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

ConT_EXt MkIV

global (alias: _G)

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

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

function userdata

rawset

table

| utf utilities | table table | xml xpcall | table function |
|------------------|----------------|---------------|-------------------|
| v | number | zip | table |
| vf | table | zlib | table |
| visualizers | table | | |

attributes (context)

| colorintents table | D models |
|---------------------------|--------------------------|
| N attribute | F mpcolor |
| D data | F mpnamedcolor |
| F enable | F mpoptions |
| F handler | F namedcolorattributes |
| F register | N none |
| D registered | F popset |
| colors table | F processcolorcomponents |
| N attribute | F pushset |
| Fcmyk | F register |
| F cmyktogray | D registered |
| F cmyktorgb | F registerspotcolor |
| F colorcomponents | F rgb |
| D counts | F rgbtocmyk |
| B couple | F rgbtogray |
| F currentmodel | F rgbtohsv |
| F currentnamedmodel | N selector |
| D data | F setlist |
| N default | F setmodel |
| F defineintermediatecolor | F setpagecolormodel |
| F definemultitonecolor | D sets |
| F defineprocesscolor | F spec |
| F definesimplegray | F spot |
| F definespotcolor | F spotcolorname |
| F definetransparency | F spotcolorparent |
| F enable | F spotcolorvalue |
| F filter | B supported |
| F forcedmodel | F toattributes |
| F forcesupport | F transparencycomponents |
| F formatcolor | B triggering |
| F formatgray | F usecolors |
| F getpagecolormodel | D valid |
| F gray | F value |
| F graytohsv | D values |
| F handler | B weightgray |
| F hsvtogray | define function |
| F hsvtorgb | effects table |
| F iccprofile | N attribute |
| F isblack | D data |
| N main | F enable |
| S model | F handler |

F register N hardlight D registered N hue D values N lighten handlers table N luminosity list data table N multiply names data table N none table negatives N normal N attribute N overlav D data N saturation F enable N screen F handler N softlight F register N none D registered F register F set D registered numbers data table B supported ofnode function F toattribute private function B triggering public function F value restore function D values save function unsetvalue number function viewerlavers table showcurrent states 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 B hasorder F stacker function system D listwise transparencies table F register N attribute D registered D data F resolve_begin F resolve_end F enable 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)

F getfieldcategory

codeinjections table F aetfieldset F boxresourcedimensions F getformatoption F registerboxresource F gethpos F restoreboxresource F getmatrix current strina F getoutputfilename defaults table F getpos T codeiniections F getpreviewfigure F gethpos F getvpos F hasmatrix F getmatrix F insertrenderingwindow F getpos F aetypos F mergebookmarks F hasmatrix F mergereferences T nodeinjections F mergeviewerlayers T registrations F prerollreference D tables F presetsymbol included table F presetsymbollist R context F processrendering B date F registerdocumentcloseaction B id F registerdocumentopenaction B metadata F registeredsymbol B pdf F registerpagecloseaction install function F registerpageopenaction nodeinjections table F registersymbol F setfieldcalculationset F restore F save F setfigurealternative F transform F setfigurecolorspace function nothing F setfiguremask pdf table F setformat T codeiniections F setformsmethod F addbookmarks F setpagetransition F attachmentid F setupcanvas F clonefield F setupidentity F definefield F setxmpfile F definefieldset F startlayer F defineviewerlayer F startunicodetoactualtext F embedfile F startunicodetoactualtextdirect F enabletags F stoplayer F exportformdata F stopunicodetoactualtext F getbookmarks F stopunicodetoactualtextdirect F getdefaultfieldvalue F supportedformats

F unicodetoactualtext

F useviewerlayer F validfield

F validfieldcategory

F validfieldset

S comment

T nodeinjections

F addtags
F annotation
F attachfile

F changestackedlayer

F cmykcolor
F comment
F destination

F destination F effect

F graycolor
F injectbitmap
F insertmovie
F insertsound

F insertswf

F insertu3d F knockout

F negative F overprint F positive F reference
F rgbcolor
F spotcolor
F startlayer

F startstackedlayer

F stoplayer

F stopstackedlayer
F transparency
F typesetfield
T registrations
F cmykindexcolor

F cmykspotcolor

F getspotcolorreference

F grayindexcolor
F grayspotcolor
F rgbindexcolor
F rgbspotcolor
F spotcolorname
F transparency

T tables
D vfspecials

registrations table
tables table
timestamp function

bit32 (basic lua)

| arshift | function | extract | function |
|---------|----------|---------|----------|
| band | function | lrotate | function |
| bnot | function | lshift | function |
| bor | function | replace | function |
| btest | function | rrotate | function |
| bxor | function | rshift | function |

blobs (context)

| append | function | strht | function |
|------------|----------|---------|----------|
| dimensions | function | strwd | function |
| dispose | function | tohpack | function |
| new | function | tonodes | function |
| pack | function | tovpack | function |
| strdp | function | write | function |
| strhd | function | | |

boolean (context)

tocontext function
tonumber function

buffers (context)

| append | function |
|----------------|----------|
| assign | function |
| collectcontent | function |
| erase | function |
| exists | function |
| getcontent | function |
| getlines | function |
| loadcontent | function |
| parallel | table |

F define

F hassomecontent

F next
F place
F reset
F save

prepend function
raw function
run function
undent function

builders (context)

| kernel | table | T registered |
|------------|----------|------------------------|
| F hyphenat | ion | F reset |
| F kerning | | F set |
| F ligaturi | ing | F split |
| F mlist_to | _hlist | F start |
| T original | .s | F stop |
| F hyphen | ate | F tag |
| F kernin | g | profiling table |
| F ligatu | ring | F add |
| paragraphs | table | F distance |
| T construc | ctors | F fixedprofile |
| N attrib | ute | F get |
| F define | | F list |
| F disabl | e | F pagehandler |
| F enable | | F profilebox |
| F handle | r | F set |
| T method | S | vspacing table |
| F basio | С | F analyze |
| F defa | ult | D categories |
| F hpack | k | F collapsevbox |
| F onel: | ine | T data |
| D names | | D map |
| D number | S | D skip |
| F set | | D snapmethods |
| F start | | F definesnapmethod |
| F stop | | B fixed |
| T expansio | on | F pagehandler |
| F trace | | F resetprevdepth |
| F keeptoge | ether | F setmap |
| F register | together | F setskip |
| T solution | ıs | F snapbox |
| T splitt | ers | F tocategories |
| F defi | ne | F tocategory |
| F optin | nize | F vboxhandler |

caches (context)

| ask | boolean | is_writable | function |
|------------------------------|----------|----------------------|----------|
| base | string | loadcontent | function |
| collapsecontent | function | loaddata | function |
| configfiles | function | more | string |
| contentstate | function | relocate | boolean |
| defaults | table | savecontent | function |
| define | function | savedata | function |
| direct | boolean | setfirstwritablefile | function |
| force | boolean | setluanames | function |
| ${\tt getfirstreadablefile}$ | function | tree | string |
| getreadablepaths | function | treehash | function |
| getwritablepath | function | usedpaths | function |
| hashed | function | | |

callback (basic tex)

find function
list function

register overloaded function

callbacks (context)

B hyphenate

freeze function B insert local par function known B kerning list data table B ligaturing function gog B linebreak filter function push B mlist to hlist function register B open_read_file report function B post_linebreak_filter supported table B pre dump B append to vlist filter B pre linebreak filter B build page insert B pre output filter B buildpage filter B process input buffer B call edit B process jobname B process output buffer B char exists B contribute filter B process rule B define font B read cidmap file B find_cidmap_file B read_data_file B find_data_file B read_enc_file B read font file B find enc file B find font file B read map file B find_format_file B read_opentype_file B find_image_file B read_pk_file B find map file B read sfd file B find opentype file B read truetype file B find_output_file B read_type1_file B find pk file B read vf file B find read file B show error hook B find_sfd_file B show_error_message B find_truetype_file B show_lua_error_hook B find_type1_file B show warning message B find_vf_file B start file B find_write_file B start_page_number B finish pdffile B start run B finish pdfpage B stop file B finish_synctex_callback B stop page number B glyph_stream_provider B stop_run B hpack_filter B vpack_filter B hpack quality B vpack quality

catcodes (context)

names data table
numbers data table

register function

characters (context)

| activeoffset | number | S A | |
|---|------------|-----|---|
| adobename | function | S A | |
| bidi | data table | S B | |
| blockrange | function | S B | |
| blocks | data table | S B | _ |
| casemap | table | S C | |
| categories | data table | S C | |
| category | function | S C | |
| categorytags | data table | S C | |
| classifiers | table | S C | |
| collapsed | table | S C | |
| S </th <th></th> <th>S D</th> <th></th> | | S D | |
| S =/ | | S D | |
| S >/ | | S D | |
| S A` | | S D | |
| S A' | | S D | |
| S A^ | | S D | |
| S A^` | | S E | |
| S A^′ | | S E | |
| S A^~ | | S E | |
| S A^' | | S E | |
| S A~ | | S E | |
| S A | | S E | |
| S A~ | | S E | |
| S A `` | | S E | |
| S A ~ ′ | | S E | |
| S A~~ | | S E | |
| S A '' | | S E | |
| S A. | | S E | |
| S A · - | | S E | |
| S A" | | S E | |
| S A | | S E | |
| S A' | | S E | |
| S A° | | S E | |
| S A°′ | | S E | |
| S A [*] | | S E | |
| S A" | | S E | |
| S A^ | | S E | |
| S A. | | S E | |
| S A.^ | | S E | |
| S A. ~ | | S E | ^ |

| S E _~ | S L_ |
|------------------|--------------------|
| S F' | S M′ |
| S G′ | S M' |
| S G^ | S M. |
| S G ⁻ | S N` |
| S G | S N′ |
| S G. | S N~ |
| S G [*] | S N. |
| S G, | S N° |
| S H^ | S N. |
| S H. | S N, |
| S H" | S N |
| S H [*] | S N_ |
| S H. | S 0` |
| S H, | S 0′ |
| S H _o | S 0 [^] |
| S I' | S 0^` |
| S I' | S 0^′ |
| S I^ | S 0^~ |
| S I~ | S 0^ ' |
| S I | S 0~ |
| S I Č | S 0~′ |
| S I. | S 0~- |
| S I" | S 0~" |
| S I"' | S 0 ⁻ |
| S I' | S 0 ⁻ ` |
| S I [*] | S 0 - ′ |
| S I" | S O ̃ |
| S I^ | S 0. |
| SI. | S 0 |
| S I. | S 0" |
| S I _~ | S 0"- |
| S J^ | S 0' |
| S K' | S 0" |
| S K [*] | S O° |
| S K. | S 0" |
| S K, | S 0^ |
| S K_ | S 0, |
| S L' | S 0., |
| S L [*] | S 0.′ |
| S L. | S 0.~ |
| S L | S 0., |
| S L. | 2 0°. |
| S L, | S 0. |
| | |

| S 0.^ | S U' |
|--------------------|--------------------|
| S 0. | S U° |
| S 0 | S U" |
| S P' | S Uř |
| S P. | S U" |
| S R′ | S U^ |
| S R' | S U, |
| S R [*] | Z n., |
| S R" | S U'' |
| S R^ | S U·~ |
| S R. | S N., |
| S R _. - | S U'. |
| S R _s | S $\mathrm{U}_{.}$ |
| S R_ | S U |
| S S′ | S U. |
| S S'. | S U_ |
| S S^ | S U _~ |
| S S' | S V~ |
| S S ^v | S V_{\cdot} |
| S S ^v · | S W` |
| S S. | S W′ |
| S S. · | S W^ |
| S S, | S W. |
| S S. | S W" |
| S T | S W. |
| S T [*] | S X. |
| S T. | S X" |
| S T, | S Y` |
| S T, | S Y' |
| S T _* | S Y^ |
| S T_ | S Y~ |
| S U` | S Y |
| S U' | S Y. |
| S U^ | S Y" |
| S U~ | S Y' |
| S U~′ | SY. |
| S U | S Z' |
| S U-" | S Z^ |
| S U Š | S Z |
| S U" | S Z [*] |
| S U"` | SZ. |
| S U"' | S Z_ |
| S U"- | S a` |
| S U"" | S a′ |
| | |

| S a^ | S e^ |
|-------------------|--------------------|
| S a^` | S e^` |
| S a^′ | S e^′ |
| S a^~ | S e^~ |
| S a^' | S e^ ' |
| S a~ | S e~ |
| S a ⁻ | S e |
| S a ̃ | S e ⁻ ` |
| S a `` | S e ′ |
| S a ´´ | S e ̃ |
| S a ~~ | S e˙ |
| S a `` | S e" |
| S a · | S e' |
| S a ^{·-} | S e Č |
| S a" | S e" |
| S a | S e^ |
| S a' | S e. |
| S a° | S e _. ^ |
| S a°′ | S e, |
| S a [*] | S e, ~ |
| S a" | S e. |
| S a^ | S e ̯ |
| S a. | S e _~ |
| S a ^ | S f |
| S a ~ ~ | Sg′ |
| S a。 | S g^ |
| S a. | S g |
| S b. | Sg̃ |
| S b. | S g |
| S b_ | S g [*] |
| S c' | S g, |
| S c^ | S h^ |
| S c' | S h |
| S c [*] | S h" |
| S c, | S hř |
| S c,' | S h. |
| S d' | S h, |
| S d [*] | S h _u |
| S d _. | S h_ |
| S d. | S i` |
| S d _x | S i' |
| S d_ | S i^ |
| S e` | Si~ |
| S e' | S i |
| | |

| S i ̃ | S o ~ ′ |
|-------------------|------------------|
| S i" | S o~- |
| Si"' | S o~" |
| Si' | S o |
| S i [*] | S o ~ ` |
| S i" | S o - ′ |
| S i^ | S o ̃ |
| Si. | S o. |
| Si. | S o |
| Si _~ | S o" |
| S j^ | S o"- |
| S j [*] | S o' |
| S k' | S o" |
| S k [*] | S o* |
| S k. | S o" |
| S k. | S o^ |
| S k_ | 2 o, |
| Sl' | 2 o., |
| S l [*] | S 0'' |
| Sl. | S 0, ~ |
| Sl ₋ - | S 0', |
| Sl. | 2 o.' |
| S l, | S o. |
| Sl_ | S o.^ |
| S m′ | S o. |
| S m [·] | S o, - |
| S m. | S p′ |
| S n' | S p. |
| S n' | S r′ |
| S n~ | Sr. |
| S n' | S r [*] |
| S n [*] | S r" |
| S n. | S r^ |
| S n, | Sr. |
| S n, | Sr. |
| S n_ | Sr, |
| S o` | Sr_ |
| S o' | S s′ |
| S o [^] | S s′ |
| S o^` | S s^ |
| S o^′ | S s |
| S o^~ | S s * |
| S o^' | S s ·· |
| S o~ | Ss. |
| | |

| S s. · | S w′ |
|------------------|-----------------|
| S _s , | S w^ |
| S _s | S w |
| S t | S w" |
| S t" | S w° |
| S t [*] | S w. |
| St. | S x |
| St, | S x" |
| St, | S y` |
| S t _. | Sy′ |
| St_ | S y^ |
| S u` | S y~ |
| S u' | S y |
| S u^ | S y |
| S u" | S y" |
| S u~′ | S y' |
| S u | S y° |
| S u | Sy. |
| S u ̃ | S z′ |
| S u" | S z^ |
| S u"` | Sz. |
| S u"' | S z ř |
| S u"- | Sz. |
| S u"" | Sz_ |
| S u' | S "` |
| S u° | S "′ |
| S u" | S " |
| S u [*] | S Â` |
| S u" | SÂ′ |
| S u^ | S Â~ |
| S u' | S Â' |
| S u [*] | Sį |
| S u·′ | SÅ΄ |
| S u·~ | SÆ′ |
| S u·' | SÆ ⁻ |
| S u*. | S Ç′ |
| S u. | S Ê` |
| S u. | S Ê′ |
| S u. | S Ê~ |
| S u, | SÊ' |
| S u _ | SΪ΄ |
| S v~ | S Ô` |
| S v. | S Ô′ |
| S w` | S Ô~ |
| | |

| S Ô' | S ă' |
|------------------|------------------|
| S Õ′ | S Ē` |
| S Õ- | S Ē′ |
| S Õ. | S ē` |
| S Ö⁻ | S ē′ |
| S Ø′ | S Ō` |
| S Ü` | S Ō′ |
| S Ü′ | S ō` |
| S Ü⁻ | S ō′ |
| S Üř | s ś |
| S â` | S ś |
| S â′ | S Š |
| S â~ | S š |
| S â' | S Ũ′ |
| S ä¯ | S ű′ |
| S å′ | s ū" |
| S æ′ | S ū¨ |
| Sæ¯ | S f |
| S ç′ | s o` |
| S ê` | s oʻ |
| S ê′ | s o~ |
| S ê~ | s oʻ |
| S ê' | s σ _. |
| S ï′ | S o` |
| S ô` | S oʻ |
| S ô′ | S o~ |
| S ô~ | S σ' |
| S ô' | S σ _. |
| S ő′ | S Ư' |
| S Õ | S U' |
| S õ¨ | S U" |
| S ö | S Ư' |
| S ø′ | S U. |
| S ü` | S u' |
| S ü′ | S ư′ |
| S ü¯ | S u" |
| S ü [*] | S ư' |
| S Ă` | S u. |
| S Ă´ S Ă~ | S 3° |
| S A S Ă' | S Q ⁻ |
| S ă` | S ǫ⁻ S Å⁻ |
| S ă´ | S à - |
| S ă [~] | |
| эа | S Ę̃ |
| | |

| S ę̃ | S H' |
|------------------|-------|
| S Ö⁻ | S H'` |
| S ô¯ | S H'` |
| S 3° | S H'′ |
| S "' | S H'′ |
| S A` | S H' |
| S A' | S H' |
| S A ⁻ | S H' |
| S A [~] | SH |
| S A' | S I` |
| S A'` | SI′ |
| S A'` | SI |
| S A'' | Sľ |
| S A'´ | S I" |
| S A' | S I' |
| S A' | S I'` |
| S A' | S I'' |
| S A' | S I' |
| S A'` | S I' |
| S A'` | S I'` |
| S A'' | S I'' |
| S A'' | S I' |
| S A' | S 0` |
| S A' | S 0' |
| S A' | S 0' |
| S A | S 0'` |
| S E` | S 0'' |
| S E' | S 0' |
| S E' | S 0'` |
| S E'` | S 0'′ |
| S E'' | S P' |
| S E' | S Y` |
| S E'` | S Y' |
| S E'' | S Y |
| S H' | S Y ̈ |
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| hangul | data table | S op | |
| initialize | function | S po | |
| is_character | data table | S pr | |
| is command | data table | S qu | |
| is_letter | data table | S ri | |
| is_mark | data table | S sa | |
| is punctuation | data table | S sg | |
| is_spacing | data table | S sp | |
| lcchars | data table | S sy | |
| lccode | function | S wj | |
| lccodes | data table | S xx | |
| lettered | function | S zw | |
| lhash | data table | S zwj | |
| linebreaks | table | lower | function |
| S ai | | mathlists | table |
| S al | | mirrors | table |
| S b2 | | otfscripts | data table |
| S ba | | private | table |
| S bb | | ranges | data table |
| S bk | | registerentities | function |
| S cb | | remap_hangul_syllabe | function |
| S cj | | setactivecatcodes | function |
| S cl | | setlettercatcodes | function |
| S cm | | shape | function |
| S cp | | shaped | function |
| S cr | | shash | data table |
| S eb | | shchars | data table |
| S em | | shcodes | data table |
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showstring specialchars specials splits function data table data table table F defineaccents
F safechar
F toutf
F toutfpattern

T char T compat

tex

subscripts superscripts synonyms

table table data table table textclasses table tonumber function ucchars data table uccode function uccodes data table uhash data table unicodechar function function upper

D accentmapping

D commandmapping

chemistry (context)

| component | function | |
|----------------|------------|--|
| define | function | |
| definitions | data table | |
| format | string | |
| inlinechemical | function | |
| instance | string | |
| method | string | |

molecule
moleculeparser
start
stop
structures
undefine
function
function
number
function

containers (context)

| cleanname | function | is_valid | function |
|-----------|----------|----------|----------|
| content | function | read | function |
| define | function | usecache | boolean |
| is_usable | function | write | function |

converters (context)

| Α | function | cn-c | function |
|--------------------|----------|-------------------|------------|
| A:es | function | convert | function |
| A:ru | function | decimals | function |
| A:sl | function | define | function |
| AK | function | hexstringtonumber | function |
| Alphabetic | function | hour | function |
| Alphabetic:es | function | i | function |
| Alphabetic:ru | function | isleapyear | function |
| Alphabetic:sl | function | lchexnumber | function |
| Character | function | lchexnumbers | function |
| Characters | function | leapyear | function |
| I | function | lower | function |
| KA | function | max | function |
| KR | function | maxchrs | function |
| R | function | minute | function |
| RK | function | month | function |
| Romannumerals | function | nicenumber | function |
| Russiannumerals | function | nofdays | function |
| Sloveniannumerals | function | number | function |
| Spanishnumerals | function | numbers | function |
| Word | function | octnumber | function |
| Words | function | octstringtonumber | function |
| a | function | ordinal | function |
| a:es | function | r | function |
| a:ru | function | rawcharacter | function |
| a:sl | function | romannumerals | function |
| abjadnodotnumerals | function | russiannumerals | function |
| abjadnumerals | function | second | function |
| alphabetic | function | sequences | data table |
| alphabetic:es | function | settime | function |
| alphabetic:ru | function | sloveniannumerals | function |
| alphabetic:sl | function | spaceddigits | function |
| character | function | spanishnumerals | function |
| characters | function | textime | function |
| chineseallnumerals | function | toabjad | function |
| chinesecapnumerals | function | tochinese | function |
| chinesenumerals | function | toroman | function |
| chr | function | totime | function |
| chrs | function | uchexnumber | function |
| cn | function | uchexnumbers | function |
| cn-a | function | upper | function |
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| verbose | table | word | function |
|-------------|-------|-------|----------|
| D data | | words | function |
| F translate | | year | function |

weekday function

coroutine (basic lua)

| create | function | status | function |
|---------|----------|--------|----------|
| resume | function | wrap | function |
| running | function | yield | function |

ctxrunner (context)

load function prepfiles data table
preparedfile function resolve function

debug (basic lua)

| debug | function | sethook | function |
|--------------|----------|--------------|----------|
| gethook | function | setlocal | function |
| getinfo | function | setmetatable | function |
| getlocal | function | setupvalue | function |
| getmetatable | function | setuservalue | function |
| getregistry | function | traceback | function |
| getupvalue | function | upvalueid | function |
| getuservalue | function | upvaluejoin | function |

dir (context)

| collectpattern | function |
|----------------|----------|
| current | function |
| expandname | function |
| found | function |
| glob | function |
| globdirs | function |
| globfiles | function |

| globpattern | function |
|-------------|----------|
| ls | function |
| makedirs | function |
| mkdirs | function |
| pop | function |
| push | function |

directives (context)

| data | data table | name | string |
|---------|------------|----------|----------|
| default | function | register | function |
| disable | function | report | function |
| done | table | reset | function |
| enable | function | show | function |
| list | function | value | function |

document (context)

arguments files functions getargument getfilename options data table table table function function table D modes
D modules

function setargument setcommandline function setdefaultargument function setenvironments function setfilename function setfilenames function setmodes function setmodules function variables data table

T commandline
D environments

D modes
D modules
T ctxfile

D environments

environment (context)

| argument | function | luafile | function |
|---------------------|------------|------------------------|------------|
| arguments | data table | luafilechunk | function |
| basicengines | data table | luatexengine | string |
| currentrun | number | luatexfuncitonality | number |
| default_texmfcnf | string | luatexversion | number |
| definefilefallback | function | maxnofruns | number |
| definefilesynonym | function | originalarguments | data table |
| engineflags | data table | outputfilename | string |
| filename | string | ownbin | string |
| files | table | ownmain | string |
| filesynonyms | data table | ownname | string |
| forcedruns | number | ownpath | string |
| getargument | function | prerollrun | boolean |
| homedir | string | rawarguments | data table |
| initex | boolean | reconstructcommandline | function |
| initexmode | boolean | relativepath | function |
| initializearguments | function | setargument | function |
| initializefilenames | function | splitarguments | function |
| inputfilebarename | string | suffix | string |
| inputfilename | string | texfile | function |
| inputfilesuffix | string | texmfos | string |
| jobfilefullname | string | texos | string |
| jobfilename | string | texroot | string |
| jobfilesuffix | string | truefilename | function |
| jobname | string | useluamodule | function |
| kindofrun | number | usemodules | function |
| loadexamodes | function | validengines | data table |
| loadluafile | function | version | string |
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epdf (extra tex)

Array function
Attribute function
AttributeOwner_Type function
Attribute_Type function
Dict function
Object function

PDFRectangle
StructElement_Type
open
openMemStream

type

function function overloaded function function

function

experiments (context)

| data | data table | |
|---------|------------|--|
| default | function | |
| disable | function | |
| enable | function | |
| list | function | |
| name | string | |

register function report function show function value function

figures (context)

applvratio function function badname bases bitmapimage function boxnumber number cachepaths check function checkers converters current function defaultdepth number defaultheight number defaultsearch hool ean defaultwidth number done function function dummy existers exists function formats found function get aetinfo function getrealpage function function quess hash function identifiers data table identify function table images

F boxes F check F checksize F clone F copy F immediatewrite

F keys F new

data table data table data table data table data table data table data table

F node F ofindex F package F print F scan F serialize F totable F types F write

include includers initialize loaded localpaths magics mergegoodies nofprocessed order paths patterns pop preferguality programs push registerpattern registerresource registersuffix resources scale set setlookups setmemstream setorder setpaths suffixes

function data table data table data table function number data table data table data table function boolean data table function function function function data table function function function function function function data table data table

function

data table

used

file (basic lua)

| addsuffix | function | needsupdating | function |
|-------------------|----------|---------------|----------|
| basename | function | pathpart | function |
| checksum | function | readdata | function |
| collapsepath | function | removesuffix | function |
| сору | function | replacesuffix | function |
| dirname | function | reslash | function |
| expandname | function | robustname | function |
| extname | function | savechecksum | function |
| is_qualified_path | function | savedata | function |
| is_readable | function | size | function |
| is_rootbased_path | function | splitbase | function |
| is_writable | function | splitname | function |
| isreadable | function | splitpath | function |
| iswritable | function | strip | function |
| join | function | suffix | function |
| joinpath | function | suffixes | function |
| loadchecksum | function | suffixesonly | function |
| nameonly | function | suffixonly | function |
| nametotable | function | syncmtimes | function |
| needs_updating | function | | |

fio (extra lua)

| checkpermission | function | readfixed4 | function |
|-----------------|----------|----------------|----------|
| getposition | function | readinteger1 | function |
| read2dot14 | function | readinteger2 | function |
| readbytes | function | readinteger3 | function |
| readbytetable | function | readinteger4 | function |
| readcardinal1 | function | readline | function |
| readcardinal2 | function | recordfilename | function |
| readcardinal3 | function | setposition | function |
| readcardinal4 | function | skipposition | function |
| readfixed2 | function | | |

floats (context)

| analysemethod | function | nofstacked | function |
|--------------------------|----------|------------|----------|
| ${\it checkedpagefloat}$ | function | pop | function |
| collect | function | push | function |
| consult | function | resave | function |
| flush | function | save | function |
| getvariable | function | stacked | function |
| hasstacked | function | | |

font (basic tex)

| addcharacters | function | id | function |
|---------------|---------------------|--------------|----------|
| current | function | max | function |
| define | function | nextid | function |
| each | function | read_tfm | function |
| fonts | table | read_vf | function |
| frozen | function | setexpansion | function |
| getfont | overloaded function | setfont | function |

fonts (context)

| analyzers | table | F checkenabled |
|-------------------|-------|-------------------------------|
| T features | | F clonevector |
| N blwf | | F define |
| N fin2 | | T definitions |
| N fin3 | | F found |
| N fina | | F prepare |
| N half | | F process |
| N init | | F registermain |
| N isol | | F report |
| N med2 | | F reset |
| N medi | | T vectors |
| N pref | | <pre>constructors table</pre> |
| N pstf | | F addcharacters |
| N rphf | | F addcoreunicodes |
| D initializers | | F aftercopyingcharacters |
| D methods | | F applymanipulators |
| F setstate | | F assignmathparameters |
| T states | | B autocleanup |
| N blwf | | F beforecopyingcharacters |
| N fin2 | | D cache |
| N fin3 | | B cacheintex |
| N fina | | F calculatescale |
| N half | | F checkedfeatures |
| N init | | F checkedfilename |
| N isol | | F cleanuptable |
| N mark | | F collectprocessors |
| N med2 | | F currentfonthasfeature |
| N medi | | D designsizes D dontembed |
| N pref N pstf | | F enhanceparameters |
| N rest | | T enhancers |
| N rest | | T afm |
| B useunicodemarks | | F apply |
| checkers | table | F patch |
| F getmissing | | T patches |
| F missing | | F register |
| F placeholder | | F report |
| cid | table | F register |
| F getmap | | F report |
| F loadfile | | T otf |
| collections | table | F addfeature |
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| F apply | T otf |
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| F enhance | F addfeature |
| F patch | F basemodeinitializer |
| T patches | D cache |
| F register | F collectlookups |
| F report | T coverup |
| F register | T actions |
| F report | F alternate |
| T tfm | F chainposition |
| F apply | F chainsubstitution |
| F patch | F kern |
| T patches | F ligature |
| F register | F multiple |
| F report | F pair |
| F register | F single |
| F report | F substitution |
| N factor | F register |
| T features | S stepkey |
| D afm | F dataset |
| D otf | F datasetpositionprocessor |
| D tfm | S defaultbasealternate |
| F finalize | S defaultnodealternate |
| F getfeatureaction | D features |
| F getprivate | F featuresinitializer |
| T handlers | F featuresprocessor |
| T afm | F getactualtext |
| B autoprefixed | F getalternate |
| D cache | F getgsub |
| D features | F getkern |
| F getkern | F getmultiple |
| T helpdata | F getsubstitution |
| D bothkerned | T handlers |
| D leftkerned | F devanagari_remove_joiners |
| D ligatures | F devanagari_reorder_matras |
| D rightkerned | F devanagari_reorder_pre_base_reordering_consonants |
| D texligatures | F devanagari_reorder_reph |
| F load | F gpos_context |
| T readers | F gpos_contextchain |
| F getinfo | F gpos_cursive |
| F loadfont | F gpos_mark2base |
| F loadshapes | F gpos_mark2ligature |
| F setfeatures | F gpos_mark2mark |
| B syncspace | F gpos_pair |
| N version | F gpos_single |
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T gposhandlers F gsub alternate F gsub_context F chainedcontext F gsub_contextchain F context F cursive F gsub ligature F qsub multiple F extension F gsub_reversecontextchain F marktobase F gsub_single F marktoligature F trigger space kerns F marktomark T helpers F pair F blockligatures F single F pardirstate F gsub F txtdirstate T asubhandlers F load F alternate F chainedcontext F loadoutlinedata F loadstreamdata F context F modeinitializer F extension D pdfcache F ligature F multiple F plugininitializer F reversechainedcontextsingle F pluginprocessor T plugins F single T readers F gvar F addunicodetable F head F avar T helpers F cbdt F axistofactors F cblc F cleanname F cff F getaxisscale F cff2 F getfactors F cffcheck F getscales F checkhash F gotodatatable F normalizedaxis F cmap T normalizedaxishash F colr F compact F readvariationdata F cpal F reportskippedtable F ebdt F setvariabledata F hhea F eblc F ebsc F hmtx F hvar F expand F kern F extend F fvar F loadfont F gdef F loadshapes F getcomponents F loca F getinfo F math F glyf F maxp F gpos F mvar

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

| F addtounicode | S scriptscriptpercentage |
|----------------------|--------------------------|
| D features | S size |
| N maxnestingdepth | S slantfactor |
| N maxnestingsize | S slantperpoint |
| F reencode | T spacing |
| F setfeatures | S extra |
| N version | S shrink |
| T vf | S stretch |
| T combinations | S width |
| F combine | S units |
| T combiner | S vfactor |
| D commands | |
| | S xheight |
| D helpers | T properties |
| D math | S autoitalicamount |
| D predefined | S cidinfo |
| N version | S embedding |
| D whatever | S encodingbytes |
| F hashfeatures | S filename |
| F hashinstance | S finalized |
| T hashmethods | S fontname |
| F normal | S format |
| F virtual | S fullname |
| F initializefeatures | S hasitalics |
| T keys | S hasmath |
| T characters | S mathitalics |
| T descriptions | S mode |
| T parameters | S name |
| S ascender | S noglyphnames |
| S descender | S nostackmath |
| S designsize | S psname |
| T expansion | S textitalics |
| S auto | S virtualized |
| S shrink | D loadedfonts |
| S step | S namemode |
| S stretch | N noffontsloaded |
| S extendfactor | N nofsharedfonts |
| S factor | N nofsharedhashes |
| S hfactor | N nofsharedvectors |
| S mathsize | N privateoffset |
| T protrusion | D privateslots |
| S auto | F readanddefine |
| S quad | F registerfeature |
| S scaledpoints | F resetfeature |
| S scriptpercentage | B resolvevirtualtoo |
| | |

F scale N Becyrillic F scaled N Cdot F setfactor N Checyrillic F setfeature N Decyrillic F setname N Djecyrillic B sharefonts N Dzecyrillic F trvtosharefont N Dzhecvrillic N version N Ecvrillic current function N Edot currentid function N Efcyrillic definers table N Elcvrillic F addlookup N Emcvrillic F analyze N Encyrillic F applypostprocessors N Ercyrillic F checkedmode N Ereversedcyrillic F checkedscript N Escyrillic F current N Fitacyrillic S defaultlookup N Gcedilla F define N Gdot F getspecification N Gecyrillic F internal N Gheupturncyrillic F loadfont N Gjecyrillic F makespecification N Hardsigncyrillic T methods N IAcyrillic F install N IUcyrillic D variants N Icyrillic F read N Idot F register N Iecyrillic F registered N Iicyrillic F registersplit N Iishortcyrillic F resetnullfont N Iocyrillic F resolve N Izhitsacyrillic T resolvers N Jecyrillic F file N Kacyrillic N Kcedilla F name F spec N Khacyrillic function definetypeface N Kjecyrillic encodings table N Lcedilla T agl N Ljecyrillic D ctxcodes N Ncedilla D extras N Njecyrillic D names N Ocyrillic N Odblacute T synonyms N Acyrillic N Ohm

N Pecvrillic N cdot N Rcedilla N compass N Shacyrillic N dagesh N Shchacyrillic N dalet N Softsigncyrillic N daletdagesh N Tcedilla N dalethatafpatah N Tecvrillic N dalethatafpatahhebrew N Tsecyrillic N dalethatafsegol N Tshecyrillic N dalethatafsegolhebrew N Ucyrillic N dalethehrew N Udblacute N dalethiria N Ushortcvrillic N dalethirighebrew N Vecyrillic N daletholam N Yatcyrillic N daletholamhebrew N Yericyrillic N daletpatah N Yicyrillic N daletpatahhebrew N Zdot N daletgamats N Zecyrillic N daletgamatshebrew N Zhecyrillic N daletqubuts N acutecmb N daletqubutshebrew N acvrillic N daletsegol N afii00208 N daletsegolhebrew N afii08941 N daletsheva N afii57694 N daletshevahebrew N afii57695 N dalettsere N afii57700 N dammaarabic N afii57705 N dammatanaltonearabic N afii57723 N dargahebrew N dbllowline N alef N alefmaksurainitialarabic N decimalseparatorarabic N alefmaksuramedialarabic N dialytikatonos N approximatelyequal N dothelowcmb N asteriskaltonearabic N doubleyodpatah N ayin N doubleyodpatahhebrew N bet N edot N betdagesh N eightarabic N blackdownpointingtriangle N eighthnotebeamed N blackleftpointingpointer N etnahtafoukhhebrew N blackrectangle N etnahtafoukhlefthebrew N blackrightpointingpointer N etnahtahebrew N blacksmilingface N fathaarabic N finalkaf N blacksquare N blackuppointingtriangle N finalkafdagesh N bulletinverse N finalkafhebrew

N finalkafgamats N hatafsegolquarterhebrew N finalkafgamatshebrew N he N finalkafsheva N hedagesh N finalmem N hehfinalalttwoarabic N finalnun N het N finalpe N hiriq N finaltsadi N hirial4 N fivearabic N hiria21 N forall N hiriq2d N fourarabic N hirighebrew N acedilla N hirianarrowhebrew N adot N hiriqquarterhebrew 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 kashidaautonosidebearingarabic N hatafpatah16 N hatafpatah23 N kcedilla N hatafpatah2f N lamed N hatafpatahhebrew N lameddagesh N hatafpatahnarrowhebrew N lamedhebrew N hatafpatahguarterhebrew N lamedholam N hatafqamats N lamedholamdagesh N hatafqamats1b N lamedholamdageshhebrew N hatafgamats28 N laminitialarabic N hatafgamats34 N lammeemjeeminitialarabic N hatafgamatshebrew N lcedilla N hatafgamatsnarrowhebrew N logicalnotreversed N hatafqamatsquarterhebrew N mahapakhhebrew N hatafsegol N mem N hatafsegol17 N memdagesh N hatafsegol24 N merkhahebrew N hatafsegol30 N merkhakefulahebrew N hatafsegolhebrew N middot N hatafsegolnarrowhebrew N munahhebrew

| N nbspace | N qofholamhebrew |
|----------------------------|------------------------|
| N ncedilla | N qofpatah |
| N newsheqelsign | N qofpatahhebrew |
| N ninearabic | N qofqamats |
| N noonhehinitialarabic | N qofqamatshebrew |
| N nun | N qofqubuts |
| N nundagesh | N qofqubutshebrew |
| N odblacute | N qofsegol |
| N onearabic | N qofsegolhebrew |
| N overscore | N qofsheva |
| N patah | N qofshevahebrew |
| N patah11 | N qoftsere |
| N patahld | N qubuts |
| N patah2a | N qubuts18 |
| N patahhebrew | N qubuts25 |
| N patahnarrowhebrew | N qubuts31 |
| N patahquarterhebrew | N qubutshebrew |
| N pe | N qubutsnarrowhebrew |
| N pedagesh | N qubutsquarterhebrew |
| N qamats | N quoteleftreversed |
| N qamats10 | N rafe |
| N qamatsla | N rcedilla |
| N qamatslc | N reharabic |
| N qamats27 | N resh |
| N qamats29 | N reshhatafpatah |
| N qamats33 | N reshhatafpatahhebrew |
| N qamatsde | N reshhatafsegol |
| N qamatshebrew | N reshhatafsegolhebrew |
| N qamatsnarrowhebrew | N reshhebrew |
| N qamatsqatanhebrew | N reshhiriq |
| N qamatsqatannarrowhebrew | N reshhiriqhebrew |
| N qamatsqatanquarterhebrew | N reshholam |
| N qamatsqatanwidehebrew | N reshholamhebrew |
| N qamatsquarterhebrew | N reshpatah |
| N qof | N reshpatahhebrew |
| N qofdagesh | N reshqamats |
| N qofhatafpatah | N reshqamatshebrew |
| N qofhatafpatahhebrew | N reshqubuts |
| N qofhatafsegol | N reshqubutshebrew |
| N qofhatafsegolhebrew | N reshsegol |
| N qofhebrew | N reshsegolhebrew |
| N qofhiriq | N reshsheva |
| N qofhiriqhebrew | N reshshevahebrew |
| N qofholam | N reshtsere |
| | |

| N reviahebrew | |
|---|--|
| | N tsere |
| N samekh | N tsere12 |
| N samekhdagesh | N tserele |
| N segol | N tsere2b |
| N segol13 | N tserehebrew |
| N segol1f | N tserenarrowhebrew |
| N segol2c | N tserequarterhebrew |
| N segolhebrew | N twoarabic |
| N segolnarrowhebrew | N udblacute |
| N segolquarterhebrew | N vav |
| N sevenarabic | N vavdagesh |
| N sfthyphen | N vavdagesh65 |
| N shaddaarabic | N vavholam |
| N sheqel | N yerahbenyomohebrew |
| N sheva | N yod |
| N sheval15 | N yoddagesh |
| N sheva15 | N zayin |
| N sheva22 | N zayindagesh |
| N sheva2e | N zdot |
| N shevahebrew | N zeroarabic |
| N shevanarrowhebrew | D unicodes |
| N shevaquarterhebrew | D cache |
| N shin | T ctxcodes |
| N shindagesh | N AEacute |
| N shindageshshindot | N AEligature |
| N shindageshsindot | N AEmacron |
| N shinshindot | N Aacute |
| | |
| N shinsindot | N Abreve |
| N shinsindot N siluqhebrew | |
| | N Abreve |
| N siluqhebrew | N Abreve N Abreveacute |
| N siluqhebrew N sixarabic | N Abreve N Abreveacute N Abrevedotbelow |
| N siluqhebrew N sixarabic N tav | N Abreve N Abreveacute N Abrevedotbelow N Abrevegrave |
| N siluqhebrew N sixarabic N tav N tavdages | N Abreve N Abrevedotbelow N Abrevegrave N Abrevehook |
| N siluqhebrew N sixarabic N tav N tavdages N tavdagesh | N Abreve N Abrevedotbelow N Abrevegrave N Abrevehook N Abrevetilde |
| N siluqhebrew N sixarabic N tav N tavdages N tavdagesh N tcedilla | N Abreve N Abrevedotbelow N Abrevegrave N Abrevehook N Abrevetilde N Acaron |
| N siluqhebrew N sixarabic N tav N tavdages N tavdagesh N tcedilla N tchehinitialarabic | N Abreve N Abreveacute N Abrevedotbelow N Abrevegrave N Abrevehook N Abrevetilde N Acaron N Acircumflex |
| N siluqhebrew N sixarabic N tav N tavdages N tavdagesh N tcedilla N tchehinitialarabic N tet | N Abreve N Abreveacute N Abrevedotbelow N Abrevegrave N Abrevehook N Abrevetilde N Acaron N Acircumflex N Acircumflexacute |
| N siluqhebrew N sixarabic N tav N tavdages N tavdagesh N tcedilla N tchehinitialarabic N tet N tetdagesh | N Abreve N Abreveacute N Abrevedotbelow N Abrevegrave N Abrevehook N Abrevetilde N Acaron N Acircumflex N Acircumflexacute N Acircumflexdotbelow |
| N siluqhebrew N sixarabic N tav N tavdages N tavdagesh N tcedilla N tchehinitialarabic N tet N tetdagesh N tevirhebrew | N Abreve N Abreveacute N Abrevedotbelow N Abrevegrave N Abrevehook N Abrevetilde N Acaron N Acircumflex N Acircumflexacute N Acircumflexdotbelow N Acircumflexgrave |
| N siluqhebrew N sixarabic N tav N tavdages N tavdagesh N tcedilla N tchehinitialarabic N tet N tetdagesh N tevirhebrew N thousandsseparatorarabic | N Abreve N Abreveacute N Abrevedotbelow N Abrevegrave N Abrevetilde N Acaron N Acircumflex N Acircumflexacute N Acircumflexdotbelow N Acircumflexgrave N Acircumflexhook |
| N siluqhebrew N sixarabic N tav N tavdages N tavdagesh N tcedilla N tchehinitialarabic N tet N tetdagesh N tevirhebrew N thousandsseparatorarabic N threearabic | N Abreve N Abreveacute N Abrevedotbelow N Abrevefrave N Abrevetilde N Acaron N Acircumflex N Acircumflexacute N Acircumflexdotbelow N Acircumflexgrave N Acircumflexhook N Acircumflextilde |
| N siluqhebrew N sixarabic N tav N tavdages N tavdagesh N tcedilla N tchehinitialarabic N tet N tetdagesh N tevirhebrew N thousandsseparatorarabic N threearabic N tildecmb | N Abreve N Abreveacute N Abrevedotbelow N Abrevefook N Abrevetilde N Acaron N Acircumflex N Acircumflexacute N Acircumflexdotbelow N Acircumflexgrave N Acircumflexgrave N Acircumflexthook N Acircumflextilde N Adiaeresis |
| N siluqhebrew N sixarabic N tav N tavdages N tavdagesh N tcedilla N tchehinitialarabic N tet N tetdagesh N tevirhebrew N thousandsseparatorarabic N tildecmb N tipehahebrew | N Abreve N Abreveacute N Abrevedotbelow N Abrevedotbelow N Abrevehook N Abrevetilde N Acaron N Acircumflex N Acircumflexacute N Acircumflexdotbelow N Acircumflexgrave N Acircumflexdotbelow |

N Adotbelow N Emacron N Adoublegrave N Eogonek N Agrave N Eth N Ahook N Etilde N Ainvertedbreve N Fhook N Gacute N Amacron N Aogonek N Gbreve N Gcaron N Aring 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 Ibreve N Cstroke N DZcaronligature N Icaron N DZligature N Icircumflex N Dafrican N Idiaeresis N Dcaron N Idotaccent N Dhook N Idothelow N Dstroke N Idoublegrave N Dzcaronligature N Igrave N Dzligature N Ihook N Eacute N Iinvertedbreve N Ebreve N Imacron N Ecaron N Iogonek N Ecedilla N Istroke N Fcircumflex N Ttilde N Ecircumflexacute N Jcircumflex N Ecircumflexdotbelow N Kcaron N Ecircumflexgrave N Kcommaaccent N Ecircumflexhook N Khook N Ecircumflextilde N LJligature N Ediaeresis N Lacute N Edotaccent N Lbar N Edotbelow N Lcaron N Edoublegrave N Lcommaaccent N Egrave N Ldotmiddle N Ehook N Ljligature N Einvertedbreve N Lstroke

N NJligature N Rcommaaccent N Nacute N Rdoublegrave N Ncaron N Rinvertedbreve N Ncommaaccent N Sacute N Neng N Scaron N Scedilla N Ngrave N Njligature N Schwa N Ntilde N Scircumflex N OEligature N Scommaaccent N Oacute N Tcaron N Obreve N Tcedilla N Tcommaaccent N Ocaron N Ocircumflex N Thook N Ocircumflexacute N Thorn N Ocircumflexdotbelow N Tstroke N Ocircumflexgrave N Uacute N Ocircumflexhook N Ubreve N Ocircumflextilde N Ucaron N Odiaeresis N Ucircumflex N Udiaeresis N Odiaeresismacron N Odotaccent N Udiaeresisacute N Odotaccentmacron N Udiaeresiscaron N Odotbelow N Udiaeresisgrave N Odoublegrave N Udiaeresismacron N Ograve N Udotbelow N Ohook N Udoublegrave N Ohorn N Ugrave N Ohornacute N Uhook N Ohorndotbelow N Uhorn N Ohorngrave N Uhornacute N Ohornhook N Uhorndotbelow N Ohorntilde N Uhorngrave N Ohungarumlaut N Ilhornhook N Oinvertedbreve N Uhorntilde N Omacron N Uhungarumlaut N Oogonek N Uinvertedbreve N Oogonekmacron N Umacron N Ostroke N Uogonek N Ostrokeacute N Uring N Otilde N Utilde N Otildemacron N Wcircumflex N Phook N Yacute N Racute N Ycircumflex N Rcaron N Ydiaeresis

N Ydotbelow N cacute N Ygrave N carriagereturn N Yhook N ccaron N Ymacron N ccedilla N Ytilde N ccircumflex N Zacute N ccurl N Zcaron N cdotaccent N 7dotaccent N chook N Zhook N copyright N Zstroke N cstroke N aacute N cvrillicA N cyrillicAE N abreve 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 adiaeresismacron N cyrillicD N adotaccent N cyrillicDASIAPNEUMATA N adotaccentmacron N cyrillicDJE N adotbelow N cyrillicDZE N adoublegrave N cyrillicDZEabkhasian N aeacute N cyrillicDZHE N aeligature N cyrillicE N aemacron N cyrillicELtail N agrave N cyrillicEMtail N ahook N cyrillicENDC N ainvertedbreve N cyrillicENGHE N amacron N cyrillicENhook N aogonek N cyrillicENtail N cyrillicEREV N aring N aringacute N cyrillicERY N atilde N cyrillicERtick N bhook N cyrillicEbreve N breakablethinspace N cyrillicEdiaeresis N bstroke N cyrillicEgrave

N cvrillicEiotified N cvrillicObarred N cyrillicF N cyrillicObarreddiaeresis N cyrillicOdiaeresis N cyrillicFITA N cyrillicG N cyrillicP N cyrillicGHEmidhook N cyrillicPALATALIZATION N cyrillicGHEstroke N cyrillicPALOCHKA N cyrillicGHEupturn N cvrillicPEmidhook N cvrillicGJE N cvrillicPSI N cyrillicH N cyrillicPSILIPNEUMATA N cyrillicHA N cyrillicR N cvrillicHADC N cvrillicS N cvrillicHRDSN N cvrillicSCHWA 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 cvrillicTEDC N cyrillicImacron N cvrillicTETSE N cyrillicJE N cyrillicTITL0 N cyrillicK N cyrillicTSHE N cyrillicKADC N cyrillicU N cyrillicKAbashkir N cyrillicUK N cyrillicKAhook N cyrillicUSHRT N cyrillicKAstroke N cyrillicUdiaeresis N cyrillicKAvertstroke N cyrillicUdoubleacute N cyrillicKJE N cyrillicUmacron N cyrillicKOPPA N cyrillicV N cyrillicKSI N cyrillicYA N cyrillicL N cyrillicYAT N cyrillicYERUdiaeresis N cyrillicLITTLEYUS N cyrillicLITTLEYUSiotified N cyrillicYI N cyrillicLJE N cyrillicY0 N cyrillicM N cyrillicYU N cyrillicN N cyrillicYstr N cyrillicNJE N cyrillicYstrstroke N cyrillic0 N cyrillicZ N cyrillicOMEGA N cyrillicZDSC N cyrillicZEdiaeresis N cyrillic0MEGAround N cyrillic0MEGAtitlo N cyrillicZH N cyrillicOT N cyrillicZHEbreve

N cvrillicZHEdescender N cvrillicha N cyrillicZHEdiaeresis N cyrillichadc N cyrillichrdsn N cyrillica N cyrillicabreve N cvrillici N cyrillicadiaeresis N cyrillicidiaeresis N cyrillicae N cyrillicie N cvrillicb N cvrilliciarave N cyrillicbigyus N cvrillicii N cyrillicbigyusiotified N cyrillicimacron N cyrillicc N cyrillicishrt N cvrillicch N cvrillicishrttail N cvrilliccheabkhasian N cvrillicizhitsa N cyrillicchedc N cyrillicizhitsadoublegrave N cyrillicchedcabkhasian N cyrillicje N cyrillicchediaeresis N cyrillick N cyrillicchekhakassian N cyrillickabashkir N cyrillicchevertstroke N cyrillickadc N cyrillicd N cyrillickahook N cyrillicdje N cyrillickastroke N cyrillicdze N cyrillickavertstroke N cvrillicdzeabkhasian N cyrillickje N cvrillicdzhe N cyrillickoppa N cyrillice N cyrillicksi N cyrillicebreve N cyrillicl N cyrillicediaeresis N cyrilliclittleyus N cyrillicegrave N cyrilliclittleyusiotified N cyrilliceiotified N cyrilliclje N cyrilliceltail N cyrillicm N cyrillicemtail N cyrillicn N cyrillicendc N cyrillicnje N cyrillicenghe N cyrillico N cyrillicenhook N cyrillicobarred N cyrillicentail N cyrillicobarreddiaeresis N cyrillicerev N cyrillicodiaeresis N cyrillicertick N cyrillicomega N cyrillicery N cyrillicomegaround N cyrillicf N cyrillicomegatitlo N cyrillicfita N cyrillicot N cyrillicg N cyrillicp N cyrillicghemidhook N cyrillicpemidhook N cyrillicghestroke N cyrillicpsi N cyrillicr N cyrillicgheupturn N cyrillicgje N cyrillics

N cyrillicschwa

N cyrillich

N cvrillicschwadiaeresis N dzligature N cyrillicsdsc N eacute N cyrillicsemisoft N ebreve N cyrillicsftsn N ecaron N cyrillicsh N ecedilla N cyrillicshch N ecircumflex N cvrillicshha N ecircumflexacute N cvrillict N ecircumflexdothelow N cyrillictedc N ecircumflexgrave N cyrillictetse N ecircumflexhook N ecircumflextilde N cvrillictshe N cvrillicu N ediaeresis N cyrillicudiaeresis N edotaccent N cyrillicudoubleacute N edotbelow N cyrillicuk N edoublegrave N cyrillicumacron N egrave N cyrillicushrt N ehook N einvertedbreve N cyrillicv N cyrillicya N emacron N cyrillicyat N emdash N cyrillicyerudiaeresis N emspace N cyrillicyi N endash N cyrillicyo N enspace N cyrillicystr N eogonek N cyrillicystrstroke N etilde N cyrillicyu N exclamdown N cyrillicz N ffiligature N cyrilliczdsc N ffligature N cyrilliczediaeresis N fflligature N cyrilliczh N fhook N cyrilliczhebreve N figurespace N cyrilliczhedescender N filigature N cyrilliczhediaeresis N fiveeighths N dcaron N fivesixths N dcurl N flligature N dhook N fourfifths N dotlessI N fourperemspace N dotlessJ N gacute N dotlessi N gbreve N dotlessj N gcaron N dotlessjstroke N gcircumflex N dstroke N gcommaaccent N dtail N gdotaccent

N greekAlpha

N dzcaronligature

N greekAlphadasia N greekEtaiotasubpsili N greekAlphadasiaperispomeni N greekEtaiotasubpsiliperispomeni N greekAlphadasiatonos N greekEtaiotasubpsilitonos N greekAlphadasiavaria N greekEtaiotasubpsilivaria N greekAlphaiotasub N greekEtapsili N greekAlphaiotasubdasia N greekEtapsiliperispomeni N greekAlphaiotasubdasiaperispomeni N greekEtapsilitonos N greekAlphaiotasubdasiatonos N greekEtapsilivaria N greekAlphaiotasubdasiavaria N greekEtatonos N greekAlphaiotasubpsili N greekEtavaria N greekAlphaiotasubpsiliperispomeni N greekGamma N greekAlphaiotasubpsilitonos N greekIota N greekAlphaiotasubpsilivaria N greekIotadasia N greekAlphamacron N greekIotadasiaperispomeni N greekAlphapsili N greekIotadasiatonos N greekAlphapsiliperispomeni N greekIotadasiavaria N greekAlphapsilitonos N greekIotadialytika N greekAlphapsilivaria N greekIotamacron N greekAlphatonos N greekIotapsili N greekAlphavaria N greekIotapsiliperispomeni N greekAlphavrachy N greekIotapsilitonos N greekBeta N greekIotapsilivaria N greekChi N greekIotatonos N greekCoronis N greekIotavaria N greekDelta N greekIotavrachy N greekEpsilon N greekKappa N greekEpsilondasia N greekLambda N greekEpsilondasiatonos N greekMu N greekEpsilondasiavaria N greekNu N greekEpsilonpsili N greekOmega N greekEpsilonpsilitonos N greekOmegadasia N greekEpsilonpsilivaria N greekOmegadasiaperispomeni N greekEpsilontonos N greekOmegadasiatonos N greekEpsilonvaria N greekOmegadasiavaria N greekEta N greekOmegaiotasub N greekEtadasia N greekOmegaiotasubdasia N greekEtadasiaperispomeni N greekOmegaiotasubdasiaperispomeni N greekEtadasiatonos N greekOmegaiotasubdasiatonos N greekOmegaiotasubdasiavaria N greekEtadasiavaria N greekEtaiotasub N greekOmegaiotasubpsili N greekEtaiotasubdasia N greekOmegaiotasubpsiliperispomeni N greekEtaiotasubdasiaperispomeni N greekOmegaiotasubpsilitonos N greekEtaiotasubdasiatonos N greekOmegaiotasubpsilivaria N greekEtaiotasubdasiavaria N greekOmegapsili

N greekOmegapsiliperispomeni N greekalphaiotasubdasiavaria N greekOmegapsilitonos N greekalphaiotasubperispomeni N greekOmegapsilivaria N greekalphaiotasubpsili N greekalphaiotasubpsiliperispomeni N greekOmegatonos N greekOmegavaria N greekalphaiotasubpsilitonos N greekOmicron N greekalphaiotasubpsilivaria N greekOmicrondasia N greekalphaiotasubtonos N greekOmicrondasiatonos N greekalphaiotasubvaria N greekOmicrondasiavaria N greekalphamacron N greekOmicronpsili N greekalphaoxia N areekOmicronpsilitonos N greekalphaperispomeni N greekOmicronpsilivaria N greekalphapsili N greekOmicrontonos N greekalphapsiliperispomeni N greekOmicronvaria N greekalphapsilitonos N areekPhi N greekalphapsilivaria N areekPi N greekalphatonos N areekPsi N greekalphavaria N greekRho N greekalphavrachy N greekRhodasia N greekbeta N greekSigma N greekchi N greekSigmalunate N greekdasia N greekTau N greekdasiaperispomeni N greekTheta N greekdasiatonos N greekUpsilon N greekdasiavaria N greekUpsilondasia N greekdelta N greekUpsilondasiaperispomeni N greekdialytikaperispomeni N greekUpsilondasiatonos N greekdialytikatonos N greekUpsilondasiavaria N greekdialytikavaria N greekUpsilondialytika N greekdigamma N greekUpsilonmacron N greekepsilon N greekUpsilontonos N greekepsilonalt N greekUpsilonvaria N greekepsilondasia N greekUpsilonvrachy N greekepsilondasiatonos N greekXi N greekepsilondasiavaria N greekZeta N greekepsilonoxia N greekalpha N greekepsilonpsili N greekalphadasia N greekepsilonpsilitonos N greekalphadasiaperispomeni N greekepsilonpsilivaria N greekepsilontonos N greekalphadasiatonos N greekalphadasiavaria N greekepsilonvaria N greekalphaiotasub N greeketa N greekalphaiotasubdasia N greeketadasia N greekalphaiotasubdasiaperispomeni N greeketadasiaperispomeni N greekalphaiotasubdasiatonos N greeketadasiatonos

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

N hairspace N greekpialt 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 areekrho N hebrewGimel N greekrhoalt N hehrewHe N greekrhodasia N hehrewHet N hehrewKaf N greekrhopsili N hebrewKaffinal N greeksampi N greeksigma N hebrewLamed N greeksigmalunate N hebrewMem N hebrewMemfinal N greekstigma N greektau N hebrewNun N greektheta N hebrewNunfinal N hehrewPe N greekthetaalt N hebrewPefinal N greektonos N hebrewQof N greekupsilon N greekupsilondasia N hebrewResh N greekupsilondasiaperispomeni N hebrewSamekh N hebrewShin N greekupsilondasiatonos N greekupsilondasiavaria N hebrewTav N greekupsilondiaeresis N hebrewTet N greekupsilondialytikaperispomeni N hebrewTsadi N greekupsilondialytikatonos N hebrewTsadifinal N greekupsilondialytikavaria N hebrewVav N hebrewYod N greekupsilonmacron N greekupsilonoxia N hebrewZayin N greekupsilonperispomeni N hstroke N greekupsilonpsili N iacute N greekupsilonpsiliperispomeni N ibreve N greekupsilonpsilitonos N icaron N greekupsilonpsilivaria N icircumflex N greekupsilontonos N ideographichalffillspace N greekupsilonvaria N ideographicspace N greekupsilonvrachy N idiaeresis N greekvaria N idotaccent N areekxi N idotbelow N greekzeta N idoublegrave N gstroke N igrave N guilsingleleft N ihook N quilsingleright N iinvertedbreve

N ijligature N odotbelow N imacron N odoublegrave N iogonek N oeligature N itilde N ograve N jcaron N ohook N jcircumflex N ohorn N kcaron N ohornacute N kcommaaccent N ohorndotbelow N khook N ohorngrave N kkra N ohornhook N ohorntilde N lacute N lbar N ohungarumlaut N lcaron N oinvertedbreve N lcommaaccent N omacron N lcurl N oneeighth N ldotmiddle N onefifth N leftquillemot N onehalf N ljligature N onequarter N lstroke N onesixth N medspace N onesuperior N nacute N onethird N napostrophe N oogonek N narrownobreakspace N oogonekmacron N ncaron N ordfeminine N ncommaaccent N ordmasculine N ncurl N ostroke N ostrokeacute N neng N ngrave N otilde N njligature N otildemacron N nobreakspace N paragraphmark N ntilde N periodcentered N pacute N perthousand N obreve N phook N ocaron N punctuationspace N ocircumflex N questiondown N ocircumflexacute N quotedbl N ocircumflexdotbelow N quotedblbase N ocircumflexgrave N quotedblleft N ocircumflexhook N quotedblright N ocircumflextilde N quoteleft N odiaeresis N quoteright N odiaeresismacron N quotesingle N odotaccent N quotesinglebase

N racute

N odotaccentmacron

N rcaron N scommaaccent N rcommaaccent N sectionmark N rdoublegrave N seveneighths N registered N sixperemspace N rightquillemot N slong N rinvertedbreve N softhyphen N romanC N ssharp N romanD N stligature N romanI N tcaron N romanII N tcedilla N romanIII N tcommaaccent N romanIV N tcurl N romanIX N textAngstrom N romanL N textacute N romanM N textampersand N romanV N textasciicircum N romanVI N textasciitilde N romanVII N textat N romanVIII N textbackslash N romanX N textbar N romanXI N textbottomcomma N romanXII N textbottomdot N romanc N textbraceleft N romand N textbraceright N romani N textbreve N romanii N textbrokenbar N romaniii N textbullet N romaniv N textcaron N textcedilla N romanix N romanl N textcelsius N romanm N textcent N romany N textcircledP N romanyi N textcircumflex N romanvii N textcomma N romanviii N textcurrency N romanx N textdag N romanxi N textddag N romanxii N textdegree N sacute N textdiaeresis N scaron N textdiv N scedilla N textdollar N schwa N textdong N schwahook N textdotaccent

N textellipsis

N scircumflex

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 texthyphen N ugrave N textkelvin N uhook Nuhorn N textlognot N textmacron N uhornacute N uhorndotbelow N textmho N textminus N uhornarave 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 textrina N vacute N textslash N ycircumflex N textsterling N ydiaeresis N texttilde N ydotbelow N textunderscore N ygrave N yhook N textyen N thook N ymacron N thorn N ytilde N threeeighths N zacute N threefifths N zcaron N threeperemspace N zdotaccent N threequarter N zerowidthnobreakspace N threesuperior N zerowidthspace N trademark N zhook N tstroke N zstroke N twofifths N zwi N twosuperior N zwnj N twothirds F is known N uacute D known N ubreve F load N ucaron F make_unicode_vector N ucircumflex D math

T names

N udiaeresis

| 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 Adieresismacron | N Cheharmenian |
| N Adotbelow | N Chekhakassiancyrillic |
| N Adotmacron | N Cheverticalstrokecyrillic |
| N Agrave | N Chi |
| N Ahookabove | N Chook |
| N Aiecyrillic | N Cmonospace |
| N Ainvertedbreve | N Coarmenian |
| N Alpha | N D |
| N Alphatonos | N DZ |
| N Amacron | N DZcaron |
| N Amonospace | N Daarmenian |
| N Aogonek | N Dafrican |
| N Aring | N Dcaron |
| N Aringacute | N Dcedilla |
| N Aringbelow | N Dcircle |
| N Atilde | N Dcircumflexbelow |
| N Aybarmenian | N Dcroat |
| N B | N Ddotaccent |
| N Bcircle | N Ddotbelow |
| | |

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

ΝТ N Gamma N Gammaafrican N IAcyrillic N Gangiacoptic N IJ N IUcyrillic N Gbreve N Gcaron N Iacute N Gcedilla N Ibreve N Gcircle N Icaron N Gcircumflex N Trircle N Gcommaaccent N Icircumflex N Gdot N Icyrillic N Gdotaccent N Idblgrave N Gecvrillic N Idieresis N Ghadarmenian N Idieresisacute N Idieresiscyrillic N Ghemiddlehookcyrillic N Ghestrokecyrillic N Idot N Gheupturncyrillic N Idotaccent N Ghook N Idothelow N Gimarmenian N Iebrevecyrillic N Iecyrillic N Gjecyrillic N Gmacron N Ifraktur N Gmonospace N Igrave N Gsmallhook N Ihookabove N Gstroke N Iicyrillic NΗ N Iinvertedbreve N H18533 N Iishortcyrillic N H18543 N Imacron N H18551 N Imacroncyrillic N H22073 N Imonospace N HPsquare N Iniarmenian N Haabkhasiancyrillic N Iocyrillic N Hadescendercyrillic N Iogonek N Hardsigncyrillic N Tota N Hbar N Totaafrican N Hbrevebelow N Iotadieresis N Hcedilla N Iotatonos N Hcircle N Istroke N Hcircumflex N Itilde N Hdieresis N Itildebelow N Hdotaccent N Izhitsacyrillic N Hdotbelow N Izhitsadblgravecyrillic N Hmonospace N J N Hoarmenian N Jaarmenian N Horicoptic N Jcircle N Hzsquare N Jcircumflex

N Jecyrillic N Lj N Jheharmenian N Ljecyrillic N Jmonospace N Llinebelow NK N Lmonospace N KBsquare N Lslash N KKsquare N M N Kabashkircyrillic N MBsquare N Kacute N Macute N Kacyrillic N Mcircle N Kadescendercyrillic N Mdotaccent N Kahookcyrillic N Mdotbelow N Kappa N Menarmenian N Kastrokecyrillic N Mmonospace N Kaverticalstrokecyrillic N Mturned N Kcaron N Mu N Kcedilla NN N Kcircle N N.J N Kcommaaccent N Nacute N Kdotbelow N Ncaron N Keharmenian N Ncedilla N Kenarmenian N Ncircle N Khacyrillic N Ncircumflexbelow N Kheicoptic N Ncommaaccent N Khook N Ndotaccent N Kjecyrillic N Ndothelow N Klinebelow N Nhookleft N Kmonospace N Nineroman N Koppacyrillic N Nj N Koppagreek N Njecyrillic N Ksicyrillic N Nlinebelow NL N Nmonospace N Nowarmenian N I 1 N Lacute N Ntilde N Lambda N Nu N O N Lcaron N Lcedilla N OE N Lcircle N Oacute N Lcircumflexbelow N Obarredcyrillic N Lcommaaccent N Obarreddieresiscyrillic N Ldot N Obreve N Ldotaccent N Ocaron N Ldotbelow N Ocenteredtilde N Ldotbelowmacron N Ocircle N Liwnarmenian N Ocircumflex

N Ocircumflexacute N Otilde N Ocircumflexdotbelow N Otildeacute N Ocircumflexgrave N Otildedieresis ΝP N Ocircumflexhookabove N Ocircumflextilde N Pacute N Ocyrillic N Pcircle N Odblacute N Pdotaccent N Odblarave N Pecvrillic N Odieresis N Peharmenian N Odieresiscyrillic N Pemiddlehookcyrillic N Odotbelow N Phi N Phook N Ograve N Oharmenian N Pi N Ohm N Piwrarmenian N Ohookabove N Pmonospace N Ohorn N Psi N Ohornacute N Psicyrillic N Ohorndotbelow N O N Ocircle N Ohorngrave N Ohornhookabove N Qmonospace N Ohorntilde NR N Ohungarumlaut N Raarmenian N Oi N Racute N Oinvertedbreve N Rearon N Omacron N Rcedilla N Omacronacute N Rcircle N Rcommaaccent N Omacrongrave N Omega N Rdblgrave N Omegacyrillic N Rdotaccent N Omegagreek N Rdotbelow N Omegaroundcyrillic N Rdotbelowmacron N Omegatitlocyrillic N Reharmenian N Omegatonos N Rfraktur N Rho N Omicron N Omicrontonos N Rinvertedbreve N Omonospace N Rlinebelow N Oneroman N Rmonospace N Oogonek N Rsmallinverted N Oogonekmacron N Rsmallinvertedsuperior N Oopen NS N Oslash N SF010000 N Oslashacute N SF020000 N Ostrokeacute N SF030000

N SF040000

N Otcyrillic

| 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 | Schwadieresiscyrillic |
| 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 | Seharmenian |
| N | SF270000 | N | Sevenroman |
| N | SF280000 | N | Shaarmenian |
| N | SF30000 | N | Shacyrillic |
| N | SF360000 | N | Shchacyrillic |
| N | SF370000 | N | Sheicoptic |
| N | SF380000 | N | Shhacyrillic |
| N | SF390000 | N | Shimacoptic |
| N | SF40000 | N | Sigma |
| N | SF400000 | N | Sixroman |
| N | SF410000 | N | Smonospace |
| N | SF420000 | N | Softsigncyrillic |
| N | SF430000 | N | Stigmagreek |
| N | SF440000 | N | Т |
| N | SF450000 | N | Tau |
| N | SF460000 | N | Tbar |
| N | SF470000 | N | Tcaron |
| N | SF480000 | N | Tcedilla |
| N | SF490000 | N | Tcircle |
| N | SF50000 | N | Tcircumflexbelow |
| N | SF500000 | N | Tcommaaccent |
| N | SF510000 | N | Tdotaccent |
| N | SF520000 | N | Tdotbelow |
| N | SF530000 | N | Tecyrillic |
| N | SF540000 | N | Tedescendercyrillic |
| N | SF60000 | N | Tenroman |
| N | SF70000 | N | Tetsecyrillic |
| N | SF80000 | N | Theta |
| | | | |

N Thook N Ukcyrillic N Thorn N Umacron N Threeroman N Umacroncyrillic N Tiwnarmenian N Umacrondieresis N Tlinebelow N Umonospace N Tmonospace N Uogonek N Toarmenian N Upsilon N Tonefive N Upsilon1 N Tonesix N Upsilonacutehooksymbolgreek N Tonetwo N Upsilonafrican N Tretroflexhook N Upsilondieresis N Tsecvrillic N Upsilondieresishooksymbolgreek N Tshecyrillic N Upsilonhooksymbol N Twelveroman N Upsilontonos N Tworoman N Uring NU N Ushortcyrillic N Uacute N Ustraightcyrillic N Uhreve N Ustraightstrokecyrillic N Ucaron N Utilde N Ucircle N Utildeacute N Ucircumflex N Utildebelow N Ucircumflexbelow NV N Ucyrillic N Vcircle N Udblacute N Vdotbelow N Udblarave N Vecvrillic N Udieresis N Vewarmenian N Udieresisacute N Vhook N Udieresisbelow N Vmonospace N Udieresiscaron N Voarmenian N Udieresiscyrillic N Vtilde N Udieresisgrave N W N Udieresismacron N Wacute N Udotbelow N Wcircle N Wcircumflex N Ugrave N Wdieresis N Uhookabove N Uhorn N Wdotaccent N Wdotbelow N Uhornacute N Uhorndotbelow N Wgrave N Uhorngrave N Wmonospace N Uhornhookabove NX N Uhorntilde N Xcircle N Uhungarumlaut N Xdieresis N Uhungarumlautcyrillic N Xdotaccent N Uinvertedbreve N Xeharmenian

N Xi N Zstroke N Xmonospace Na NY N aabengali N Yacute N aacute N Yatcyrillic N aadeva N Ycircle N aagujarati N Ycircumflex N aagurmukhi N Ydieresis N aamatragurmukhi N Ydotaccent N aarusquare N Ydotbelow N aavowelsignbengali N Yericvrillic N aavowelsigndeva N Yerudieresiscyrillic N aavowelsigngujarati N Ygrave N abbreviationmarkarmenian N Yhook N abbreviationsigndeva N Yhookabove N abengali N Yiarmenian N abopomofo N Yicyrillic N abreve N Yiwnarmenian N abreveacute N Ymonospace N abrevecyrillic N Ytilde N abrevedotbelow N Yusbigcyrillic N abrevegrave N Yusbigiotifiedcyrillic N abrevehookabove N Yuslittlecyrillic N abrevetilde N Yuslittleiotifiedcyrillic N acaron N 7 N acircle N Zaarmenian N acircumflex N acircumflexacute N Zacute N Zcaron N acircumflexdotbelow N Zcircle N acircumflexgrave N Zcircumflex N acircumflexhookabove N Zdot N acircumflextilde N 7dotaccent N acute N Zdotbelow N acutebelowcmb N acutecmb N Zecyrillic N Zedescendercyrillic N acutecomb N Zedieresiscyrillic N acutedeva N acutelowmod N Zeta N Zhearmenian N acutetonecmb N Zhebrevecyrillic N acyrillic N Zhecyrillic N adblgrave N Zhedescendercyrillic N addakgurmukhi N Zhedieresiscyrillic N adeva N Zlinebelow N adieresis

N adieresiscyrillic

N Zmonospace

| 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 | | 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 |
| N | afii10024 | N | afii10070 |
| N | afii10025 | N | afii10071 |
| N | afii10026 | N | afii10072 |
| N | afii10027 | N | afii10073 |
| N | afii10028 | N | afii10074 |
| N | afii10029 | N | afii10075 |
| N | afii10030 | N | afii10076 |
| N | afii10031 | N | afii10077 |
| N | afii10032 | N | afii10078 |
| N | afii10033 | N | afii10079 |
| N | afii10034 | N | afii10080 |
| N | afii10035 | N | afii10081 |
| N | afii10036 | N | afii10082 |
| N | afii10037 | N | afii10083 |
| N | afii10038 | N | afii10084 |
| N | afii10039 | N | afii10085 |
| N | afii10040 | N | afii10086 |
| N | afii10041 | N | afii10087 |
| N | afii10042 | N | afii10088 |
| N | afii10043 | N | afii10089 |
| N | afii10044 | N | afii10090 |
| N | afii10045 | N | afii10091 |
| N | afii10046 | N | afii10092 |
| N | afii10047 | N | afii10093 |
| N | afii10048 | N | afii10094 |
| N | afii10049 | N | afii10095 |
| N | afii10050 | N | afii10096 |
| N | afii10051 | N | afii10097 |
| | | | |

| N afii10098 | N afii57413 |
|-------------|-------------|
| N afii10099 | N afii57414 |
| N afii10100 | N afii57415 |
| N afii10101 | N afii57416 |
| N afii10102 | N afii57417 |
| N afii10103 | N afii57418 |
| N afii10104 | N afii57419 |
| N afii10105 | N afii57420 |
| N afii10106 | N afii57421 |
| N afii10107 | N afii57422 |
| N afii10108 | N afii57423 |
| N afii10109 | N afii57424 |
| N afii10110 | N afii57425 |
| N afii10145 | N afii57426 |
| N afii10146 | N afii57427 |
| N afii10147 | N afii57428 |
| N afii10148 | N afii57429 |
| N afii10193 | N afii57430 |
| N afii10194 | N afii57431 |
| N afii10195 | N afii57432 |
| N afii10196 | N afii57433 |
| N afii10846 | N afii57434 |
| N afii208 | N afii57440 |
| N afii299 | N afii57441 |
| N afii300 | N afii57442 |
| N afii301 | N afii57443 |
| N afii57381 | N afii57444 |
| N afii57388 | N afii57445 |
| N afii57392 | N afii57446 |
| N afii57393 | N afii57448 |
| N afii57394 | N afii57449 |
| N afii57395 | N afii57450 |
| N afii57396 | N afii57451 |
| N afii57397 | N afii57452 |
| N afii57398 | N afii57453 |
| N afii57399 | N afii57454 |
| N afii57400 | N afii57455 |
| N afii57401 | N afii57456 |
| N afii57403 | N afii57457 |
| N afii57407 | N afii57458 |
| N afii57409 | N afii57470 |
| N afii57410 | N afii57505 |
| N afii57411 | N afii57506 |
| N afii57412 | N afii57507 |
| | |

| N | afii57508 | N | afii57718 |
|---|-----------|---|------------------|
| N | afii57509 | N | afii57723 |
| N | afii57511 | N | afii57793 |
| N | afii57512 | N | afii57794 |
| N | afii57513 | N | afii57795 |
| N | afii57514 | N | afii57796 |
| N | afii57519 | N | afii57797 |
| N | afii57534 | N | afii57798 |
| N | afii57636 | N | afii57799 |
| N | afii57645 | N | afii57800 |
| N | afii57658 | N | afii57801 |
| N | afii57664 | N | afii57802 |
| N | afii57665 | N | afii57803 |
| N | afii57666 | N | afii57804 |
| N | afii57667 | N | afii57806 |
| N | afii57668 | N | afii57807 |
| N | afii57669 | N | afii57839 |
| N | afii57670 | N | afii57841 |
| N | afii57671 | N | afii57842 |
| N | afii57672 | N | afii57929 |
| N | afii57673 | N | afii61248 |
| N | afii57674 | N | afii61289 |
| N | afii57675 | N | afii61352 |
| N | afii57676 | N | afii61573 |
| N | afii57677 | N | afii61574 |
| N | afii57678 | N | afii61575 |
| N | afii57679 | N | afii61664 |
| N | afii57680 | N | afii63167 |
| N | afii57681 | N | afii64937 |
| N | afii57682 | N | agrave |
| N | afii57683 | N | agujarati |
| N | afii57684 | N | agurmukhi |
| N | afii57685 | N | ahiragana |
| N | afii57686 | N | ahookabove |
| N | afii57687 | N | aibengali |
| N | afii57688 | N | aibopomofo |
| N | afii57689 | N | aideva |
| N | afii57690 | N | aiecyrillic |
| N | afii57694 | N | aigujarati |
| N | afii57695 | N | aigurmukhi |
| N | afii57700 | N | aimatragurmukhi |
| N | afii57705 | N | ainarabic |
| N | afii57716 | N | ainfinalarabic |
| N | afii57717 | N | aininitialarabic |
| | | | |

N 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 Nalef 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 araeaekorean 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 alefgamatshebrew N arrowdashdown N aleph N arrowdashleft N allequal N arrowdashright N alpha N arrowdashup N alphatonos N arrowdblboth N amacron N arrowdbldown N amonospace N arrowdblleft N ampersand N arrowdblright N arrowdblup N ampersandmonospace N arrowdown N amsquare N anbopomofo N arrowdownleft N angbopomofo N arrowdownright N arrowdownwhite

N angkhankhuthai N arrowdownwhite
N angle N arrowheaddownmod
N anglebracketleft N arrowheadleftmod
N anglebracketleftvertical N arrowheadleftmod
N anglebracketright N arrowheadupmod
N anglebracketrightvertical N arrowleft
N angleleft N arrowleftdbl

N arrowleftdblstroke N augurmukhi N arrowleftoverright N aulengthmarkbengali N arrowleftwhite N aumatragurmukhi N arrowright N auvowelsignbengali N arrowrightdblstroke N auvowelsigndeva N arrowrightheavy N auvowelsigngujarati N arrowrightoverleft N avagrahadeva N arrowrightwhite N avbarmenian N arrowtableft N ayin N arrowtabright N ayinaltonehebrew N arrowup N avinhebrew N b N arrowupdn N arrowupdnbse N babengali N arrowupdownbase N backslash N arrowupleft N backslashmonospace N arrowupleftofdown N badeva N arrowupright N baqujarati N arrowupwhite N bagurmukhi N asciicircum N bahiragana N asciicircummonospace N bahtthai N asciitilde N bakatakana N asciitildemonospace N bar N ascript N barmonospace N ascriptturned N bbopomofo N asmallhiragana N bcircle N asmallkatakana N bdotaccent N asmallkatakanahalfwidth N bdotbelow N asterisk N beamedsixteenthnotes N asteriskaltonearabic N because N asteriskarabic N becyrillic N asteriskmath N beharabic N asteriskmonospace N behfinalarabic N asterisksmall N behinitialarabic N behiragana N asterism N behmedialarabic N asymptoticallyequal N at N behmeeminitialarabic N behmeemisolatedarabic N atilde N behnoonfinalarabic N atmonospace N atsmall N bekatakana N aturned N benarmenian N aubengali N bet N aubopomofo N beta

N betasymbolgreek

N betdagesh

N audeva

N augujarati

N betdageshhebrew N braceleft N bethebrew N braceleftmonospace N betrafehebrew N braceleftsmall N braceleftvertical N bhabengali N bhadeva N braceright N bhaqujarati N bracerightmonospace N bhagurmukhi N bracerightsmall N bhook N bracerightvertical N bihiragana N bracketleft N hikatakana N bracketleftmonospace N bilabialclick N bracketright N bindiaurmukhi N bracketrightmonospace N birusquare N breve N blackcircle N brevebelowcmb N blackdiamond N brevecmb N blackdownpointingtriangle N breveinvertedbelowcmb N blackleftpointingpointer N breveinvertedcmb N breveinverteddoublecmb N blackleftpointingtriangle N blacklenticularbracketleft N bridgebelowcmb N blacklenticularbracketleftvertical N bridgeinvertedbelowcmb N blacklenticularbracketright N brokenbar N blacklenticularbracketrightvertical N bstroke N blacklowerlefttriangle N btopbar N blacklowerrighttriangle N buhiragana N blackrectangle N bukatakana N blackrightpointingpointer N bullet N bulletinverse N blackrightpointingtriangle N blacksmallsquare N bulletoperator N blacksmilingface N bullseye N blacksquare N c N blackstar N caarmenian N blackupperlefttriangle N cabengali N blackupperrighttriangle N cacute N blackuppointingsmalltriangle N cadeva N blackuppointingtriangle N caquiarati N blank N cagurmukhi N blinebelow N calsquare N block N candrabindubengali N bmonospace N candrabinducmb N bobaimaithai N candrabindudeva N bohiragana N candrabindugujarati N bokatakana N capslock N bparen N careof

N caron

N bgsguare

N caronbelowcmb N cieucacirclekorean N caronemb 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 clickalveolar N centmonospace N clickdental N chaarmenian N clicklateral N chabengali N chadeva N clickretroflex N chagujarati N club N chagurmukhi N clubsuitblack N chbopomofo N clubsuitwhite N cheabkhasiancvrillic N cmcubedsquare N checkmark N cmonospace N checyrillic N cmsquaredsquare N chedescenderabkhasiancyrillic N coarmenian N chedescendercyrillic N colon N chedieresiscyrillic N colonmonetary N cheharmenian N colonmonospace N chekhakassiancyrillic N colonsign N cheverticalstrokecyrillic N colonsmall N colontriangularhalfmod N chi N chieuchacirclekorean N colontriangularmod N chieuchaparenkorean N comma N chieuchcirclekorean N commaabovecmb N chieuchkorean N commaaboverightcmb N chieuchparenkorean N commaarabic N chochangthai N commaarmenian N chochanthai N commamonospace N chochingthai N commareversedabovecmb N chochoethai N commareversedmod N chook N commasmall

| N | commaturnedabovecmb | N | cornerbracketrightvertical |
|---|-----------------------------|---|----------------------------|
| | commaturnedmod | | corporationsquare |
| | compass | | cosquare |
| | congruent | | coverkgsquare |
| | contourintegral | | cparen |
| | control | | cruzeiro |
| N | controlACK | N | cstretched |
| N | controlBEL | N | curlyand |
| N | controlBS | | curlyor |
| N | controlCAN | | currency |
| N | controlCR | N | d |
| N | controlDC1 | N | daarmenian |
| N | controlDC2 | N | dabengali |
| N | controlDC3 | N | dadarabic |
| N | controlDC4 | N | dadeva |
| N | controlDEL | N | dadfinalarabic |
| N | controlDLE | N | dadinitialarabic |
| N | controlEM | N | dadmedialarabic |
| N | controlENQ | N | dagesh |
| N | controlEOT | N | dageshhebrew |
| N | controlESC | N | dagger |
| N | controlETB | N | daggerdbl |
| N | controlETX | N | dagujarati |
| N | controlFF | N | dagurmukhi |
| N | controlFS | N | dahiragana |
| N | controlGS | N | dakatakana |
| N | controlHT | N | dalarabic |
| N | controlLF | N | dalet |
| N | controlNAK | N | daletdagesh |
| N | controlRS | N | daletdageshhebrew |
| N | controlSI | N | dalethatafpatah |
| N | controlSO | N | dalethatafpatahhebrew |
| N | controlSOT | N | dalethatafsegol |
| N | controlSTX | N | dalethatafsegolhebrew |
| N | controlSUB | N | dalethebrew |
| N | controlSYN | N | dalethiriq |
| N | controlUS | N | dalethiriqhebrew |
| N | controlVT | N | daletholam |
| N | copyright | N | daletholamhebrew |
| N | cornerbracketleft | N | daletpatah |
| N | cornerbracketlefthalfwidth | N | daletpatahhebrew |
| N | cornerbracketleftvertical | N | daletqamats |
| N | cornerbracketright | N | daletqamatshebrew |
| N | cornerbracketrighthalfwidth | N | daletqubuts |
| | | | |

N ddalfinalarabic N daletqubutshebrew N daletsegol N dddhadeva N daletsegolhebrew N ddhabengali N daletsheva N ddhadeva N daletshevahebrew N ddhagujarati N dalettsere N ddhagurmukhi N dalettserehebrew N ddotaccent N dalfinalarabic N ddothelow N dammaarahic N decimalseparatorarabic N dammalowarahic N decimalseparatorpersian N dammatanaltonearabic N decyrillic N dammatanarabic N dearee N danda N dehihebrew N dargahebrew N dehiragana N dargalefthebrew N deicoptic N dasiapneumatacyrilliccmb N dekatakana N dblanglebracketleft N deleteleft N dblanglebracketleftvertical N deleteright N dblanglebracketright N delta N dblanglebracketrightvertical N deltaturned N dblarchinvertedbelowcmb N denominatorminusonenumeratorbengali N dblarrowleft N dezh N dblarrowright N dhabengali N dbldanda N dhadeva N dblgravecmb N dhagujarati N dblintegral N dhagurmukhi N dbllowline N dhook N dbllowlinecmb N dialytikatonos N dbloverlinecmb N dialytikatonoscmb N dblprimemod N diamond N dblverticalbar N diamondsuitwhite N dblverticallineabovecmb N dieresis N dbopomofo N dieresishelowcmb N dieresiscmb N dbsquare N dieresistonos N dcaron N dcedilla N dihiragana N dcircle N dikatakana N dcircumflexbelow N dittomark N dcroat N divide N ddabengali N divides N ddadeva N divisionslash N djecyrillic N ddagujarati N ddagurmukhi N dkshade N ddalarabic N dlinebelow

N dlsquare N ehreve 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 echyiwnarmenian N dollarmonospace N ecircle N ecircumflex N dollarsmall N ecircumflexacute N dona N dorusquare N ecircumflexbelow N dotaccent N ecircumflexdotbelow N dotaccentcmb N ecircumflexgrave N ecircumflexhookabove N dotbelowcmb N dotbelowcomb N ecircumflextilde N dotkatakana N ecyrillic N dotlessi N edblgrave N dotlessi N edeva N dotlessistrokehook N edieresis N dotmath N edot N dottedcircle N edotaccent N doubleyodpatah N edotbelow N doubleyodpatahhebrew N eegurmukhi N downtackbelowcmb N eematragurmukhi N downtackmod N efcyrillic N dparen N egrave N dtail N egujarati N dtopbar N eharmenian N duhiragana N ehbopomofo N dukatakana N ehiragana N dz N ehookabove N dzaltone N eibopomofo N dzcaron N eight N dzcurl N eightarabic N dzeabkhasiancyrillic N eightbengali N dzecyrillic N eightcircle N dzhecyrillic N eightcircleinversesansserif Νe N eightdeva N eacute N eighteencircle N earth N eighteenparen N ebengali N eighteenperiod

N eightgujarati

N ebopomofo

N eightaurmukhi N enhookcyrillic N eighthackarabic N enspace N eighthangzhou N eogonek N eighthnotebeamed N eokorean N eightideographicparen N eopen N eightinferior N eopenclosed N eightmonospace N eopenreversed N eightparen N eopenreversedclosed N eightperiod N eopenreversedhook N eightpersian N eparen N eightroman N epsilon N eightsuperior N epsilontonos N eightthai N equal N einvertedbreve N equalmonospace N eiotifiedcyrillic N equalsmall N ekatakana N equalsuperior N ekatakanahalfwidth N equivalence N ekonkargurmukhi N erbopomofo N ekorean N ercyrillic N elcyrillic N ereversed N element N ereversedcyrillic N elevencircle N escyrillic N elevenparen N esdescendercyrillic N elevenperiod N esh N elevenroman N eshcurl N ellipsis N eshortdeva N ellipsisvertical N eshortvowelsigndeva N emacron N eshreversedloop N emacronacute N eshsquatreversed N emacrongrave N esmallhiragana N emcyrillic N esmallkatakana N emdash N esmallkatakanahalfwidth N emdashvertical N estimated N emonospace N eta N etarmenian N emphasismarkarmenian N emptyset N etatonos N enbopomofo N eth N etilde N encyrillic N endash N etildebelow N endashvertical N etnahtafoukhhebrew N endescendercyrillic N etnahtafoukhlefthebrew N etnahtahebrew N eng

previous 110 next

N engbopomofo
N enghecyrillic

N etnahtalefthebrew

N eturned

N eukorean N finalkafdagesh N euro N finalkafdageshhebrew N evowelsignbengali N finalkafhebrew N evowelsigndeva N finalkafgamats N evowelsigngujarati N finalkafgamatshebrew N exclam N finalkafsheva N exclamarmenian N finalkafshevahebrew N exclamdbl N finalmem N finalmembehrew N exclamdown N exclammonospace N finalnun N finalnunhebrew N existential N ezh N finalpe N ezhcaron N finalpehebrew N finaltsadi N ezhcurl N finaltsadihebrew N ezhreversed N ezhtail N firsttonechinese Nf N fisheve N fadeva N fitacyrillic N fagurmukhi N five N fahrenheit N fivearabic N fathaarabic N fivebengali N fathalowarabic N fivecircle N fathatanarabic N fivecircleinversesansserif N fbopomofo N fivedeva N fcircle N fiveeighths N fdotaccent N fivegujarati N feharabic N fivegurmukhi N feharmenian N fivehackarabic N fehfinalarabic N fivehangzhou N fehinitialarabic N fiveideographicparen N fehmedialarabic N fiveinferior N feicoptic N fivemonospace N female N fiveparen N ff N fiveperiod N ffi N fivepersian N ffl N fiveroman N fi N fivesuperior N fivethai N fifteencircle N fifteenparen N fl N fifteenperiod N florin N figuredash N fmonospace N filledbox N fmsquare N filledrect N fofanthai N finalkaf N fofathai

N fonomanthai N gangiacoptic N forall N gbopomofo N four N gbreve N fourarabic N gcaron N fourbengali N gcedilla N fourcircle N gcircle N fourcircleinversesansserif N gcircumflex N fourdeva N gcommaaccent N fourqujarati N gdot N fourgurmukhi N qdotaccent N fourhackarabic N gecyrillic N fourhangzhou N gehiragana N fourideographicparen N gekatakana N fourinferior N geometricallyequal N fourmonospace N gereshaccenthebrew N fournumeratorbengali N gereshhebrew N fourparen N gereshmugdamhebrew N fourperiod N germandbls N fourpersian N gershayimaccenthebrew N fourroman N gershavimhebrew N foursuperior N getamark N fourteencircle N ghabengali N fourteenparen N ghadarmenian N fourteenperiod N ghadeva N fourthai N ghagujarati N fourthtonechinese N ghagurmukhi N fparen N ghainarabic N fraction N ghainfinalarabic N franc N ghaininitialarabic Ng N ghainmedialarabic N gabengali N ghemiddlehookcyrillic N ghestrokecyrillic N gacute N gadeva N gheupturncyrillic N gafarabic N ghhadeva N gaffinalarabic N ghhagurmukhi N gafinitialarabic N ghook N gafmedialarabic N ghzsquare N gagujarati N gihiragana N gagurmukhi N gikatakana N gahiragana N gimarmenian N gakatakana N gimel N gamma N gimeldagesh N gammalatinsmall N gimeldageshhebrew N gammasuperior N gimelhebrew

N gjecyrillic N haabkhasiancvrillic N glottalinvertedstroke N haaltonearabic N habengali N glottalstop N glottalstopinverted N hadescendercyrillic N glottalstopmod N hadeva N glottalstopreversed N haqujarati N glottalstopreversedmod N hagurmukhi N haharabic N glottalstopreversedsuperior N hahfinalarahic N glottalstopstroke N glottalstopstrokereversed N hahinitialarabic N amacron N hahiragana N gmonospace N hahmedialarabic N gohiragana N haitusquare N gokatakana N hakatakana N gparen N hakatakanahalfwidth N gpasquare N halantgurmukhi N gradient N hamzaarabic N hamzadammaarabic N grave N hamzadammatanarabic N gravebelowcmb N hamzafathaarabic N gravecmb N gravecomb N hamzafathatanarabic N gravedeva N hamzalowarabic N gravelowmod N hamzalowkasraarabic N gravemonospace N hamzalowkasratanarabic N gravetonecmb N hamzasukunarabic N greater N hangulfiller N greaterequal N hardsigncyrillic N greaterequalorless N harpoonleftbarbup N harpoonrightbarbup N greatermonospace N greaterorequivalent N hasquare N greaterorless N hatafpatah N hatafpatah16 N greateroverequal N greatersmall N hatafpatah23 N hatafpatah2f N gscript N gstroke N hatafpatahhebrew N guhiragana N hatafpatahnarrowhebrew N quillemotleft N hatafpatahquarterhebrew N quillemotright N hatafpatahwidehebrew N guilsinglleft N hatafqamats N guilsinglright N hatafqamats1b N gukatakana N hatafgamats28 N guramusquare N hatafqamats34 N gysquare N hatafqamatshebrew Nh N hatafgamatsnarrowhebrew N hatafqamatsquarterhebrew N het N hatafgamatswidehebrew 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 hatafsegolguarterhebrew N hieuhparenkorean N hatafsegolwidehebrew N hihiragana N hbar N hikatakana N hikatakanahalfwidth N hbopomofo N hbrevebelow N hiria N hcedilla N hiriq14 N hcircle N hiria21 N hcircumflex N hiria2d N hdieresis N hirighebrew N hdotaccent N hirignarrowhebrew N hdothelow N hirigguarterhebrew N he N hirigwidehebrew N heart N hlinebelow N heartsuitblack N hmonospace N heartsuitwhite N hoarmenian N hedagesh N hohipthai N hedageshhebrew N hohiragana N hehaltonearabic N hokatakana N heharabic N hokatakanahalfwidth N hehebrew N holam N hehfinalaltonearabic N holam19 N hehfinalalttwoarabic N holam26 N hehfinalarabic N holam32 N hehhamzaahovefinalarahic N holamhebrew N hehhamzaaboveisolatedarabic N holamnarrowhebrew N hehinitialaltonearabic N holamquarterhebrew N hehinitialarabic N holamwidehebrew N hehiragana N honokhukthai N hehmedialaltonearabic N hookabovecomb N hehmedialarabic N hookcmb N heiseierasquare N hookpalatalizedbelowcmb N hekatakana N hookretroflexbelowcmb N hekatakanahalfwidth N hoonsquare N hekutaarusquare N horicoptic N horizontalbar N henghook N herutusquare N horncmb

N hotsprings N ideographichaveparen N house N ideographichighcircle N hparen N ideographiciterationmark N hsuperior N ideographiclaborcircle N hturned N ideographiclaborparen N huhiragana N ideographicleftcircle N 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 Νi 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 icvrillic N ideographicsuperviseparen N idblgrave N ideographicwaterparen N ideographearthcircle N ideographicwoodparen N ideographfirecircle N ideographiczero N ideographicallianceparen N ideographmetalcircle N ideographiccallparen N ideographmooncircle N ideographiccentrecircle N ideographnamecircle N ideographicclose N ideographsuncircle N ideographiccomma N ideographwatercircle N ideographiccommaleft N ideographwoodcircle N ideographiccongratulationparen N ideva N ideographiccorrectcircle N idieresis N ideographicearthparen N idieresisacute N ideographicenterpriseparen N idieresiscyrillic N ideographicexcellentcircle N idotbelow N ideographicfestivalparen N iebrevecvrillic N iecyrillic N ideographicfinancialcircle N ideographicfinancialparen N ieungacirclekorean N ideographicfireparen N ieungaparenkorean

N ieungcirclekorean N iogonek N ieungkorean N iota N ieungparenkorean N iotadieresis N igrave N iotadieresistonos N iqujarati N iotalatin N iotatonos N igurmukhi N ihiragana N iparen N ihookabove N irigurmukhi N iibengali N ismallhiragana N iicyrillic N ismallkatakana N ismallkatakanahalfwidth N iideva N issharbengali N iigujarati N iigurmukhi N istroke N iimatragurmukhi N iterationhiragana N iinvertedbreve N iterationkatakana N iishortcyrillic N itilde N iivowelsignbengali N itildebelow N iivowelsigndeva N iubopomofo N iivowelsigngujarati N iucyrillic Nij N ivowelsignbengali N ikatakana N ivowelsigndeva N ikatakanahalfwidth N ivowelsigngujarati N ikorean N izhitsacyrillic N ilde N izhitsadblqravecyrillic N iluvhebrew Νj N imacron N jaarmenian N imacroncyrillic N jabengali N imageorapproximatelyequal N jadeva N imatragurmukhi N jagujarati N imonospace N jagurmukhi N increment N ibopomofo N infinity N jcaron N injarmenjan N jcircle N integral N jcircumflex N integralbottom N jcrossedtail N integralbt N jdotlessstroke N integraltop N jecyrillic N integraltp N jeemarabic N intersection N jeemfinalarabic N intisquare N jeeminitialarabic N invbullet N jeemmedialarabic N invcircle N jeharabic N invsmileface N jehfinalarabic N iocyrillic N jhabengali

N ihadeva N katahiraprolongmarkhalfwidth N jhagujarati N kaverticalstrokecyrillic N jhagurmukhi N kbopomofo N jheharmenian N kcalsquare N jis N kcaron N imonospace N kcedilla N jparen N kcircle N isuperior N kcommaaccent Nk N kdothelow N kabashkircyrillic N keharmenian N kabengali N kehiragana N kacute N kekatakana N kacyrillic N kekatakanahalfwidth N kadescendercyrillic N kenarmenian N kadeva N kesmallkatakana N kaf N koreenlandic N kafarabic N khabengali N kafdagesh N khacyrillic N kafdageshhebrew N khadeva N kaffinalarabic N khaqujarati N kafhebrew N khaqurmukhi N kafinitialarabic N khaharabic N kafmedialarabic N khahfinalarabic N kafrafehebrew N khahinitialarabic N kagujarati N khahmedialarabic N kagurmukhi N kheicoptic N khhadeva N kahiragana N kahookcyrillic N khhagurmukhi N kakatakana N khieukhacirclekorean N kakatakanahalfwidth N khieukhaparenkorean N kappa N khieukhcirclekorean N kappasymbolgreek N khieukhkorean N kapyeounmieumkorean N khieukhparenkorean N khokhaithai N kapyeounphieuphkorean N khokhonthai N kapyeounpieupkorean N kapyeounssangpieupkorean N khokhuatthai N khokhwaithai N karoriisquare N khomutthai N kashidaautoarabic N kashidaautonosidebearingarabic N khook N kasmallkatakana N khorakhangthai N kasquare N khzsquare N kasraarabic N kihiragana N kasratanarabic N kikatakana N kastrokecyrillic N kikatakanahalfwidth

| N kiroguramusquare | N lamalefhamzabelowfinalarabic |
|-----------------------------------|---|
| N kiromeetorusquare | N lamalefhamzabelowisolatedarabic |
| N kirosquare | N lamalefisolatedarabic |
| N kiyeokacirclekorean | N lamalefmaddaabovefinalarabic |
| N kiyeokaparenkorean | N lamalef $\operatorname{maddaaboveisolatedarabic}$ |
| N kiyeokcirclekorean | N lamarabic |
| N kiyeokkorean | N lambda |
| N kiyeokparenkorean | N lambdastroke |
| N kiyeoksioskorean | N lamed |
| N kjecyrillic | N lameddagesh |
| N klinebelow | N lameddageshhebrew |
| N klsquare | N lamedhebrew |
| N kmcubedsquare | N lamedholam |
| N kmonospace | N lamedholamdagesh |
| N kmsquaredsquare | N lamedholamdageshhebrew |
| N kohiragana | N lamedholamhebrew |
| N kohmsquare | N lamfinalarabic |
| N kokaithai | N lamhahinitialarabic |
| N kokatakana | N laminitialarabic |
| N kokatakanahalfwidth | N lamjeeminitialarabic |
| N kooposquare | N lamkhahinitialarabic |
| N koppacyrillic | N lamlamhehisolatedarabic |
| N koreanstandardsymbol | N lammedialarabic |
| N koroniscmb | N lammeemhahinitialarabic |
| N kparen | N lammeeminitialarabic |
| N kpasquare | N lammeemjeeminitialarabic |
| N ksicyrillic | N lammeemkhahinitialarabic |
| N ktsquare | N largecircle |
| N kturned | N lbar |
| N kuhiragana | N lbelt |
| N kukatakana | N lbopomofo |
| N kukatakanahalfwidth | N lcaron |
| N kvsquare | N lcedilla |
| N kwsquare | N lcircle |
| N l | N lcircumflexbelow |
| N labengali | N lcommaaccent |
| N lacute | N ldot |
| N ladeva | N ldotaccent |
| N lagujarati | N ldotbelow |
| N lagurmukhi | N ldotbelowmacron |
| N lakkhangyaothai | N leftangleabovecmb |
| N lamaleffinalarabic | N lefttackbelowcmb |
| N lamalefhamzaabovefinalarabic | N less |
| N lamalefhamzaaboveisolatedarabic | N lessequal |
| | |

N lxsquare N lessequalorgreater N lessmonospace N m N lessorequivalent N mabengali N lessorgreater N macron N lessoverequal N macronbelowcmb N lesssmall N macronemb N lezh N macronlowmod N lfblock N macronmonospace N lhookretroflex N macute N lira N madeva N liwnarmenian N magujarati Nli N magurmukhi N ljecyrillic N mahapakhhebrew N lladeva N mahapakhlefthebrew N llagujarati N mahiragana N llinebelow N maichattawathai N llladeva N maiekthai N llvocalicbengali N maihanakatthai N maitaikhuthai N llvocalicdeva N maithothai N llvocalicvowelsignbengali N llvocalicvowelsigndeva N maitrithai N lmiddletilde N maivamokthai N lmonospace N makatakana N lmsquare N makatakanahalfwidth N lochulathai N male N logicaland N mansyonsquare N logicalnot N magafhebrew N logicalnotreversed N mars N logicalor N masoracirclehebrew N lolingthai N masquare N longs N mbopomofo N lowlinecenterline N mbsquare N lowlinecmb N mcircle N mcubedsquare N lowlinedashed N mdotaccent N lozenge N lparen N mdotbelow N meemarabic N lslash N meemfinalarabic N lsquare N ltshade N meeminitialarabic N luthai N meemmedialarabic N lvocalicbengali N meemmeeminitialarabic N lvocalicdeva N meemmeemisolatedarabic N lvocalicvowelsignbengali N meetorusquare N lvocalicvowelsigndeva N mehiragana

N meizierasquare N molsquare N mekatakana N momathai N mekatakanahalfwidth N moverssquare N moverssquaredsquare N mem N memdagesh N mparen N memdageshhebrew N mpasquare N memhebrew N mssquare N menarmenian N mturned N merkhahehrew N mii N merkhakefulahehrew N mu1 N merkhakefulalefthebrew N muasquare N merkhalefthebrew N muchareater N mhook N muchless N mhzsquare N mufsquare N middledotkatakanahalfwidth N mugreek N middot N mugsquare N mieumacirclekorean N muhiragana N mukatakana N mieumaparenkorean N mukatakanahalfwidth N mieumcirclekorean N mieumkorean N mulsquare N mieumpansioskorean N multiply N mieumparenkorean N mumsquare N mieumpieupkorean N munahhebrew N mieumsioskorean N munahlefthebrew N mihiragana N musicalnote N mikatakana N musicalnotedbl N mikatakanahalfwidth N musicflatsign N minus N musicsharpsign N minusbelowcmb N mussquare N minuscircle N muvsquare N minusmod N muwsquare N minusplus N mvmegasquare N minute N mvsquare N miribaarusquare N mwmegasguare N mirisquare N mwsquare N mlonglegturned Νn N nabengali N mlsquare N nabla N mmcubedsquare

N mlsquare N nabengali
N mmcubedsquare N nabla
N mmonospace N nacute
N mmsquaredsquare N nadeva
N mohiragana N nagujarati
N mohmsquare N nagurmukhi
N mokatakana N nahiragana

N nakatakanahalfwidth N ninedeva N napostrophe N ninequjarati N ninegurmukhi N nasquare 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 newshegelsign N nineteenperiod N nfsquare N ninethai N ngabengali Nnj N njecyrillic N ngadeva N ngagujarati N nkatakana N ngagurmukhi N nkatakanahalfwidth N ngonguthai N nlegrightlong N nlinebelow N nhiragana N nmonospace N nhookleft N nhookretroflex N nmsquare N nieunacirclekorean N nnabengali N nnadeva N nieunaparenkorean N nieuncieuckorean N nnagujarati N nieuncirclekorean N nnagurmukhi N nieunhieuhkorean N nnnadeva N nieunkorean N nohiragana N nieunpansioskorean N nokatakana N nieunparenkorean N nokatakanahalfwidth N nonbreakingspace N nieunsioskorean N nieuntikeutkorean N nonenthai N nihiragana N nonuthai N nikatakana N noonarabic N nikatakanahalfwidth N noonfinalarabic N nikhahitthai N noonghunnaarabic N noonghunnafinalarabic N nine N ninearabic N noonhehinitialarabic N ninebengali N nooninitialarabic N ninecircle N noonjeeminitialarabic N ninecircleinversesansserif N noonjeemisolatedarabic N noonmedialarabic N nyabengali N noonmeeminitialarabic N nyadeva N noonmeemisolatedarabic N nyagujarati N noonnoonfinalarabic N nyagurmukhi N notcontains Nο 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 ocircle N notsuperset N ocircumflex N nowarmenian N nparen N ocircumflexacute N nssquare N ocircumflexdotbelow N nsuperior N ocircumflexgrave N ntilde N ocircumflexhookabove N nu N ocircumflextilde N nuhiragana N ocyrillic N nukatakana N odblacute N nukatakanahalfwidth N odblgrave N nuktabengali N odeva N nuktadeva N odieresis N odieresiscyrillic N nuktagujarati N nuktagurmukhi N odotbelow N numbersign N oe N numbersignmonospace N oekorean N numbersignsmall N ogonek N numeralsigngreek N ogonekcmb N numeralsignlowergreek N ograve N numero N oqujarati N nun N oharmenian N nundagesh N ohiragana N nundageshhebrew N ohookabove N nunhebrew N ohorn N ohornacute N nvsquare

N ohorndotbelow

N nwsquare

N ohornarave N onepersian N ohornhookabove N onequarter N ohorntilde N oneroman N ohungarumlaut N onesuperior N oi N onethai N oinvertedbreve N onethird N okatakana N oogonek N okatakanahalfwidth N oogonekmacron N okorean N oogurmukhi N olehehrew N oomatragurmukhi N omacron N oopen N omacronacute N oparen N omacrongrave N openbullet N omdeva N option N omega N ordfeminine N omega1 N ordmasculine N omegacyrillic N orthogonal N oshortdeva N omegalatinclosed N oshortvowelsigndeva N omegaroundcyrillic N omegatitlocyrillic N oslash N omegatonos N oslashacute N omgujarati N osmallhiragana N omicron N osmallkatakana N omicrontonos N osmallkatakanahalfwidth N omonospace N ostrokeacute N one N otcyrillic N onearabic N otilde N otildeacute N onebengali N onecircle N otildedieresis N onecircleinversesansserif N oubopomofo N onedeva N overline N onedotenleader N overlinecenterline N oneeighth N overlinecmb N overlinedashed N onequiarati N onegurmukhi N overlinedblwavy N onehackarabic N overlinewavy N onehalf N overscore N onehangzhou N ovowelsignbengali N oneideographicparen N ovowelsigndeva N oneinferior N ovowelsigngujarati N onemonospace Νp N onenumeratorbengali N paampssquare N oneparen N paasentosquare N oneperiod N pabengali

N pacute N pe N padeva N pecyrillic N pagedown N pedagesh N pageup N pedageshhebrew N paqujarati 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 parenleftaltonearabic 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 parenrightaltonearabic N periodcentered N parenrightinferior N periodhalfwidth N parenrightmonospace N periodmonospace N parenrightsmall N periodsmall N parenrightsuperior N perispomenigreekcmb N parenrightvertical N perpendicular N partialdiff N perthousand N paseghebrew N peseta N pashtahebrew N pfsquare N pasquare N phabengali N patah N phadeva N patah11 N phagujarati N patah1d N phagurmukhi N patah2a N phi N patahhebrew N phil N patahnarrowhebrew N phieuphacirclekorean N patahquarterhebrew N phieuphaparenkorean N patahwidehebrew N phieuphcirclekorean N pazerhebrew N phieuphkorean N pbopomofo N phieuphparenkorean N pcircle N philatin N pdotaccent N phinthuthai

N 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 proportional N pieupcirclekorean N pieupkiyeokkorean N psi N pieupkorean N psicyrillic N pieupparenkorean N psilipneumatacyrilliccmb N pieupsioskiyeokkorean N pssquare N pieupsioskorean N puhiragana N pieupsiostikeutkorean N pukatakana N pieupthieuthkorean N pvsquare N pieuptikeutkorean N pwsquare N pihiragana Nq N pikatakana N gadeva N pisymbolgreek N gadmahebrew N piwrarmenian N gafarabic N gaffinalarabic N plus N plusbelowcmb N gafinitialarabic N pluscircle N gafmedialarabic N plusminus N gamats N plusmod N gamats10 N plusmonospace N qamatsla N plussmall N gamats1c N plussuperior N gamats27 N pmonospace N gamats29 N pmsquare N qamats33 N pohiragana N gamatsde N pointingindexdownwhite N gamatshebrew N pointingindexleftwhite N gamatsnarrowhebrew N pointingindexrightwhite N gamatsgatanhebrew N pointingindexupwhite N qamatsqatannarrowhebrew N pokatakana N qamatsqatanquarterhebrew N poplathai N gamatsgatanwidehebrew N postalmark N gamatsquarterhebrew N postalmarkface N gamatswidehebrew N pparen N qarneyparahebrew N precedes N qbopomofo N prescription N gcircle

N ahook N quotedblleft N gmonospace N quotedblmonospace N qof N quotedblprime N gofdagesh N quotedblprimereversed N gofdageshhebrew N quotedblright N gofhatafpatah N quoteleft N qofhatafpatahhebrew N quoteleftreversed N qofhatafsegol N auotereversed N gofhatafsegolhebrew N quoteright N gofhebrew N quoterightn N qofhiriq N quotesinglbase N qofhirighebrew N quotesingle N gofholam N quotesinglemonospace N qofholamhebrew Νr N qofpatah N raarmenian N qofpatahhebrew N rabengali N gofgamats N racute N radeva N qofqamatshebrew N qofqubuts N radical N gofqubutshebrew N radoverssquare N aofseaol N radoverssquaredsquare N qofsegolhebrew N radsquare N gofsheva N rafe N gofshevahebrew N rafehebrew N aoftsere N ragujarati N qoftserehebrew N ragurmukhi N gparen N rahiragana N quarternote N rakatakana N rakatakanahalfwidth N qubuts N qubuts18 N ralowerdiagonalbengali N qubuts25 N ramiddlediagonalbengali N qubuts31 N ramshorn N qubutshebrew N ratio N rbopomofo N gubutsnarrowhebrew N qubutsquarterhebrew N rcaron N rcedilla N qubutswidehebrew N question N rcircle N questionarabic N rcommaaccent N questionarmenian N rdblgrave N questiondown N rdotaccent N questiongreek N rdotbelow N questionmonospace N rdotbelowmacron N referencemark N quotedbl N quotedblbase N reflexsubset

| N | reflexsuperset | N | rhosymbolgreek |
|---|----------------------|---|------------------------|
| N | registered | N | rhotichookmod |
| N | reharabic | N | rieulacirclekorean |
| N | reharmenian | N | rieulaparenkorean |
| N | rehfinalarabic | N | rieulcirclekorean |
| N | rehiragana | N | rieulhieuhkorean |
| N | rehyehaleflamarabic | N | rieulkiyeokkorean |
| N | rekatakana | N | rieulkiyeoksioskorean |
| N | rekatakanahalfwidth | N | rieulkorean |
| N | resh | N | rieulmieumkorean |
| N | reshdageshhebrew | N | rieulpansioskorean |
| N | reshhatafpatah | N | rieulparenkorean |
| N | reshhatafpatahhebrew | N | rieulphieuphkorean |
| N | reshhatafsegol | N | rieulpieupkorean |
| N | reshhatafsegolhebrew | N | rieulpieupsioskorean |
| N | reshhebrew | N | rieulsioskorean |
| N | reshhiriq | N | rieulthieuthkorean |
| N | reshhiriqhebrew | N | rieultikeutkorean |
| N | reshholam | N | rieulyeorinhieuhkorean |
| N | reshholamhebrew | N | rightangle |
| N | reshpatah | N | righttackbelowcmb |
| N | reshpatahhebrew | N | righttriangle |
| N | reshqamats | N | rihiragana |
| N | reshqamatshebrew | N | rikatakana |
| N | reshqubuts | N | rikatakanahalfwidth |
| N | reshqubutshebrew | N | ring |
| N | reshsegol | N | ringbelowcmb |
| N | reshsegolhebrew | N | ringcmb |
| N | reshsheva | N | ringhalfleft |
| N | reshshevahebrew | N | ringhalfleftarmenian |
| N | reshtsere | N | ringhalfleftbelowcmb |
| N | reshtserehebrew | N | ringhalfleftcentered |
| N | reversedtilde | N | ringhalfright |
| N | reviahebrew | N | ringhalfrightbelowcmb |
| N | reviamugrashhebrew | N | ringhalfrightcentered |
| N | revlogicalnot | N | rinvertedbreve |
| N | rfishhook | N | rittorusquare |
| N | rfishhookreversed | N | rlinebelow |
| N | rhabengali | N | rlongleg |
| N | rhadeva | N | rlonglegturned |
| N | rho | N | rmonospace |
| N | rhook | N | rohiragana |
| N | rhookturned | N | rokatakana |
| N | rhookturnedsuperior | N | rokatakanahalfwidth |
| | | | |

N roruathai N samekhdagesh N rparen N samekhdageshhebrew N rrabengali N samekhhebrew N rradeva N saraaathai N rragurmukhi N saraaethai N rreharabic N saraaimaimalaithai N rrehfinalarabic N saraaimaimuanthai N rrvocalichengali N saraamthai N saraathai N rrvocalicdeva N rrvocalicqujarati N saraethai N saraiithai N rrvocalicvowelsignbengali N saraithai N rrvocalicvowelsigndeva N rrvocalicvowelsigngujarati N saraothai N saraueethai N rtblock N sarauethai N rturned N rturnedsuperior N sarauthai N ruhiragana N sarauuthai N rukatakana N sbopomofo N rukatakanahalfwidth N scaron N rupeemarkbengali N scarondotaccent N rupeesignbengali N scedilla N ruthai N schwa N rvocalichengali N schwacyrillic N rvocalicdeva N schwadieresiscyrillic N rvocalicgujarati N schwahook N scircle N scircumflex N scommaaccent N sdotaccent N sdotbelow

N rvocalicvowelsignbengali N rvocalicvowelsigndeva N rvocalicvowelsigngujarati Ns N sabengali

N sdotbelowdotaccent N sacute N sacutedotaccent N seagullbelowcmb

N sadarabic N second

N sadeva N secondtonechinese

N sadfinalarabic N section N sadinitialarabic N seenarabic N sadmedialarabic N seenfinalarabic N seeninitialarabic N saqujarati N sagurmukhi N seenmedialarabic

N sahiragana N seaol N sakatakana N segol13 N sakatakanahalfwidth N segol1f N sallallahoualayhewasallamarabic N segol2c N samekh N segolhebrew

N shaddadammaarabic N segolnarrowhebrew N segolquarterhebrew N shaddadammatanarabic N segoltahebrew N shaddafathaarabic N segolwidehebrew N shaddafathatanarabic N seharmenian N shaddakasraarabic N shaddakasratanarabic N sehiragana 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 shaqurmukhi N semivoicedmarkkanahalfwidth N shalshelethebrew N sentisquare N shbopomofo N sentosquare N shchacyrillic N seven N sheenarabic N sevenarabic N sheenfinalarabic N sevenbengali N sheeninitialarabic N sheenmedialarabic N sevencircle N sevencircleinversesansserif N sheicoptic N sevendeva N sheael N seveneighths N shegelhebrew N sevengujarati N sheva N sevengurmukhi N sheval15 N sevenhackarabic N sheva15 N sevenhangzhou N sheva22 N sevenideographicparen N sheva2e N seveninferior N shevahebrew N sevenmonospace N shevanarrowhebrew N sevenparen N shevaquarterhebrew N sevenperiod N shevawidehehrew N sevenpersian N shhacyrillic N sevenroman N shimacoptic N shin N sevensuperior N seventeencircle N shindagesh N seventeenparen N shindageshhebrew N seventeenperiod N shindageshshindot N seventhai N shindageshshindothebrew N sfthyphen N shindageshsindot N shaarmenian N shindageshsindothebrew N shabengali N shindothebrew N shinhehrew N shacyrillic N shaddaarabic N shinshindot

N shinshindothebrew N sixteencurrencydenominatorbengali N shinsindot N sixteenparen N shinsindothebrew N sixteenperiod N shook N sixthai N sigma N slash N sigmal N slashmonospace N sigmafinal N slona N sigmalunatesymbolgreek N slongdotaccent N sihiragana N smileface N sikatakana N smonospace N sikatakanahalfwidth N sofpasughebrew N siluahebrew N softhyphen N siluglefthebrew N softsigncyrillic N similar N sohiragana N sindothebrew N sokatakana N siosacirclekorean N sokatakanahalfwidth N siosaparenkorean N soliduslongoverlaycmb N sioscieuckorean N solidusshortoverlaycmb N sioscirclekorean N sorusithai N sosalathai N sioskiyeokkorean N sioskorean N sosothai N siosnieunkorean N sosuathai N siosparenkorean N space N siospieupkorean N spacehackarabic N siostikeutkorean N spade N six N spadesuitblack N sixarabic N spadesuitwhite N sixbengali N sparen N sixcircle N squarebelowcmb N sixcircleinversesansserif N squarecc N sixdeva N squarecm N sixgujarati N squarediagonalcrosshatchfill N sixgurmukhi N squarehorizontalfill N sixhackarabic N squarekq N sixhangzhou N squarekm N sixideographicparen N squarekmcapital N sixinferior N squareln N sixmonospace N squarelog N squaremg N sixparen N sixperiod N squaremil N sixpersian N squaremm N sixroman N squaremsquared N sixsuperior N squareorthogonalcrosshatchfill N sixteencircle N squareupperlefttolowerrightfill

N squareupperrighttolowerleftfill N tahinitialarabic N squareverticalfill N tahiragana N squarewhitewithsmallblack N tahmedialarabic N srsquare N taisvouerasquare N ssabengali N takatakana N takatakanahalfwidth N ssadeva N ssagujarati N tatweelarabic N ssangcieuckorean N tau N ssanghieuhkorean N tav N ssangieungkorean N tavdages N ssangkiyeokkorean N tavdagesh N ssangnieunkorean N tavdageshhebrew N ssangpieupkorean N tavhebrew N ssangsioskorean N tbar N ssangtikeutkorean N tbopomofo N sterling N tcaron N sterlingmonospace N tccurl N tcedilla N strokelongoverlaycmb N tcheharabic N strokeshortoverlaycmb N tchehfinalarabic N subset N subsetnotequal N tchehinitialarabic N subsetorequal N tchehmedialarabic N succeeds N tchehmeeminitialarabic N suchthat N tcircle N suhiragana N tcircumflexbelow N sukatakana N tcommaaccent N sukatakanahalfwidth N tdieresis N sukunarabic N tdotaccent N summation N tdotbelow N sun N tecyrillic N superset N tedescendercyrillic N supersetnotequal N teharabic N supersetorequal N tehfinalarabic N tehhahinitialarabic N sysquare N tehhahisolatedarabic N syouwaerasquare Νt N tehinitialarabic N tabengali N tehiragana N tackdown N tehjeeminitialarabic N tackleft N tehjeemisolatedarabic N tadeva N tehmarbutaarabic N tagujarati N tehmarbutafinalarabic N tagurmukhi N tehmedialarabic N taharahic N tehmeeminitialarabic N tahfinalarabic N tehmeemisolatedarabic

| 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 | ${\sf N}$ 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 threegurmukhi |
| N thabengali | N threehackarabic |
| N thadeva | N threehangzhou |
| N thagujarati | N threeideographicparen |
| N thagurmukhi | N threeinferior |
| N thalarabic | N threemonospace |
| N thalfinalarabic | N threenumeratorbengali |
| N thanthakhatthai | N threeparen |
| N theharabic | N threeperiod |
| N thehfinalarabic | N threepersian |
| N thehinitialarabic | N threequarters |
| N thehmedialarabic | N threeroman |
| N thereexists | N threesuperior |
| N therefore | N threethai |
| N theta | N thzsquare |
| N thetal | N tihiragana |
| N thetasymbolgreek | N tikatakana |
| N thieuthacirclekorean | N tikatakanahalfwidth |
| N thieuthaparenkorean | N tikeutacirclekorean |
| N thieuthcirclekorean | N tikeutaparenkorean |
| N thieuthkorean | N tikeutcirclekorean |
| N thieuthparenkorean | N tikeutkorean |
| N thirteencircle | N tikeutparenkorean |
| N thirteenparen | N tilde |
| N thirteenperiod | N tildebelowcmb |
| | |

N tildecmb N ts N tildecomb N tsadi N tildedoublecmb N tsadidagesh N tildeoperator N tsadidageshhebrew N tildeoverlaycmb N tsadihebrew N tildeverticalcmb N tsecyrillic N timescircle N tsere N tipehahebrew N tsere12 N tipehalefthebrew N tserele N tippigurmukhi N tsere2h N titlocvrilliccmb N tserehebrew N tiwnarmenian N tserenarrowhebrew N tlinebelow N tserequarterhebrew N tmonospace N tserewidehebrew N toarmenian N tshecyrillic N tohiragana N ttabengali N tokatakana N ttadeva N tokatakanahalfwidth N ttagujarati N tonebarextrahighmod N ttagurmukhi N tonebarextralowmod N tteharabic N tonebarhighmod N ttehfinalarabic N tonebarlowmod N ttehinitialarabic N tonebarmidmod N ttehmedialarabic N tonefive N tthabengali N tonesix N tthadeva N tonetwo N tthagujarati N tonos N tthagurmukhi N tonsquare N tturned N topatakthai N tuhiragana N tortoiseshellbracketleft N tukatakana N tortoiseshellbracketleftsmall N tukatakanahalfwidth N tortoiseshellbracketleftvertical N tusmallhiragana N tortoiseshellbracketright N tusmallkatakana N tusmallkatakanahalfwidth N tortoiseshellbracketrightsmall N twelvecircle N tortoiseshellbracketrightvertical N totaothai N twelveparen N tpalatalhook N twelveperiod N tparen N twelveroman N trademark N twentycircle N tretroflexhook N twentyparen N triagdn N twentyperiod N triaglf N two N twoarabic N triagrt N triagup N twobengali

N twocircle N udothelow N twocircleinversesansserif N ugrave N twodeva N ugujarati N twodotenleader N ugurmukhi N twodotleader N uhiragana N twodotleadervertical N uhookabove N twoquiarati N uhorn N twoqurmukhi N uhornacute N uhorndotbelow N twohackarabic N twohangzhou N uhorngrave N twoideographicparen N uhornhookabove N uhorntilde N twoinferior 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 umacroncvrillic N twothirds N umacrondieresis Νu N umatragurmukhi N uacute N umonospace N ubar N underscore N ubengali N underscoredbl N ubopomofo N underscoremonospace N ubreve N underscorevertical N ucaron N underscorewavy N ucircle N union N ucircumflex N universal N ucircumflexhelow N uogonek N ucyrillic N uparen N udattadeva N upblock N udblacute N upperdothebrew N udblgrave N upsilon N upsilondieresis N udeva N upsilondieresistonos N udieresis N udieresisacute N upsilonlatin N udieresisbelow N upsilontonos N udieresiscaron N uptackbelowcmb N udieresiscyrillic N uptackmod N udieresisgrave N uragurmukhi N udieresismacron N uring

N ushortcvrillic 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 utildeacute N viramahengali N utildebelow N viramadeva N uubengali N viramaqujarati N uudeva N visargabengali N uugujarati N visargadeva N uugurmukhi N visarqaqujarati N uumatragurmukhi N vmonospace N uuvowelsignbengali N voarmenian N uuvowelsigndeva N voicediterationhiragana N uuvowelsigngujarati N voicediterationkatakana N voicedmarkkana N uvowelsignbengali N voicedmarkkanahalfwidth N uvowelsigndeva N uvowelsigngujarati N vokatakana N vparen N vadeva N vtilde N vturned N vagujarati N vagurmukhi N vuhiragana N vakatakana N vukatakana N vav Νw N vavdagesh N wacute N vavdagesh65 N waekorean N vavdageshhebrew N wahiragana N vavhebrew N wakatakana N wakatakanahalfwidth N vavholam N vavholamhebrew N wakorean N vavvavhebrew N wasmallhiragana N vavyodhebrew N wasmallkatakana N vcircle N wattosquare N vdotbelow N wavedash N vecyrillic N wavyunderscorevertical N veharabic N wawarabic N vehfinalarabic N wawfinalarabic N vehinitialarabic N wawhamzaabovearabic N vehmedialarabic N wawhamzaabovefinalarabic

previous 135 next

N wbsquare

N wcircle

N wcircumflex

N vekatakana

N verticalbar

N venus

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 Nx N weokorean N xahovecmb N wgrave N xbopomofo N whitehullet 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 Νy

N whitedownpointingsmalltriangle N yaadosquare N whitedownpointingtriangle N yabengali N whiteleftpointingsmalltriangle N vacute N whiteleftpointingtriangle N yadeva N whitelenticularbracketleft N yaekorean N whitelenticularbracketright N yaqujarati N whiterightpointingsmalltriangle N yagurmukhi N whiterightpointingtriangle N yahiragana N whitesmallsquare N yakatakana

N whitesmilingface N yakatakanahalfwidth N whitesquare N yakorean N whitestar N yamakkanthai

N whitetelephone N yasmallhiragana N whitetortoiseshellbracketleft N yasmallkatakana

N whiteuppointingsmalltriangle N yatcyrillic N whiteuppointingtriangle N ycircle N wihiragana N ycircumflex N wikatakana N ydieresis

N whitetortoiseshellbracketright

N wikorean N ydotaccent N wmonospace N ydotbelow N wohiragana N yeharabic

N wokatakana N yehbarreearabic N wokatakanahalfwidth N yehbarreefinalarabic

N yehfinalarabic N won

N wonmonospace N yehhamzaabovearabic

N yasmallkatakanahalfwidth

N vehhamzaabovefinalarabic N vosmallkatakanahalfwidth 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 vehnoonfinalarabic N ypogegrammeni N yehthreedotsbelowarabic N ypogegrammenigreekcmb N yekorean Nyr 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 yusbiqcyrillic N yesieungsioskorean N yusbigiotifiedcyrillic N yetivhebrew N yuslittlecyrillic N yuslittleiotifiedcyrillic N ygrave N yusmallhiragana N yhook N yhookabove N yusmallkatakana N yiarmenian N yusmallkatakanahalfwidth N yicyrillic N yuyekorean N yikorean N yuyeokorean N yyabengali N yinyang N yiwnarmenian N yyadeva N ymonospace Νz N yod N zaarmenian N yoddagesh N zacute N zadeva N yoddageshhebrew N yodhebrew N zagurmukhi N yodyodhebrew N zaharabic N zahfinalarabic N yodyodpatahhebrew N zahinitialarabic N yohiragana N yoikorean N zahiragana N yokatakana N zahmedialarabic N yokatakanahalfwidth N zainarabic N yokorean N zainfinalarabic N zakatakana N yosmallhiragana N yosmallkatakana N zagefgadolhebrew

| N | zaqefqatanhebrew | N zlinebelow | |
|---|----------------------|------------------|------------|
| N | zarqahebrew | N zmonospace | |
| N | zayin | N zohiragana | |
| N | zayindagesh | N zokatakana | |
| N | zayindageshhebrew | N zparen | |
| N | zayinhebrew | N zretroflexhook | |
| N | zbopomofo | N zstroke | |
| N | zcaron | N zuhiragana | |
| N | zcircle | N zukatakana | |
| N | zcircumflex | N version | |
| N | zcurl | enhanceid | function |
| N | zdot | expansions | data table |
| N | zdotaccent | formats | data table |
| N | zdotbelow | getalternate | function |
| N | zecyrillic | getdiscexpansion | function |
| N | zedescendercyrillic | getkern | function |
| N | zedieresiscyrillic | getmultiple | function |
| N | zehiragana | getsubstitution | function |
| N | zekatakana | getters | table |
| N | zero | T alternate | |
| N | zeroarabic | F opentype | |
| N | zerobengali | T kern | |
| N | zerodeva | F opentype | |
| N | zerogujarati | F typel | |
| N | zerogurmukhi | T multiple | |
| N | zerohackarabic | F opentype | |
| N | zeroinferior | T substitution | |
| N | zeromonospace | F opentype | |
| N | zeropersian | goodies | table |
| N | zerosuperior | D colorschemes | |
| N | zerothai | T data | |
| N | zerowidthjoiner | T dejavu-math | |
| N | zerowidthnonjoiner | S author | |
| N | zerowidthspace | S comment | |
| N | zeta | S copyright | |
| N | zhbopomofo | B initialized | |
| N | zhearmenian | T mathematics | |
| N | zhebrevecyrillic | T alternates | |
| N | zhecyrillic | T dotless | |
| N | zhedescendercyrillic | S comment | |
| N | zhedieresiscyrillic | S feature | |
| N | zihiragana | N value | |
| N | zikatakana | T kerns | |
| N | zinorhebrew | S name | |
| | | | |

| S version | | F checl | kflags | |
|---|-------|---|--|--|
| D designsizes | | F checl | | |
| D filenames | | F checl | ksteps | |
| F getcompositions | | F descriptiontoslot | | |
| T list | | F dime | nfactor | |
| F load | | F expandglyph | | |
| F prepare_features | | F font | patternhassize | |
| F register | | F getco | oloredglyphs | |
| F registerpostproc | essor | F getd: | igitwidth | |
| F report | | F geti | nstancespec | |
| T suffixes | | F getpa | arameters | |
| handlers | table | F getp | rivatecharornode | |
| hashes | table | F getp | rivatenode | |
| D characters | | F getp | rivates | |
| D classes | | F getp | rivateslot | |
| D csnames | | F hasp | rivate | |
| D descriptions | | F index | xtoslot | |
| D dynamics | | F name | | |
| D emwidths | | F name | toslot | |
| D exheights | | F setd: | igitwidth | |
| D extensibles | | F spli | tfontpattern | |
| D features | | F tochar | | |
| | | | | |
| D identifiers | | infofont | function | |
| D identifiers D italics | | infofont iterator | | |
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| D italics D lastmathids | | iterator F chara | rs table acters | |
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| D italics D lastmathids D marks D modes | | iterator F chara F desc F glypl loggers | rs table acters riptions | |
| D italics D lastmathids D marks D modes D originals | | iterator F chara F desci F glypi loggers F add_i | rs table acters riptions hs table | |
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| D italics D lastmathids D marks D modes D originals D parameters T processes D properties D quads D resources T setdynamics T shapes D spaces D spacings T streams D unicodes D variants | | iterator F chara F descr F glypt loggers F add_I D cated F forma F onet: F regis F repoi F repoi mappings F addto F from F load | table acters riptions hs table placeholders gory_to_placeholder at immemessage ster rtdefinedfonts rtusedfeatures table punicode unicode line | |
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| S name | F widthline | |
|---------------------------|-------------------------------|------------|
| T unicode | F zeroline | |
| T f_f | mp | table |
| N mess | D cache | |
| S name | B inline | |
| T unicode | N version | |
| T f_f_i | names | data table |
| N mess | nulldata | data table |
| S name | protrusions | data table |
| T unicode | readers | table |
| T f_f_l | F afm | cabic |
| N mess | F check_lua | |
| S name | F check_tfm | |
| T unicode | F lua | |
| T f_i | F ofm | |
| N mess | | |
| S name | F opentype F otf | |
| T unicode | F pfb | |
| | D sequence | |
| T f_j S name | F tfm | |
| | | |
| T unicode | F ttc F ttf | |
| T f_k | F tti | |
| S name | reserveid | function |
| T unicode | select | table |
| T f_l | | table |
| N mess | D alternatives | |
| S name | F bodyfont | |
| T unicode | D data | |
| T i_j | F default | |
| N mess | D defaults | |
| S name | F definefallbackf | |
| T unicode F reset | F definefontfamil | - |
| | F definefontfamil D extras | ypreset |
| F tounicode F tounicode16 | F fallback | |
| F tounicodel6sequence | | |
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| F draw | F fontfallback | |
| F fill | F fontsynonym | |
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| F registerfontfamily | T emoji | |
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| F userdata | tables table | |
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| D contextsetups | F applyfixes | |
| F contexttostring | D data | |
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| F presetcontext | F report | |
| F registercontext | F trace | |
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typefaces

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dummy function

graphics (context)

backgrounds table

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F pair

F path

F point

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|-------|----------|--------|----------|
| lines | function | save | function |
| load | function | suffix | function |

img (basic tex)

| boxes | function | ofindex | function |
|----------------|----------|-----------|----------|
| check | function | package | function |
| checksize | function | print | function |
| clone | function | scan | function |
| сору | function | serialize | function |
| immediatewrite | function | totable | function |
| keys | function | types | function |
| new | function | write | function |
| node | function | | |

interactions (context)

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interfaces (context)

| addvalidkeys | function | F MPpardata |
|--------------------------|------------|-----------------------------|
| cachedsetups | data table | F MPplus |
| cachesetup | function | F MPpos |
| checkedspecification | function | F MPposset |
| complete | data table | F MPr |
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| defined | function | F MPwhd |
| doifelsemessage | function | F MPx |
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| getcheckedparameters | function | F MPy |
| getmessage | function | F Romannumerals |
| getnamespace | function | F abjadnodotnumerals |
| getsetupstring | function | F abjadnumerals |
| hashedsetups | data table | F adaptfontfeature |
| implement | function | F addcounter |
| interfacedcommand | function | F addfeature |
| interfaces | table | F addgrapheme |
| invalidkey | function | F addlinklistelement |
| message | function | F addreplacements |
| namespaces | table | F addtocolumnset |
| F define | | F addtojavascriptpreamble |
| F list | | F addtolist |
| registernamespace | function | F addvalidinterfacekeys |
| scanners | table | F allinputpaths |
| F Alphabetic | | F alphabetic |
| F Character | | F analysefloatmethod |
| F Characters | | F analyzeitemgroup |
| F MPLIBconvertoutlinetex | t | F analyzelist |
| F MPc | | F analyzeregister |
| F MPd | | F applypattern |
| F MPh | | F applytobox |
| F MPll | | F applytofirstcharacter |
| F MPlr | | F assignbuffer |
| F MPls | | F autofinishstructurelevels |
| F MPn | | F autonextspace |
| F MPp | | F autonextstructurelevel |
| | | |

F autosetups F btxhandlenocite F autostarttext F btxlastofrange F autostoptext F btxlistvariant F averagecharwidth F btxloaddefinitionfile F bitmapimage F btxloadjournallist F blockcolumnset F btxloadreplacementfile F blockligatures F btxoneorrange F btxpreparelistentries F boxtostrina F bposcolumn F btxremapauthor F bposcolumnregistered F htysavedataset F btxabbreviatediournal F btxsaveiournallist F btxaddentrv F btxsetdataset F btxaddjournal F btxsetentry F btxauthor F btxsetregister F btxauthorfield F btxsetspecification F btxauthortoregister F btxsingularorplural F btxcollectlistentries F btxtoregister F htxcurrentfirstnames F btxusedataset F htxuservariable F btxcurrentinitials 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 checkedemoji F btxdoifelsesameasprevious F checkedpagefloat F btxdoifelseuservariable F checkinjector F btxdoifnot F checkinterfacechain F btxexpandedjournal F checktwopassdata F htxfetchlistentries F chemicalcomponent F btxfield F chinesenumerals F cleanfontname F btxfieldname F btxfieldtype F cleanupbox F btxfirstofrange F cleanuplayers F clonefield F btxflush F btxflushlistcombi F collectfloat F btxflushlistentrv F collecthelp F btxflushmarked F colorcomponents F btxflushpages F columnsetcurrentcolumn

F btxfoundname F columnsetgoto
F btxfoundtype F txhandlecite F concatcommalist

F consultfloat F definefontcolorpalette F convertbtxdatasettoxml F definefontfamily F converteddimen F definefontfamilypreset F convertmpstopdf F definefontfeature F copyboxfromcache F definefontsolution F copyposition F definehyphenationfeatures F cos F defineinsertion E defineintermediatecolor F cosd F countervalue F definelahels F counttwopassdata F definelanguage F currentcomponent F definelinefiller F definelinkedlist F currentdate F currentdesignsize F definemarking F currentenvironment F definemetafont F definemultitonecolorglobal F currentfontinstancespec F currentposthyphenchar F definenamespace F currentprehyphenchar F definenote F defineparallel F currentproduct F defineparbuilder F currentproject F currentreferenceorder F defineprocesscolordummy F currentsectiontolist F defineprocesscolorglobal F datasetvariable F defineprocesscolorlocal F defineprogram F dayname F decimals F definereference F decrement counter F defineregister F decrementedcounter F definerule F definesectionlevels F decrementsubcounter 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 definetwopasslist F defineconversion F definecounter F definetypeface F defineviewerlayer F definedlayoutcomponent F definefallbackfamily F depthnumber F definefield F digits normal F definefieldset F digits reverse F definefilefallback F directboxfromcache F definefilesynonym F directcopyboxfromcache F disableautofontscript F definefont one F definefont two F disabledirectives

F disableexperiments F doifelseparallel F disableiobsave F doifelseparentfile F disableparbuilder F doifelsepathexist F disableregime F doifelseposition F disablespellchecking F doifelsepositiononpage F disablestatetriggering F doifelsepositionsonsamepage F disablestream F doifelsepositionsonthispage F disabletrackers F doifelsepositionsused F discardfromlist F doifelserangeonpage F doanalyzeframedbox F doifelsereference F doifcommon F doifelserighttoleftinbox F doifcounter F doifelsesame F doifelseblack F doifelsestackedfloats F doifelseboxincache F doifelsesvnonvmshown F doifelsebuffer F doifelsesynonymused F doifelsecharinfont F doifelseurldefined F doifelsecommon F doifelseutfmathabove F doifelsecontinuewithfile E doifelseutfmathaccent F doifelseconverter F doifelseutfmathbelow F doifelsecounter F doifelseutfmathfiller F doifelsecurrentfonthasfeature F doifelseutfmathlimop F doifelsedrawingblack F doifelsevisualizer F doiffieldsetelse F doifelsefieldcategory F doifelsefiledefined F doifinset F doifelsefileexist F doifnotcommon F doifelsefirstchar F doifnotcounter F doifelsefontpresent F doifnotecontent F doifelseinelement F doifnoteonsamepageasprevious F doifelseinputfile F doifnotinset F doifelseinset F doifnotsame F doifelseintwopassdata F doifposition F doifelseleapyear F doifsame F doifelselisthasentry F doprocesstypescriptfile F doifelselisthasnumber F doreshapeframedbox F doifelselisthaspage F dosaveposition F doifelselisthastitle F dosavepositionplus F doifelselocfile F dosavepositionwhd F doifelsemarkedpage F dosetposition F doifelsemarking F dosetpositionbox F doifelsemessage F dosetpositionplus F doifelseobject F dosetpositionstrut F doifelseobjectreference F dosetpositionstrutkind F doifelseolderversion F dosetpositionwhd

F dostarttextfile

F doifelseoverlapping

F dostoptextfile F fetchmultipar F elapsedtime F fetchonemark F enableasciimode F fetchposboxes F enableautofences F fetchtwomarks F enableautofontscript F figure check F enablebackgroundalign F figure done F enablebackgroundboxes F figure dummy F enablecolor F figure_flush_registered_pages F enablecolorintents F figure identify F enablecrlf F figure include F enabledirectives F figure mergegoodies F enableexperiments F figure nof registered pages F enablefontcolorschemes F figure pop F enableinteraction F figure push F enablelinefillers F figure register page F enableparbuilder F figure_reset F enableregime F figure_scale F enablerules F figurefilename F enableshifts F figurefilepath F enablespellchecking F figurefiletype F enablestatetriggering F figurerequest F enablestream F figuresetdimensions F enabletrackers F figurestatus F enabletransparency F figureused F enableutf F filterdefaultreference F enhancelinkedlist F filterreference F enhancelist F finalizebox F enhancereference F findregisterinternal F enhanceregister F findtwopassdata F eposcolumn F finishcolumnsetflush F eposcolumnregistered F finishexport F erasebuffer E 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 flushstream F getmathdomain F flushstreamcopy F getmathitalics F fontchar F getmessage F fontcharbvindex F getmpextensions F fontcollectionclone F getnaturaldimensions F fontcollectiondefine F getnaturalwd F fontcollectionprepare F getnotestate F getobjectdimensions F fontcollectionregister F fontcollectionreport F getobjectreference F fontcollectionreset F getobjectreferencepage F fontlookupgetkev F getprivatechar F fontlookupgetkeyofindex F getprivateglyphslot F fontlookupinitialize F getprivatemathchar F fontlookupnoffound F getprivateslot F forceendjob F getprogram F forcequitjob F getrandomdimen F formatcolor F getrandomfloat F formatoray F getrandomnumber F getrandomseed F from F frule F getreadfilename F aetbidimode F getsetupstring F getbodyfontsizes F getsomefullstructurenumber F getboxfromcache F getsomestructurenumber F getbuffer F getspecificstructuretitle F getbuffercontent F getstructurelevel F getbufferctxlua F getstructurenumber F getbuffermkvi F getsubstring F getcheckedinterfaceparameters F gettexbuffer F getcurrentprefixspec F gettwopassdata F getcurrentreferencemetadata F gettwopassdatalist F getdefaultfieldvalue F geturl F getdocumentargument F getvisual F getdocumentfilename F hhoxtovhox F getelementtag F helpaction F getfieldcategory F helpreference F getfile F hexstringtonumber F horizontalcode F getfirstcharacter F getfirsttwopassdata F hour F getfloatvariable F hyphenatedlist F getfullstructurenumber F hyphenatedurl F getinternalcachedlistreference F immediatemessage F getinternallistreference F incrementcounter

F getlasttwopassdata F getmarking F incrementedcounter

F incrementsubcounter

F initializeexport F listsize F initializejob F listtitle F initializemathcollapsing F listuserdata F initializemathdomain F loadexamodes F initializemathitalics F loadfontgoodies F initializemathkernpairs F loadluamodule F initializestream F loadmapfile F initializetexdirectives F loadmapline F initializetextrackers F loadspellchecklist F loadtypescriptfile F injectcurrentreference 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_adddocumentextgstate 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 iobfilefullname F lpdf color F luascript F jobfilename F jobfilesuffix F luathread F lxmlid F languagenumber F lastcountervalue F markcontent F lastlinewidth F markingnumber F lastsubcountervalue F markingtitle F 1chexnumber F markinjector F lchexnumbers F markpage F leapyear F markregionbox F linenumbersstageone F markregionboxcorrected F linenumbersstagetwo F markregionboxtagged F listgroupindex F markregionboxtaggedkind F listlabel F markvisualfonts F listlocation F mathfraction F listnamespaces F mathrenderset F listprefixednumber F message F listprefixedpage F metapostescaped

F metapostformatted

F listrealpage

F metapostgraphformat F noteinternal F minute F notelistindex F mixcleanup F noteprefixednumber F mixfinalize F notetitle F mixflushlist F ntimes F mixflushrest F number F mixaetsplit F numbers F mixsetsplit Foctnumber F mixstate F octstringtonumber F molecule F operatingsystem F month F ordinal F monthmnem F outputfilename F monthname F overloadbookmark F mpcolor F overloaderror F mpflushliteral F overloadlowercase F mpflushreset F overloaduppercase F mpgettext F pageofinternal F mpgraphic F pagestaterealpage F mpoptions F parpos F mppopvariables F pdfannot F mppushvariables F pdfdest F mprunset F pdfrotation F pdfstartmatrix F mpruntab F pdfstartmirroring F mprunvar F mpsetclippath F pdfstartrotation F mpsetoutercolor F pdfstartscaling F pdfstopmatrix F mpsetsxsy F mpsettext F pdfstopmirroring F pdfstoprotation F mptexget F mptexreset F pdfstopscaling F mptexset F percentageof F mptexsetfrombuffer F pgfxcolorspec F namedstructureuservariable F pickupbuffer F namedstructurevariable F pickupmarkedcontent F naturalwd F pickuppunctuation F nbfs F placeparallel F popfloat F negatedcolorcomponent F nextcountervalue F pophyphenation F nextparallel F popitaliccorrection F nextsubcountervalue F poplist F nofconversions F poppath F nofdays F poprandomseed

F nofstackedfloats

F notedeltapage

F popreferenceprefix

F popregime

F popsectionblock F referencerealpage F registerattachment F postponenotes F prefixedconverted F registerbackendsymbol F prepareMPvariable F registerbackground F preparecolumnsetflush F registerbodyfontsize F presetmathalternate F registerbookmark F presetsymbollist F registerbuttons F presettabulate F registercolorintent F previouscountervalue F registercolumnsetarea F registeredviewerlayer F previoussubcountervalue F processbodyfontsizes F registerfigurepattern F processbuffer F registerfiguresuffix F processcolorcomponents F registerfontalternative F processedfile F registerfontfallbackid F processedfiles F registerfontfamily F processfile F registerhelp F processfilemany F registerhyphenationexception F processfilenone F registerhyphenationpattern F processfileonce F registeritemgroup F processiob F registerlanguagefeatures F processlist F registerlinenumbering F processregister F registermaintextcolor F registermpyfile F processsplit F registernamedlua F processsynonyms 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 rawsetupstring F replacepospxywhd F reportstructure F rawsubcountervalue F referencepagedetail F resavefloat

F resetboxesincache

F referencepagestate

F resetcharacteralign F savedlistnumber F resetcolumnset F savedlistprefixednumber F resetcounter F savedlisttitle F reseteffect F savefloat F resetfeature F savefont F resetfontfeature F savemargindata F resetfontsolution F savenote F resetiniector F savepagedata F resetitaliccorrection F savepageinjections F resetmapfiles F saveparallel F resetmarking F savespecificfloat F resetmathattributes F savestructureblock F resetmathhang F savetaggedtwopassdata F resetmathitalics F savetwopassdata F resetnullfont F savevariable F resetparallel F second F resetpath F selectstructureblock F resetprevdepth F setactivecatcodes F resetreference F setbreakpoints F resetscript F setcharacteralign F resetshownsvnonvms F setcharactercasing F resetstructureprocessor F setcharactercleaning F resetsubcounter F setcharacterkerning F resettimer F setcharacterspacing F resettrackers F setcharacterstripping F resetusedsynonyms F setclosedocumentaction F resolvedemoji 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 runcontextiob F setdocumentctxfile F safechar F setdocumentdefaultargument F savebuffer F setdocumentenvironments F savecounter F setdocumentfilename

F setdocumentfilenames

F savecurrentattributes

F setdocumentmodes F setmathhang F setdocumentmodules F setmathitalics F seteffect F setmathpenalties F setelementuserproperties F setmathstyle F setextrafontkerns F setmpextensions F setfieldcalculationset F setnaturalwd F setfigurelookuporder F setnegative F setfigurepaths F setnextinternal reference F setfirstline F setnextreferenceorder F setfontfeature F setnotestate F setfontofid F setopendocumentaction F setfontsolution F setopenpageaction F setformat F setowncounter F setformsmethod F setownsubcounter F sethsizecolumnset F setpagecolormodel F sethsizecolumnspan F setpagestate F sethyphenatedurlcharacters F setpagestaterealpageno F sethyphenationfeatures F setpagetransition F sethyphenationmethod F setparbuilder F setinitial F setpdfcompression F setinitialsectionblock F setprofile F setiniector F setrandomseed F setinnerreferencemethod F setrealign F setinsertionlocation F setrealspaces F setinterfaceconstant F setreferencearguments F setinterfaceelement F setreferenceoperation F setinterfacemessage F setregionbox F setinterfacemessages F setregionboxtagged F setinterfacevariable F setregistermethod F setinternalreference F setreplacements F setitaliccorrection F setruby F setjavascriptpreamble F setscript F setjobcomment F setsectionblock F setlanguageexceptions F setsectionentry F setlanguagesynonym F setstructureblockstate F setlettercatcodes F setstructurelevel F setmapfile F setstructurenumber F setmapline F setsubcounter F setmarking F settagaspect F setmathalphabet F settagcombination F setmathalternate F settagconstruct F setmathattribute F settagdelimitedsymbol

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F settagfigure

F settaggedmetadata

F setmathdirection

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F settaghighlight F showiustification F settagitem F showlogcategories F settagitemgroup F showmessage F settaglist F showtrackers F settagnotation F sin F settagnotationsymbol F sind F settagproperty F spaceddigits F specifiedfont F settagproperty b F settagproperty n F specifiedfontsize F specifiedfontspec F settagregister F settagsorting F splitfilename F settagsubsentencesymbol F spotcolorname F settagsynonym F spotcolorparent F settagtablecell F spotcolorvalue F settagtabulatecell F startactualtext F setupbookmarks F startchemical F setupcanvas F startcolorset F setupcharacterspacing F startcomponent F startenvironment F setupexport F setupfontexpansion F startfontsolution F setupfontprotrusion F startparbuilder F setupidentity F startproduct F setupinsertion F startproject F setupitaliccorrection F startregime F setuplinenumbering F startruby F setupsynctex F startsectionlevel F setuserinterface F startstream F setvalidinterfacekeys F starttag F setvisual F starttag c F setvisualfont F starttag d F setvisuallayer F starttag u F setvisuals F starttext F setysizecolumnset F startviewerlayer F setxmpfile F step F showassignerror F stopactualtext F showattributes F stopchemical F showcounter F stopcolorset F showdebuginfo F stopcomponent F showdirectives F stopenvironment F showdiscretionaries F stopfontsolution F showexperiments F stopparbuilder F stopproduct F showhyphenatedinlist F showhyphenationtrace F stopproject

F stopregime

F showinjector

F stopsectionlevel F textime F stopstream F thefirstcharacter F themaxboxwidth F stoptag F theremainingcharacters F stoptext F stopviewerlayer F tochar F storejavascriptcode F transparencycomponents F storejavascriptpreamble F triggerpagebuilder E truefilename F storenote F storeregister F truefontname F strdp F type F strhd F typebuffer F strht F typefile F strip F typesetbuffer F structureautocatcodedget F uchar F structurecatcodedget F uchexnumber F structuregivencatcodedget F uchexnumbers F structurenumber F undefinechemical F unicodechar F structuretitle F structureuservariable F unihex F structurevariable F unit normal F strwd F unit reverse F subcountervalue F unloadlanguage F subcountervalues F upper F subsubcountervalues F useMPlibrary F subtractfeature F useanvfile F synccolor F useanvfileonce F usecldfile F synccolorclone F usecldfileonce F synccolorcount F usecolors F synchronizemarking F synchronizestream F usecomponent F synctexblockfilename F useenvironment F synctexpause F usefigurebase F synctexresetfilename F usefile F synctexresume F usejavascriptpreamble F synctexsetfilename F usejavascriptscripts F synonymmeaning F useluafile F useluafileonce F synonymname F useluamodule F systemlog F tagmfunctionlab F usemodules F tagmfunctiontxt F usepath F tan F useproduct F useproject F tand F usesubpath F texdefinition one F texdefinition two F usesymbols

Fusetexfile F x table set reflow width F usetexfileonce F xmladdindex F xmlaftersetup F useurl F usexmlfile F xmlall F usexmlfileonce F xmlappendsetup F usezipfile F xmlapplyselectors F utfchar F xmlatt F utfmathclass F xmlattdef F utfmathcommand F xmlattribute F utfmathcommandabove F xmlattributedef F utfmathcommandbelow F xmlbadinclusions F utfmathcommandfiller F xmlbeforesetup F utfmathfiller F xmlchainatt F utfmathstretch F xmlchainattdef F xmlchecknamespace F vboxlisttohbox F verbose F xmlcommand F vspacing F xmlconcat F vspacingcollapse F xmlconcatrange F vspacingcollapseonly F xmlcontext F vspacingdefine F xmlcount F vspacingsetamount F xmldelete F vspacingsnap F xmldirect F xmldirectives F way F xmldirectivesafter F weekday F weekdavname F xmldirectivesbefore F writestatus F xmldisplayverbatim F xmldoif F x_table_c 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 xmldoifnotempty F x_table_init_reflow_height F x_table_init_reflow_height_option F xmldoifnotselfempty F x table init reflow width F xmldoifnottext F x_table_init_reflow_width_option F xmldoifselfempty F x_table_next_row F xmldoiftext F xmlelement F x_table_next_row_option 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 xmlflushlinewise F xmlsetcommandtonone F xmlflushpure F xmlsetcommandtotext F xmlflushsetups F xmlsetentity F xmlflushspacewise F xmlsetinjectors F xmlflushtext F xmlsetsetup F xmlfunction F xmlsnippet F xmlaetindex F xmlstartraw F xmlinclude F xmlstarttiming F xmlincludeoptions F xmlstopraw F xmlinclusion F xmlstoptiming F xmlinclusionbase F xmlstrip F xmlinclusions F xmlstripanvwhere F xmlindex F xmlstripnolines F xmlinlineverbatim F xmlstripped F xmlinstalldirective F xmlstrippednolines F xmllast F xmltag F xmllastatt F xmltexentity F xmllastmatch F xmltext F xmlload F xmltobuffer F xmlloadbuffer F xmltobuffertextonly F xmlloaddata F xmltobufferverbose F xmlloaddirectives F xmltofile F xmlloadentities F xmltoparameters F xmlmain F xmlverbatim F xmlmatch F xmlwithindex F xmlname F vear function setconstant F xmlnamespace setcount function F xmlnonspace F xmlpath setdimen function setelement function F xmlpopmatch setformat function F xmlpos function F xmlprependsetup setmacro F xmlpure setmessage function setmessages function F xmlpushmatch settranslation function F xmlraw setupstrings data table F xmlrawtex F xmlrefatt setuserinterface function setvalidkeys function F xmlregisterns setvariable function F xmlremapname showmessage function F xmlremapnamespace F xmlremovesetup storedscanners data table F xmlresetinjectors strings table syntax data table F xmlresetsetups tolist function F xmlsave

| translations | data table | writestatus | function |
|----------------|------------|-------------|----------|
| usednamespaces | data table | | |
| variables | data table | | |

io (basic lua)

ask function
bytes function
characters function
close function
copydata function
exists function
fileseparator string
flush function

loadchunk function
loaddata function
loadlines function
noflines function

pathseparator string

function read readall function readnumber function readstring function saved lines function savedata function size function stderr userdata stdin userdata stdout userdata function tmpfile function type write function

job (context)

| comment | function | F define | |
|-------------------|------------------------------|-----------------|-------|
| datasets | datasets table F find | | |
| D collected | | F first | |
| F extend | | F get | |
| F getdata | | F getcollected | |
| F setdata | | F getdata | |
| D tobesaved | | F getfield | |
| disablesave | function | F gettobesaved | |
| fileobjreferences | table | F inlist | |
| D collected | | F last | |
| D tobesaved | | F list | |
| files | table | F save | |
| D collected | | F savetagged | |
| F context | | D tobesaved | |
| B forcerun | | positions | table |
| F run | | F b_column | |
| D tobesaved | | F b_region | |
| getrandomseed | function | Fc | |
| initialize | function | D collected | |
| load | function | F column | |
| loadother | function | F copy | |
| objects | 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 | |
| pack | boolean | F gettobesaved | |
| packversion | number | F hangafter | |
| pagestates | table | F hangindent | |
| D collected | | F height | |
| F extend | | F hsize | |
| F realpage | | F leftskip | |
| F setstate | | F lowerleft | |
| D tobesaved | | F lowerright | |
| passes | table | F markregionbox | |
| F check | | Fn | |
| D collected | | F onsamepage | |
| F count | | F overlapping | |
| | | | |

| T = | E v | |
|----------------|----------------|----------|
| Fp | F y | _ |
| T page | register | function |
| F paragraph | save | function |
| F parindent | structure | table |
| F position | D collected | |
| Fr | T components | |
| F region | T tobesaved | |
| F replace | T branches | |
| F rightskip | S name | |
| F set | S type | |
| F setall | variables | table |
| F setregionbox | D checksums | |
| D tobesaved | D collected | |
| F upperleft | F getchecksum | |
| F upperright | F makechecksum | |
| S used | F restore | |
| F whd | F save | |
| F width | F setchecksum | |

F x

F xy

D tobesaved

number

version

lang (basic tex)

| clean | function | id | function |
|-------------------|----------|------------------|----------|
| clear_hyphenation | function | new | function |
| clear_patterns | function | patterns | function |
| exceptions | function | postexhyphenchar | function |
| gethjcode | function | posthyphenchar | function |
| hyphenate | function | preexhyphenchar | function |
| hyphenation | function | prehyphenchar | function |
| hyphenationmin | function | sethjcode | function |

languages (context)

| associate | function | E | |
|------------------------|------------|------------------------------------|------------|
| associated | data table | F registerpattern | |
| association | function | F setfeatures installed | function |
| counters | data table | labels | table |
| current | function | F define | table |
| data | data table | | |
| decimals | data table | F split loadable | function |
| define | function | loadwords | function |
| | function | | table |
| expand flatten | function | logger | table |
| frequencies | table | F report nofflattened | function |
| • | table | numbers | data table |
| F averagecharwidth | | | function |
| F getdata getdata | function | postexhyphenchar posthyphenchar | function |
| getnumber | function | preexhyphenchar | function |
| hjcounts | table | | function |
| hyphenate | function | prehyphenchar registered | data table |
| hyphenators | table | replacements | table |
| T dictionaries | cable | F add | tabte |
| D featuresets | | F handler | |
| F handler | | F set | |
| T methods | | serializediscretionary | function |
| F expanded | | setexceptions | function |
| B none | | setsynonym | function |
| F original | | showdiscretionaries | function |
| F tex | | unload | function |
| F traditional | | urls | table |
| F popmethod | | D characters | |
| F pushmethod | | N lefthyphenmin | |
| F setmethod | | D mapping | |
| F setup | | B packslashes | |
| F showhyphenationtrace | | N righthyphenmin | |
| T traditional | | F setcharacters | |
| F definefeatures | | version | number |
| F gettrace | | visualizediscretionaries | function |
| F hyphenate | | words | table |
| F injecthyphens | | F check | |
| F installmethod | | T data | |
| F lasttrace | | F disable | |
| F loadpatterns | | F enable | |
| F registerexception | | T enablers | |
| | | | |

B enables

F found

F load

T methods

N threshold

layouts (context)

status table
 F isleftpage

F leftorrightpageaction

lfs (extra lua)

| attributes | overloaded | function |
|------------|------------|----------|
| chdir | overloaded | function |
| currentdir | function | |
| dir | overloaded | function |
| isdir | overloaded | function |
| isfile | overloaded | function |
| lock | function | |
| lock_dir | overloaded | function |
| mkdir | overloaded | function |

| mkdirs | function | |
|-------------------|------------|----------|
| readlink | overloaded | function |
| rmdir | overloaded | function |
| setmode | overloaded | function |
| shortname | overloaded | function |
| symlinkattributes | overloaded | function |
| touch | overloaded | function |
| unlock | 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)

| color | function |
|---------------|----------|
| convert | function |
| convertfile | function |
| convertstring | function |
| einject | function |
| eprint | function |
| escape | function |
| finalized | function |
| finject | function |
| fprint | function |
| get | function |
| getvariables | function |
| htmfile | function |
| html | table |
| Fa | |
| F td | |
| F th | |
| include | function |

- inherited table
 S color-background-four
 - S color-background-one
 - S color-background-three
 - S color-background-two
 - S title

| initialize | tunction |
|------------|----------|
| inject | function |
| lmxfile | function |

| loadedfile | function |
|---------------|----------|
| make | function |
| new | function |
| overloaderror | function |
| popupfile | function |
| print | function |
| pv | function |
| report | function |
| reset | function |
| result | function |
| set | function |
| show | function |
| showdebuginfo | function |
| showerror | function |
| stripcss | function |
| tv | function |
| type | function |
| urlescape | function |
| variable | function |
| variables | 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)

| application | function | reportlines | function |
|--------------|----------|-------------------|----------|
| categories | function | setformats | function |
| direct | function | setformatters | function |
| disable | function | setlogfile | function |
| enable | function | setmessenger | function |
| exporters | table | setprocessor | function |
| extendbanner | function | setprogram | function |
| flush | function | settarget | function |
| help | function | settimedlog | function |
| messenger | function | settranslations | function |
| new | function | show | function |
| newline | function | show_close | function |
| poptarget | function | show_load | function |
| pushtarget | function | show_open | function |
| report | function | simple | function |
| reportbanner | function | simpleline | function |
| reporter | function | simplelines | function |
| reporters | table | start_page_number | function |
| F banner | | status | function |
| F export | | stop_page_number | function |
| F help | | subdirect | function |
| F info | | subreport | function |
| F lines | | system | function |
| F version | | texerrormessage | function |
| reportline | function | writer | function |

lpdf (context)

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

| settime | function | tosixteen | function |
|----------------------|----------|--------------------|----------|
| settrailerid | function | transform | function |
| shareobject | function | transparency | function |
| shareobjectreference | function | transparencycode | function |
| spotcode | function | transparencygroups | table |
| stream | function | B none | |
| string | function | transparencyvalue | function |
| timestamp | function | unicode | function |
| toeight | function | verbose | function |
| topdfdoc | function | | |

lpeg (basic lua)

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

ltn12 (extra lua)

| BLOCKSIZE | number | F simplify |
|-----------|--------|---------------------|
| filter | table | F table |
| F chain | | source table |
| F cycle | | F cat |
| pump | table | F chain |
| F all | | F empty |
| F step | | F error |
| sink | table | F file |
| F chain | | F rewind |
| F error | | F simplify |
| F file | | F string |
| F null | | |

lua (basic tex)

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

luatex (context)

cleanuptempfiles function F enable currentfile function F finish registerdumpactions function F pause registerpageactions function F registerdisabler registerstartactions function F registerenabler registerstopactions function F resetfilename registertempfile function F resume starttime number F setfilename synctex table

F setup
F blockfilename
F collect
F disable
F setup
F start
F recollect
F stop
F disable
F wrapup

lxml (context)

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

| resetsetups | function |
|------------------|----------|
| resolvedentity | function |
| root | function |
| save | function |
| serialize | function |
| setaction | function |
| setcdata | function |
| setcommandtonone | function |
| setcommandtotext | function |
| setsetup | function |
| snippet | function |
| sorters | table |
| | |

F add
F compare
F flush
F reset
F show
F sort

splitid function function startraw startunescaped function function stopraw function stopunescaped function store strip function stripped function function tag function text tobuffer function tofile function function toparameters toverbatim function verbatim function withindex function xmltexhandler data table

math (basic lua)

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

mathematics (context)

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

mbox (context)

| parse | function | parse_message | function |
|---------------|----------|---------------|----------|
| parse_from | function | split_headers | function |
| parse_header | function | split_mbox | function |
| parse_headers | function | split_message | function |

md5 (extra lua)

| HEX | function |
|---------|----------|
| crypt | function |
| dec | function |
| decrypt | function |
| exor | function |

hex function
sum function
sumHEXA overloaded function
sumhexa overloaded function

metapost (context)

| 11 | function | | £ |
|-------------------------------|----------------------|------------------------|----------------------|
| analyzeplugins checkformat | function function | getstatistics | function function |
| checktexts | function | gettext | function |
| | boolean | graphic | |
| collapse colorinitializer | function | graphic_base_pass | function function |
| | function | initializescriptrunner | function |
| comment | | instance | table |
| convert | function | intermediate | table |
| defaultformat | string | T actions | |
| defaultinstance | string | F makempy | |
| defaultmethod | string | lastlog | string |
| directrun | function | load | function |
| escaped | function | makempy | table |
| exectime | table | N nofconverted | |
| extensiondata | data table | F processgraphics | |
| filterclippath | function | F registerfile | |
| flush | function | maketext | function |
| flushers | table | metafun | table |
| T pdf | | F interpolate | |
| F comment | | F topath | |
| F flushfigure | | method | number |
| F startfigure | | mptopdf | table |
| F stopfigure | | F convertmpstopdf | |
| F textfigure | | N nofconverted | |
| flushliteral | function | n | number |
| flushnormalpath | function | nvformat | function |
| flushreset | function | optimize | boolean |
| fonts | table | parse | function |
| F define | | pdfliterals | function |
| T flusher | | pluginactions | function |
| F flushfigure | | popvariable | function |
| F startfigure | | popvariables | function |
| F stopfigure | | process | function |
| N instances | | processplugins | function |
| F process | | processspecial | function |
| format | function | properties | table |
| format_number | function | pushvariable | function |
| format_string | function | pushvariables | function |
| formatnumber | function | quickanddirty | function |
| getclippath | function | reducetogray | boolean |
| getextensions | function | reporterror | function |
| getjobdata | function | reset | function |

| resetlastlog | function | F get | |
|---------------|----------|-----------------|----------|
| resetplugins | function | F reset | |
| runscript | function | F set | |
| scripterror | function | F setfrombuffer | |
| setextensions | function | texerrors | boolean |
| setoutercolor | function | texexp | function |
| settext | function | textextsdata | function |
| setvariable | function | theclippath | function |
| showlog | boolean | totable | function |
| simple | function | unload | function |
| svformat | function | untagvariable | function |
| tex | table | variables | table |

mime (extra lua)

| b64 | function | qp | function |
|-----------|-----------|--------|---------------|
| decode | function | qpwrp | function |
| decodet | table | stuff | function |
| F base64 | | unb64 | function |
| F quoted- | printable | unqp | function |
| dot | function | wrap | function |
| encode | function | wrapt | table |
| encodet | table | F bas | e64 |
| F base64 | | F defa | ault |
| F quoted- | printable | F quo | ted-printable |
| eol | function | F tex | t |
| normalize | function | wrp | function |

mp (context)

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

| defaultcolormodel | function | positionbox | function |
|-------------------|----------|----------------|----------|
| dimensions | function | positioncurve | function |
| disposehash | function | positionpage | function |
| format | function | positionpath | function |
| formatted | function | positionpxy | function |
| fprint | function | positionregion | function |
| get | table | positionwhd | function |
| F boolean | | positionxy | function |
| F number | | prefix | function |
| F numeric | | print | function |
| F string | | quadruple | function |
| get_outline_text | function | quoted | function |
| getcount | function | report | function |
| getdimen | function | setcount | function |
| gettoks | function | setdimen | function |
| graphformat | function | settoks | function |
| inhash | function | size | function |
| integer | function | systemmode | function |
| isarray | function | tb_dimensions | function |
| mode | function | texstr | function |
| n | function | texvar | function |
| newhash | function | tohash | function |
| numeric | function | triplet | function |
| pair | function | tt_dimensions | function |
| path | function | tt_initialize | function |
| | | | |

function

positionanchor

mplib (extra tex)

fields function
finder function
finders table

F file

get_boolean function
get number function

get_numeric function
get_string function

new overloaded function

pen_info function
preprocessed function
version function

noads (context)

| handlers | table | F render | |
|--------------|-------|--------------|-------------------|
| F align | | F resize | |
| F alternates | | F showtree | |
| F autofences | | F tags | |
| F classes | | F unscript | |
| F collapse | | F variants | |
| F domains | | process | function |
| F families | | processneste | d function |
| F fixscripts | | processors | table |
| F italics | | F mlist_to_h | list |
| F kernpairs | | T unscript | |
| F makeup | | processouter | function |
| F relocate | | | |

node (basic tex)

check discretionaries function F getlang check discretionary function F getleader copy function F getlist copy list function F getnext function count F getnucleus function current attr F getoffsets dimensions function F getpenalty direct table F getprev F check discretionaries F getproperty F check discretionary F getshift F copy F aetsub F copy list F getsubtype F getsup F count F current attr F getwhd F dimensions F getwidth F effective glue F has attribute F end_of_math F has_field F find attribute F has glyph F first glyph F hpack F flatten discretionaries F insert after F flush list F insert before F flush node F is char F flush properties table F is direct F is_glyph F free F get attribute F is node F get_properties_table F is zero glue F get_synctex_fields F kerning F getattributelist F last node F aetboth F lenath F getbox F ligaturing F getchar F new F getcomponents F protect glyph F getdepth F protect glyphs F getdir F protrusion skippable F getdisc F rangedimensions F getfield F remove F getfont F set attribute F getglue F set_properties_mode F getheight F set_synctex_fields F getid F setattributelist F getkern F setboth

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

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

nodes (context)

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

| Fickenupbox Fickenupbage Fickenupbage Firelanupbage Firela |
|--|
| F export |
| F finalize |
| F flatten F flattenline F flattenline F migrate F protectglyphs F stripping F textbackgrounds F unprotectglyphs F textbackgrounds F unprotectglyphs F textbackgrounds F unprotectglyphs F textbackgrounds F unprotectglyphs I ast_node I whatsit F unprotectglyphs I ast_node I function I leadercodes I data table I ast_node I function I leadercodes I data table I bas_field I function I length I function I length I function I ligaturing I function I ligaturing I function I lides I f define F copy F enable F gettligaindex F getthreshold F handler F gettligaindex F installgetspaceboth F installgetspaceboth F installnewkern F isspace F keepcounts F reset D data F reset F reset D data F reset F reset F reset F setursive F setursive F setursive F setursive F setligaindex I ink F unction F setligaindex F setligaindex F setligaindex F finalize F setwortion F setligaindex F setwortion F setligaindex F setwortion F setligaindex F setwortion F setligaindex F setligaindex F setwortion F setmark F unction F setmark |
| F migrate F protectglyphs F protectglyphs F textbackgrounds F textbackgrounds F unprotectglyphs F unction F stripbute F unction |
| F migrate |
| F stripping F textbackgrounds F textbackgrounds F unprotectglyphs F unction I leadercodes I data table I leftmarginwidth I function I length I function I length I function I lines I data I lines I ferinstallgetspaceboth F installnewkern F installnewkern F insest F reset F setcursive F settligaindex F settligaindex F settligaindex F settligaindex F settligaindex F resetcounts F reset F settligaindex F settligaindex F settligaindex F settligaindex F settligaindex F settligaindex F finalize F settligaindex F setmark F unprotection I leadercodes I data table f unction f unction f unction f unction f unction f unction |
| F textbackgrounds F unprotectglyphs F unprotectglyphs F unprotectglyphs F unprotectglyphs F unprotectglyphs F unprotectglyphs F unction |
| F unprotectglyphs has_attribute function leadercodes data table has_field function leftmarginwidth function has_glyph function length function ligaturing function idstostring function linefillers table injections f copy f getligaindex f jefthreshold f installgetspaceboth f installnewkern f installnewkern f reset f keepcounts f reset f setcursive f settligaindex f settligaindex f settligaindex f settligaindex f settligaindex f resetcursive f settligaindex f settligaindex f settligaindex f settligaindex f finalize f settligaindex f f settligaindex f f settligaindex f unction f unction f unction |
| has_attributefunctionleadercodesdata tablehas_fieldfunctionleftmarginwidthfunctionhas_glyphfunctionlengthfunctionhpackfunctionligaturingfunctionidstostringfunctionlinefillerstableignorablefieldsdata tableD datainjectionstableF defineF copyF enableF enableF getligaindexF handlerT boxedF handlerT boxedF registerF installgetspacebothF registerF setupF isspaceF stage_oneF stage_oneF keepcountsF stage_twoF stage_twoF resetD dataF resetcountsF setcursiveF numberF setcursiveF setkernN scratchboxF numberF setkernN scratchboxIinkfunctionF setmarklinkedfunction |
| has_field function leftmarginwidth function has_glyph function length function ligaturing function ligaturing function didstostring function linefillers table ignorablefields data table D data injections table F define F copy F enable F getligaindex F handler F getthreshold Iines table F handler F installgetspaceboth F register F installnewkern F setup F isspace F stage_one F keepcounts F reset D data F resetcunts F setcursive F setcursive F settern F setligaindex F setligaindex F setligaindex F setmark Iink function F setmark |
| has_glyphfunctionlengthfunctionhpackfunctionligaturingfunctionidstostringfunctionlinefillerstableignorablefieldsdata tableD datainjectionstableF defineF copyF enableF enableF gettigaindexF handlerT boxedF petthresholdlinestableF handlerT boxedF registerF installgetspacebothF registerF setupF isspaceF stage_oneF stage_oneF keepcountsF stage_twoF stage_twoF resetD dataF resetF resetcountsF finalizeF numberF setcursiveF numberF setkernF setkernN scratchboxInkfunctionF setmarklinkedfunction |
| hpackfunctionligaturingfunctionidstostringfunctionlinefillerstableignorablefieldsdata tableD datainjectionstableF defineF copyF enableF getligaindexF handlerF getthresholdlinestableF handlerT boxedF installgetspacebothF registerF installnewkernF setupF isspaceF stage_oneF keepcountsF stage_twoF resetD dataF resetcountsF finalizeF setcursiveF numberF setkernN scratchboxF setligaindexlinkfunctionF setmarklinkedfunction |
| idstostringfunctionlinefillerstableignorablefieldsdata tableD datainjectionstableF defineF copyF enableF enableF getligaindexF handlerT boxedF getthresholdlinestableF handlerT boxedF installgetspacebothF registerF installnewkernF setupF isspaceF stage_oneF keepcountsF stage_twoF resetD dataF resetD dataF resetcountsF finalizeF setcursiveF numberF setkernN scratchboxF setligaindexlinkfunctionF setmarklinkedfunction |
| ignorablefields data table D data injections table F define F copy F enable F getligaindex F handler F getthreshold lines table F handler F installgetspaceboth F register F installnewkern F setup F isspace F stage_one F keepcounts F stage_two F reset D data F resetcounts F setcursive F number F setkern N scratchbox F setligaindex F setligaindex F setmark linked function |
| injections table F define F copy F enable F getligaindex F handler F getthreshold lines table F handler T boxed F installgetspaceboth F register F installnewkern F setup F isspace F stage_one F keepcounts F stage_two F reset D data F resetcounts F finalize F setcursive F number F setkern N scratchbox F setligaindex link function F setmark linked function |
| F copy F enable F getligaindex F getthreshold lines table F handler F handler F installgetspaceboth F installnewkern F installnewkern F isspace F keepcounts F reset D data F resetcounts F resetcounts F setcursive F setcursive F setcursive F setligaindex F setligaindex F setmark Linked F function |
| F getligaindex F getthreshold lines table F handler F handler F installgetspaceboth F installnewkern F isspace F installnewkern F isspace F stage_one F keepcounts F reset D data F resetcounts F setcursive F setcursive F setcursive F setligaindex F setligaindex F setmark Linked table table table table table table T boxed F register F setup F setup F setup F setup F stage_one F stage_two F stage_two D data F resetcounts F finalize F setcursive F number F settursive F number F settursive F settursive F settursive F number F settursive F number F settursive F number F settursive F number F settursive F number |
| F getthreshold lines table F handler T boxed F installgetspaceboth F register F installnewkern F setup F isspace F stage_one F keepcounts F stage_two F reset D data F resetcounts F finalize F setcursive F number F setkern N scratchbox F setligaindex link function F setmark linked function |
| F handler F installgetspaceboth F installnewkern F isspace F keepcounts F reset D data F resetcounts F setcursive F setkern F setwern F setligaindex F setmark T boxed F register F setup F setup F stage_one F stage_two F s |
| F installgetspaceboth F installnewkern F isspace F stage_one F keepcounts F reset D data F resetcounts F setcursive F setcursive F setkern N scratchbox F setligaindex F setmark F installgetspaceboth F register F stage_one F stage_two F stage_two F stage_two F stage_two N data F finalize F number F setcursive F number N scratchbox F setligaindex F setligaindex F function |
| F installnewkern F isspace F keepcounts F reset D data F resetcounts F setcursive F setkern N scratchbox F setligaindex F setmark F installnewkern F setup F stage_one F stage_two F stage_two F stage_two F stage_two F stage_two F stage_one F stage_two F stage_two F stage_two F stage_two F stage_two F stage_two F installnewkern F installnewkern F stage_two F installnewkern F insta |
| F isspace F keepcounts F reset D data F resetcounts F setcursive F setkern F setligaindex F setmark F isspace F stage_two F st |
| F keepcounts F reset D data F resetcounts F setcursive F setkern F setligaindex F setmark F setmark F stage_two |
| F reset D data F resetcounts F finalize F setcursive F number F setkern N scratchbox F setligaindex link function F setmark linked function |
| F resetcounts F setcursive F setkern F setligaindex F setmark F finalize F number N scratchbox f unction F setmark F setmark F finalize F number F settligaindex F finalize F number F number F number F settligaindex F number F settligaindex F number F n |
| F setcursive F number F setkern N scratchbox F setligaindex link function F setmark linked function |
| F setkern N scratchbox F setligaindex link function F setmark linked function |
| F setligaindex link function F setmark linked function |
| F setmark linked function |
| |
| F cotmove list function |
| F setmove List function |
| F setposition listablefields data table |
| F setspacekerns listcodes data table |
| <pre>insert_after function listtoutf function</pre> |
| <pre>insert_before function load function</pre> |
| <pre>insert_list_after function locate function</pre> |
| <pre>installattributehandler function margincodes data table</pre> |
| is_char function marginkerncodes data table |
| is_direct function markers table |
| is_display_math function F get |
| <pre>is_glyph function mathcodes data table</pre> |
| is_mirrored data table maxboxwidth function |

mlist to hlist function F free new function F fullhpack noadcodes data table F get_components table noadoptions F get synctex fields N axis F getattr N exact F getattribute N left F getattributelist N middle F getattrlist N no axis F getboth N right F getbox N set F getboxglue N unused 1 F getchar N unused 2 F getcomponents nodecodes data table F getdepth nopts function F getdir table nuts F getdisc F append F getdiscretionary F apply F getfield F applyvisuals F getfont F check discretionaries F getglue F concat F getheight F copy F getid F getkern F copy_list F getlang F copy_no_components F copy node F getlanguage F copy_only_glyphs F getleader F copy_properties F getlist F copyvisual F getnext F getnucleus F count F count_components F getoffsets F countall F getpenalty F current_attr F getprev F delete F getprop F dimensions F getshift F effective_glue F getsub F end of math F getsubtype F find_attribute F getsup F first_glyph F getsurround F firstcharacter F getwhd F firstcharinbox F getwidth F firstqlyph F has_attribute F flush F has_field F flush list F has glyph

F flush node

F hpack

F insert after F leader F insert_before F leftmarginkern F insert_list_after F leftskip F is char F lineskip F is direct F mathchar F is display math F mathtextchar F is_glyph F negatedglue F is node F noad F pdfannotation F is_nut F is_zero_glue F pdfdestination F ischar F pdfdirectliteral F pdfliteral F isglyph F kerning F pdforiginliteral F last node F pdfpageliteral F pdfrawliteral F leftmarginwidth F length F pdfrestore F ligaturing F pdfsave F link F pdfsetmatrix F linked F penalty F radical F locate F mlist to hlist F register F nestedtracedslide F rightmarginkern F new F rightskip T pool F rule F accent F shrink F baselineskip F special F boundary F stretch F choice F subbox F cleanup F submlist F delim F temp F delimiter F textdir F disc F usage F emptyrule F userattributes F fence T userids F fontkern N margins.inline F fraction N property F glue N splitters.one N splitters.two F gluespec F glyph F userlist F hlist F userlua F italickern F usernumber F kern F userrule F latelua F userstring

F usertokens

F lateluafunction

F vlist F setnucleus F wordboundary F setoffsets F prepend F setpenalty F protect glyph F setprev F protect glyphs F setprop F setshift F protrusion skippable F rangedimensions F setsplit F setsub F rawprop F reference F setsubtype F rehpack F setsup F remove F setsurround F setunsetattributes F repackhlist F replace F setvisual F rightmarginwidth F setvisuals T rules F setwhd F userrule F setwidth F set_attribute F slide F set components F somepenalty F set synctex fields F somespace F setattr F splitbox F setattribute F tail F setattributelist F take components F setattributes F takeattr F setattrlist F takebox F setboth F takelist F setbox F theprop F setboxglue F tonode F setchar F tonodes F setcomponents F tonut F setdepth F tosequence F setdir F tostring F setdisc F tracedslide F setdiscretionary F traverse F setfield F traverse char F setfont F traverse_id F setglue T typesetters F setheight F tohbox F setkern F tohpack F setlang F tonodes F setlanguage F tovbox F setleader F tovpack F setlink F unprotect_glyph F setlist F unprotect glyphs

F unset_attribute

F setnext

| F unsetattribute | | F rule | |
|---------------------|------------|-------------------------|------------|
| F unsetattributes | | F special | |
| F untracedslide | | F usage | |
| F use_components | | F usernumber | |
| F usedlist | | F vlist | |
| F uses_font | | prepend | function |
| F vianodes | | print | function |
| F vianuts | | processors | table |
| F vpack | | F contribute_filter | |
| F write | | B enabled | |
| packlist | function | F hpack_filter | |
| pardir_is_equal | data table | F post_linebreak_filter | |
| pardir_is_opposite | data table | F pre_linebreak_filter | |
| pardir_is_parallel | data table | F tracer | |
| partextdir_is_equal | data table | processranges | function |
| penaltycodes | data table | processwords | function |
| plugindata | table | properties | table |
| F finalizer | | T actions | |
| F initializer | | F delayed | |
| S name | | F fdelayed | |
| T namespace | | F immediate | |
| N attribute | | F attach | |
| D data | | T data | |
| F enable | | F delayed | |
| F handler | | protect_glyph | function |
| F register | | protect_glyphs | function |
| D registered | | protrusion_skippable | function |
| D values | | pts | function |
| F processor | | radicalcodes | data table |
| points | function | rangedimensions | function |
| pool | table | reference | function |
| F baselineskip | | references | table |
| F cleanup | | N attribute | |
| F glyph | | T done | |
| F hlist | | F handler | |
| F kern | | T stack | |
| F latelua | | rehpack | function |
| F lineskip | | remove | function |
| F pdfdirectliteral | | repackhlist | function |
| F pdforiginliteral | | replace | function |
| F pdfrestore | | report | function |
| F pdfsave | | rightmarginwidth | function |
| F pdfsetmatrix | | rulecodes | data table |
| F register | | rules | table |
| . register | | . 4.00 | CODIC |

| D data | | F resetsamples | |
|--------------------|------------|----------------------|------------|
| F define | | F takesample | |
| F enable | | somepenalty | function |
| F handler | | somespace | function |
| T ruleactions | | splitbox | function |
| F box | | stripdiscretionaries | function |
| F draw | | stripping | table |
| F fill | | T glyphs | |
| F mp | | F set | |
| F stroke | | striprange | function |
| F userrule | | tail | function |
| save | function | takeattr | function |
| serialize | function | takebox | function |
| serializebox | function | tasks | table |
| set_attribute | function | F actions | |
| setattr | function | F appendaction | |
| setattribute | function | F disableaction | |
| setattributes | function | F disablegroup | |
| setboth | function | F enableaction | |
| setbox | function | F enablegroup | |
| setboxtonaturalwd | function | F freeze | |
| setfield | function | F freezegroup | |
| setglue | function | F new | |
| setlink | function | F prependaction | |
| setlist | function | F removeaction | |
| setnext | function | F replaceaction | |
| setprev | function | F restart | |
| setunsetattributes | function | F setaction | |
| setwhd | function | F showactions | |
| shifts | table | F table | |
| D data | | textdir_is_equal | data table |
| F define | | textdir_is_is | data table |
| F enable | | textdir_is_opposite | data table |
| F handler | | textdir_is_parallel | data table |
| show | function | tobasepoints | function |
| showboxes | function | tocentimeters | function |
| showcodes | function | tociceros | function |
| showlist | function | todidots | function |
| showsimplelist | function | todimen | function |
| skipcodes | data table | toinches | function |
| slide | function | tomillimeters | function |
| snapshots | table | tonewciceros | function |
| F getparameters | | tonewdidots | function |
| F getsamples | | tonode | function |
| | | | |

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

number (context)

| | function |
|-------------------------|------------|
| basepoints | function |
| bit | function |
| bits | function |
| bytetodecimal | function |
| clearbit | function |
| compactfloat | function |
| decimaltobyte | function |
| dimenfactors | data table |
| formatted | function |
| $for {\tt mattedfloat}$ | function |
| hasbit | function |
| maxdimen | number |
| nopts | function |
| percent | function |
| points | function |
| pts | function |
| setbit | function |
| signed | function |
| sparseexponent | function |
| splitdimen | function |

| tobasepoints | function |
|----------------|----------|
| tobitstring | function |
| tocentimeters | function |
| tociceros | function |
| tocontext | function |
| todidots | function |
| todimen | function |
| toevenhex | function |
| toinches | function |
| tomillimeters | function |
| tonewciceros | function |
| tonewdidots | function |
| tonumberf | function |
| tonumberg | function |
| topicas | function |
| topoints | function |
| toscaled | function |
| toscaledpoints | function |
| toset | function |
| valid | function |

objects (context)

| data | table | page | function |
|------------|----------|-----------|----------|
| dimensions | function | reference | function |
| found | function | register | function |
| n | number | restore | function |

os (basic lua)

platform string

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

package (basic lua)

| config | string |
|---------------|----------|
| cpath | string |
| extralibpath | function |
| extralibpaths | function |
| extraluapath | function |
| extraluapaths | function |
| helpers | table |
| libpaths | function |
| loaded | table |
| loaders | table |
| loadlib | function |

| luapaths | function |
|-------------|----------|
| path | string |
| poplibpath | function |
| popluapath | function |
| preload | table |
| pushlibpath | function |
| pushluapath | function |
| searchers | table |
| searchpath | function |
| seeall | function |

pagebuilders (context)

| <pre>columnsets table</pre> | F sethsize |
|-----------------------------|-----------------------------|
| F add | F sethspan |
| F block | F setlines |
| F check | F setproperties |
| F currentcolumn | F setstart |
| F define | F setvsize |
| F finishflush | <pre>injections table</pre> |
| F flushareas | F flushafter |
| F flushcolumn | F flushbefore |
| F flushrest | F save |
| F goto | mixedcolumns table |
| F noto | F cleanup |
| F prepareflush | F finalize |
| F put | F getlist |
| F registerarea | F getrest |
| F reset | F getsplit |
| F setarea | F setsplit |

pdf (basic tex)

| fontname | function | immediateobj | function |
|-----------------------------------|----------|-------------------------|------------------------------|
| fontobjnum | function | mapfile | function |
| fontsize | function | mapline | function |
| getcatalog | function | maxobjnum | function |
| getcompresslevel | function | newcolorstack | function |
| getcompressievet | function | obi | function |
| getdecimaldigits | function | objtype | function |
| getdestmargin | function | | function |
| getgestmargin | function | pageref print | function |
| 5 5 | function | • | function |
| gethpos getignoreunknownimages | function | refobj registerannot | overloaded function |
| getimageresolution | function | | function |
| - | function | reserveobj | |
| getinclusionerrorlevel | | setcatalog | overloaded function function |
| getinfo | function | setcompresslevel | |
| getlastannot | function | setdecimaldigits | function |
| getlastlink | function | setdestmargin | function |
| getlastobj | function | setfontattributes | function |
| getlinkmargin | function | setgentounicode | function |
| getmajorversion | function | setignoreunknownimages | function |
| getmatrix | function | setimageresolution | function |
| getminorversion | function | setinclusionerrorlevel | function |
| getnames | function | setinfo | overloaded function |
| getobjcompresslevel | function | setlinkmargin | function |
| getomitcidset | function | setmajorversion | function |
| getorigin | function | setminorversion | function |
| getpageattributes | function | setnames | overloaded function |
| getpageresources | function | setobjcompresslevel | function |
| getpagesattributes | function | setomitcidset | function |
| getpkresolution | function | setorigin | function |
| getpos | function | setpageattributes | overloaded function |
| getretval | function | setpageresources | overloaded function |
| getsuppressoptionalinfo | function | setpagesattributes | overloaded function |
| getthreadmargin | function | setpkresolution | function |
| gettrailer | function | setsuppressoptionalinfo | function |
| gettrailerid | function | setthreadmargin | function |
| getversion | function | settrailer | overloaded function |
| getvpos | function | settrailerid | function |
| getxformattributes | function | setxformattributes | function |
| getxformmargin | function | setxformmargin | function |
| getxformresources | function | setxformresources | function |
| hasmatrix | function | xformname | function |

pdfscanner (context)

scan function

physics (context)

units table

F registerunit

D tables

publications (context)

| addtexentry | function | S author |
|----------------------|------------|--------------|
| analyze | function | T categories |
| anywhere | function | T article |
| authorcache | data table | S category |
| authorcollapsers | data table | T extra |
| authorhashers | table | T fields |
| F invertedshort | | S author |
| F normal | | S editor |
| F normalinverted | | S journal |
| F normalshort | | S keywords |
| F short | | S number |
| authormap | data table | S pages |
| authortoregister | function | S title |
| casters | table | S volume |
| F author | | S year |
| F keyword | | T optional |
| F pagenumber | | T required |
| F range | _ | T sets |
| checkeddataset | function | T author |
| citevariants | 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 |
| collected | data table | T optional |
| components | table | T required |
| F author | | T sets |
| concatstate | function | T author |
| converttoxml | function | T editionset |
| currentspecification | 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 | datasets | table |
| S subtitle | detailed | table |
| S title | endnotes_to_btx | function |
| S year | enhancer | 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 | enhancers | table |
| S author | F details | |
| S institution | F order | |
| S organization | F suffixes | |
| S subtitle | finder | function |
| S title | firstofrange | function |
| S year | found | function |
| T optional | get | function |
| T required | getcasted | function |
| T sets | getdetail | function |
| T authors | getdirect | function |
| T virtual | getfaster | function |
| S comment | getfield | function |
| S copyright | getfuzzy | function |
| T fields | getindex | function |
| S name | inspectors | data table |
| T types | journals | table |
| S author | F abbreviated | |
| S editor | F add | |
| S keywords | F expanded | |
| S number | F load | |
| S page | F save | |
| S pages | lastofrange | function |
| S volume | lists | table |
| S version | F collectentries | |
| D virtual | F combiinlist | |

| F fetchentries | | oneorrange | function |
|---|---|--|----------------------------|
| F filterall | | parenttag | function |
| F flushcombi | | permitted | function |
| F flushentry | | refman_to_btx | function |
| T methods | | resolvedname | function |
| F dataset | | save | function |
| F force | | search | function |
| F global | | setcategory | function |
| F local | | setspecification | function |
| F nofregistered | | singularorplural | function |
| F prepareentries | | sortedentries | function |
| F register | | sortmethods | table |
| F sameasprevious | | T authoryear | |
| T sorters | | T sequence | |
| F cite | | specifications | table |
| F dataset | | T default | |
| F default | | S author | |
| Findex | | S comment | |
| F list | | S copyright | |
| F reference | | S name | |
| F short | | S version | |
| F used | | D virtual | |
| F uservariable | | splitauthor | function |
| | | | |
| listvariants | table | splitoneauthor | function |
| listvariants F default | table | splitoneauthor statistics | function table |
| | table | • | |
| F default | table | statistics | |
| F default F index | table | statistics N nofbytes | |
| F default F index F num | table | statistics N nofbytes N nofdatasets | |
| F default F index F num F short | table function | statistics N nofbytes N nofdatasets N nofdefinitions | |
| F default F index F num F short F tag | | statistics N nofbytes N nofdatasets N nofdefinitions N nofshortcuts | table |
| F default F index F num F short F tag load | function | statistics N nofbytes N nofdatasets N nofdefinitions N nofshortcuts tables | table |
| F default F index F num F short F tag load | function function | statistics N nofbytes N nofdatasets N nofdefinitions N nofshortcuts tables D implicits | table |
| F default F index F num F short F tag load loadbibdata loaddefinitionfile | function function function | statistics N nofbytes N nofdatasets N nofdefinitions N nofshortcuts tables D implicits D origins | table |
| F default F index F num F short F tag load loadbibdata loaddefinitionfile loaders | function function function | statistics N nofbytes N nofdatasets N nofdefinitions N nofshortcuts tables D implicits D origins D privates | table |
| F default F index F num F short F tag load loadbibdata loaddefinitionfile loaders F bbl | function function function | statistics N nofbytes N nofdatasets N nofdefinitions N nofshortcuts tables D implicits D origins D privates D sets | table |
| F default F index F num F short F tag load loadbibdata loaddefinitionfile loaders F bbl F bib | function function function | statistics N nofbytes N nofdatasets N nofdefinitions N nofshortcuts tables D implicits D origins D privates D sets D specials | table |
| F default F index F num F short F tag load loadbibdata loaddefinitionfile loaders F bbl F bib F buffer | function function function | statistics N nofbytes N nofdatasets N nofdefinitions N nofshortcuts tables D implicits D origins D privates D sets D specials D types | table |
| F default F index F num F short F tag load loadbibdata loaddefinitionfile loaders F bbl F bib F buffer F endnote | function function function | statistics N nofbytes N nofdatasets N nofdefinitions N nofshortcuts tables D implicits D origins D privates D sets D specials D types D virtuals | table |
| F default F index F num F short F tag load loadbibdata loaddefinitionfile loaders F bbl F bib F buffer F endnote F lua | function function function | statistics N nofbytes N nofdatasets N nofdefinitions N nofshortcuts tables D implicits D origins D privates D sets D specials D types D virtuals tags | table table |
| F default F index F num F short F tag load loadbibdata loaddefinitionfile loaders F bbl F bib F buffer F endnote F lua F refman | function function function | statistics N nofbytes N nofdatasets N nofdefinitions N nofshortcuts tables D implicits D origins D privates D sets D specials D types D virtuals tags tracers | table table function table |
| F default F index F num F short F tag load loadbibdata loaddefinitionfile loaders F bbl F bib F buffer F endnote F lua F refman F registercleaner | function function function | N nofbytes N nofdatasets N nofdefinitions N nofshortcuts tables D implicits D origins D privates D sets D specials D types D virtuals tags tracers F showdatasetauthors | table table function table |
| F default F index F num F short F tag load loadbibdata loaddefinitionfile loaders F bbl F bib F buffer F endnote F lua F refman F registercleaner F xml | function function function table | N nofbytes N nofdatasets N nofdefinitions N nofshortcuts tables D implicits D origins D privates D sets D specials D types D virtuals tags tracers F showdatasetauthors F showdatasetcompleten | table table function table |
| F default F index F num F short F tag load loadbibdata loaddefinitionfile loaders F bbl F bib F buffer F endnote F lua F refman F registercleaner F xml loadreplacementfile | function function function table | statistics N nofbytes N nofdatasets N nofdefinitions N nofshortcuts tables D implicits D origins D privates D sets D specials D types D virtuals tags tracers F showdatasetauthors F showdatasetfields | table table function table |

F showhashedauthors

F showtables

F showvariants

typesetters

table

F author

F string

usedataset function usedentries

writers

F author F keyword

F pagenumber

F range

function table

regimes (context)

| cleanup | function |
|------------|----------|
| disable | function |
| enable | function |
| fromregime | function |
| рор | function |

process function
push function
toregime function
translate function

resolvers (context)

| allprefixes | function | findpath | function |
|------------------------------|---------------------|-------------------------|------------|
| appendhash | function | findtexfile | function |
| automount | function | findwildcardfile | function |
| automounted | table | findwildcardfiles | function |
| booleanvariable | function | formatofsuffix | function |
| cacheversion | string | formatofvariable | function |
| checkedvariable | function | formats | data table |
| cleanedpathlist | function | foundintree | function |
| cleanpath | function | foundintrees | function |
| cleanpathlist | function | generators | data table |
| concatinators | data table | get_from_content | function |
| configbanner | string | getenv | function |
| configurationfiles | function | getextrapaths | function |
| criticalvars | data table | getfilehashes | function |
| dangerous | data table | gethashes | function |
| datastate | function | getownpath | function |
| defaultsuffixes | table | getreadfilename | function |
| dowithfilesandreport | function | hashers | data table |
| dowithfilesintree | function | homedir | string |
| dowithpath | function | initialized | function |
| dowithvariable | function | inputstack | table |
| env | function | installinputfilehandler | function |
| executers | table | installinputlinehandler | function |
| expandbraces | function | jobpath | function |
| expandedpathfromlist | function | jobs | table |
| expandedpathlist | function | F currentcomponent | |
| expandedpathlistfromvariable | function | F currentenvironment | |
| expandpath | function | F currentproduct | |
| expandpathfromvariable | function | F currentproject | |
| expansion | function | F justacomponent | |
| extendtexmfvariable | function | D processors | |
| filtered_from_content | function | F productcomponent | |
| find_file | function | F usefile | |
| find_files | function | joinpath | function |
| findbinfile | function | knownvariables | function |
| findctxfile | function | load | function |
| finders | data table | loadbinfile | function |
| findfile | function | loaders | data table |
| findfiles | function | loadlualib | function |
| findgivenfile | function | loadtexfile | function |
| findgivenfiles | function | loadtime | function |

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

function

resolve

sandbox (context)

| disablelibraries | function | possiblepath | function |
|------------------|----------|-------------------|----------|
| disablerunners | function | redefine | function |
| enable | function | register | function |
| filehandlerone | function | registerbinary | function |
| filehandlertwo | function | registerlibrary | function |
| finalizer | function | registerroot | function |
| getrunner | function | registerrunner | function |
| initializer | function | report | function |
| iohandler | function | setfilenamelogger | function |
| logcalls | function | setlogger | function |
| logfiles | function | setreporter | function |
| original | function | settrace | function |
| overload | function | validfilename | function |

scripts (context)

autofontfeature table

F disable

F enable

F handler

N inter_char_half_shrink_factor

N inter_char_half_stretch_factor

N inter_char_hangul_penalty

N inter_char_quarter_shrink_factor

N inter_char_quarter_stretch_factor

N inter_char_shrink_factor

N inter_char_stretch_factor

N inter_word_stretch_factor

handlers data table table hash iniectors data table installdataset function installmethod function numbertocategory data table numbertodataset data table numbertohandler data table reset function function set data table splitters

set (context)

contains function
create function
tolist function

tonumber function
totable function

sio (context)

| read2dot14 | function | readfixed2 | function |
|---------------|----------|--------------|----------|
| readbytes | function | readfixed4 | function |
| readbytetable | function | readinteger1 | function |
| readcardinal1 | function | readinteger2 | function |
| readcardinal2 | function | readinteger3 | function |
| readcardinal3 | function | readinteger4 | function |
| readcardinal4 | function | | |

socket (extra lua)

BLOCKSIZE number S connection boolean DEBUG S content-description SETSIZE number S content-disposition bind function S content-encoding function choose S content-id function connect S content-language connect4 function S content-length function connect6 S content-location dns table S content-md5 F getaddrinfo S content-range F gethostname S content-transfer-encoding F getnameinfo S content-type F tohostname S date F toip S diagnostic-code ftp table S dsn-gateway S PASSWORD S etag N PORT S expect N TIMEOUT S expires S USER S final-log-id S final-recipient F command F get S from F open S host F put S if-match gettime function S if-modified-since headers table S if-none-match T canonic S if-range S accept S if-unmodified-since S accept-charset S in-reply-to S accept-encoding S keywords S accept-language S last-attempt-date S accept-ranges S last-modified S action S location S max-forwards S age S allow S message-id S alternate-recipient S mime-version S original-envelope-id S arrival-date S authorization S original-recipient S bcc S pragma S cache-control S proxy-authenticate Scc S proxy-authorization S comments S range

| S received | protect | function |
|-------------------------|----------|-----------|
| S received-from-mta | select | function |
| S references | sink | function |
| S referer | sinkt | table |
| S remote-mta | F close- | when-done |
| S reply-to | F defaul | t |
| S reporting-mta | F http-c | hunked |
| S resent-bcc | F keep-o | pen |
| S resent-cc | skip | function |
| S resent-date | sleep | function |
| S resent-from | smtp | table |
| S resent-message-id | S DOMAIN | |
| S resent-reply-to | N PORT | |
| S resent-sender | S SERVER | |
| S resent-to | N TIMEOU | Т |
| S retry-after | S ZONE | |
| S return-path | F messag | e |
| S sender | F open | |
| S server | F send | |
| S smtp-remote-recipient | source | function |
| S status | sourcet | table |
| S subject | F by-len | gth |
| S te | F defaul | t |
| S to | F http-c | hunked |
| S trailer | F until- | |
| S transfer-encoding | tcp | function |
| S upgrade | tcp6 | function |
| S user-agent | tp | table |
| S vary | N TIMEOU | Т |
| S via | F connec | |
| S warning | try | function |
| S will-retry-until | udp | function |
| S www-authenticate | udp6 | function |
| S x-mailer | url | table |
| http table | F absolu | te |
| N PORT | F build | |
| N TIMEOUT | F build_ | path |
| S USERAGENT | F escape | |
| F open | F parse | |
| Frequest | F parse_ | |
| newtry function | F unesca | ре |

sorters (context)

basicsorter function
comparers table
 F basic

constants table

S defaultdigits
S defaultlanguage
S defaultmethod
N digitsmaximum
N digitsoffset
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

Futf

strip function
tracers data table
update function

statistics (context)

| checkfmtstatus | function | resettiming | function |
|----------------|----------|---------------|----------|
| elapsed | function | runtime | function |
| elapsedindeed | function | savefmtstatus | function |
| elapsedseconds | function | show | function |
| elapsedtime | function | starttiming | function |
| enable | boolean | stoptiming | function |
| formatruntime | function | threshold | number |
| hastiming | function | timed | function |
| memused | function | tracefunction | function |
| register | function | | |

status (basic tex)

list function
resetmessages function

storage (context)

| allocate | function | noftables | number |
|------------|----------|-----------------|------------|
| data | table | register | function |
| mark | function | shared | data table |
| marked | function | storedfunctions | data table |
| max | number | strip | boolean |
| min | number | tofmodules | number |
| nofmodules | number | toftables | number |

streams (context)

| collect | function | push | function |
|------------|----------|-------------|----------|
| disable | function | start | function |
| enable | function | stop | function |
| flush | function | synchronize | function |
| initialize | function | | |

string (basic lua)

| autodouble | function | nspaces | table |
|----------------|----------|-----------------|----------|
| autosingle | function | optionalquoted | function |
| booleanstring | function | quote | function |
| byte | function | quoted | function |
| bytepairs | function | rep | function |
| bytes | function | replacenewlines | function |
| bytetable | function | reverse | function |
| char | function | split | function |
| characterpairs | function | splitlines | function |
| characters | function | splitup | function |
| checkedsplit | function | strip | function |
| collapsespaces | function | sub | function |
| count | function | tformat | function |
| dump | function | toHEX | function |
| escapedpattern | function | toboolean | function |
| explode | function | tobytes | function |
| find | function | tocontext | function |
| format | function | todec | function |
| formatter | function | todimen | function |
| formatters | function | tohex | function |
| fullstrip | function | tonodes | function |
| gmatch | function | topattern | function |
| gsub | function | totable | function |
| is_boolean | function | toutf | function |
| is_empty | function | tracedchar | function |
| itself | function | tracedchars | table |
| len | function | unquote | function |
| limit | function | unquoted | function |
| longtostring | function | upper | function |
| lower | function | utfcharacters | function |
| match | function | utfvalues | function |
| nospaces | function | valid | function |
| | | | |

structures (context)

| atlocation | function | F previous | |
|------------------|----------|----------------------|----------|
| blocks | 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 | |
| bookmarks | 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 | | currentsectionnumber | function |
| F merge | | descriptions | table |
| S method | | documents | table |
| F overload | | D data | |
| F place | | F initialize | |
| F register | | F preset | |
| F setup | | F reset | |
| counters | table | floats | table |
| F add | | formulas | table |
| F analyze | | helpers | 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 | | inserts | 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 tobesaved |
| D stored | | F userdata |
| itemgroups | table | F uservalue |
| lists | table | marks table |
| 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 formulanumber | | 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 | | notes table |
| D names | | F check_spacing |
| F number | | F checkpagechange |
| D ordered | | F define |
| F page | | F doifonsamepageasprevious |
| F popnesting | | F get |
| F prefix | | F getdeltapage |
| F prefixednumber | | F getinternal |
| F prefixedpage | | F getn |
| F process | | F getstate |
| D pushed | | F hascontent |
| F pushnesting | | F internal |
| F realpage | | F internalid |
| F reordered | | F listindex |
| T result | | T numbers |

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

| F setnextinternal | | F | flush | |
|------------------------|--------------|------|---------------------|-------|
| F setnextorder | | F | get | |
| F setreferencerealpage | | F | prepare | |
| D specials | | F | process | |
| F splitcomponent | | F | setmethod | |
| F splitprefix | | F | sort | |
| F splitreference | | F | store | |
| F synchronizepage | | D | tobesaved | |
| T testrunners | | F | unique | |
| F inner | | F | userdata | |
| F special | | sect | ions | table |
| F special operation | | F | autodepth | |
| F special operation wi | th arguments | F | cct | |
| T testspecials | | D | collected | |
| F deltapage | | F | current | |
| Fi | | F | currentblock | |
| F internal | | F | currentid | |
| F page | | F | currentlevel | |
| F realpage | | F | currentsectionindex | |
| F section | | F | depthnumber | |
| F userpage | | F | finddata | |
| D tobereferred | | F | findnumber | |
| D tobesaved | | F | fullnumber | |
| D tracedpages | | F | getcurrentlevel | |
| T urls | | F | getlevel | |
| T data | | F | getnumber | |
| F define | | F | internalreference | |
| F found | | D | levelmap | |
| F get | | D | levels | |
| F untex | | F | load | |
| D usedinternals | | F | matchingtilldepth | |
| D usedviews | | F | numberatdepth | |
| F valid | | F | numbers | |
| registers | table | F | popblock | |
| F analyze | | F | prefixedconverted | |
| D collected | | F | pushblock | |
| F compare | | F | register | |
| F define | | | registered | |
| F enhance | | | reportstructure | |
| F extend | | | save | |
| F filter | | | sectionblockdata | |
| F filtercollected | | | T bodypart | |
| F finalize | | | S bookmark | |
| F findinternal | | F | set | |

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

table (basic lua)

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

tex (basic tex)

| attribute | table | getmuglue | function |
|--------------------------|----------------------|--------------------------------|----------------------|
| badness | function | getmuskip | function |
| box | table | getnest | function |
| catcode | table | getsfcode | function |
| conditionals | data table | getskip | function |
| constants | data table | gettoks | function |
| count | table | getuccode | function |
| cprint | function | glue | table |
| ctdcatcodes | number | hashtokens | function |
| ctxcatcodes | number | ifs | data table |
| definefont | function | inicatcodes | number |
| delcode | table | init_rand | function |
| dimen | table | isattribute | function |
| directives | data table | isbox | function |
| enableprimitives | function | iscount | overloaded function |
| error | function | isdefined | function |
| extraprimitives | function | isdimen | overloaded function |
| finish | function | ismuskip | overloaded function |
| fontidentifier | function | isskip | overloaded function |
| fontname | function | istoken | function |
| force_synctex_line | function | istoks | function |
| force_synctex_tag | function | lccode | table |
| fprint | function | linebreak | function |
| get | function | lists | table |
| get_synctex_line | function | lua_math_random | function |
| get_synctex_mode | function | lua_math_randomseed | function |
| get_synctex_tag | function | luacatcodes | number |
| getattribute | function | mathcode | table |
| getbox | function | modes | data table |
| getboxresourcedimensions | function | muglue | table |
| getcatcode | function | muskip | table |
| getcount | function | nest | table |
| getdelcode | function | nilcatcodes | number |
| getdelcodes | function | normal_rand | function |
| getdimen | function | notcatcodes | number |
| getglue | function | number | function function |
| getlccode | function | primitives | |
| getlist | function function | print | function number |
| getmath | function function | prtcatcodes | number function |
| getmathcode | function function | resetparagraph romannumeral | function function |
| getmathcodes | TUNCTION | romannumerat | TUNCTION |

| round | function | setuccode | function |
|------------------|----------|------------------|------------|
| run | function | sfcode | table |
| saveboxresource | function | shipout | function |
| scale | function | show_context | function |
| scantoks | function | skip | table |
| set | function | sp | function |
| set_synctex_line | function | splitbox | function |
| set_synctex_mode | function | sprint | function |
| set_synctex_tag | function | systemmodes | data table |
| setattribute | function | takebox | function |
| setbox | function | texcatcodes | number |
| setcatcode | function | toks | table |
| setcount | function | tpacatcodes | number |
| setdelcode | function | tpbcatcodes | number |
| setdimen | function | tprint | function |
| setglue | function | trackers | data table |
| setlccode | function | triggerbuildpage | function |
| setlist | function | txtcatcodes | number |
| setmath | function | type | function |
| setmathcode | function | uccode | table |
| setmuglue | function | uniform_rand | function |
| setmuskip | function | uniformdeviate | function |
| setnest | function | uprint | function |
| setsfcode | function | useboxresource | function |
| setskip | function | vrbcatcodes | number |
| settoks | function | write | function |

texconfig (basic tex)

error_line number
expand_depth number
formatname string
half_error_line number
hash_extra number

kpse_init boolean
max_in_open number

max_print_line number
max_strings number
nest_size number
param_size number
save_size number
shell escape string

texio (basic tex)

setescape function
write function

write_nl function

token (basic tex)

| get_activefunctionput_nextfunctionget_cmdnamefunctionscan_codefunctionget_commandfunctionscan_csnamefunctionget_csnamefunctionscan_dimenfunctionget_expandablefunctionscan_gluefunctionget_idfunctionscan_intfunctionget_indexfunctionscan_keywordfunctionget_macrofunctionscan_stringfunctionget_meaningfunctionscan_tokenfunctionget_modefunctionscan_toksfunctionget_nextfunctionscan_wordfunctionget_protectedfunctionset_macrofunctionget_tokfunctiontypefunction | create | function | is_token | function |
|--|---------------------------|----------|--------------|----------|
| get_commandfunctionscan_csnamefunctionget_csnamefunctionscan_dimenfunctionget_expandablefunctionscan_gluefunctionget_idfunctionscan_intfunctionget_indexfunctionscan_keywordfunctionget_macrofunctionscan_stringfunctionget_meaningfunctionscan_tokenfunctionget_modefunctionscan_toksfunctionget_nextfunctionscan_wordfunctionget_protectedfunctionset_macrofunction | get_active | function | put_next | function |
| get_csnamefunctionscan_dimenfunctionget_expandablefunctionscan_gluefunctionget_idfunctionscan_intfunctionget_indexfunctionscan_keywordfunctionget_macrofunctionscan_stringfunctionget_meaningfunctionscan_tokenfunctionget_modefunctionscan_toksfunctionget_nextfunctionscan_wordfunctionget_protectedfunctionset_macrofunction | get_cmdname | function | scan_code | function |
| get_expandablefunctionscan_gluefunctionget_idfunctionscan_intfunctionget_indexfunctionscan_keywordfunctionget_macrofunctionscan_stringfunctionget_meaningfunctionscan_tokenfunctionget_modefunctionscan_toksfunctionget_nextfunctionscan_wordfunctionget_protectedfunctionset_macrofunction | get_command | function | scan_csname | function |
| get_idfunctionscan_intfunctionget_indexfunctionscan_keywordfunctionget_macrofunctionscan_stringfunctionget_meaningfunctionscan_tokenfunctionget_modefunctionscan_toksfunctionget_nextfunctionscan_wordfunctionget_protectedfunctionset_macrofunction | get_csname | function | scan_dimen | function |
| get_indexfunctionscan_keywordfunctionget_macrofunctionscan_stringfunctionget_meaningfunctionscan_tokenfunctionget_modefunctionscan_toksfunctionget_nextfunctionscan_wordfunctionget_protectedfunctionset_macrofunction | <pre>get_expandable</pre> | function | scan_glue | function |
| get_macrofunctionscan_stringfunctionget_meaningfunctionscan_tokenfunctionget_modefunctionscan_toksfunctionget_nextfunctionscan_wordfunctionget_protectedfunctionset_macrofunction | get_id | function | scan_int | function |
| get_meaningfunctionscan_tokenfunctionget_modefunctionscan_toksfunctionget_nextfunctionscan_wordfunctionget_protectedfunctionset_macrofunction | get_index | function | scan_keyword | function |
| get_modefunctionscan_toksfunctionget_nextfunctionscan_wordfunctionget_protectedfunctionset_macrofunction | get_macro | function | scan_string | function |
| get_nextfunctionscan_wordfunctionget_protectedfunctionset_macrofunction | <pre>get_meaning</pre> | function | scan_token | function |
| get_protected function set_macro function | get_mode | function | scan_toks | function |
| 3. 2 | get_next | function | scan_word | function |
| get_tok function type function | get_protected | function | set_macro | function |
| | get_tok | function | type | function |

tokens (context)

| astable | function | defined | function |
|------------|----------|---------------|----------|
| bgroup | userdata | egroup | userdata |
| bits | table | getters | table |
| N active | | F box | |
| N alignme | nt | F count | |
| N begingr | oup | F dimen | |
| N characte | er | F glue | |
| N close | | F macro | |
| N comment | | F meaning | |
| N endgrou | p | F skip | |
| N endofli | ne | F token | |
| N escape | | hbox | userdata |
| N ignore | | istoken | function |
| N invalid | | letter | function |
| N letter | | letters | function |
| N mathshi | ft | other | function |
| N open | | pickup | function |
| N other | | printlist | function |
| N paramet | er | scanners | table |
| N space | | F boolean | |
| N subscri | pt | F code | |
| N supersc | ript | F conditional | |
| N whitesp | ace | F count | |
| collectors | table | F csname | |
| T data | | F dimen | |
| F default | words | F dimensio | n |
| F dowithwo | ords | F glue | |
| F flush | | F integer | |
| F install | | F keyword | |
| F registe | r | F list | |
| T registe | red | F lxmlid | |
| F show | | F number | |
| F test | | F scanclos | e |
| compile | function | F scanopen | |
| constant | function | F skip | |
| converters | table | F string | |
| S toboole | an | F token | |
| S todimen | | F tokens | |
| S toglue | | F toks | |
| S tonumbe | r | F word | |
| S tostrin | g | scantable | function |

| setters table | F boolean |
|------------------------|----------------|
| F box | F code |
| F count | F conditional |
| F dimen | F count |
| F glue | F csname |
| F macro | F dimen |
| F skip | F dimension |
| shortcuts table | F glue |
| T bits | F integer |
| N active | F keyword |
| N alignment | F list |
| N begingroup | F lxmlid |
| N character | F number |
| N close | F scanclose |
| N comment | F scanopen |
| N endgroup | F skip |
| N endofline | F string |
| N escape | F token |
| N ignore | F tokens |
| N invalid | F toks |
| N letter | F word |
| N mathshift | F scannumber |
| N open | F scanopen |
| N other | F scanstring |
| N parameter | F scanword |
| N space | F toboolean |
| N subscript | F todimen |
| N superscript | T tokens |
| N whitespace | F astable |
| N close | U bgroup |
| F inspect | T collectors |
| N open | F defaultwords |
| F report | F dowithwords |
| F scanboolean | F flush |
| F scanclose | F install |
| F scancode | F register |
| F scanconditional | F show |
| F scancsname | 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 |
| | |

S tonumber N close S tostring F inspect F defined N open U egroup F report T getters F scanboolean F box F scanclose F count F scancode F dimen F scanconditional F scancsname F glue F macro F scandimen F scandimension F meaning F scaninteger F skip F token F scankeyword U hbox F scanlist F istoken F scannumber F letter F scanopen F letters F scanstring F other F scanword F pickup F toboolean F printlist F todimen F scantable F tonumber T setters F tostring F box U vbox F count U vtop F dimen F tonumber F tostring F glue

F macro

F skip T shortcuts vbox

vtop

userdata

userdata

tracers (context)

count function
cs function
dimen function
knownlist function
lists table

T context
T internals

T scratch

name function

primitive function
printerror function
printwarning function
showlines function
strings table

S undefined

toks function
type function

trackers (context)

| data | data table | register | function |
|----------------|------------|----------|----------|
| default | function | report | function |
| disable | function | reset | function |
| dumphashtofile | function | savehash | function |
| enable | function | show | function |
| list | function | value | function |
| name | string | | |

typesetters (context)

| alignments | table | T handlers | |
|------------------|-------|--------------------|-------|
| F handler | cubic | F installhandler | |
| F set | | F processmath | |
| breakpoints | table | F set | |
| F define | cubic | F setcolor | |
| F handler | | F setmath | |
| D mapping | | F tomode | |
| T methods | | firstlines | table |
| T numbers | | T actions | cabcc |
| F set | | F default | |
| F setreplacement | | F line | |
| cases | table | F word | |
| T actions | table | F handler | |
| F handler | | F set | |
| | | fontkerns | table |
| F register | | | table |
| F set | +abla | F handler initials | table |
| characteralign | table | | tabte |
| F handler | | T actions | |
| F resetcharacter | • | F default | |
| F setcharacteral | | F addanchortoline | |
| characters | table | F addtoline | |
| F handler | | F calculatedelta | |
| T methods | | F checkline | |
| F replacenbsp | | F handler | |
| F replacenbspace | | F moveinline | |
| checkers | table | F normalize | |
| F handler | | F set | |
| F reset | | injectors | table |
| F set | | F check | |
| cleaners | table | T list | |
| F handler | | F mark | |
| F set | | F reset | |
| digits | table | F set | |
| T actions | | F show | |
| F handler | | italics | table |
| F set | | F enablemath | |
| directions | table | F enabletext | |
| F getfences | | F forcevariant | |
| F getglobal | | F handler | |
| F getmethod | | F reset | |
| F handler | | F set | |

| koma | table | | |
|----------------|----------|----------------|--------------|
| kerns | table | F reset | |
| D factors | | F split | |
| F handler | | F startapply | |
| F keepligature | | F stopapply | |
| B keeptogether | | F stripped | |
| D mapping | | F tostring | |
| F set | | rubies | table |
| manipulators | table | F attach | |
| F apply | | F check | |
| F applyspecifi | cation | showsuspects | function |
| T methods | | spacings | table |
| F Word | | F define | |
| F Words | | F handler | |
| F abbreviated | - | D mapping | |
| F expandedjou | urnal | T numbers | |
| F lowercase | | T frenchpunct | cuation |
| F stripperio | d | T character | S |
| F uppercase | | S name | |
| T patterns | | N number | |
| U list | | F reset | |
| U pair | | F set | |
| F splitspecifi | cation | F setup | |
| margins | table | wrappers | table |
| F finalhandler | | F handler | |
| F globalhandle | r | xtables | table |
| F localhandler | | F cleanup | |
| F save | | F construct | |
| marksuspects | function | F create | |
| paragraphs | table | F finish_row | |
| F addanchortol | ine | F flush | |
| F addtoline | | F initialize_c | onstruct |
| F calculatedel | ta | F initialize_r | eflow_height |
| F checkline | | F initialize_r | eflow_width |
| F handler | | F next_row | |
| F moveinline | | F reflow_heigh | t |
| F normalize | | F reflow_width | |
| F set | | F set_construc | t |
| processors | table | F set_reflow_h | eight |
| F apply | | F set_reflow_w | idth |
| F register | | | |

unicode (extra lua)

| ascii | table | F len | |
|-----------|-------|---------------|----------|
| F byte | | F lower | |
| F char | | F match | |
| F dump | | F rep | |
| F find | | F reverse | |
| F format | | F sub | |
| F gfind | | F upper | |
| F gmatch | | toutf32string | function |
| F gsub | | utf8 | table |
| F len | | F byte | |
| F lower | | F char | |
| F match | | F characters | |
| F rep | | F chrlen | |
| F reverse | | F count | |
| F sub | | F dump | |
| F upper | | F filetype | |
| grapheme | table | F find | |
| F byte | | F format | |
| F char | | F gfind | |
| F dump | | F gmatch | |
| F find | | F gsub | |
| F format | | F is_valid | |
| F gfind | | F len | |
| F gmatch | | F length | |
| F gsub | | F lower | |
| F len | | F magic | |
| F lower | | F match | |
| F match | | F remapper | |
| F rep | | F rep | |
| F reverse | | F replacer | |
| F sub | | F reverse | |
| F upper | | F split | |
| latin1 | table | F splitlines | |
| F byte | | F sub | |
| F char | | F subtituter | |
| F dump | | F tocodes | |
| F find | | F toeight | |
| F format | | F toentities | |
| F gfind | | F tostring | |
| F gmatch | | F totable | |
| F gsub | | F upper | |
| | | | |

F ustring
F utf16_to_utf8_be
F utf16_to_utf8_be_t
F utf16_to_utf8_le
F utf16_to_utf8_le_t
F utf16_to_utf8_t
F utf32_to_utf8_be
F utf32_to_utf8_be_t
F utf32_to_utf8_be_t
F utf32_to_utf8_le

F utf32_to_utf8_le_t
F utf32_to_utf8_t
F utf8_to_utf16
F utf8_to_utf16_be
F utf8_to_utf16_le
F utf8_to_utf8_t
F values
F xstring

url (context)

| addscheme | function |
|-----------|----------|
| barepath | function |
| construct | function |
| escape | function |
| filename | function |
| hashed | function |

hasscheme function
query function
split function
toquery function
unescapeget function

utilities (context)

| debugger | table | F skiplong | |
|-------------------|-------|--------------------|-------|
| F disable | | F skipposition | |
| F enable | | F skipshort | |
| F savestats | | F writebyte | |
| F showstats | | F writecardinal2 | |
| F showtraceback | | F writecardinal4 | |
| files | table | F writestring | |
| F close | | formatters | table |
| F getposition | | F formatcolumns | |
| F getsize | | F list | |
| F look | | F stripzeros | |
| F open | | garbagecollector | table |
| F read2dot14 | | F check | |
| F readbyte | | N criterium | |
| F readbytes | | B enabled | |
| F readbytetable | | lua | table |
| F readcardinal | | B alwaysstripcode | |
| F readcardinal1 | | F checkmemory | |
| F readcardinal2 | | F compile | |
| F readcardinal2le | | F loadedluacode | |
| F readcardinal3 | | F loadstripped | |
| F readcardinal3le | | N nofstrippedbytes | |
| F readcardinal4 | | N nofstrippedchunk | 5 |
| F readcardinal4le | | F registerfinalize | r |
| F readchar | | B stripcode | |
| F readfixed2 | | T strippedchunks | |
| F readfixed4 | | F strippedloadstri | ng |
| F readinteger | | T suffixes | |
| F readinteger1 | | S lua | |
| F readinteger2 | | S luc | |
| F readinteger2le | | S lui | |
| F readinteger3 | | S luj | |
| F readinteger3le | | S luv | |
| F readinteger4 | | S tma | |
| F readinteger4le | | S tmc | |
| F readsignedbyte | | S tua | |
| F readstring | | S tuc | |
| F readtag | | packers | table |
| F setposition | | F hashed | |
| F size | | F new | |
| F skip | | F pack | |

```
F simplehashed
                                                                                                                                                  B latin-modern-light-designsize
                                                                                                                                                  B modern-light
        F strip
                                                                                                                                              T modern-mono.modern-base-mono
        F unpack
                                                                                                                                                  B modern-base-mono
        N version
                                                  table
parsers
                                                                                                                                                  B modern-mono
        F add settings to array
                                                                                                                                              T modern-variable, latin-modern-variable-designsize, la
        F arguments_to_table
                                                                                                                                                  B latin-modern-variable
                                                                                                                                                  B latin-modern-variable-designsize
        F array to string
        F csvsplitter
                                                                                                                                                  B modern-variable
                                                                                                                                              T modernvariable.modern-variable
        F getparameters
        F groupedsplitat
                                                                                                                                                  B modern-variable
        F hash to string
                                                                                                                                                  B modernvariable
       T hashes
                                                                                                                                               T modernvariablelight, modern-variable-light
                                                                                                                                                  B modern-variable-light
           T settings to set
               T max, fit, broad, auto
                                                                                                                                                  B modernvariablelight
                   B auto
                                                                                                                                              T serif.sans.mono
                   B broad
                                                                                                                                                  B mono
                  R fit
                                                                                                                                                  R sans
                                                                                                                                                  B serif
                  R max
               T modern, latin-modern
                                                                                                                                              T text, hidden, paper, page, leftpage, rightpage
                   B latin-modern
                                                                                                                                                  B hidden
                  B modern
                                                                                                                                                  B leftpage
               T\ modern, latin-modern-variable, latin-modern-variable, modern-wariable, modern-wariable
                   B latin-modern
                                                                                                                                                  B paper
                   B latin-modern-condensed
                                                                                                                                                  B rightpage
                   B latin-modern-variable
                                                                                                                                                  B text
                                                                                                                                        F iterator
                  B modern
                  B modern-condensed
                                                                                                                                        F keq to hash
                   B modern-variable
                                                                                                                                        F listitem
               T modern, latin-modern-designsize, latin-modern
                                                                                                                                        F make_settings_to_hash_pattern
                   B latin-modern
                                                                                                                                        F mergehashes
                  B latin-modern-designsize
                                                                                                                                        F options to array
                   R modern
                                                                                                                                        F options to hash
               T modern, modern-base
                                                                                                                                        T patterns
                   B modern
                                                                                                                                           U settings_to_array
                  B modern-base
                                                                                                                                           U settings to hash a
               T modern-condensed, latin-modern-condensed-designsize, latin Umosdetrbingsngdeen_beadshmodern-light-condensed, latin-modern-l
                   B latin-modern-condensed
                                                                                                                                           U settings_to_hash_c
                                                                                                                                           U unittotex
                  B latin-modern-condensed-designsize
                  B latin-modern-light-condensed
                                                                                                                                        F process stripped settings
                   B modern-condensed
                                                                                                                                        F rfc4180splitter
                   B modern-light-condensed
                                                                                                                                        F runtime
               T modern-light, latin-modern-light-designsize, latin-modernFlightings to array
                   B latin-modern-light
                                                                                                                                        F settings_to_array_obey_fences
```

| F settings_to_arra | v with reneat | F | initialize | |
|----------------------|---------------|------|-----------------|-------|
| F settings_to_hash | | | list | |
| F settings_to_hash | | | new | |
| F settings_to_hash | | | register | |
| F settings to number | _ | | report | |
| F settings_to_set | | | reset | |
| F simple_hash_to_s | trina | | show | |
| F splitmethod | CT ING | stac | | table |
| F splitthousands | | | new | cabic |
| F stepper | | stor | | table |
| F stripped_setting | s to array | | allocate | cabic |
| F unittotex | 5_t0_u11uy | | checked | |
| F unittoxml | | · | mark | |
| randomizer | table | | marked | |
| F get | cabic | | setinitializer | |
| F getnumber | | | sparse | |
| F getseed | | stre | | table |
| F popseed | | | close | 10010 |
| F pushseed | | - | getposition | |
| F reuseseed | | | look | |
| F setseed | | | open | |
| F setseedi | | | read2dot14 | |
| report | function | F | read2dot4 | |
| sequencers | table | F | readbyte | |
| F appendaction | | F | readbytes | |
| F appendgroup | | F | readbytetable | |
| F compile | | F | readcardinal | |
| F disableaction | | F | readcardinal1 | |
| F disablegroup | | F | readcardinal2 | |
| F enableaction | | F | readcardinal2LE | |
| F enablegroup | | F | readcardinal3 | |
| D functions | | F | readcardinal3le | |
| F localize | | F | readcardinal4 | |
| F new | | F | readchar | |
| F nodeprocessor | | F | readfixed2 | |
| F prependaction | | F | readfixed4 | |
| F prependgroup | | F | readinteger | |
| F removeaction | | F | readinteger1 | |
| F replaceaction | | F | readinteger2 | |
| F setkind | | F | readinteger2le | |
| F tostring | | F | readinteger3 | |
| setters | table | F | readinteger3le | |
| F disable | | F | readinteger4 | |
| F enable | | F | readinteger4le | |
| | | | | |

F readsignedbyte
F readstring
F setposition
F size
F skip
F skipbytes
F skiplong
F skipshort
rings
table
F collapsecrlf

F skipshort

strings table

F collapsecrif

T formatters

F add

F new

F newcollector

F newrepeater

F nice

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

U retain and collapse
U retain and no empty
F striplines
F striplong
F tabtospace

T tracers

tables table

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

templates table
 F load

F replacevalue

F replace

F replacer

F resolve

vf (context)

| char | function |
|--------|----------|
| down | function |
| fontid | function |
| image | function |
| node | function |
| nop | function |

| pop | function |
|---------|----------|
| push | function |
| right | function |
| rule | function |
| special | function |

visualizers (context)

| escapepatterns | data table | signal | string |
|-----------------------|------------|-----------------|------------|
| getspecification | function | signalpattern | userdata |
| getvisualizer | function | specifications | data table |
| load | function | visualize | function |
| makenested | function | visualizebuffer | function |
| makepattern | function | visualizefile | function |
| newgrammar | function | visualizestring | function |
| newhandler | function | write | function |
| parsedxml | function | writeargument | function |
| pattern | function | writedefault | function |
| register | function | writeemptyline | function |
| registerescapecommand | function | writenewline | function |
| registerescapeline | function | writespace | function |
| registerescapepattern | function | | |

xml (context)

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

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

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

| totable | function | unprivatized | function |
|---------------------|----------|---------------|----------|
| toxml | function | unspecialized | function |
| tprint | function | withelement | function |
| traverse | function | withelements | function |
| unescaped | function | wrap | function |
| unescapedentitylpeg | userdata | xmlns | table |

zip (extra lua)

archivestableopenarchivefunctionclosefunctionopenfilefunctionclosearchivefunctionregisteredfilestableopenoverloaded functiontypefunction

zlib (extra lua)

adler32 function
compress function
compressobj function
crc32 function

decompress
decompressobj function
version function