

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

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

# global (alias: \_G)

<b>LUAVERSION</b>	number	<b>figures</b>	table
<b>MP</b>	table	<b>file</b>	table
<b>_LUAVERSION</b>	number	<b>floats</b>	table
<b>_MAJORVERSION</b>	number	<b>font</b>	table
<b>_MINORVERSION</b>	number	<b>fontloader</b>	table
<b>arg</b>	table	<b>fonts</b>	table
<b>assert</b>	function	<b>frozen</b>	boolean
<b>attributes</b>	table	<b>functions</b>	table
<b>backends</b>	table	<b>getmetatable</b>	function
<b>bit32</b>	table	<b>getpos</b>	function
<b>blobs</b>	table	<b>getvpos</b>	function
<b>blockrequire</b>	function	<b>global</b>	table
<b>boolean</b>	table	<b>graphics</b>	table
<b>buffers</b>	table	<b>gregorian_to_jalali</b>	function
<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>jalali_to_gregorian</b>	function
<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>ffi</b>	table	<b>math</b>	table

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

# attributes (context)

## colorintents      table

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

## colors              table

- N attribute
- F cmyk
- F cmyktogray
- F cmyktorgb
- F colorcomponents
- D counts
- B couple
- F currentmodel
- F currentnamedmodel
- D data
- N default
- F defineintermediatecolor
- F definemultitonecolor
- F defineprocesscolor
- F definesimplegray
- F definespotcolor
- F definetransparency
- F enable
- F filter
- F forcedmodel
- F forcesupport
- F formatcolor
- F formatgray
- F getpagecolormodel
- F gray
- F graytohsv
- F handler
- F hsvtorgay
- F hsvtorgb
- F iccprofile
- F isblack
- N main
- S model

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

define

effects

function

table

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

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

# backends (context)

## **codeinjections** table

F boxresourcedimensions  
F registerboxresource  
F restoreboxresource

## **current** string

## **defaults** table

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

## **included** table

B context  
B date  
B id  
B metadata  
B pdf

## **install** function

## **nodeinjections** table

F restore  
F save  
F transform

## **nothing** function

## **pdf** table

T codeinjections  
F addbookmarks  
F attachmentid  
F clonefield  
F definefield  
F definefieldset  
F defineviewerlayer  
F embedfile  
F enabletags  
F exportformdata  
F getbookmarks  
F getdefaultfieldvalue  
F getfieldcategory

F getfieldset  
F getformatoption  
F gethpos  
F getmatrix  
F getoutputfilename  
F getpos  
F getpreviewfigure  
F getvpos  
F hasmatrix  
F insertrenderingwindow  
F mergebookmarks  
F mergereferences  
F mergeviewerlayers  
F prerollreference  
F presetsymbol  
F presetsymbollist  
F processrendering  
F registerdocumentcloseaction  
F registerdocumentopenaction  
F registeredsymbol  
F registerpagecloseaction  
F registerpageopenaction  
F registersymbol  
F setfieldcalculationset  
F setfigurealternative  
F setfigurecolorspace  
F setfiguremask  
F setformat  
F setformsmethod  
F setpagetransition  
F setupcanvas  
F setupidentity  
F setxmpfile  
F startlayer  
F startunicodetoactualtext  
F startunicodetoactualtextdirect  
F stoplayer  
F stopunicodetoactualtext  
F stopunicodetoactualtextdirect  
F supportedformats  
F unicodetoactualtext

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

## bit32 (basic lua)

**arshift** function

**band** function

**bnot** function

**bor** function

**btest** function

**bxor** function

**extract** function

**lrotate** function

**lshift** function

**replace** function

**rrotate** function

**rshift** function



## blobs (context)

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

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

## boolean (context)

**tocontext**   function

**tonumber**   function

# buffers (context)

<b>append</b>	function	F define	
<b>assign</b>	function	F hassomecontent	
<b>collectcontent</b>	function	F next	
<b>erase</b>	function	F place	
<b>exists</b>	function	F reset	
<b>getcontent</b>	function	F save	
<b>getlines</b>	function	<b>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

## caches (context)

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

## callback (basic tex)

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

**register** overloaded function

## callbacks (context)

<b>freeze</b>	function
<b>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>lhash</b>	<b>data table</b>
<b>adobename</b>	<b>function</b>	<b>linebreaks</b>	<b>table</b>
<b>bidirectional</b>	data table	S ai	
<b>blockrange</b>	function	S al	
<b>blocks</b>	data table	S b2	
<b>casemap</b>	table	S ba	
<b>categories</b>	data table	S bb	
<b>category</b>	function	S bk	
<b>categorytags</b>	data table	S cb	
<b>classifiers</b>	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 eb	
<b>description</b>	function	S em	
<b>descriptions</b>	data table	S ex	
<b>detailltags</b>	data table	S gl	
<b>directions</b>	table	S h2	
<b>encodes</b>	data table	S h3	
<b>entities</b>	data table	S hl	
<b>fallbacks</b>	data table	S hy	
<b>filters</b>	data table	S id	
<b>fractions</b>	table	S in	
<b>fromnumber</b>	function	S is	
<b>fschars</b>	data table	S jl	
<b>fscodes</b>	data table	S jt	
<b>getrange</b>	function	S jv	
<b>graphemes</b>	data table	S lf	
<b>hangul</b>	data table	S nl	
<b>initialize</b>	function	S ns	
<b>is_character</b>	data table	S nu	
<b>is_command</b>	data table	S op	
<b>is_letter</b>	data table	S po	
<b>is_mark</b>	data table	S pr	
<b>is_punctuation</b>	data table	S qu	
<b>is_spacing</b>	data table	S ri	
<b>lcchars</b>	data table	S sa	
<b>lccode</b>	function	S sg	
<b>lccodes</b>	data table	S sp	
<b>lettered</b>	function	S sy	

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

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

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



## dir (context)

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

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

## directives (context)

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

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

# document (context)

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

## environment (context)

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

## 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)

**current** function  
**define** function  
**each** function  
**fonts** table  
**frozen** function  
**getfont** overloaded function

**id** function  
**max** function  
**nextid** function  
**read\_tfm** function  
**read\_vf** function  
**setfont** overloaded function

# 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

T enhancers

T afm

F apply

F patch

T patches

F register

F register

T otf

F addfeature

F apply

F enhance

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

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

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

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



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

N dammaarabic	N hatafpatah16
N dammatanaltonearabic	N hatafpatah23
N dargahebrew	N hatafpatah2f
N dbllowline	N hatafpatahhebrew
N decimalseparatorarabic	N hatafpatahnarrowhebrew
N dialytikatonos	N hatafpatahquarterhebrew
N dotbelowcmb	N hatafqamats
N doubleyodpatah	N hatafqamats1b
N doubleyodpatahhebrew	N hatafqamats28
N edot	N hatafqamats34
N eightarabic	N hatafqamatshebrew
N eighthnotebeamed	N hatafqamatsnarrowhebrew
N etnahtafoukhhebrew	N hatafqamatsquarterhebrew
N etnahtafoukhlefthebrew	N hatafsegol
N etnahtahebrew	N hatafsegol17
N fathaarabic	N hatafsegol24
N finalkaf	N hatafsegol30
N finalkafdagesh	N hatafsegolhebrew
N finalkafhebrew	N hatafsegolnarrowhebrew
N finalkafqamats	N hatafsegolquarterhebrew
N finalkafqamatshebrew	N he
N finalkafsheva	N hedagesh
N finalmem	N hehfinalalttwoarabic
N finalnun	N het
N finalpe	N hiriq
N finaltsadi	N hiriq14
N fivearabic	N hiriq21
N forall	N hiriq2d
N fourarabic	N hiriqhebrew
N gcedilla	N hiriqnarrowhebrew
N gdot	N hiriqqarterhebrew
N gimel	N holam
N gimeldagesh	N holam19
N gravecmb	N holam26
N haaltonearabic	N holam32
N hamzaarabic	N holamhebrew
N hamzadammaarabic	N holamnarrowhebrew
N hamzadammatanarabic	N holamquarterhebrew
N hamzafathaarabic	N ilde
N hamzafathatanarabic	N integralbottom
N hamzalowarabic	N integraltop
N hamzalowkasraarabic	N kaf
N hamzalowkasratanarabic	N kafdagesh
N hatafpatah	N kashidaautoarabic

N kashidaautosidebearingarabic  
 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 merkhakefulahebrew  
 N middot  
 N munahhebrew  
 N nbspace  
 N ncedilla  
 N newsheqelsign  
 N ninearabic  
 N noonhehinitialarabic  
 N nun  
 N nundagesh  
 N odblacute  
 N onearabic  
 N overscore  
 N patah  
 N patah1l  
 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 qamats29

N qamats33  
 N qamatsde  
 N qamatshebrew  
 N qamatsnarrowhebrew  
 N qamatsqatanhebrew  
 N qamatsqatanarrowhebrew  
 N qamatsqatanquarterhebrew  
 N qamatsqatanwidehebrew  
 N qamatsquarterhebrew  
 N qof  
 N qofdagesh  
 N qofhatafpatah  
 N qofhatafpatahhebrew  
 N qofhatafsegol  
 N qofhatafsegolhebrew  
 N qofhebrew  
 N qofhiriq  
 N qofhiriqhebrew  
 N qofholam  
 N qofholamhebrew  
 N qofpatah  
 N qofpatahhebrew  
 N qofqamats  
 N qofqamatshebrew  
 N qofqubuts  
 N qofqubutshebrew  
 N qofsegol  
 N qofsegolhebrew  
 N qofsheva  
 N qofshevahebrew  
 N qoftsere  
 N qubuts  
 N qubuts18  
 N qubuts25  
 N qubuts31  
 N qubutshebrew  
 N qubutsnarrowhebrew  
 N qubutsquarterhebrew  
 N quoteleftreversed  
 N rafe  
 N rcedilla  
 N reharabic  
 N resh  
 N reshhatafpatah

N reshatafpatahhebrew  
 N reshhatafsegol  
 N reshhatafsegolhebrew  
 N reshhebrew  
 N reshhiriq  
 N reshhiriqhebrew  
 N reshholam  
 N reshholamhebrew  
 N reshpatah  
 N reshpatahhebrew  
 N reshqamats  
 N reshqamatshebrew  
 N reshqubuts  
 N reshqubutshebrew  
 N reshsegol  
 N reshsegolhebrew  
 N reshsheva  
 N reshshevahebrew  
 N reshtsere  
 N reviahebrew  
 N samekh  
 N samekhdagesh  
 N segol  
 N segol13  
 N segol1f  
 N segol2c  
 N segolhebrew  
 N segolnarrowhebrew  
 N segolquarterhebrew  
 N sevenarabic  
 N sfthyphen  
 N shaddaarabic  
 N sheqel  
 N sheva  
 N sheva15  
 N sheva15  
 N sheva22  
 N sheva2e  
 N shevahebrew  
 N shevanarrowhebrew  
 N shevaquarterhebrew  
 N shin  
 N shindagesh  
 N shindageshshindot

N shindageshshindot  
 N shinshindot  
 N shinsindot  
 N siluqhebrew  
 N sixarabic  
 N tav  
 N tavadages  
 N tavadagesh  
 N tcedilla  
 N tchehinitialarabic  
 N tet  
 N tetdagesh  
 N tevirhebrew  
 N thousandsseparatorarabic  
 N threearabic  
 N tildecmb  
 N tipehahebrew  
 N tsadi  
 N tsadidagesh  
 N tsere  
 N tsere12  
 N tsere1e  
 N tsere2b  
 N tserehebrew  
 N tserenarrowhebrew  
 N tserequarterhebrew  
 N twoarabic  
 N udblacute  
 N vav  
 N vavdagesh  
 N vavdagesh65  
 N vavholam  
 N yerahbenyomohebrew  
 N yod  
 N yoddagesh  
 N zayin  
 N zayindagesh  
 N zdot  
 N zeroarabic  
 D unicodes  
 D cache  
 T ctxcodes  
 N AEacute  
 N AEligature

N AEmacron	N Dzcaronligature
N Aacute	N Dzligature
N Abreve	N Eacute
N Abreveacute	N Ebreve
N Abrevedotbelow	N Ecaron
N Abrevegrave	N Ecedilla
N Abrevehook	N Ecircumflex
N Abrevetilde	N Ecircumflexacute
N Acaron	N Ecircumflexdotbelow
N Acircumflex	N Ecircumflexgrave
N Acircumflexacute	N Ecircumflexhook
N Acircumflexdotbelow	N Ecircumflextilde
N Acircumflexgrave	N Ediaeresis
N Acircumflexhook	N Edotaccent
N Acircumflextilde	N Edotbelow
N Adiaeresis	N Edoublegrave
N Adiaeresismacron	N Egrave
N Adotaccent	N Ehook
N Adotaccentmacron	N Einvertedbreve
N Adotbelow	N Emacron
N Adoublegrave	N Egonek
N Agrave	N Eth
N Ahook	N Etilde
N Ainvertedbreve	N Fhook
N Amacron	N Gacute
N Agonek	N Gbreve
N Aring	N Gcaron
N Aringacute	N Gcircumflex
N Astroke	N Gcommaaccent
N Atilde	N Gdotaccent
N Bhook	N Ghook
N Cacute	N Gstroke
N Ccaron	N Hcaron
N Ccedilla	N Hcircumflex
N Ccircumflex	N Hstroke
N Cdotaccent	N IJligature
N Chook	N Iacute
N Cstroke	N Ibreve
N DZcaronligature	N Icaron
N DZligature	N Icircumflex
N Dafrican	N Idiaeresis
N Dcaron	N Idotaccent
N Dhook	N Idotbelow
N Dstroke	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 adiaeresismacron
N Ugrave	N adotaccent
N Uhook	N adotaccentmacron
N Uhorn	N adotbelow
N Uhornacute	N adoublegrave
N Uhorndotbelow	N aeacute
N Uhorngrave	N aeligature
N Uhornhook	N aemacron
N Uhorntilde	N agrave
N Uhungarumlaut	N ahook
N Uinvertedbreve	N ainvertedbreve
N Umacron	N amacron
N Uogonek	N aogonek
N Uring	N aring
N Utilde	N aringacute
N Wcircumflex	N atilde
N Yacute	N bhook
N Ycircumflex	N breakablethinspace
N Ydiaeresis	N bstroke
N Ydotbelow	N cacute
N Ygrave	N carriagereturn
N Yhook	N ccaron
N Ymacron	N ccedilla
N Ytilde	N ccircumflex
N Zacute	N ccurl
N Zcaron	N cdotaccent
N Zdotaccent	N chook
N Zhook	N copyright
N Zstroke	N cstroke
N aacute	N cyrillicA
N abreve	N cyrillicAE
N abreveacute	N cyrillicAbreve
N abrevedotbelow	N cyrillicAdiaeresis
N abrevegrave	N cyrillicB
N abrevehook	N cyrillicBIGYUS
N abrevetilde	N cyrillicBIGYUSiotified
N acaron	N cyrillicC
N acircumflex	N cyrillicCH
N acircumflexacute	N cyrillicCHEDC
N acircumflexdotbelow	N cyrillicCHEDCabkhasian
N acircumflexgrave	N cyrillicCHEabkhasian
N acircumflexhook	N cyrillicCHEdiaeresis
N acircumflextilde	N cyrillicCHEkhakassian
N adiaeresis	N cyrillicCHEvertstroke

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



N cyrillicUK	N cyrillicgrave
N cyrillicUSHRT	N cyrillicieiotified
N cyrillicUdiaeresis	N cyrilliceltail
N cyrillicUdoubleacute	N cyrillicemtail
N cyrillicUmacron	N cyrillicendc
N cyrillicV	N cyrillicenghe
N cyrillicYA	N cyrillicenhook
N cyrillicYAT	N cyrillicentail
N cyrillicYERUdiaeresis	N cyrillicerev
N cyrillicYI	N cyrillicertick
N cyrillicY0	N cyrillicery
N cyrillicYU	N cyrillicf
N cyrillicYstr	N cyrillicfita
N cyrillicYstrstroke	N cyrillicg
N cyrillicZ	N cyrillicghemidhook
N cyrillicZDSC	N cyrillicghestroke
N cyrillicZEdiaeresis	N cyrillicgheupturn
N cyrillicZH	N cyrillicgje
N cyrillicZHEbreve	N cyrillich
N cyrillicZHEdescender	N cyrillicha
N cyrillicZHEdiaeresis	N cyrillichadc
N cyrillica	N cyrillichrdsn
N cyrillicabreve	N cyrillici
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N cyrillicb	N cyrillicigrave
N cyrillicbigyus	N cyrillicii
N cyrillicbigyusiotified	N cyrillicimacron
N cyrillicc	N cyrillicishrt
N cyrillicch	N cyrillicishrttail
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N cyrillicchedc	N cyrillicizhitsadoublegrave
N cyrillicchedcabkhasian	N cyrillicje
N cyrillicchediaeresis	N cyrillick
N cyrillicchekhakassian	N cyrillickabashkir
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N cyrillicd	N cyrillickahook
N cyrillicdje	N cyrillickastroke
N cyrillicdze	N cyrillickavertstroke
N cyrillicdzeabkhasian	N cyrillickje
N cyrillicdzhe	N cyrillickoppa
N cyrillice	N cyrillicksi
N cyrillicebreve	N cyrillicl
N cyrillicediaeresis	N cyrilliclittleyus

N cyrilliclittleyusiotified  
N cyrilliclje  
N cyrillicm  
N cyrillicn  
N cyrillicnje  
N cyrillico  
N cyrillicobarred  
N cyrillicobarreddiaeresis  
N cyrillicodiaeresis  
N cyrillicomega  
N cyrillicomegaround  
N cyrillicomegatitlo  
N cyrillicot  
N cyrillicp  
N cyrillicpemidhook  
N cyrillicpsi  
N cyrillicr  
N cyrillics  
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N cyrillicschwadiaeresis  
N cyrillicsdsc  
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N cyrillicsftsn  
N cyrillicsh  
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N cyrillicshha  
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N cyrillictshe  
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N cyrillicuk  
N cyrillicumacron  
N cyrillicushrt  
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N cyrillicystrstroke

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N cyrilliczh  
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N cyrilliczhedescender  
N cyrilliczhediaeresis  
N dcaron  
N dcurl  
N dhook  
N dotlessI  
N dotlessJ  
N dotlessi  
N dotlessj  
N dotlessjstroke  
N dstroke  
N dtail  
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N dzligature  
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N ecircumflexgrave  
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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 greekEpsilon
N ffligature	N greekEpsilonondasia
N ffligature	N greekEpsilonondasiatonos
N ffligature	N greekEpsilonondasiavaria
N fhook	N greekEpsilonpsili
N figurespace	N greekEpsilonpsilitonos
N filigature	N greekEpsilonpsilivaria
N fiveeighths	N greekEpsilontonos
N fivesixths	N greekEpsilonvaria
N flligature	N greekEta
N fourfifths	N greekEtadasia
N fourperemspace	N greekEtadasiaaperispomeni
N gacute	N greekEtadasiatonos
N gbreve	N greekEtadasiaavaria
N gcaron	N greekEtaiotasub
N gcircumflex	N greekEtaiotasubdasia
N gcommaaccent	N greekEtaiotasubdasiaperispomeni
N gdotaccent	N greekEtaiotasubdasiatonos
N greekAlpha	N greekEtaiotasubdasiavaria
N greekAlphadasia	N greekEtaiotasubpsili
N greekAlphadasiaaperispomeni	N greekEtaiotasubpsiliperispomeni
N greekAlphadasiatonos	N greekEtaiotasubpsilitonos
N greekAlphadasiaavaria	N greekEtaiotasubpsilivaria
N greekAlphaiotasub	N greekEtaptsili
N greekAlphaiotasubdasia	N greekEtaptsiliperispomeni
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N greekAlphavaria	N greekIotapsiliperispomeni
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N greekBeta	N greekIotapsilivaria
N greekChi	N greekIotatonos
N greekCoronis	N greekIotavaria
N greekDelta	N greekIotavrachy

N greekKappa	N greekUpsilondasiaperispomeni
N greekLambda	N greekUpsilondasiatonos
N greekMu	N greekUpsilondasiavaria
N greekNu	N greekUpsilondialytika
N greekOmega	N greekUpsilonmacron
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N greekOmegadasiatonos	N greekUpsilonvrachy
N greekOmegadasiaavaria	N greekXi
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N greekOmegaiotasubpsiliperispomeni	N greekalphaiotasub
N greekOmegaiotasubpsilitonos	N greekalphaiotasubdasia
N greekOmegaiotasubpsilivaria	N greekalphaiotasubdasiaperispomeni
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N greekOmegatonos	N greekalphaiotasubpsiliperispomeni
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N greekPsi	N greekalphavaria
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N greekSigma	N greekchi
N greekSigmaunate	N greekdasia
N greekTau	N greekdasiaperispomeni
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N greekUpsilon	N greekdasiavaria
N greekUpsilondasia	N greekdelta

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N greekepsilontonos  
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N greeketadasiaavaria  
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N greekiotapsilivaria  
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N greekiotavaria  
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N greekmu  
N greeknu  
N greeknukoppa  
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N greekomegadasiatonos  
N greekomegadasiaavaria  
N greekomegaiotasub  
N greekomegaiotasubdasia  
N greekomegaiotasubdasiaaperispomeni  
N greekomegaiotasubdasiatonos  
N greekomegaiotasubdasiavaria  
N greekomegaiotasubperispomeni  
N greekomegaiotasubpsili  
N greekomegaiotasubpsiliperispomeni  
N greekomegaiotasubpsilitonos  
N greekomegaiotasubpsilivaria  
N greekomegaiotasubtonos  
N greekomegaiotasubvaria  
N greekomegaoxia  
N greekomegaperispomeni  
N greekomegapsili  
N greekomegapsiliperispomeni

N greekomegapsilitonos	N greekupsilondialytikaperispomeni
N greekomegapsilivaria	N greekupsilondialytikatonos
N greekomegatonos	N greekupsilondialytikavaria
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N greekomicrondasiavaria	N greekupsilonpsiliperispomeni
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N greekomicronpsilitonos	N greekupsilontonos
N greekomicronpsilivaria	N greekupsilonvaria
N greekomicrontonos	N greekupsilonvrachy
N greekomicronvaria	N greekvaria
N greekoxia	N greekxi
N greekperispomeni	N greekzeta
N greekphi	N gstroke
N greekphialt	N guilsingleleft
N greekpi	N guilsingleright
N greekpialt	N hairspace
N greekprosgegrammeni	N hcaron
N greekpsi	N hcircumflex
N greekpsili	N hebrewAlef
N greekpsiliperispomeni	N hebrewAyin
N greekpsilitonos	N hebrewBet
N greekpsilivaria	N hebrewDalet
N greekrho	N hebrewGimel
N greekrhoalt	N hebrewHe
N greekrhodasia	N hebrewHet
N greekrhopsili	N hebrewKaf
N greeksampi	N hebrewKaffinal
N greeksigma	N hebrewLamed
N greeksigmalunate	N hebrewMem
N greekstigma	N hebrewMemfinal
N greektau	N hebrewNun
N greektheta	N hebrewNunfinal
N greekthetaalt	N hebrewPe
N greektionos	N hebrewPefinal
N greekupsilon	N hebrewQof
N greekupsilondasia	N hebrewResh
N greekupsilondasiaperispomeni	N hebrewSamekh
N greekupsilondasiatonos	N hebrewShin
N greekupsilondasiavaria	N hebrewTav
N greekupsilondiaeresis	N hebrewTet

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

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



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

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

N Cheharmenian	N Ecircumflexbelow
N Chekhakassiancyrillic	N Ecircumflexdotbelow
N Cheverticalstrokecyrillic	N Ecircumflexgrave
N Chi	N Ecircumflexhookabove
N Chook	N Ecircumflextilde
N Cmonospace	N Ecyrillic
N Coarmenian	N Edblgrave
N D	N Edieresis
N DZ	N Edot
N DZcaron	N Edotaccent
N Daarmenian	N Edotbelow
N Dafrican	N Efcyrillic
N Dcaron	N Egrave
N Dcedilla	N Eharmenian
N Dcircle	N Ehookabove
N Dcircumflexbelow	N Eightroman
N Dcroat	N Einvertedbreve
N Ddotaccent	N Eiotifiedcyrillic
N Ddotbelow	N Elcyrillic
N Decyrillic	N Elevenroman
N Deicoptic	N Emacron
N Delta	N Emacronacute
N Deltagreek	N Emacrongrave
N Dhook	N Emcyrillic
N Digammagreek	N Emonospace
N Djecyrillic	N Encyrillic
N Dlinebelow	N Endescendercyrillic
N Dmonospace	N Eng
N Dslash	N Enghecyrillic
N Dtopbar	N Enhookcyrillic
N Dz	N Egonek
N Dzcaron	N Eopen
N Dzeabkhasiancyrillic	N Epsilon
N Dzecyrillic	N Epsilontonos
N Dzhecyrillic	N Ercyrillic
N E	N Ereversed
N Eacute	N Ereversedcyrillic
N Ebreve	N Escyrillic
N Ecaron	N Esdescendercyrillic
N Ecedillabreve	N Esh
N Echarmenian	N Eta
N Ecircle	N Etarmenian
N Ecircumflex	N Etatonos
N Ecircumflexacute	N Eth

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

N Imacron  
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N Imonospace  
N Iniarmenian  
N Iocyrlilic  
N Iogonek  
N Iota  
N Iotaafrican  
N Iotadieresis  
N Iotatonos  
N Istroke  
N Itilde  
N Itildebelow  
N Izhitsacyrillic  
N Izhitsadblgravecyrillic  
N J  
N Jaarmenian  
N Jcircle  
N Jcircumflex  
N Jecyrillic  
N Jheharmenian  
N Jmonospace  
N K  
N KSquare  
N KSquare  
N Kabashkircyrillic  
N Kacute  
N Kacyrillic  
N Kadescendercyrillic  
N Kahookcyrillic  
N Kappa  
N Kastrokecyrillic  
N Kaverticalstrokecyrillic  
N Kcaron  
N Kcedilla  
N Kcircle  
N Kcommaaccent  
N Kdotbelow  
N Keharmenian  
N Kenarmenian  
N Khacyrillic  
N Kheicoptic  
N Khook  
N Kjecyrillic

N Klinebelow  
N Kmonospace  
N Koppacyrillic  
N Koppagreek  
N Ksicyrillic  
N L  
N LJ  
N Lacute  
N Lambda  
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N Lcedilla  
N Lcircle  
N Lcircumflexbelow  
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N Ldot  
N Ldotaccent  
N Ldotbelow  
N Ldotbelowmacron  
N Liwnarmenian  
N Lj  
N Ljecyrillic  
N Llinebelow  
N Lmonospace  
N Lslash  
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N MSquare  
N Macute  
N Mcircle  
N Mdotaccent  
N Mdotbelow  
N Menarmenian  
N Mmonospace  
N Mturned  
N Mu  
N N  
N NJ  
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 N OE  
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 N Obarreddieriscyrillic  
 N Obreve  
 N Ocaron  
 N Ocenteredtilde  
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 N Ocircumflexdotbelow  
 N Ocircumflexgrave  
 N Ocircumflexhookabove  
 N Ocircumflextilde  
 N Ocyrillic  
 N Odblacute  
 N Odblgrave  
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 N Odieresiscyrillic  
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 N Ograve  
 N Oharmenian  
 N Ohm  
 N Ohookabove  
 N Ohorn  
 N Ohornacute  
 N Ohorndotbelow  
 N Ohorngrave  
 N Ohornhookabove  
 N Ohorntilde  
 N Ohungarumlaut  
 N Oi  
 N Oinvertedbreve  
 N Omacron

N Omacronacute  
 N Omacrongrave  
 N Omega  
 N Omegacyrillic  
 N Omegagreek  
 N Omegaroundcyrillic  
 N Omegatitlocyrillic  
 N Omegatonos  
 N Omicron  
 N Omicrontonos  
 N Omonospace  
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 N Oogonekmacron  
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 N Otildedieresis  
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 N Pacute  
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 N Peharmenian  
 N Pemiddlehookcyrillic  
 N Phi  
 N Phook  
 N Pi  
 N Piwrarmenian  
 N Pmonospace  
 N Psi  
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 N Qcircle  
 N Qmonospace  
 N R  
 N Raarmenian  
 N Racute  
 N Rcaron  
 N Rcedilla

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N Rdotbelowmacron	N SF450000
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N Rfraktur	N SF470000
N Rho	N SF480000
N Rinvertedbreve	N SF490000
N Rlinebelow	N SF50000
N Rmonospace	N SF500000
N Rsmallinverted	N SF510000
N Rsmallinvertedsuperior	N SF520000
N S	N SF530000
N SF010000	N SF540000
N SF020000	N SF60000
N SF030000	N SF70000
N SF040000	N SF80000
N SF050000	N SF90000
N SF060000	N Sacute
N SF070000	N Sacutedotaccent
N SF080000	N Sampigreek
N SF090000	N Scaron
N SF10000	N Scarondotaccent
N SF100000	N Scedilla
N SF110000	N Schwa
N SF190000	N Schwacyrillic
N SF20000	N Schwadiesiscyrillic
N SF200000	N Scircle
N SF210000	N Scircumflex
N SF220000	N Scommaaccent
N SF230000	N Sdotaccent
N SF240000	N Sdotbelow
N SF250000	N Sdotbelowdotaccent
N SF260000	N Seharmerian
N SF270000	N Sevenroman
N SF280000	N Shaarmenian
N SF30000	N Shacyrillic
N SF360000	N Shchacyrillic
N SF370000	N Sheicoptic
N SF380000	N Shhacyrillic
N SF390000	N Shimacoptic
N SF40000	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  
 N Tdotbelow  
 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 Tretroflexhook  
 N Tsecyrillic  
 N Tshecyrillic  
 N Twelveroman  
 N Tworoman  
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 N Uacute  
 N Ubreve  
 N Ucaron  
 N Ucircle  
 N Ucircumflex  
 N Ucircumflexbelow  
 N Ucyrillic  
 N Udblacute  
 N Udblgrave

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 N Udieresiscaron  
 N Udieresiscyrillic  
 N Udieresisgrave  
 N Udieresismacron  
 N Udotbelow  
 N Ugrave  
 N Uhookabove  
 N Uhorn  
 N Uhornacute  
 N Uhorndotbelow  
 N Uhorngrave  
 N Uhornhookabove  
 N Uhorntilde  
 N Uhungarumlaut  
 N Uhungarumlautcyrillic  
 N Uinvertedbreve  
 N Ukcyrillic  
 N Umacron  
 N Umacroncyrillic  
 N Umacrondieresis  
 N Umonospace  
 N Uogonek  
 N Upsilon  
 N Upsilon1  
 N Upsilonacutehooksymbolgreek  
 N Upsilonafrican  
 N Upsilondieresis  
 N Upsilondieresishooksymbolgreek  
 N Upsilonhooksymbol  
 N Upsilonontonos  
 N Uring  
 N Ushortcyrillic  
 N Ustraightcyrillic  
 N Ustraightstrokecyrillic  
 N Utilde  
 N Utildeacute  
 N Utildebelow  
 N V  
 N Vcircle  
 N Vdotbelow  
 N Vecyrillic



N Vewarmenian  
 N Vhook  
 N Vmonospace  
 N Voarmenian  
 N Vtilde  
 N W  
 N Wacute  
 N Wcircle  
 N Wcircumflex  
 N Wdieresis  
 N Wdotaccent  
 N Wdotbelow  
 N Wgrave  
 N Wmonospace  
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 N Xcircle  
 N Xdieresis  
 N Xdotaccent  
 N Xeharmenian  
 N Xi  
 N Xmonospace  
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 N Yericyrillic  
 N Yerudieresiscyrillic  
 N Ygrave  
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 N Yhookabove  
 N Yiarmenian  
 N Yicyrillic  
 N Yiwnarmenian  
 N Ymonospace  
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 N Yusbigiotifiedcyrillic  
 N Yuslittlecyrillic  
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 N Zedieresiscyrillic  
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 N Zhedescendercyrillic  
 N Zhedieresiscyrillic  
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 N Zmonospace  
 N Zstroke  
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 N aacute  
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 N aagujarati  
 N aagurmukhi  
 N aamatragurmukhi  
 N aarusquare  
 N aavowelsignbengali  
 N aavowelsigndeva  
 N aavowelsigngujarati  
 N abbreviationmarkarmenian  
 N abbreviationsigndeva  
 N abengali  
 N abopomofo  
 N abreve  
 N abreveacute  
 N abrevecyrillic  
 N abrevedotbelow  
 N abrevegrave  
 N abrevehookabove  
 N abrevetilde  
 N acaron  
 N acircle

N acircumflex	N afii10033
N acircumflexacute	N afii10034
N acircumflexdotbelow	N afii10035
N acircumflexgrave	N afii10036
N acircumflexhookabove	N afii10037
N acircumflextilde	N afii10038
N acute	N afii10039
N acutebelowcmb	N afii10040
N acutecmb	N afii10041
N acutecomb	N afii10042
N acutedeva	N afii10043
N acutelowmod	N afii10044
N acutetonecmb	N afii10045
N acyrillic	N afii10046
N adblgrave	N afii10047
N addakgurmukhi	N afii10048
N adeva	N afii10049
N adieresis	N afii10050
N adieresiscyrillic	N afii10051
N adieresismacron	N afii10052
N adotbelow	N afii10053
N adotmacron	N afii10054
N ae	N afii10055
N aeacute	N afii10056
N aekorean	N afii10057
N aemacron	N afii10058
N afii00208	N afii10059
N afii08941	N afii10060
N afii10017	N afii10061
N afii10018	N afii10062
N afii10019	N afii10065
N afii10020	N afii10066
N afii10021	N afii10067
N afii10022	N afii10068
N afii10023	N afii10069
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N afii10026	N afii10072
N afii10027	N afii10073
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N afii57669	N afii57839
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N afii57674	N afii61289
N afii57675	N afii61352
N afii57676	N afii61573
N afii57677	N afii61574

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

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

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

N bullet	N checkmark
N bulletinverse	N checyrillic
N bulletoperator	N chedescenderabkhasiancyrillic
N bullseye	N chedescendercyrillic
N c	N chedieresiscyrillic
N caarmenian	N cheharmenian
N cabengali	N chekhakassiancyrillic
N cacute	N cheverticalstrokecyrillic
N cadeva	N chi
N cagujarati	N chieuchacirclekorean
N cagurmukhi	N chieuchaparenkorean
N calsquare	N chieuchcirclekorean
N candrabindubengali	N chieuchkorean
N candrabinducmb	N chieuchparenkorean
N candrabindudeva	N chochangthai
N candrabindugujarati	N chochanthai
N capslock	N chochingthai
N careof	N chochoethai
N caron	N chook
N caronbelowcmb	N cieucacirclekorean
N caroncmb	N cieucaparenkorean
N carriagereturn	N cieuccirclekorean
N cbopomofo	N cieuckorean
N ccaron	N cieucparenkorean
N ccedilla	N cieucuparenkorean
N ccedillaacute	N circle
N ccircle	N circlemultiply
N ccircumflex	N circleot
N ccurl	N circleplus
N cdot	N circlepostalmark
N cdotaccent	N circlewithlefthalfblack
N cdsquare	N circlewithrighthalfblack
N cedilla	N circumflex
N cedillacmb	N circumflexbelowcmb
N cent	N circumflexcmb
N centigrade	N clear
N centmonospace	N clickalveolar
N chaarmenian	N clickdental
N chabengali	N clicklateral
N chadeva	N clickretroflex
N chagujarati	N club
N chagurmukhi	N clubsuitblack
N chbopomofo	N clubsuitwhite
N cheabkhasiancyrillic	N cmcubedsquare



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

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

N dhagurmukhi	N downtackbelowcmb
N dhook	N downtackmod
N dialytikatonos	N dparen
N dialytikatonoscmb	N dtail
N diamond	N dtopbar
N diamondsuitwhite	N duhiragana
N dieresis	N dukatakana
N dieresisbelowcmb	N dz
N dieresiscmb	N dzaltone
N dieresistonos	N dzcaron
N dihiragana	N dzcurl
N dikatakana	N dzeabkhasiancyrillic
N dittomark	N dzecyrillic
N divide	N dzhecyrillic
N divides	N e
N divisionslash	N eacute
N djecyrillic	N earth
N dkshade	N ebengali
N dlinebelow	N ebopomofo
N dlsquare	N ebreve
N dmacron	N ecandradeva
N dmonospace	N ecandragujarati
N dnblock	N ecandravowelsigndeva
N dochadathai	N ecandravowelsigngujarati
N dodekthai	N ecaron
N dohiragana	N ecedillabreve
N dokatakana	N echarmenian
N dollar	N echiwnarmenian
N dollarmonospace	N ecircle
N dollarsmall	N ecircumflex
N dong	N ecircumflexacute
N dorusquare	N ecircumflexbelow
N dotaccent	N ecircumflexdotbelow
N dotaccentcmb	N ecircumflexgrave
N dotbelowcmb	N ecircumflexhookabove
N dotbelowcomb	N ecircumflextilde
N dotkatakana	N ecyrillic
N dotlessi	N edblgrave
N dotlessj	N edeva
N dotlessjstrokehook	N edieresis
N dotmath	N edot
N dottedcircle	N edotaccent
N doubleyodpatah	N edotbelow
N doubleyodpatahhebrew	N eegurmukhi

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

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

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

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

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

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



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

N ideographicsuperviseparen  
N ideographicwaterparen  
N ideographicwoodparen  
N ideographiczero  
N ideographmetalcircle  
N ideographmooncircle  
N ideographnamecircle  
N ideographsuncircle  
N ideographwatercircle  
N ideographwoodcircle  
N ideva  
N idieresis  
N idieresisacute  
N idieresis Cyrillic  
N idotbelow  
N iebrev Cyrillic  
N iecyrillic  
N ieungacirclekorean  
N ieungaparenkorean  
N ieungcirclekorean  
N ieungkorean  
N ieungparenkorean  
N igrave  
N igujarati  
N igurmukhi  
N ihiragana  
N ihookabove  
N iibengali  
N iicyrillic  
N iideva  
N iigujarati  
N iigurmukhi  
N iimatragurmukhi  
N iinvertedbreve  
N iishort Cyrillic  
N iivowelsignbengali  
N iivowelsigndeva  
N iivowelsigngujarati  
N ij  
N ikatakana  
N ikatakanahalfwidth  
N ikorean  
N ilde  
N iluyhebrew

N imacron  
N imacron Cyrillic  
N imageorapproximatelyequal  
N imatragurmukhi  
N imonospace  
N increment  
N infinity  
N iniarmenian  
N integral  
N integralbottom  
N integralbt  
N integraltp  
N intersection  
N intisquare  
N invbullet  
N invcircle  
N invsmileface  
N iocyrillic  
N iogonek  
N iota  
N iotadieresis  
N iotadieresis-tonos  
N iotalatin  
N iotatonos  
N iparen  
N irigurmukhi  
N ismallhiragana  
N ismallkatakana  
N ismallkatakanahalfwidth  
N issharbengali  
N istroke  
N iterationhiragana  
N iterationkatakana  
N itilde  
N itildebelow  
N iubopomofo  
N iucyrillic  
N ivowelsignbengali  
N ivowelsigndeva  
N ivowelsigngujarati  
N izhitsa Cyrillic  
N izhitsadblgrave Cyrillic  
N j

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

N kheicoptic	N kpasquare
N khhadeva	N ksicyrillic
N khhagurmukhi	N ktsquare
N khieukhacirclekorean	N kturned
N khieukhaparenkorean	N kuhiragana
N khieukhcirclekorean	N kukatakana
N khieukhkorean	N kukatakanahalfwidth
N khieukhparenkorean	N kvsquare
N khokhaithai	N kwsquare
N khokhonthai	N l
N khokhuatthai	N labengali
N khokhwaithai	N lacute
N khomutthai	N ladeva
N khook	N lagujarati
N khorakhangthai	N lagurmukhi
N khzsquare	N lakkhangyaothai
N khiragana	N lamaleffinalarabic
N kikatakana	N lamalefhamzaabovefinalarabic
N kikatakanahalfwidth	N lamalefhamzaaboveisolatedarabic
N kiroguramusquare	N lamalefhamzabelowfinalarabic
N kiromeetorusquare	N lamalefhamzabelowisolatedarabic
N kirosquare	N lamalefisolatedarabic
N kiyeokacirclekorean	N lamalefmaddaabovefinalarabic
N kiyeokaparenkorean	N lamalefmaddaaboveisolatedarabic
N kiyeokcirclekorean	N lamarabic
N kiyeokkorean	N lambda
N kiyeokparenkorean	N lambdastroke
N kiyeoksioskorean	N lamed
N kjecyrillic	N lameddagesh
N klinebelow	N lameddageshhebrew
N klsquare	N lamedhebrew
N kmcubedsquare	N lamedholam
N kmonospace	N lamedholamdagesh
N kmsquaredsquare	N lamedholamdageshhebrew
N kohiragana	N lamedholamhebrew
N kohmsquare	N lamfinalarabic
N kokaithai	N lamhahinitialarabic
N kokatakana	N laminitialarabic
N kokatakanahalfwidth	N lamjeeminitialarabic
N kooposquare	N lamkhahinitialarabic
N koppacyrillic	N lamlamhehisolatedarabic
N koreanstandardsymbol	N lammedialarabic
N koroniscmb	N lammeemhahinitialarabic
N kparen	N lammeeminitialarabic

N lammeenjeeminitialarabic  
 N lammeemkhahinitialarabic  
 N largecircle  
 N lbar  
 N lbelt  
 N lbopomofo  
 N lcaron  
 N lcedilla  
 N lcircle  
 N lcircumflexbelow  
 N lcommaaccent  
 N ldot  
 N ldotaccent  
 N ldotbelow  
 N ldotbelowmacron  
 N leftangleabovecmb  
 N lefttackbelowcmb  
 N less  
 N lessequal  
 N lessequalorgreater  
 N lessmonospace  
 N lessorequivalent  
 N lessorgreater  
 N lessoverequal  
 N lesssmall  
 N lezh  
 N lfblock  
 N lhookretroflex  
 N lira  
 N liwnarmenian  
 N lj  
 N ljecyrillic  
 N lladeva  
 N llagujarati  
 N llinebelow  
 N llladeva  
 N llvocalicbengali  
 N llvocalicdeva  
 N llvocalicvowelsignbengali  
 N llvocalicvowelsigndeva  
 N lmiddletilde  
 N lmonospace  
 N lmsquare  
 N lochulathai

N logicaland  
 N logicalnot  
 N logicalnotreversed  
 N logicalor  
 N lolingthai  
 N longs  
 N lowlinecenterline  
 N lowlinecmb  
 N lowlinedashed  
 N lozenge  
 N lparen  
 N lslash  
 N lsquare  
 N ltshade  
 N luthai  
 N lvocalicbengali  
 N lvocalicdeva  
 N lvocalicvowelsignbengali  
 N lvocalicvowelsigndeva  
 N lxsquare  
 N m  
 N mabengali  
 N macron  
 N macronbelowcmb  
 N macroncmb  
 N macronlowmod  
 N macronmonospace  
 N macute  
 N madeva  
 N magujarati  
 N magurmukhi  
 N mahapakhhebrew  
 N mahapakhlefthebrew  
 N mahiragana  
 N maichattawathai  
 N maiekthai  
 N maihanakatthai  
 N maitaikhuthai  
 N maithothai  
 N maitrithai  
 N maiyamokthai  
 N makatakana  
 N makatakanahalfwidth  
 N male

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

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

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



N ocyrillic  
N odblacute  
N odblgrave  
N odeva  
N odieresis  
N odieresiscyrillic  
N odotbelow  
N oe  
N oekorean  
N ogonek  
N ogonekcmb  
N ograve  
N ogujarati  
N oharmerian  
N ohiragana  
N ohookabove  
N ohorn  
N ohornacute  
N ohorndotbelow  
N ohorngrave  
N ohornhookabove  
N ohorntilde  
N ohungarumlaut  
N oi  
N oinvertedbreve  
N okatakana  
N okatakanahalfwidth  
N okorean  
N olehebrew  
N omacron  
N omacronacute  
N omacrongrave  
N omdeva  
N omega  
N omegal  
N omegacyrillic  
N omegalatincloded  
N omegaroundcyrillic  
N omegatitlocyrillic  
N omegatonos  
N omgujarati  
N omicron  
N omicrontonos  
N omonospace

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

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

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

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

N ragurmukhi	N reshqubutshebrew
N rahiragana	N reshsegol
N rakatakana	N reshsegolhebrew
N rakatakanahalfwidth	N reshsheva
N ralowerdiagonalbengali	N reshshevahebrew
N ramiddlediagonalbengali	N reshtsere
N ramshorn	N reshtserehebrew
N ratio	N reversedtilde
N rbopomofo	N reviahebrew
N rcaron	N reviamugrashhebrew
N rcedilla	N revlogicalnot
N rcircle	N rfishhook
N rcommaaccent	N rfishhookreversed
N rdblgrave	N rhabengali
N rdotaccent	N rhadeva
N rdotbelow	N rho
N rdotbelowmacron	N rhook
N referencemark	N rhookturned
N reflexsubset	N rhookturnedsuperior
N reflexsuperset	N rhosymbolgreek
N registered	N rhotichookmod
N reharabic	N rieulacirclekorean
N reharmenian	N rieulaparenkorean
N rehfinalarabic	N rieulcirclekorean
N rehiragana	N rieulhieuhkorean
N rehyehaleflamarabic	N rieulkiyeokkorean
N rekatakana	N rieulkiyeoksioskorean
N rekatakanahalfwidth	N rieulkorean
N resh	N rieulmieumkorean
N reshdageshebrew	N rieulpansioskorean
N reshhatafpatah	N rieulparenkorean
N reshhatafpatahhebrew	N rieulphieuphkorean
N reshhatafsegol	N rieulpieupkorean
N reshhatafsegolhebrew	N rieulpieupsioskorean
N reshhebrew	N rieulsioskorean
N reshhiriq	N rieulthieuthkorean
N reshhiriqhebrew	N rieultikeutkorean
N reshholam	N rieulyeorinhieuhkorean
N reshholamhebrew	N rightangle
N reshpatah	N righttackbelowcmb
N reshpatahhebrew	N righttriangle
N reshqamats	N rihiragana
N reshqamatshebrew	N rikatakana
N reshqubuts	N rikatakanahalfwidth

N ring	N rvocalicvowelsignbengali
N ringbelowcmb	N rvocalicvowelsigndeva
N ringcmb	N rvocalicvowelsigngujarati
N ringhalfleft	N s
N ringhalfleftarmenian	N sabengali
N ringhalfleftbelowcmb	N sacute
N ringhalfleftcentered	N sacutedotaccent
N ringhalfright	N sadarabic
N ringhalfrightbelowcmb	N sadeva
N ringhalfrightcentered	N sadfinalarabic
N rinvertedbreve	N sadinitialarabic
N rittorusquare	N sadmedialarabic
N rlinebelow	N sagujarati
N rlongleg	N sagurmukhi
N rlonglegturned	N sahiragana
N rmonospace	N sakatakana
N rohiragana	N sakatakanahalfwidth
N rokatakana	N sallallahoualayhewasallamarabic
N rokatakanahalfwidth	N samekh
N roruathai	N samekhdagesh
N rparen	N samekhdageshhebrew
N rrabengali	N samekhhebrew
N rradeva	N saraaathai
N rragurmukhi	N saraaethai
N rreharabic	N saraaimaimalaithai
N rrehfinalarabic	N saraaimaimuanthai
N rrvocalicbengali	N saraamthai
N rrvocalicdeva	N saraathai
N rrvocalicgujarati	N saraethai
N rrvocalicvowelsignbengali	N saraiithai
N rrvocalicvowelsigndeva	N saraithai
N rrvocalicvowelsigngujarati	N saraothai
N rtblock	N sarauethai
N rturned	N sarauethai
N rturnedsuperior	N sarauthai
N ruhiragana	N sarauuthai
N rukatakana	N sbopomofo
N rukatakanahalfwidth	N scaron
N rupeemarkbengali	N scarondotaccent
N rupeesignbengali	N scedilla
N ruthai	N schwa
N rvocalicbengali	N schwacyrillic
N rvocalicdeva	N schwadiesiscyrillic
N rvocalicgujarati	N schwahook

N scircle	N sevenhackarabic
N scircumflex	N sevenhangzhou
N scommaaccent	N sevenideographicparen
N sdotaccent	N seveninferior
N sdotbelow	N sevenmonospace
N sdotbelowdotaccent	N sevenparen
N seagullbelowcmb	N sevenperiod
N second	N sevenpersian
N secondtonechinese	N sevenroman
N section	N sevensuperior
N seenarabic	N seventeencircle
N seenfinalarabic	N seventeenparen
N seeninitialarabic	N seventeenperiod
N seenmedialarabic	N seventhai
N segol	N sfthyphen
N segoll3	N shaarmenian
N segollf	N shabengali
N segol2c	N shacyrillic
N segolhebrew	N shaddaarabic
N segolnarrowhebrew	N shaddadammaarabic
N segolquarterhebrew	N shaddadammatanarabic
N segoltahebrew	N shaddafathaarabic
N segolwidehebrew	N shaddafathatanarabic
N seharmonian	N shaddakasraarabic
N sehiragana	N shaddakasratanarabic
N sekatakana	N shade
N sekatakanahalfwidth	N shadedark
N semicolon	N shadelight
N semicolonarabic	N shademedium
N semicolonmonospace	N shadeva
N semicolonsmall	N shagujarati
N semivoicedmarkkana	N shagurmukhi
N semivoicedmarkkanahalfwidth	N shalshethebrew
N sentisquare	N shbopomofo
N sentosquare	N shchacyrillic
N seven	N sheenarabic
N sevenarabic	N sheenfinalarabic
N sevenbengali	N sheeninitialarabic
N sevencircle	N sheenmedialarabic
N sevencircleinversesansserif	N sheicoptic
N sevendeva	N sheqel
N seveneighths	N sheqelhebrew
N sevengujarati	N sheva
N sevengurmukhi	N sheval15

N sheva15	N six
N sheva22	N sixarabic
N sheva2e	N sixbengali
N shevahebrew	N sixcircle
N shevanarrowhebrew	N sixcircleinversesansserif
N shevaquarterhebrew	N sixdeva
N shevawidehebrew	N sixgujarati
N shhacyrillic	N sixgurmukhi
N shimacoptic	N sixhackarabic
N shin	N sixhangzhou
N shindagesh	N sixideographicparen
N shindageshhebrew	N sixinferior
N shindageshshindot	N sixmonospace
N shindageshshindothhebrew	N sixparen
N shindageshsindot	N sixperiod
N shindageshsindothhebrew	N sixpersian
N shindothhebrew	N sixroman
N shinhebrew	N sixsuperior
N shinshindot	N sixteencircle
N shinshindothhebrew	N sixteencurrencydenominatorbengali
N shinsindot	N sixteenparen
N shinsindothhebrew	N sixteenperiod
N shook	N sixthai
N sigma	N slash
N sigma1	N slashmonospace
N sigmafinal	N slong
N sigmaunatesymbolgreek	N slongdotaccent
N sihiragana	N smileface
N sikatakana	N smonospace
N sikatakanahalfwidth	N sofupasuhebrew
N siluqhebrew	N softthyphen
N siluqlefthebrew	N softsigncyrillic
N similar	N sohiragana
N sindothhebrew	N sokatakana
N siosacirclekorean	N sokatakanahalfwidth
N siosaparenkorean	N soliduslongoverlaycmb
N sioscieuckorean	N solidusshortoverlaycmb
N sioscirclekorean	N sorusithai
N sioskiyeokkorean	N sosalathai
N sioskorean	N sosothai
N siosnieunkorean	N sosuathai
N siosparenkorean	N space
N siospieupkorean	N spacehackarabic
N siostikeutkorean	N spade



N spadesuitblack	N sukatakana
N spadesuitwhite	N sukatakanahalfwidth
N sparen	N sukunarabic
N squarebelowcmb	N summation
N squarecc	N sun
N squarecm	N superset
N squarediagonalcrosshatchfill	N supersetnotequal
N squarehorizontalfill	N supersetorequal
N squarekg	N svsquare
N squarekm	N syowuierasquare
N squarekmcapital	N t
N squareln	N tabengali
N squarelog	N tackdown
N squaremg	N tackleft
N squaremil	N tadeva
N squaremm	N tagujarati
N squaremsquared	N tagurmukhi
N squareorthogonalcrosshatchfill	N taharabic
N squareupperlefttolowerrightfill	N tahfinalarabic
N squareupperighttolowerleftfill	N tahinitialarabic
N squareverticalfill	N tahiragana
N squarewhitewithsmallblack	N tahmedialarabic
N srsquare	N taisyouerasquare
N ssabengali	N takatakana
N ssadeva	N takatakanahalfwidth
N ssagujarati	N tatweelarabic
N ssangcieuckorean	N tau
N ssanghieuhkorean	N tav
N ssangieungkorean	N tavadages
N ssangkiyeokkorean	N tavadagesh
N ssangnieunkorean	N tavadageshhebrew
N ssangpieupkorean	N tavhebrew
N ssangsioskorean	N tbar
N ssangtikeutkorean	N tbopomofo
N sterling	N tcaron
N sterlingmonospace	N tccurl
N strokelongoverlaycmb	N tcedilla
N strokeshortoverlaycmb	N tcheharabic
N subset	N tchehfinalarabic
N subsetnotequal	N tchehinitialarabic
N subsetorequal	N tchehmedialarabic
N succeeds	N tchehmeeminitialarabic
N suchthat	N tcircle
N suhiragana	N tcircumflexbelow

N tcommaaccent	N thalfinalarabic
N tdieresis	N thanthakhatthai
N tdotaccent	N theharabic
N tdotbelow	N thehfinalarabic
N tecyrillic	N thehinitialarabic
N tedescendercyrillic	N thehmedialarabic
N teharabic	N thereexists
N tehfinalarabic	N therefore
N tehhahinitialarabic	N theta
N tehhahisolatedarabic	N thetal
N tehinitialarabic	N thetasymbolgreek
N tehiragana	N thieuthacirclekorean
N tehjeeminitialarabic	N thieuthaparenkorean
N tehjeemisolatedarabic	N thieuthcirclekorean
N tehmarbutaarabic	N thieuthkorean
N tehmarbutafinalarabic	N thieuthparenkorean
N tehmedialarabic	N thirteencircle
N tehmeeminitialarabic	N thirteenparen
N tehmeemisolatedarabic	N thirteenperiod
N tehnoonfinalarabic	N thonangmonthothai
N tekatakana	N thook
N tekatakanahalfwidth	N thophuthaothai
N telephone	N thorn
N telephoneblack	N thothahanthai
N telishagedolahebrew	N thothanthai
N telishaqetanahebrew	N thothongthai
N tencircle	N thothungthai
N tenideographicparen	N thousandcyrillic
N tenparen	N thousandsseparatorarabic
N tenperiod	N thousandsseparatorpersian
N tenroman	N three
N tesh	N threearabic
N tet	N threebengali
N tetdagesh	N threecircle
N tetdageshhebrew	N threecircleinversesansserif
N tethebrew	N threedeva
N tetsecyrillic	N threeeighths
N tevirhebrew	N threegujarati
N tevirlefthebrew	N threegurukhi
N thabengali	N threehackarabic
N thadeva	N threehangzhou
N thagujarati	N threeideographicparen
N thagurmukhi	N threeinferior
N thalarabic	N threemonospace

N threenumeratorbengali  
N threeparen  
N threeperiod  
N threepersian  
N threequarters  
N threeroman  
N threesuperior  
N threethai  
N thzsquare  
N tihiragana  
N tikatakana  
N tikatakanahalfwidth  
N tikeutacirclekorean  
N tikeutaparenkorean  
N tikeutcirclekorean  
N tikeutkorean  
N tikeutparenkorean  
N tilde  
N tildebelowcmb  
N tildecmb  
N tildecomb  
N tildedoublecmb  
N tildeoperator  
N tildeoverlaycmb  
N tildeverticalcmb  
N timescircle  
N tipehahebrew  
N tipehalefthebrew  
N tippigurmukhi  
N titlocyrilliccmb  
N tiwnarmenian  
N tlinebelow  
N tmonospace  
N toarmenian  
N tohiragana  
N tokatakana  
N tokatakanahalfwidth  
N tonebarextrahighmod  
N tonebarextralowmod  
N tonebarhighmod  
N tonebarlowmod  
N tonebarmidmod  
N tonefive  
N tonesix

N tonetwo  
N tonos  
N tonsquare  
N topatakthai  
N tortoiseshellbracketleft  
N tortoiseshellbracketleftsmall  
N tortoiseshellbracketleftvertical  
N tortoiseshellbracketright  
N tortoiseshellbracketrightsmall  
N tortoiseshellbracketrightvertical  
N totaothai  
N tpalatalhook  
N tparen  
N trademark  
N tetroflexhook  
N triagdn  
N triaglf  
N triagrt  
N triagup  
N ts  
N tsadi  
N tsadidagesh  
N tsadidageshhebrew  
N tsadihebrew  
N tsecyrillic  
N tsere  
N tsere12  
N tsere1e  
N tsere2b  
N tserehebrew  
N tserenarrowhebrew  
N tserequarterhebrew  
N tserewidehebrew  
N tshecyrillic  
N ttabengali  
N ttadeva  
N ttagujarati  
N ttagurmukhi  
N tteharabic  
N ttehfinalearabic  
N ttehinitialarabic  
N ttehmedialarabic  
N tthabengali  
N tthadeva

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

N underscoredbl	N vav
N underscoremonospace	N vavdagesh
N underscorevertical	N vavdagesh65
N underscorewavy	N vavdageshhebrew
N union	N vavhebrew
N universal	N vavholam
N uogonek	N vavholamhebrew
N uparen	N vavvavhebrew
N upblock	N vavyodhebrew
N upperdothebrew	N vcircle
N upsilon	N vdotbelow
N upsilondieresis	N vecyrillic
N upsilondieresistonos	N veharabic
N upsilonlatin	N vehfinalarabic
N upsilontonos	N vehinitialarabic
N uptackbelowcmb	N vehmedialarabic
N uptackmod	N vekatakana
N uragurmukhi	N venus
N uring	N verticalbar
N ushortcyrillic	N verticallineabovecmb
N usmallhiragana	N verticallinebelowcmb
N usmallkatakana	N verticallinelowmod
N usmallkatakanahalfwidth	N verticallinemod
N ustraightcyrillic	N vewarmenian
N ustraightstrokecyrillic	N vhook
N utilde	N vikatakana
N tildeacute	N viramabengali
N tildebelow	N viramadeva
N uubengali	N viramagujarati
N uudeva	N visargabengali
N uugujarati	N visargadeva
N uugurmukhi	N visargagujarati
N uumatragurmukhi	N vmonospace
N uvowelsignbengali	N voarmenian
N uvowelsigndeva	N voicediterationhiragana
N uvowelsigngujarati	N voicediterationkatakana
N uvowelsignbengali	N voicedmarkkana
N uvowelsigndeva	N voicedmarkkanahalfwidth
N uvowelsigngujarati	N vokatakana
N v	N vparen
N vadeva	N vtilde
N vagujarati	N vturned
N vagurmukhi	N vuhiragana
N vakatakana	N vukatakana

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

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

N yusmallkatakanahalfwidth  
 N yuyekorean  
 N yuyeokorean  
 N yyabengali  
 N yyadeva  
 N z  
 N zaarmenian  
 N zacute  
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 N zagurmukhi  
 N zaharabic  
 N zahfinalarabic  
 N zahinitialarabic  
 N zahiragana  
 N zahmedialarabic  
 N zainarabic  
 N zainfinalarabic  
 N zakatakana  
 N zaqefgadolhebrew  
 N zaqefqatanhebrew  
 N zarqahebrew  
 N zayin  
 N zayindagesh  
 N zayindageshhebrew  
 N zayinhebrew  
 N zbopomofo  
 N zcaron  
 N zcircle  
 N zcircumflex  
 N zcurl  
 N zdot  
 N zdotaccent  
 N zdotbelow  
 N zecyrillic  
 N zedescendercyrillic  
 N zedieresiscyrillic  
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 N zekatakana  
 N zero  
 N zeroarabic  
 N zerobengali  
 N zerodeva  
 N zerogujarati  
 N zerogurmukhi

N zerohackarabic  
 N zeroinferior  
 N zeromonospace  
 N zeropersian  
 N zerosuperior  
 N zerothai  
 N zerowidthjoiner  
 N zerowidthnonjoiner  
 N zerowidthspace  
 N zeta  
 N zhbopomofo  
 N zhearmenian  
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 N zhedescendercyrillic  
 N zhedieresiscyrillic  
 N zhiragana  
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 N zlinebelow  
 N zmonospace  
 N zohiragana  
 N zokatakana  
 N zparen  
 N zretroflexhook  
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<b>getdiscexpansion</b>	function
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 F opentype  
 T kern  
 F opentype  
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- F opentype
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- F opentype

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    T unicode
T f_f_i
    N mess
    S name
    T unicode
T f_f_l
    N mess
    S name
    T unicode
T f_i
    N mess
    S name
    T unicode
T f_j
    S name
    T unicode
T f_k
    S name
    T unicode
T f_l
    N mess
    S name
    T unicode
T i_j
    N mess
    S name

```

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T unicode
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F tounicode16
F tounicode16sequence
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F boxtomp
F draw
F fill
F maxbounds
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F widthline
F zeroline
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protrusions             data table
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F check_tfm
F lua
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F definefontfamilypreset		D contextsetups	
D extras		F contexttostring	
F fallback		F definecontext	
D fallbacks		F mergecontext	
F features		F presetcontext	
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**lines**    function  
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<b>ofindex</b>	function
<b>package</b>	function
<b>print</b>	function
<b>scan</b>	function
<b>serialize</b>	function
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<b>write</b>	function

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# interfaces (context)

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<b>getnamespace</b>	function	F abjadnodotnumerals
<b>getsetupstring</b>	function	F abjadnumerals
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<b>interfacedcommand</b>	function	F addfeature
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F Alphabetic		F alphabetic
F Character		F analyzefloatmethod
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F MPLIBconvertoutlinetext		F analyzelist
F MPc		F analyzeregister
F MPd		F applypattern
F MPH		F applytobox
F MPll		F applytofirstcharacter
F MPLr		F assignbuffer
F MPLs		F autofinishstructurelevels
F MPn		F autonextspace
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F autose setups	F btxlastofrange
F autostarttext	F btxlistvariant
F autostoptext	F btxloaddefinitionfile
F averagecharwidth	F btxloadjournallist
F bitmapimage	F btxloadreplacementfile
F blockcolumnset	F btxoneorrange
F boxtostring	F btxpreparelistentries
F bposcolumn	F btxremapauthor
F bposcolumnregistered	F btxsavedataset
F btxabbreviatedjournal	F btxsavejournallist
F btxaddentry	F btxsetdataset
F btxaddjournal	F btxsetentry
F btxauthor	F btxsetregister
F btxauthorfield	F btxsetspecification
F 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
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F btxflushmarked	F colorcomponents
F btxflushpages	F columnsetcurrentcolumn
F btxfoundname	F columnsetgoto
F btxfoundtype	F columnsetnoto
F btxhandlecite	F concatcommalist
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F convertbtxdatasettoxml	F definefontfamilypreset
F converteddimen	F definefontfeature
F convertmpstopdf	F definefontsolution
F copyboxfromcache	F definehyphenationfeatures
F copyposition	F defineinsertion
F cos	F defineintermediatecolor
F cosd	F definelabels
F countervalue	F definelanguage
F counttwopassdata	F definelinefiller
F currentcomponent	F definelinkedlist
F currentdate	F definemarking
F currentdesignsize	F definemetafont
F currentenvironment	F definemultitonecolorglobal
F currentposthyphenchar	F definenamespace
F currentprehyphenchar	F definenote
F currentproduct	F defineparallel
F currentproject	F defineparbuilder
F currentreferenceorder	F defineprocesscolordummy
F currentsectiontolist	F defineprocesscolorglobal
F datasetvariable	F defineprocesscolorlocal
F dayname	F defineprogram
F decimals	F definereference
F decrementcounter	F defineregister
F decrementedcounter	F definerule
F decrementsubcounter	F definesectionlevels
F defineaccents	F defineshift
F defineattribute	F definesnapmethod
F definebreakpoint	F definespotcolorglobal
F definebreakpoints	F definestructureblock
F definecharacterspacing	F definestructureset
F definechemical	F definetransparency
F definecolumnset	F definetransparencyglobal
F defineconversion	F definetwopasslist
F definecounter	F definetypeface
F definedlayoutcomponent	F defineviewerlayer
F definefallbackfamily	F depthnumber
F definefield	F digits_normal
F definefieldset	F digits_reverse
F definefilefallback	F directboxfromcache
F definefilesynonym	F directcopyboxfromcache
F definefont_one	F disableautofontscript
F definefont_two	F disabledirectives
F definefontcolorpalette	F disableexperiments
F definefontfamily	F disablejobsave

F disableparbuilder  
F disableregime  
F disablespellchecking  
F disablestatetriggering  
F disablestream  
F disabletrackers  
F discardfromlist  
F doanalyzeframedbox  
F doifcommon  
F doifcounter  
F doifelseblack  
F doifelseboxincache  
F doifelsebuffer  
F doifelsecharinfont  
F doifelsecommon  
F doifelsecontinewithfile  
F doifelseconverter  
F doifelsecounter  
F doifelsecurrentfonthasfeature  
F doifelsedrawingblack  
F doifelsefieldcategory  
F doifelsefiledefined  
F doifelsefileexist  
F doifelsefirstchar  
F doifelsefontpresent  
F doifelseinelement  
F doifelseinputfile  
F doifelseinset  
F doifelseintwopassdata  
F doifelseleapyear  
F doifelselisthasentry  
F doifelselisthasnumber  
F doifelselisthaspage  
F doifelselisthastitle  
F doifelselocfile  
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 doifelserightttoleftinbox  
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 dosetpositionstrutkind  
F dosetpositionwhd  
F dostarttextfile  
F dostoptextfile  
F elapsedtime  
F enableasciimode  
F enableautofences

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

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

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

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



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

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

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

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

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

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

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

## io (basic lua)

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



# job (context)

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

F p  
T page  
F paragraph  
F parindent  
F position  
F r  
F region  
F replace  
F rightskip  
F set  
F setall  
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>hjcounts</b>	table	<b>registered</b>	data table
<b>hyphenate</b>	function	<b>replacements</b>	table
<b>hyphenators</b>	table	<b>F add</b>	
<b>T dictionaries</b>		<b>F handler</b>	
<b>D featuresets</b>		<b>F set</b>	
<b>F handler</b>		<b>serializediscretionary</b>	function
<b>T methods</b>		<b>setexceptions</b>	function
<b>F expanded</b>		<b>setsynonym</b>	function
<b>B none</b>		<b>showdiscretionaries</b>	function
<b>F original</b>		<b>unload</b>	function
<b>F tex</b>		<b>urls</b>	table
<b>F traditional</b>		<b>D characters</b>	
<b>F popmethod</b>		<b>N leftthyphenmin</b>	
<b>F pushmethod</b>		<b>D mapping</b>	
<b>F setmethod</b>		<b>B packslashes</b>	
<b>F setup</b>		<b>N rightthyphenmin</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>patternstream</b>	function
<b>colorvalues</b>	function	<b>pdfcolor</b>	function
<b>constant</b>	function	<b>pdftimestamp</b>	function
<b>delayedobject</b>	function	<b>permitdetail</b>	function
<b>destinationspecification</b>	function	<b>protectresources</b>	boolean
<b>dictionary</b>	function	<b>rectangle</b>	function
<b>docstring</b>	function	<b>reference</b>	function
<b>epdf</b>	table	<b>registerannotation</b>	function
F contenttotext		<b>registerdestination</b>	function
F expand		<b>registerdocumentfinalizer</b>	function
F expanded		<b>registerpagefinalizer</b>	function
F getpagecontent		<b>registerpattern</b>	function
F getstructure		<b>reserveobject</b>	function
F load		<b>rgbcode</b>	function
F unload		<b>rotationcm</b>	function
<b>escaped</b>	function	<b>setdates</b>	function

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

## lpeg (basic lua)

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

# ltn12 (extra lua)

**BLOCKSIZE** number

**filter** table

F chain

F cycle

**pump** table

F all

F step

**sink** table

F chain

F error

F file

F null

F simplify

F table

**source** table

F cat

F chain

F empty

F error

F file

F rewind

F simplify

F string

# lua (basic tex)

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

# luatex (context)

**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>inlineverbatim</b>	function
<b>context</b>	function	<b>installsetup</b>	function
<b>convert</b>	function	<b>last</b>	function
<b>count</b>	function	<b>lastatt</b>	function
<b>delete</b>	function	<b>lastmatch</b>	function
<b>direct</b>	function	<b>load</b>	function
<b>directives</b>	table	<b>loadbuffer</b>	function
F after		<b>loaddata</b>	function
F before		<b>loaded</b>	table
F handle		<b>main</b>	function
F load		<b>match</b>	function
F setup		<b>name</b>	function
<b>displayverbatim</b>	function	<b>namespace</b>	function
<b>doif</b>	function	<b>nonspace</b>	function
<b>doifelse</b>	function	<b>path</b>	function
<b>doifelseempty</b>	function	<b>popmatch</b>	function
<b>doifelsetext</b>	function	<b>pos</b>	function
<b>doifempty</b>	function	<b>position</b>	function
<b>doifnot</b>	function	<b>pure</b>	function
<b>doifnotempty</b>	function	<b>pushmatch</b>	function
<b>doifnottext</b>	function	<b>raw</b>	function
<b>doiftext</b>	function	<b>rawroot</b>	function
<b>element</b>	function	<b>rawtex</b>	function
<b>elements</b>	function	<b>refatt</b>	function
<b>entities</b>	data table	<b>register</b>	function
<b>filter</b>	function	<b>registerentity</b>	function
<b>filterlist</b>	function	<b>removesetup</b>	function
<b>first</b>	function	<b>resetcdata</b>	function

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

## math (basic lua)

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

# mathematics (context)

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

## mbox (context)

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

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

## md5 (extra lua)

**HEX**      function

**crypt**    function

**dec**      function

**decrypt** function

**exor**     function

**hex**      function

**sum**      function

**sumhexa** function

# metapost (context)

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

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



## mime (extra lua)

**b64** function

**decode** function

**decodet** table

F base64

F quoted-printable

**dot** function

**encode** function

**encodet** table

F base64

F quoted-printable

**eol** function

**normalize** function

**qp** function

**qpwrp** function

**stuff** function

**unb64** function

**unqp** function

**wrap** function

**wrapt** table

F base64

F default

F quoted-printable

F text

**wrp** function

## mp (context)

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

F load

<b>defaultcolormodel</b>	function	<b>newhash</b>	function
<b>dimensions</b>	function	<b>numeric</b>	function
<b>disposehash</b>	function	<b>pair</b>	function
<b>format</b>	function	<b>path</b>	function
<b>formatted</b>	function	<b>prefix</b>	function
<b>get</b>	table	<b>print</b>	function
F boolean		<b>quadruple</b>	function
F number		<b>quoted</b>	function
F numeric		<b>report</b>	function
F string		<b>setcount</b>	function
<b>get_outline_text</b>	function	<b>setdimen</b>	function
<b>getcount</b>	function	<b>settoks</b>	function
<b>getdimen</b>	function	<b>size</b>	function
<b>gettoks</b>	function	<b>systemmode</b>	function
<b>graphformat</b>	function	<b>tb_dimensions</b>	function
<b>inhash</b>	function	<b>tohash</b>	function
<b>integer</b>	function	<b>triplet</b>	function
<b>isarray</b>	function	<b>tt_dimensions</b>	function
<b>mode</b>	function	<b>tt_initialize</b>	function
<b>n</b>	function		

## mplib (extra tex)

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

# noads (context)

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

## node (basic tex)

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

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

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

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

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



## nodes (context)

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

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

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

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

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

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

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

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

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

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

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

F codes		F tonodes	
F features		F toinbox	
F font		F tovpack	
F glyphs		F vpack	
F message		<b>unprotect_glyphs</b>	function
F messages		<b>unset_attribute</b>	function
F nofsteps		<b>unsetattribute</b>	function
F register		<b>unsetattributes</b>	function
F reset		<b>usedlist</b>	function
F start		<b>usercodes</b>	data table
F stop		<b>vianodes</b>	function
F stop		<b>vianuts</b>	function
T transparencies		<b>visualizebox</b>	function
F reset		<b>visualizers</b>	table
F set		F box	
F setlist		F handler	
<b>traverse</b>	function	F markfonts	
<b>traverse_char</b>	function	F setfont	
<b>traverse_id</b>	function	F setlayer	
<b>typesetters</b>	table	F setvisual	
F hbox		<b>vpack</b>	function
F hpack		<b>whatcodes</b>	data table
F toinbox		<b>whatsitcodes</b>	data table
F toinbox		<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>tocontext</b>	function
<b>bytetodecimal</b>	function	<b>todidots</b>	function
<b>clearbit</b>	function	<b>todimen</b>	function
<b>decimaltobyte</b>	function	<b>toevenhex</b>	function
<b>dimenfactors</b>	data table	<b>toinches</b>	function
<b>formatted</b>	function	<b>tomillimeters</b>	function
<b>hasbit</b>	function	<b>tonewciceros</b>	function
<b>maxdimen</b>	number	<b>tonewdidots</b>	function
<b>nopts</b>	function	<b>tonumberf</b>	function
<b>percent</b>	function	<b>tonumberg</b>	function
<b>points</b>	function	<b>topicas</b>	function
<b>pts</b>	function	<b>topoints</b>	function
<b>setbit</b>	function	<b>toscaled</b>	function
<b>signed</b>	function	<b>toscaledpoints</b>	function
<b>sparseexponent</b>	function	<b>toset</b>	function
<b>splitdimen</b>	function	<b>valid</b>	function
<b>tobasepoints</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>loaders</b>	table
<b>cpath</b>	string	<b>loadlib</b>	function
<b>extralibpath</b>	function	<b>luapaths</b>	function
<b>extralibpaths</b>	function	<b>path</b>	string
<b>extralupath</b>	function	<b>preload</b>	table
<b>extralupaths</b>	function	<b>searchers</b>	table
<b>helpers</b>	table	<b>searchpath</b>	function
<b>libpaths</b>	function	<b>seeall</b>	function
<b>loaded</b>	table		

# pagebuilders (context)

## columnsets      table

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

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

## injections      table

- F flushafter
- F flushbefore
- F save

## mixedcolumns      table

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

## pdf (basic tex)

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

# pdfscanner (context)

**scan** function

# physics (context)

**units** table

F registerunit

D tables



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

<b>redefine</b>	function
<b>register</b>	function
<b>registerbinary</b>	function
<b>registerlibrary</b>	function
<b>registerroot</b>	function
<b>registerrunner</b>	function
<b>report</b>	function
<b>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>elapsed</b>	function
<b>elapsedindeed</b>	function
<b>elapsedseconds</b>	function
<b>elapsedtime</b>	function
<b>enable</b>	boolean
<b>formatruntime</b>	function
<b>hastiming</b>	function
<b>memused</b>	function
<b>register</b>	function

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



## status (basic tex)

**list**                    function  
**resetmessages**    function

## storage (context)

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

## streams (context)

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

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

## string (basic lua)

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

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

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

## registers

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

## table

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

## sections

## table

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



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

## sets table

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

## specials table

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

## synonyms table

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

## tags

- F elementtag
- F finishexport
- F getid
- F handler
- D labels
- F last
- F lastinchain
- F locatedtag
- T patterns
- U splitter
- D properties
- F registermetadata
- F restart
- F setaspect
- F setattributefield
- F setcombination
- F setfigure
- F sethighlight
- F setitem
- F setitemgroup
- F setlist
- F setnotation
- F setnotationsymbol
- F setproperty
- F setregister
- F setsorting
- F setsynonym
- F settablecell
- F settabulatecell
- F settagdelimitedsymbol
- F settagssubsentencesymbol
- F setupexport
- F setuserproperties
- D specifications
- F start
- F stop
- F strip
- D taglist
- T usewithcare
- T images

## table

## table (basic lua)

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

## tex (basic tex)

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

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

## texconfig (basic tex)

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

## texio (basic tex)

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

**write\_nl** function

# tokens (context)

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

N active  
N alignment  
N begingroup  
N character  
N close  
N comment  
N endgroup  
N endoffline  
N escape  
N ignore  
N invalid  
N letter  
N mathshift  
N open  
N other  
N parameter  
N space  
N subscript  
N superscript  
N whitespace

**collectors** table

T data  
F defaultwords  
F dowithwords  
F flush  
F install  
F register  
T registered  
F show  
F test

**compile** function  
**constant** function  
**converters** table

S toboolean  
S todimen  
S toglue  
S tonumber  
S tostring

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

F box  
F count  
F dimen  
F glue  
F skip  
F token

**hbox** userdata  
**istoken** function  
**letter** function  
**letters** function  
**other** function  
**pickup** function  
**printlist** function  
**scanners** table

F boolean  
F code  
F conditional  
F count  
F csname  
F dimen  
F dimension  
F glue  
F integer  
F keyword  
F list  
F lxmlid  
F number  
F scanclose  
F scanopen  
F skip  
F string  
F token  
F tokens  
F toks  
F word

**scantable** function  
**setters** table  
F box

F count	F conditional
F dimen	F count
F glue	F csname
F macro	F dimen
F skip	F dimension
<b>shortcuts</b> table	F glue
T bits	F integer
N active	F keyword
N alignment	F list
N begingroup	F lxmldid
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		
F handler			T handlers
F set			F installhandler
<b>breakpoints</b>	table		F processmath
F define			F set
F handler			F setcolor
D mapping			F setmath
T methods			F tomode
T numbers			<b>firstlines</b>
F set		table	
F setreplacement			T actions
<b>cases</b>	table		F default
T actions			F line
F handler			F word
F register			F handler
F set			F set
<b>characteralign</b>	table		<b>fontkerns</b>
F handler			table
F resetcharacteralign			F handler
F setcharacteralign			<b>initials</b>
<b>characters</b>	table		table
F handler			T actions
T methods			F default
F replacenbsp			F addanchortoline
F replacenbspaces			F addtoline
<b>checkers</b>	table		F calculatedelta
F handler			F checkline
F reset			F handler
F set			F moveinline
<b>cleaners</b>	table		F normalize
F handler			F set
F set			<b>injectors</b>
<b>digits</b>	table		table
T actions			F check
F handler			T list
F set			F mark
<b>directions</b>	table		F reset
F getfences			F set
F getglobal			F show
F getmethod			<b>italics</b>
F handler		table	
			F enablemath
			F enabletext
			F forcevariant
			F handler
			F reset
			F set

## **kerns**                      table

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

## **manipulators**            table

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

## **margins**                      table

F finalhandler  
F globalhandler  
F localhandler  
F save

## **marksuspects**            function

## **paragraphs**              table

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

## **processors**                table

F apply  
F register

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

## **rubies**                      table

F attach  
F check

## **showsuspects**            function

## **spacings**                      table

F define  
F handler  
D mapping  
T numbers  
T frenchpunctuation  
T characters  
S name  
N number

F reset  
F set  
F setup

## **wrappers**                      table

F handler

## **xtables**                      table

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

# unicode (extra lua)

## ascii table

F byte  
F char  
F dump  
F find  
F format  
F gfind  
F gmatch  
F gsub  
F len  
F lower  
F match  
F rep  
F reverse  
F sub  
F upper

## grapheme table

F byte  
F char  
F dump  
F find  
F format  
F gfind  
F gmatch  
F gsub  
F len  
F lower  
F match  
F rep  
F reverse  
F sub  
F upper

## latin1 table

F byte  
F char  
F dump  
F find  
F format  
F gfind  
F gmatch  
F gsub

F len  
F lower  
F match  
F rep  
F reverse  
F sub  
F upper

## toutf32string function

## utf8 table

F byte  
F char  
F characters  
F chrln  
F count  
F dump  
F filetype  
F find  
F format  
F gfind  
F gmatch  
F gsub  
F is\_valid  
F len  
F length  
F lower  
F magic  
F match  
F remapper  
F rep  
F replacer  
F reverse  
F split  
F splitlines  
F sub  
F substituter  
F tocodes  
F toeight  
F toentities  
F tostring  
F totable  
F upper

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

## url (context)

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

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



# utilities (context)

## debugger                    table

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

## files                    table

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

- F writecardinal2
- F writecardinal4
- F writestring

## formatters                    table

- F formatcolumns
- F list
- F stripzeros

## garbagecollector                    table

- F check
- N criterium
- B enabled

## lua                    table

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

## packers                    table

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

## parsers                    table

F add_settings_to_array	T modern-variable,latin-modern-variable-designsize,latin-modern-variable
F arguments_to_table	B latin-modern-variable
F array_to_string	B latin-modern-variable-designsize
F csvsplitter	B modern-variable
F getparameters	T modernvariable,modern-variable
F groupedsplitat	B modern-variable
F hash_to_string	B modernvariable
T hashes	T modernvariablelight,modern-variable-light
T settings_to_set	B modern-variable-light
T max,fit,broad,auto	B modernvariablelight
B auto	T serif,sans,mono
B broad	B mono
B fit	B sans
B max	B serif
T modern,latin-modern	T text,hidden,paper,page,leftpage,rightpage
B latin-modern	B hidden
B modern	B leftpage
T modern,latin-modern,modern-variable,latin-modern-variable,modern-variable-condensed,latin-modern-condensed	B paper
B latin-modern	B rightpage
B latin-modern-condensed	B text
B latin-modern-variable	F iterator
B modern	F keq_to_hash
B modern-condensed	F listitem
B modern-variable	F make_settings_to_hash_pattern
T modern,latin-modern-designsize,latin-modern	F mergehashes
B latin-modern	F options_to_array
B latin-modern-designsize	F options_to_hash
B modern	T patterns
T modern,modern-base	U settings_to_array
B modern	U settings_to_hash_a
B modern-base	U settings_to_hash_b
T modern-condensed,latin-modern-condensed-designsize,latin-modern-condensed,latin-modern-light-condensed,latin-modern-light	U settings_to_hash_c
B latin-modern-condensed	U unittotex
B latin-modern-condensed-designsize	F process_stripped_settings
B latin-modern-light-condensed	F rfc4180splitter
B modern-condensed	F runtime
B modern-light-condensed	F settings_to_array
T modern-light,latin-modern-light-designsize,latin-modern-light	F settings_to_array_obey_fences
B latin-modern-light	F settings_to_array_with_repeat
B latin-modern-light-designsize	F settings_to_hash
B modern-light	F settings_to_hash_strict
T modern-mono,modern-base-mono	F settings_to_hash_tolerant
B modern-base-mono	F settings_to_numbers
B modern-mono	

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

T striplinepatterns		F definedtable	
U collapse		F definetable	
U prune		F encapsulate	
U prune and collapse		F insertaftervalue	
U prune and no empty		F insertbeforevalue	
U retain		F migratetable	
U retain and collapse		F removevalue	
U retain and no empty		F replacevalue	
F striplines		<b>templates</b>	<b>table</b>
F striplong		F load	
F tabtospace		F replace	
T tracers		F replacer	
<b>tables</b>	<b>table</b>	F resolve	
F accesstable			

## vf (context)

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

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

## visualizers (context)

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

# xml (context)

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

<b>defaulthandlers</b>	table
D file	
D parsedxml	
D string	
D tex	
D texline	
D texspace	
D verbose	
<b>defaultprotocol</b>	string
<b>delete</b>	function
<del><b>delete_element</b></del>	<del>function</del>
<del><b>despecialized</b></del>	<del>function</del>
<b>each</b>	function
<del><b>each_element</b></del>	<del>function</del>
<b>elements</b>	function
<b>elementtocdata</b>	function
<b>empty</b>	function
<b>entities</b>	data table
<b>erase</b>	function
<b>errorhandler</b>	function
<b>escaped</b>	function
<b>expressions</b>	table
F boolean	
F child	
F contains	
F count	
F error	
F find	
F idstring	
F lower	
F name	
F number	
F oneof	
F print	
F quit	
F tag	
F text	
F undefined	
F upper	
<b>fillin</b>	function
<b>filter</b>	function

## finalizers

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

## table

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

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



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

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

## zip (extra lua)

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

## zlib (extra lua)

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

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