddabengali  
 N ddadeva  
 N ddagujarati  
 N ddagurmukhi  
 N ddalarabic  
 N ddalfinalarabic  
 N dddhadeva  
 N ddhabengali  
 N ddhadeva  
 N ddhagujarati  
 N ddhagurmukhi  
 N ddotaccent  
 N ddotbelow  
 N decimalseparatorarabic  
 N decimalseparatorpersian  
 N decyrillic  
 N degree  
 N dehihebrew  
 N dehiragana  
 N deicoptic  
 N dekatakana  
 N deleteleft  
 N deleteright  
 N delta  
 N deltaturned  
 N denominatorminusonenumeratorbengali  
 N dezh  
 N dhabengali  
 N dhadeva

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

N doubleyodpatahhebrew	N eegurmukhi
N downtackbelowcmb	N eematragurmukhi
N downtackmod	N efcyrillic
N dparen	N egrave
N dtail	N egujarati
N dtopbar	N eharmenian
N duhiragana	N ehbopomofo
N dukatakana	N ehiragana
N dz	N ehookabove
N dzaltone	N eibopomofo
N dzcaron	N eight
N dzcurl	N eightarabic
N dzeabkhasiancyrillic	N eightbengali
N dzecyrillic	N eightcircle
N dzhecyrillic	N eightcircleinversesansserif
N e	N eightdeva
N eacute	N eightteencircle
N earth	N eighteenparen
N ebengali	N eighteenperiod
N ebopomofo	N eightgujarati
N ebreve	N eightgurmukhi
N ecandradeva	N eighthackarabic
N ecandragujarati	N eighthangzhou
N ecandravowelsigndeva	N eighthnotebeamed
N ecandravowelsigngujarati	N eightideographicparen
N ecaron	N eightinferior
N ecedillabreve	N eightmonospace
N echarmenian	N eightparen
N echiwnarmenian	N eightperiod
N ecircle	N eightpersian
N ecircumflex	N eightroman
N ecircumflexacute	N eightsuperior
N ecircumflexbelow	N eightthai
N ecircumflexdotbelow	N einvertedbreve
N ecircumflexgrave	N eiotifiedcyrillic
N ecircumflexhookabove	N ekatakana
N ecircumflextilde	N ekatakanahalfwidth
N ecyrillic	N ekonkargurmukhi
N edblgrave	N ekorean
N edeva	N elcyrillic
N edieresis	N element
N edot	N elevencircle
N edotaccent	N elevenparen
N edotbelow	N elevenperiod

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 epsilon-tonos	N ezh
N equal	N ezhcaron
N equalmonospace	N ezhcurl
N equalsmall	N ezhreversed
N equalsuperior	N ezhtail
N equivalence	N f
N erbopomofo	N fadeva
N ercyrillic	N fagurmukhi
N ereversed	N fahrenheit
N ereversedcyrillic	N fathaarabic
N escyrillic	N fathalowarabic
N esdescendercyrillic	N fathatanarabic
N esh	N fbopomofo

N fcircle  
 N fdotaccent  
 N feharabic  
 N feharmenian  
 N fehfinalarabic  
 N fehinitialarabic  
 N fehmedialarabic  
 N feicoptic  
 N female  
 N ff  
 N ffi  
 N ffl  
 N fi  
 N fifteencircle  
 N fifteenparen  
 N fifteenperiod  
 N figuredash  
 N filledbox  
 N filledrect  
 N finalkaf  
 N finalkafdagesh  
 N finalkafdageshhebrew  
 N finalkafhebrew  
 N finalkafqamats  
 N finalkafqamatshebrew  
 N finalkafsheva  
 N finalkafshevahebrew  
 N finalmem  
 N finalmemhebrew  
 N finalnun  
 N finalnunhebrew  
 N finalpe  
 N finalpehebrew  
 N finaltsadi  
 N finaltsadihebrew  
 N firsttonechinese  
 N fisheye  
 N fitacyrillic  
 N five  
 N fivearabic  
 N fivebengali  
 N fivecircle  
 N fivecircleinversesansserif  
 N fivedeva

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

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

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 greater-small	N hatafpatah23
N gscript	N hatafpatah2f
N gstroke	N hatafpatahhebrew
N guhiragana	N hatafpatahnarrowhebrew
N guillemotleft	N hatafpatahquarterhebrew
N guillemotright	N hatafpatahwidehebrew
N guilsinglleft	N hatafqamats
N guilsinglright	N hatafqamats1b
N gukatakana	N hatafqamats28
N gurusquare	N hatafqamats34
N gysquare	N hatafqamatshebrew
N h	N hatafqamatsnarrowhebrew
N haabkhasiancyrillic	N hatafqamatsquarterhebrew
N haaltonearabic	N hatafqamatswidehebrew
N habengali	N hatafsegol
N hadescendercyrillic	N hatafsegol17
N hadeva	N hatafsegol24
N hagu-jarati	N hatafsegol30
N hagurmukhi	N hatafsegolhebrew
N haharabic	N hatafsegolnarrowhebrew
N hahfinalarabic	N hatafsegolquarterhebrew
N hahinitialarabic	N hatafsegolwidehebrew
N hahiragana	N hbar
N hahmedialarabic	N hbopomofo
N haitusquare	N hbrevebelow
N hakatakana	N hcedilla
N hakatakanahalfwidth	N hcircle
N halantgurmukhi	N hcircumflex
N hamzaarabic	N hdieresis
N hamzadammaarabic	N hdotaccent
N hamzadammatanarabic	N hdotbelow
N hamzafathaarabic	N he
N hamzafathatanarabic	N heart
N hamzalarabic	N heartsuitblack
N hamzalarabicasraarabic	N heartsuitwhite
N hamzalarabicasratanarabic	N hedagesh



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 hehhamzaabovisolatedarabic	N holamnarrowhebrew
N hehinitialaltonearabic	N holamquarterhebrew
N hehinitialarabic	N holamwidehebrew
N hehiragana	N honokhukthai
N hehmedialaltonearabic	N hookabovecomb
N hehmedialarabic	N hookcmb
N heiseierasquare	N hookpalatalizedbelowcmb
N hekatakana	N hookretroflexbelowcmb
N hekatakanahalfwidth	N hoonsquare
N hekutaarusquare	N horicoptic
N henghook	N horizontalbar
N herutusquare	N horncmb
N 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 hiriq14	N hyphenmonospace
N hiriq21	N hyphensmall
N hiriq2d	N hyphtwo
N hiriqhebrew	N i
N hiriqnarrowhebrew	N iacute
N hiriqquarterhebrew	N iacyrillic
N hiriqwidehebrew	N ibengali
N hlinebelow	N ibopomofo
N hmonospace	N ibreve
N hoarmenian	N icaron
N hohipthai	N icircle

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

N iluyhebrew  
N imacron  
N imacroncyrillic  
N imageorapproximatelyequal  
N imatragurmukhi  
N imonospace  
N increment  
N infinity  
N iniarmenian  
N integral  
N integralbottom  
N integralbt  
N integraltop  
N integraltp  
N intersection  
N intisquare  
N invbullet  
N invcircle  
N invsmileface  
N iocyrlilic  
N iogonek  
N iota  
N iotadieresis  
N iotadieresis-tonos  
N iotalatin  
N iotatonos  
N iparen  
N irigurmukhi  
N ismallhiragana  
N ismallkatakana  
N ismallkatakana-halfwidth  
N issharbengali  
N istroke  
N iterationhiragana  
N iterationkatakana  
N itilde  
N itildebelow  
N iubopomofo  
N iucyrlilic  
N ivowelsignbengali  
N ivowelsigndeva  
N ivowelsigngujarati  
N izhitsacyrlilic  
N izhitsadblgravecyrlilic

N j  
N jaarmenian  
N jabengali  
N jadeva  
N jagujarati  
N jagurmukhi  
N jbobomofo  
N jcaron  
N jcircle  
N jcircumflex  
N jcrossedtail  
N jdotlessstroke  
N jecyrlilic  
N jeemarabic  
N jeemfinalarabic  
N jeeminitialarabic  
N jeemmedialarabic  
N jeharabic  
N jehfinalarabic  
N jhabengali  
N jhadeva  
N jhagujarati  
N jhagurmukhi  
N jheharmenian  
N jis  
N jmonospace  
N jparen  
N jsuperior  
N k  
N kabashkircyrlilic  
N kabengali  
N kacute  
N kacyrillic  
N kadescentercyrlilic  
N kadeva  
N kaf  
N kafarabic  
N kafdagesh  
N kafdageshhebrew  
N kaffinalarabic  
N kafhebrew  
N kafinitialarabic  
N kafmedialarabic  
N kafrafehebrew

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

N kparen	N lammeeminitialarabic
N kpsquare	N lammeemjeeminitialarabic
N ksicyrillic	N lammeemkhahinitialarabic
N ktsquare	N largecircle
N kturned	N lbar
N kuhiragana	N lbelt
N kukatakana	N lbopomofo
N kukatakanahalfwidth	N lcaron
N kvsquare	N lcedilla
N kwsquare	N lcircle
N l	N lcircumflexbelow
N labengali	N lcommaaccent
N lacute	N ldot
N ladeva	N ldotaccent
N lagujarati	N ldotbelow
N lagurmukhi	N ldotbelowmacron
N 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 lessoverequal
N lamarabic	N lesssmall
N lambda	N lezh
N lambdastroke	N lfblock
N lamed	N lhookretroflex
N lameddagesh	N lira
N lameddageshhebrew	N liwnarmenian
N lamedhebrew	N lj
N lamedholam	N ljecyrillic
N lamedholamdagesh	N lladeva
N lamedholamdageshhebrew	N llagujarati
N lamedholamhebrew	N llinebelow
N lamfinalarabic	N llladeva
N lamhahinitialarabic	N llvocalicbengali
N laminitialarabic	N llvocalicdeva
N lamjeeminitialarabic	N llvocalicvowelsignbengali
N lamkhahinitialarabic	N llvocalicvowelsigndeva
N lamlamhehisolatedarabic	N lmiddletilde
N lammedialarabic	N lmonospace
N lammeemhahinitialarabic	N lmsquare

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

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

N nhookretroflex  
N nieunacirclekorean  
N nieunaparenkorean  
N nieuncieuckorean  
N nieuncirclekorean  
N nieunhieuhkorean  
N nieunkorean  
N nieunpansioskorean  
N nieunparenkorean  
N nieunsioskorean  
N nieuntikeutkorean  
N nihiragana  
N nikatakana  
N nikatakanahalfwidth  
N nikhahitthai  
N nine  
N ninearabic  
N ninebengali  
N ninecircle  
N ninecircleinversesansserif  
N ninedeva  
N ninegujarati  
N ninegurmukhi  
N ninehackarabic  
N ninehangzhou  
N nineideographicparen  
N nineinferior  
N ninemonospace  
N nineparen  
N nineperiod  
N ninepersian  
N nineroman  
N ninesuperior  
N nineteencircle  
N nineteenparen  
N nineteenperiod  
N ninethai  
N nj  
N njecyrillic  
N nkatakana  
N nkatakanahalfwidth  
N nlegrightlong  
N nlinebelow  
N nmonospace

N nmsquare  
N nnabengali  
N nnadeva  
N nnagujarati  
N nnagurmukhi  
N nnnadeva  
N nohiragana  
N nokatakana  
N nokatakanahalfwidth  
N nonbreakingspace  
N nonenthai  
N nonuthai  
N noonarabic  
N noonfinalarabic  
N noonghunnaarabic  
N noonghunnafinalarabic  
N noonhehinitialarabic  
N nooninitialarabic  
N noonjeeminitialarabic  
N noonjeemisolatedarabic  
N noonmedialarabic  
N noonmeeminitialarabic  
N noonmeemisolatedarabic  
N noonnoonfinalarabic  
N notcontains  
N notelement  
N notelementof  
N notequal  
N notgreater  
N notgreaternorequal  
N notgreaternorless  
N notidentical  
N notless  
N notlessnorequal  
N notparallel  
N notprecedes  
N notsubset  
N notsucceeds  
N notsuperset  
N nowarmenian  
N nparen  
N nssquare  
N nsuperior  
N ntilde



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

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

N ostrokeacute  
N otcyrillic  
N otilde  
N otildeacute  
N otildedieresis  
N oubopomofo  
N overline  
N overlinecenterline  
N overlinecmb  
N overlinedashed  
N overlinedblwavy  
N overlinewavy  
N overscore  
N ovowelsignbengali  
N ovowelsigndeva  
N ovowelsigngujarati  
N p  
N paampssquare  
N paasentosquare  
N pabengali  
N pacute  
N padeva  
N pagedown  
N pageup  
N pagujarati  
N pagurmukhi  
N pahiragana  
N paiyannoithai  
N pakatakana  
N palatalizationcyrilliccmb  
N palochkacyrillic  
N pansioskorean  
N paragraph  
N parallel  
N parenleft  
N parenleftaltonearabic  
N parenleftinferior  
N parenleftmonospace  
N parenleftsmall  
N parenleftsuperior  
N parenleftvertical  
N parenright  
N parenrightaltonearabic  
N parenrightinferior

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 patah11	N phagujarati
N patah1d	N phagurmukhi
N patah2a	N phi
N patahhebrew	N phil
N patahnarrowhebrew	N phieuphacirclekorean
N patahquarterhebrew	N phieuphaparenkorean
N patahwidehebrew	N phieuphcirclekorean
N pazerhebrew	N phieuphkorean
N pbopomofo	N phieuphparenkorean
N pcircle	N philatin
N pdotaccent	N phinthuthai
N pe	N phisymbolgreek
N pecyrillic	N phook
N pedagesh	N phophanthai
N pedageshhebrew	N phophungthai
N peezisquare	N phosamphaothai
N pefinaldageshhebrew	N pi
N peharabic	N pieupacirclekorean
N peharmenian	N pieupaparenkorean
N pehebrew	N pieupcieuckorean
N pehfinalarabic	N pieupcirclekorean
N pehinitialarabic	N pieupkiyeokkorean
N pehiragana	N pieupkorean
N pehmedialarabic	N pieupparenkorean
N pekatakana	N pieupsioskiyeokkorean
N pemiddlehookcyrillic	N pieupsioskorean
N perafehebrew	N pieupsiostikeutkorean
N percent	N pieupthieuthkorean
N percentarabic	N pieuptikeutkorean
N percentmonospace	N pihiragana
N percentsmall	N pikatakana
N period	N pisymbolgreek
N periodarmenian	N piwrarmenian
N periodcentered	N plus
N periodhalfwidth	N plusbelowcmb

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

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

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 rhoon	N rohiragana
N rhoonhook	N rokatakana
N rhoonhookturned	N rokatakanahalfwidth
N rhoonhookturnedsuperior	N roruathai
N rhosymbolgreek	N rparen
N rhotichookmod	N rrabengali
N rieulacirclekorean	N rradeva
N rieulaparenkorean	N rragurmukhi
N rieulcirclekorean	N rreharabic
N rieulhieuhkorean	N rrehfinalarabic
N rieulkiyeokkorean	N rrvocalicbengali
N rieulkiyeoksioskorean	N rrvocalicdeva
N rieulkorean	N rrvocalicgujarati
N rieulmieumkorean	N rrvocalicvowelsignbengali
N rieulpansioskorean	N rrvocalicvowelsigndeva
N rieulparenkorean	N rrvocalicvowelsigngujarati
N rieulphieuphorean	N rtblock
N rieulpieupkorean	N rturned
N rieulpieupsioskorean	N rturnedsuperior
N rieulsioskorean	N ruhiragana
N rieulthieuthkorean	N rukatakana
N rieultikeutkorean	N rukatakanahalfwidth
N rieulyeorinhieuhkorean	N rupeemarkbengali
N rightangle	N rupeesignbengali
N righttackbelowcmb	N ruthai
N righttriangle	N rvocalicbengali
N rihiragana	N rvocalicdeva
N rikatakana	

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 seharmonian
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 sarauthai	N sentosquare
N sarauuthai	N seven
N sbopomofo	N sevenarabic
N scaron	N sevenbengali
N scarondotaccent	N sevencircle
N scedilla	N sevencircleinversesansserif
N schwa	N sevendeve
N schwacyrillic	N seveneighths
N schwadiesiscyrillic	N sevengujarati

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



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 squarecm
N sixgujarati	N squarediagonalcrosshatchfill
N sixgurmukhi	N squarehorizontalfill
N sixhackarabic	N squarekg
N sixhangzhou	N squarekm
N sixideographicparen	N squarekmcapital
N sixinferior	N squareln
N sixmonospace	N squarelog
N sixparen	N squaremg
N sixperiod	N squaremil
N sixpersian	N squaremm
N sixroman	N squaremsquared
N sixsuperior	N squareorthogonalcrosshatchfill
N sixteencircle	N squareupperleftttolowerrightfill
N sixteencurrencydenominatorbengali	N squareupperrightttolowerleftfill
N sixteenparen	N squareverticalfill
N sixteenperiod	N squarewhitewithsmallblack
N sixthai	N srsquare
N slash	N ssabengali
N slashmonospace	N ssadeva
N slong	N ssagujarati
N slongdotaccent	N ssangcieuckorean
N smileface	N ssanghieuhkorean
N smonospace	N ssangieungkorean
N sofpassuqhebrew	N ssangkiyeokkorean
N softthyphen	N ssangnieunkorean
N softsigncyrillic	N ssangpieupkorean
N sohiragana	N ssangsioskorean
N sokatakana	N ssangtikeutkorean
N sokatakanahalfwidth	N sterling
N soliduslongoverlaycmb	N sterlingmonospace
N solidusshortoverlaycmb	N strokelongoverlaycmb
N sorusithai	N strokeshortoverlaycmb
N sosalathai	N subset
N sosothai	N subsetnotequal
N sosuathai	N subsetorequal
N space	N succeeds
N spacehackarabic	N suchthat

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

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

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 twodotleadervERTICAL
N tsere	N twogujarati
N tsere12	N twogurmukhi
N tsere1e	N twohackarabic
N tsere2b	N twohangzhou
N tserehebrew	N twoideographicparen
N tserenarrowhebrew	N twoinferior
N tserequarterhebrew	N twomonospace
N tserewidehebrew	N twonumeratorbengali
N tsecyrillic	N twoparen
N ttabengali	N twoperiod
N ttadeva	N twopersian
N ttagujarati	N tworoman
N ttagurmukhi	N twostroke
N tteharabic	N twosuperior
N ttefinalarabic	N twothai
N tteinitialarabic	N twothirds
N ttefinalarabic	N u
N ttefinalarabic	N uacute

N ubar	N underscore
N ubengali	N underscoredbl
N ubopomofo	N underscoremonospace
N ubreve	N underscorevertical
N ucaron	N underscorewavy
N ucircle	N union
N ucircumflex	N universal
N ucircumflexbelow	N uogonek
N ucyrillic	N uparen
N udattadeva	N upblock
N udblacute	N upperdothebrew
N udblgrave	N upsilon
N udeva	N upsilondieresis
N udieresis	N upsilondieresis-tonos
N udieresisacute	N upsilonlatin
N udieresisbelow	N upsilon-tonos
N udieresiscaron	N uptackbelowcmb
N udieresis-cyrillic	N uptackmod
N udieresisgrave	N uragurmukhi
N udieresismacron	N uring
N udotbelow	N ushortcyrillic
N ugrave	N usmallhiragana
N ugujarati	N usmallkatakana
N ugurmukhi	N usmallkatakana-halfwidth
N uhiragana	N ustraightcyrillic
N uhookabove	N ustraightstrokecyrillic
N uhorn	N tilde
N uhornacute	N tildeacute
N uhorndotbelow	N tildebelow
N uhorngrave	N uubengali
N uhornhookabove	N uudeva
N uhorntilde	N uugujarati
N uhungarumlaut	N uugurmukhi
N uhungarumlautcyrillic	N uumatragurmukhi
N uinvertedbreve	N uvowelsignbengali
N ukatakana	N uvowelsigndeva
N ukatakanahalfwidth	N uvowelsigngujarati
N ukcyrillic	N uvowelsignbengali
N ukorean	N uvowelsigndeva
N umacron	N uvowelsigngujarati
N umacroncyrillic	N v
N umacron-dieresis	N vadeva
N umatragurmukhi	N vagujarati
N umonospace	N vagurmukhi

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 wawhamzaaboveearabic
N vehmedialarabic	N wawhamzaabovefinalarabic
N vekatakana	N wbsquare
N venus	N wcircle
N verticalbar	N wcircumflex
N verticallineabovevecmb	N wdieresis
N verticallinebelowvecmb	N wdotaccent
N verticallinelowmod	N wdotbelow
N verticallinemod	N wehiragana
N vewarmenian	N weierstrass
N vhook	N wekatakana
N vikatakana	N wekorean
N viramabengali	N weokorean
N viramadeva	N wgrave
N viramagujarati	N whitebullet
N visargabengali	N whitecircle
N visargadeva	N whitecircleinverse
N visargagujarati	N whitecornerbracketleft
N vmospace	N whitecornerbracketleftvertical
N voarmenian	N whitecornerbracketright
N voicediterationhiragana	N whitecornerbracketrightvertical
N voicediterationkatakana	N whitediamond
N voicedmarkkana	N whitediamondcontainingblacksmalldiamond
N voicedmarkkanahalfwidth	N whitedownpointingsmalltriangle
N vokatakana	N whitedownpointingtriangle
N vparen	N whiteleftpointingsmalltriangle
N vtilde	N whiteleftpointingtriangle
N vturned	N whitelenticularbracketleft
N vuhiragana	N whitelenticularbracketright

N whiterightpointingsmalltriangle  
N whiterightpointingtriangle  
N whitesmallsquare  
N whitesmilingface  
N whitesquare  
N whitestar  
N whitetelephone  
N whitetortoiseshellbracketleft  
N whitetortoiseshellbracketright  
N whiteuppointingsmalltriangle  
N whiteuppointingtriangle  
N wihiragana  
N wikatakana  
N wikorean  
N wmonospace  
N wohiragana  
N wokatakana  
N wokatakanahalfwidth  
N won  
N wonmonospace  
N wowaenthai  
N wparen  
N wring  
N wsuperior  
N wturned  
N wynn  
N x  
N xabovecmb  
N xbopomofo  
N xcircle  
N xdieresis  
N xdotaccent  
N xeharmenian  
N xi  
N xmonospace  
N xparen  
N xsuperior  
N y  
N yaadosquare  
N yabengali  
N yacute  
N yadeva  
N yaekorean  
N yagujarati

N yagurmukhi  
N yahiragana  
N yakatakana  
N yakatakanahalfwidth  
N yakorean  
N yamakkanthai  
N yasmallhiragana  
N yasmallkatakana  
N yasmallkatakanahalfwidth  
N yatcyrillic  
N ycircle  
N ycircumflex  
N ydieresis  
N ydotaccent  
N ydotbelow  
N yeharabic  
N yehbarreearabic  
N yehbarreefinalarabic  
N yehfinalarabic  
N yehhamzaaboveearabic  
N yehhamzaabovefinalarabic  
N yehhamzaaboveinitialarabic  
N yehhamzaabovemedialarabic  
N yehinitialarabic  
N yehmedialarabic  
N yehmeeminitialarabic  
N yehmeemisolatedarabic  
N yehnoonfinalarabic  
N yethreedotsbelowarabic  
N yekorean  
N yen  
N yenmonospace  
N yeokorean  
N yeorinhieuhkorean  
N yerahbenyomohebrew  
N yerahbenyomolefthebrew  
N yericyrillic  
N yerudieresiscyrillic  
N yesieungkorean  
N yesieungpansioskorean  
N yesieungsioskorean  
N yetivhebrew  
N ygrave  
N yhook

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



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

## hashes table

D characters  
D csnames  
D descriptions  
D dynamics  
D emwidths  
D exheights  
D extensibles  
D features  
D identifiers  
D italics  
D lastmathids  
D marks  
D modes  
D originals  
D parameters  
T processes  
D properties  
D quads  
D resources  
T setdynamics  
T shapes  
D spaces  
D spacings  
D unicodes  
D variants  
D xheights

## helpers table

F addprivate  
F dimenfactor  
F expandglyph  
F fontpatternhassize  
F getcoloredglyphs  
F getdigitwidth  
F getparameters  
F getprivatenode  
F hasprivate  
F indextoslot  
F name  
F nametoslot  
F setdigitwidth  
F splitfontpattern  
F tochar

## infofont function

## iterators table

F characters  
F descriptions  
F glyphs

## loggers table

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

## mappings table

F addtounicode  
F fromunicode16  
F loadfile  
F loadline  
F makenameparser  
D overloads  
F reset  
F tounicode  
F tounicode16  
F tounicode16sequence

## metapost table

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

## mp table

D cache  
B inline  
N version

## names data table

## nulldata data table

## protrusions data table

## readers table

F afm  
F check\_lua  
F check\_tfm

F lua		T rm	
F ofm		T features	
F opentype		S sc	
F otf		T ss	
F pfb		T features	
D sequence		S sc	
F tfm		T texgyrebonummath	
F ttc		T options	
F ttf		S extras	
<b>reserveid</b>	function	S features	
<b>select</b>	table	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	
S goodies		S goodies	
T latinmodernmath		F definefallbackfamily	
T options		F definefontfamily	
S extras		F definefontfamilypreset	
S features		T extras	
S goodies		F features	
T lucidabrightmathot		F goodies	
T options		F fallback	
S extras		T fallbacks	
S features		F features	
S goodies		F filefallback	
T neoeuler		F fontdata	
T options		F fontfallback	
S extras		F fontsynonym	
S features			

- F goodies
- F mathfallback
- T methods
  - F default
  - F file
  - F name
  - F style
- T presets
- F registerfallback
- F registerfiles
- F registerfontalternative
- F registerfontfamily
- F textfallback
- F typeface
- F typescript
- F userdata
- setdiscexpansion** function
- specifiers** table
  - D contextmerged
  - F contextnumber
  - D contextnumbers
  - D contextsetups
  - F contexttostring

- F definecontext
- F mergecontext
- F presetcontext
- F registercontext
- F showcontext
- F splitcontext
- D synonyms
- D variants
- symbols** table
  - F uselibrary
- tables** table
  - D data
  - F savefont
  - F saveoriginal
- tracers** table
- treatments** table
  - F applyfixes
  - D data
  - S filename
  - F ignoredfile
  - F report
  - F trace
- typefaces** table

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**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

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**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 MPplus
<b>cachedsetups</b>	data table	F MPpos
<b>cachesetup</b>	function	F MPposset
<b>checkedspecification</b>	function	F MPr
<b>complete</b>	data table	F MPrest
<b>constants</b>	data table	F MPrs
<b>corenamespaces</b>	data table	F MPul
<b>currentinterface</b>	string	F MPur
<b>currentresponse</b>	string	F MPw
<b>definecommand</b>	function	F MPx
<b>defined</b>	function	F MPxy
<b>doifelsemessage</b>	function	F MPxywhd
<b>elements</b>	data table	F MPy
<b>formats</b>	data table	F Romannumerals
<b>getcheckedparameters</b>	function	F abjadnodotnumerals
<b>getmessage</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 applytobox
F MPc		F applytofirstcharacter
F MPd		F assignbuffer
F MPH		F autofinishstructurelevels
F MPLl		F autonextspace
F MPLr		F autonextstructurelevel
F MPLs		F autosetups
F MPn		F autostarttext
F MPp		F autostoptext
F MPpardata		F averagecharwidth

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 btxauthortoregister	F btxsingularorplural
F btxcollectlistentries	F btxtoregister
F btxcurrentfirstnames	F btxusedataset
F btxcurrentinitials	F btxuservariable
F btxcurrentjuniors	F buildtextaccent
F btxcurrentsurnames	F character
F btxcurrentvons	F characters
F btxdetail	F chardescription
F btxdirect	F checkcolumnset
F btxdoif	F checkcountersetup
F btxdoifelse	F checkedconversion
F btxdoifelsecombiinlist	F checkedpagefloat
F btxdoifelsesameasprevious	F checkinjector
F btxdoifelseuservariable	F checkinterfacechain
F btxdoifnot	F checktwopassdata
F btxexpandedjournal	F chemicalcomponent
F btxfetchlistentries	F chinesenumerals
F btxfield	F cleanfontname
F btxfieldname	F cleanupbox
F btxfieldtype	F cleanuplayers
F btxfirstofrange	F clonefield
F btxflush	F collectfloat
F btxflushlistcombi	F collecthelp
F btxflushlistentry	F colorcomponents
F btxflushmarked	F columnsetcurrentcolumn
F btxflushpages	F columnsetgoto
F btxfoundname	F columnsetnoto
F btxfoundtype	F concatcommalist
F btxhandlecite	F consultfloat
F btxhandlenocite	F convertbtxdatasettoxml
F btxlastofrange	F converteddimen
F btxlistvariant	F convertmpstopdf
F btxloaddefinitionfile	F copyboxfromcache
F btxloadjournallist	F copyposition

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 definetwopasslist
F definecolumnset	F definetypface
F defineconversion	F defineviewerlayer
F definecounter	F depthnumber
F definedlayoutcomponent	F digits_normal
F definefallbackfamily	F digits_reverse
F definefield	F directboxfromcache
F definefieldset	F directcopyboxfromcache
F definefilefallback	F disableautofontscript
F definefilesynonym	F disabledirectives
F definefont_one	F disableexperiments
F definefont_two	F disablejobsave
F definefontfamily	F disableparbuilder
F definefontfamilypreset	F disableregime
F definefontfeature	F disablespellchecking
F definefontsolution	F disablestatetriggering
F definehyphenationfeatures	F disablestream
F defineinsertion	F disabletrackers
F defineintermediatecolor	F discardfromlist

F doanalyzeframedbox  
F doifcommon  
F doifcounter  
F doifelseblack  
F doifelsebuffer  
F doifelsecharinfont  
F doifelsecommon  
F doifelsecontinuewithfile  
F doifelseconverter  
F doifelsecounter  
F doifelsecurrentfonthasfeature  
F doifelsedrawingblack  
F doifelsefieldcategory  
F doifelsefiledefined  
F doifelsefileexist  
F doifelsefirstchar  
F doifelsefontpresent  
F doifelseinelement  
F doifelseinputfile  
F doifelseinset  
F doifelseintwopassdata  
F doifelseleapyear  
F doifselisthasentry  
F doifselisthasnumber  
F doifselisthaspage  
F doifselisthastitle  
F doifselocfile  
F doifelsemarking  
F doifelsemessage  
F doifelseobject  
F doifelseobjectreference  
F doifelseolderversion  
F doifelseoverlapping  
F doifelseparallel  
F doifelseparentfile  
F doifelsepathexist  
F doifelseposition  
F doifelsepositiononpage  
F doifelsepositionsonsamepage  
F doifelsepositionsonthispage  
F doifelsepositionsused  
F doifelserangeonpage  
F doifelserreference  
F doifelserighttoleftinbox

F doifelsesame  
F doifelsestackedfloats  
F doifelsesynonymshown  
F doifelsesynonymused  
F doifelseurldefined  
F doifelseutfmathabove  
F doifelseutfmathaccent  
F doifelseutfmathbelow  
F doifelseutfmathfiller  
F doifelsevisualizer  
F doiffielddsetelse  
F doifinset  
F doifnotcommon  
F doifnotcounter  
F doifnotecontent  
F doifnoteonsamepageasprevious  
F doifnotinset  
F doifnotsame  
F doifposition  
F doifsame  
F doprocesstypescriptfile  
F doreshapeframedbox  
F dosaveposition  
F dosavepositionplus  
F dosavepositionwhd  
F dosetposition  
F dosetpositionbox  
F dosetpositionplus  
F dosetpositionstrut  
F dosetpositionwhd  
F dostarttextfile  
F dostoptextfile  
F elapsedtime  
F enableasciimode  
F enableautofences  
F enableautofontscript  
F enablebackgroundalign  
F enablebackgroundboxes  
F enablecolor  
F enablecolorintents  
F enablecrlf  
F enabledirectives  
F enableexperiments  
F enablefontcolorsschemes

F enableinteraction	F figure_push
F enablelinefillers	F figure_register_page
F enableparbuilder	F figure_reset
F enableregime	F figure_scale
F enablerules	F figurefilename
F enableshifts	F figurefilepath
F enablespellchecking	F figurefiletype
F enablestatetriggering	F figurerequest
F enablestream	F figuresetdimensions
F enabletrackers	F figurestatus
F enabletransparency	F figureused
F enableutf	F filterdefaultreference
F enhancelinkedlist	F filterreference
F enhancelist	F finalizebox
F enhancereference	F findregisterinternal
F enhanceregister	F findtwopassdata
F eposcolumn	F finishcolumnsetflush
F eposcolumnregistered	F finishexport
F erasebuffer	F firstcountervalue
F execute	F firstinset
F expandcurrentreference	F firstsubcountervalue
F exportformdata	F flushcolumnsetareas
F exportreferences	F flushcolumnsetcolumn
F extendregister	F flushcolumnsetrest
F extensiblecode	F flushfloat
F 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 figure_mergegoodies	F fontlookupgetkey
F figure_nof_registered_pages	F fontlookupgetkeyofindex
F figure_pop	F fontlookupinitialize

F fontlookupnoffound  
F forceendjob  
F forcequitjob  
F formatcolor  
F formatgray  
F from  
F frule  
F getbidimode  
F getbodyfontsizes  
F getboxfromcache  
F getbuffer  
F getbuffercxtlua  
F getbuffermkvi  
F getcheckedinterfaceparameters  
F getcurrentprefixspec  
F getcurrentreferencemetadata  
F getdefaultfieldvalue  
F getdocumentargument  
F getdocumentfilename  
F getelementtag  
F getfieldcategory  
F getfile  
F getfirstcharacter  
F getfirsttwopassdata  
F getfloatvariable  
F getfullstructurenumber  
F getinternalcachedlistreference  
F getinternallistreference  
F getlasttwopassdata  
F getmarking  
F getmathdomain  
F getmathitalics  
F getmessage  
F getmpextensions  
F getmprandomnumber  
F getnaturaldimensions  
F getnaturalwd  
F getnotestate  
F getobjectdimensions  
F getobjectreference  
F getobjectreferencepage  
F getprivatechar  
F getprivateglyphslot  
F getprogram

F getrandomdimen  
F getrandomfloat  
F getrandomnumber  
F getrandomseed  
F getreadfilename  
F getsetupstring  
F getsomefullstructurenumber  
F getsomestructurenumber  
F getspecificstructuretitle  
F getstructurelevel  
F getstructurenumber  
F getsubstring  
F gettexbuffer  
F gettwopassdata  
F gettwopassdatalist  
F geturl  
F getvisual  
F hboxtoinbox  
F helpaction  
F helpreference  
F hexstringtonumber  
F horizontalcode  
F hour  
F hyphenatedlist  
F hyphenatedurl  
F immediatemessage  
F incrementcounter  
F incrementedcounter  
F incrementsubcounter  
F initializejob  
F initializemathdomain  
F initializemathitalics  
F initializestream  
F initializetexdirectives  
F initializetextrackers  
F injectcurrentreference  
F injectcurrentreferencehtdp  
F injectreference  
F inlinechemical  
F inputfilebarename  
F inputfilename  
F inputfilerealsuffix  
F inputfilesuffix  
F insertattachment

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 installtexttracker	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 lpdf_adddocumentshade	F mprunset
F lpdf_addtocatalog	F mpruntab
F lpdf_addtoinfo	F mprunvar



F mpsetclippath	F pdfstopmirroring
F mpsetoutercolor	F pdfstoprotation
F mpsetsxxy	F pdfstopscaling
F mpsettext	F percentageof
F mptexget	F pgfxcolorspec
F mptexreset	F pickupbuffer
F mptexset	F pickupmarkedcontent
F mptexsetfrombuffer	F pickuppunctuation
F namedstructureuservariable	F placeparallel
F namedstructurevariable	F popfloat
F naturalwd	F pophyphenation
F nbfs	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 presetsymbollist
F notetitle	F presettabulate
F ntimes	F prevcountervalue
F number	F previoussubcountervalue
F numbers	F processbodyfontsizes
F octnumber	F processbuffer
F octstringtonumber	F processcolorcomponents
F operatingsystem	F processedfile
F ordinal	F processedfiles
F outputfilename	F processfile
F overloadbookmark	F processfilemany
F overloaderror	F processfilenone
F overloadlowercase	F processfileonce
F overloaduppercase	F processjob
F pageofinternal	F processlist
F pagestaterealpage	F processregister
F parpos	F processsplit
F pdfrotation	F processsynonyms
F pdfstartmatrix	F profilebox
F pdfstartmirroring	F purefontname
F pdfstartrotation	F pushfloat
F pdfstartscaling	F pushhyphenation
F pdfstopmatrix	F pushitaliccorrection

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

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 setclosedocumentaction	F setinterfacemessage
F setclosepageaction	F setinterfacemessages
F setcolormodel	F setinterfacevariable
F setcolumnsetarea	F setinternalreference
F setcolumnsetlines	F setitaliccorrection
F setcolumnsetproperties	F setjavascriptpreamble
F setcolumnsetstart	F setjobcomment
F setcounter	F setlanguageexceptions
F setdataset	F setlanguagesynonym

F setlettercatcodes  
F setmapfile  
F setmapline  
F setmarking  
F setmathalphabet  
F setmathalternate  
F setmathattribute  
F setmathdirection  
F setmathdomain  
F setmathitalics  
F setmathstyle  
F setmpextensions  
F setnaturalwd  
F setnegative  
F setnextinternalreference  
F setnextreferenceorder  
F setnotestate  
F setopendocumentaction  
F setopenpageaction  
F setowncounter  
F setownsubcounter  
F setpagecolormodel  
F setpagestate  
F setpagestaterealpageno  
F setpagetransition  
F setparbuilder  
F setpdfcompression  
F setprofile  
F setrandomseed  
F setrealign  
F setrealspaces  
F setreferencearguments  
F setreferenceoperation  
F setregionbox  
F setregionboxtagged  
F setregistermethod  
F setreplacements  
F setscript  
F setsectionblock  
F setsectionentry  
F setstructureblockstate  
F setstructurelevel  
F setstructurenumber  
F setsubcounter

F settagaspect  
F settagcombination  
F settagdelimitedsymbol  
F settagfigure  
F settaggedmetadata  
F settaghighlight  
F settagitem  
F settagitemgroup  
F settaglist  
F settagnotation  
F settagnotationsymbol  
F settagproperty  
F settagproperty\_b  
F settagproperty\_n  
F settagregister  
F settagsorting  
F settagsubsentencesymbol  
F settagsynonym  
F settagtablecell  
F settagtabulatecell  
F setupbookmarks  
F setupcanvas  
F setupcharacterspacing  
F setupexport  
F setupfontexpansion  
F setupfontprotrusion  
F setupidentity  
F setupinsertion  
F setupitaliccorrection  
F setuplinenumbering  
F setupuserinterface  
F setvalidinterfacekeys  
F setvisual  
F setvisualfont  
F setvisualalllayer  
F setvisuals  
F setvsizecolumnset  
F setxmpfile  
F showassignerror  
F showattributes  
F showcounter  
F showdebuginfo  
F showdirectives  
F showdiscretionaries

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 synchronizemarking
F startstream	F synchronizestream
F starttag	F synonymmeaning
F starttag_c	F synonymname
F starttag_d	F systemlog
F starttag_u	F tagmfunctionlab
F starttext	F tagmfunctiontxt
F startviewerlayer	F tan
F step	F tand
F stopactualtext	F texdefinition_one
F stopchemical	F texdefinition_two
F stopcolorset	F textime
F stopcomponent	F thefirstcharacter
F stopenvironment	F themaxboxwidth
F stopfontsolution	F theremainingcharacters
F stopparbuilder	F tochar
F stopproduct	F transparencycomponents
F stopproject	F triggerpagebuilder
F stopregime	F truefilename
F stopsectionlevel	F type

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 usecldfile	F x_table_c
F usecldfileonce	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 useluafile	F x_table_init_reflow_width
F useluafileonce	F x_table_init_reflow_width_option
F uselumodule	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 useurl	F xmllaftersetup
F usexmlfile	F xmlall
F usexmlfileonce	F xmlappendsetup
F usezipfile	F xmlapplyselectors
F utfchar	F xmlatt
F utfmathclass	F xmlattdef
F utfmathcommand	F xmlattribute
F utfmathcommandabove	F xmlattributedef
F utfmathcommandbelow	F xmlbadinclusions

F xmlbeforesetup	F xmlindex
F xmlchainatt	F xmlinlineverbatim
F xmlchainattdef	F xmlinstalldirective
F xmlchecknamespace	F xmllast
F xmlcommand	F xmllastatt
F xmlconcat	F xmllastmatch
F xmlconcatrange	F xmlload
F xmlcontext	F xmlloadbuffer
F xmlcount	F xmlloaddata
F xmldelete	F xmlloaddirectives
F xmldirect	F xmlloadentities
F 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 xmldoifelsestext	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 xmlflushsetups	F xmlsnippet
F xmlflushspacewise	F xmlstartraw
F xmlflushtext	F xmlstarttiming
F xmlfunction	F xmlstopraw
F xmlgetindex	F xmlstoptiming
F xmlinclude	F xmlstrip
F xmlincludeoptions	F xmlstripanywhere
F xmlinclusion	F xmlstrippolines
F xmlinclusions	F xmlstripped

<code>F xmlstrippednolines</code>		<b>setmacro</b>	function
<code>F xmltag</code>		<b>setmessage</b>	function
<code>F xmltexentity</code>		<b>setmessages</b>	function
<code>F xmltext</code>		<b>settranslation</b>	function
<code>F xmltobuffer</code>		<b>setupstrings</b>	data table
<code>F xmltobufferverbose</code>		<b>setuserinterface</b>	function
<code>F xmltofile</code>		<b>setvalidkeys</b>	function
<code>F xmltoparameters</code>		<b>setvariable</b>	function
<code>F xmlverbatim</code>		<b>showmessage</b>	function
<code>F xmlwithindex</code>		<b>storedscanners</b>	data table
<code>F year</code>		<b>strings</b>	table
<b>setconstant</b>	function	<b>syntax</b>	data table
<b>setcount</b>	function	<b>tolist</b>	function
<b>setdimen</b>	function	<b>translations</b>	data table
<b>setelement</b>	function	<b>variables</b>	data table
<b>setformat</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>savadata</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	<b>F_start</b>	
<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  
 F parindent  
 F position  
 F r  
 F region  
 F replace  
 F rightskip  
 F set  
 F setall  
 F setdim  
 F setregionbox  
 D tobesaved  
 F upperleft  
 F upperright  
 S used  
 F width  
 F x  
 F xy  
 F y

<b>register</b>	function
<b>save</b>	function
<b>structure</b>	table
D collected	
T components	
T tobesaved	
T branches	
S name	
S type	
<b>variables</b>	table
D checksums	
D collected	
F getchecksum	
F makechecksum	
F restore	
F save	
F setchecksum	
D tobesaved	
<b>version</b>	number

## lang (basic tex)

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

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

# languages (context)

<b>associate</b>	function	<b>F registerpattern</b>	
<b>associated</b>	data table	<b>F setfeatures</b>	
<b>association</b>	function	<b>installed</b>	function
<b>counters</b>	data table	<b>labels</b>	table
<b>current</b>	function	<b>F define</b>	
<b>data</b>	data table	<b>F split</b>	
<b>decimals</b>	data table	<b>loadable</b>	function
<b>define</b>	function	<b>loadwords</b>	function
<b>expand</b>	function	<b>logger</b>	table
<b>expanders</b>	table	<b>F report</b>	
<b>frequencies</b>	table	<b>numbers</b>	data table
<b>F averagecharwidth</b>		<b>postexhyphenchar</b>	function
<b>F getdata</b>		<b>posthyphenchar</b>	function
<b>getdata</b>	function	<b>preexhyphenchar</b>	function
<b>getnumber</b>	function	<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>F registerexception</b>		<b>B enables</b>	

F found

T methods

F load

N threshold

# layouts (context)

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



## lfs (extra lua)

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

## libraries (context)

**basiclua** data table

**basictex** data table

**builtin** data table

**extralua** data table

**extratex** data table

**functions** data table

**globals** data table

## lmx (context)

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

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

# logs (context)

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

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

# lpdf (context)

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

<b>shareobject</b>	function	<b>transform</b>	function
<b>shareobjectreference</b>	function	<b>transparency</b>	function
<b>spotcode</b>	function	<b>transparencycode</b>	function
<b>stream</b>	function	<b>transparencygroups</b>	table
<b>string</b>	function	<b>B none</b>	
<b>timestamp</b>	function	<b>transparencyvalue</b>	function
<b>toeight</b>	function	<b>unicode</b>	function
<b>topdfdoc</b>	function	<b>verbose</b>	function
<b>tosixteen</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>setrandomseedi</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>makefont</b>	function
<b>alphabets</b>	data table	<b>mapremap</b>	data table
<b>alternatives</b>	data table	<b>overloadadditions</b>	function
<b>big</b>	function	<b>overloadparameters</b>	function
<b>boldmap</b>	data table	<b>privatebase</b>	number
<b>categories</b>	table	<b>registerdomain</b>	function
D functions		<b>remapalphabets</b>	function
<b>charactersets</b>	data table	<b>renderings</b>	table
<b>checkaccentbaseheight</b>	function	D mappings	
<b>checkprivateparameters</b>	function	D numbers	
<b>classes</b>	data table	D sets	
<b>codes</b>	data table	<b>renderset</b>	function
<b>define</b>	function	<b>resetattributes</b>	function
<b>dimensions</b>	function	<b>resetitalics</b>	function
<b>domains</b>	table	<b>scaleparameters</b>	function
<b>extensiblecode</b>	function	<b>setalternate</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
<b>injectfallbacks</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>gettext</b>	function
<b>checkformat</b>	function	<b>graphic</b>	function
<b>checktexts</b>	function	<b>graphic_base_pass</b>	function
<b>collapse</b>	boolean	<b>initializescriptrunner</b>	function
<b>colorinitializer</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 convertmptstopdf	
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>getstatistics</b>	function	<b>setextensions</b>	function

**setoutercolor**

**settext**

**showlog**

**simple**

**svformat**

**tex**

F get

F reset

F set

function

function

boolean

function

function

table

F setfrombuffer

**texerrors**

**textextsdata**

**theclippath**

**totable**

**unload**

**untagvariable**

**variables**

boolean

function

function

function

function

function

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

F string		quoted	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		
<b>quadruple</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	F define	
<b>has_glyph</b>	function	F enable	
<b>hpack</b>	function	F handler	
<b>idstousing</b>	function	<b>lines</b>	table
<b>ignorablefields</b>	data table	T boxed	
<b>injections</b>	table	F register	
F copy		F setup	
F getligaindex		F stage_one	
F handler		F stage_two	
F installnewkern		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	
<b>linefillers</b>	table	F dimensions	
D data		F do_ligature_n	

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 firstglyph	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 pdfliteral
F insert_list_after	F pdfrestore
F is_char	F pdfsave
F is_direct	F pdfsetmatrix
F is_display_math	F penalty
F is_glyph	F register
F is_node	F rightmarginkern
F is_nut	F rightskip
F is_zero_glue	F rule
F ischar	F shrink
F isglyph	F special
F kerning	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 tovpack  
 F unprotect\_glyphs  
 F unset\_attribute  
 F unsetattribute  
 F unsetattributes  
 F untracedslide  
 F usedlist  
 F vianodes  
 F vianuts  
 F vpack  
 F write

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

function  
 data table  
 data table  
 data table  
 data table  
 data table

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

<b>setunsetattributes</b>	function	F table	
<b>shifts</b>	table	<b>textdir_is_equal</b>	data table
D data		<b>textdir_is_is</b>	data table
F define		<b>textdir_is_opposite</b>	data table
F enable		<b>textdir_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>topicas</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	
F new		T frequencies	
F prependaction		F register	
F removeaction		T pool	
F replaceaction		T nodes	
F restart		F rule	
F setaction		T nuts	
F showactions		F rule	

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



## 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>immediateobj</b>	function
<b>fontobjnum</b>	function	<b>mapfile</b>	function
<b>fontsize</b>	function	<b>mapline</b>	function
<b>getcatalg</b>	function	<b>maxobjnum</b>	function
<b>getcompresslevel</b>	function	<b>newcolorstack</b>	function
<b>getdecimaldigits</b>	function	<b>obj</b>	function
<b>getdestmargin</b>	function	<b>objtype</b>	function
<b>gethpos</b>	function	<b>pageref</b>	function
<b>getignoreunknownimages</b>	function	<b>print</b>	function
<b>getimageresolution</b>	function	<b>refobj</b>	function
<b>getinclusionerrorlevel</b>	function	<b>registerannot</b>	overloaded function
<b>getinfo</b>	function	<b>reserveobj</b>	function
<b>getlastannot</b>	function	<b>setcatalg</b>	overloaded function
<b>getlastlink</b>	function	<b>setcompresslevel</b>	function
<b>getlastobj</b>	function	<b>setdecimaldigits</b>	function
<b>getlinkmargin</b>	function	<b>setdestmargin</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

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

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

## regimes (context)

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

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

## resolvers (context)

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

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

## 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>vrbcatcodes</b>	number
<b>show_context</b>	function	<b>write</b>	function

## texconfig (basic tex)

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

## texio (basic tex)

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

**write\_nl** function

# 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 replacensp		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 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

## 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		F disableaction	
B max		F disablegroup	
T text,hidden,paper,page,leftpage,rightpage		F enableaction	
B hidden		F enablegroup	
B leftpage		D functions	
B page		F localize	
B paper		F new	
B rightpage		F nodeprocessor	
B text		F prependaction	
F iterator		F prependgroup	
F keq_to_hash		F removeaction	
F listitem		F replaceaction	
F make_settings_to_hash_pattern		F setkind	
F mergehashes		F tostring	
F options_to_array		<b>setters</b>	table
F options_to_hash		F disable	
T patterns		F enable	
U settings_to_array		F initialize	
U settings_to_hash_a		F list	
U settings_to_hash_b		F new	
U settings_to_hash_c		F register	
U unittotex		F report	
F process_stripped_settings		F reset	
F rfc4180splitter		F show	
F runtime		<b>stacker</b>	table
F settings_to_array		F new	
F settings_to_array_obey_fences		<b>storage</b>	table
F settings_to_array_with_repeat		F allocate	
F settings_to_hash		F checked	
F settings_to_hash_strict		F mark	
F settings_to_hash_tolerant		F marked	
F settings_to_set		F setinitializer	
F simple_hash_to_string		F sparse	
F splitmethod		<b>streams</b>	table
F splitthousands		F close	
F stepper		F getposition	
F stripped_settings_to_array		F look	
F unittotex		F open	
F unittoxml		F read2dot14	
<b>report</b>	function	F readbyte	
<b>sequencers</b>	table	F readbytes	
F appendaction		F readcardinal	
F appendgroup		F readcardinal1	
F compile		F readcardinal2	

F readcardinal3	U prune and collapse
F readcardinal4	U prune and no empty
F readchar	U retain
F readfixed4	U retain and collapse
F readinteger	U retain and no empty
F readinteger1	F striplines
F readinteger2	F striplong
F readinteger4	F tabtospace
F readstring	T tracers
F setposition	<b>tables</b> table
F size	F accesstable
F skip	F definedtable
F skipbytes	F definetable
F skiplong	F encapsulate
F skipshort	F insertaftervalue
<b>strings</b> table	F insertbeforevalue
F collapsecrlf	F migratetable
T formatters	F removevalue
F add	F replacevalue
F new	<b>templates</b> table
F newrepeater	F load
F nice	F replace
T striplinepatterns	F replacer
U collapse	F resolve
U prune	

## 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