## Elstob: A Variable Font for Medievalists

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## Introduction

The Elstob font (named for the eighteenth-century medievalist Elizabeth Elstob) is based on the Double Pica typeface commissioned by Bishop John Fell in the seventeenth century and used by the Oxford University Press for many years. Though its origin is an old-style typeface, it includes many modernizing touches, and it exploits the latest in font technology so as to provide capabilities available in few other fonts. It comes in two versions: **static** and **variable**.

#### I.I. The Static Font

Most of the fonts on your computer are static: that is, each file contains outlines for a single style. For example, the ubiquitous Times New Roman typically has four styles in four files: regular, bold, italic, and bold italic. Because it has more than one style, we call Times New Roman a **font family**. Think of this family as having two stylistic **axes**, one being the **roman–italic** axis, on which only two positions are available (since in serif typefaces there is no middle ground between roman and italic), and the other being the **Weight** axis, on which many positions are possible, though the Times New Roman font family provides only two—regular and bold. Some static font families come packaged in more than four files and provide both more stylistic axes and more positions on these axes.

The static version of Elstob (ElstobD, where the D stands for "Desktop") consists of forty-eight files (don't panic—you're not required to install them all) and has three stylistic axes: Roman–Italic, Weight, and Optical Size. The weights are ExtraLight, Light, Regular, Medium, SemiBold, Bold, and ExtraBold.

The **Optical Size** axis varies the shapes of characters to look good at particular sizes. The static version comes in five optical sizes: 8pt, 10pt, 12pt (Regular), 14pt,

and 18pt. You should choose the one that comes as close as possible to the point size of the text you are setting—for example, "ElstobD 8pt" for footnotes and "ElstobD 14pt Medium" for subheads, depending on your stylistic preferences.

#### **1.2.** The Variable Font

A variable font packages an almost infinite number of styles into a single font file. Whereas the static version of Elstob consists of forty-eight files, the variable version consists of only two: Elstob.ttf (roman) and Elstob-Italic.ttf (italic). And yet the variable version provides many more stylistic choices than the static version because you can choose any value along any of the font's stylistic axes. The weight axis runs from 200 Extra Light to 800 Extra Bold. You can choose either of those, or one of the other standard weights: 300 for Light, 400 for Regular, 500 for Medium, 600 for SemiBold, or 700 for Bold. Or you can, if you're so minded, choose an oddball weight like 523.45.

In addition to the **Weight** axis, Elstob has two others, **Optical Size** and **Grade**, and the italic face has one more, **Slant**. **Optical Size** works the same in the variable version as it does in the static version, but you are not limited to five optical sizes, so you can tune your type more closely to the size of your text. This axis runs from 6 to 18 (the numbers corresponding roughly to point sizes). Some applications (like Adobe InDesign) will automatically choose the appropriate value (though you may override it if you like).

Grade (o-1) is like Weight, but it varies the weight of characters without changing their widths. This can be useful in web pages, where dynamically changing the Weight axis (for example, on mouseover) may cause text to reflow annoyingly. Grade will not generally be useful in printed documents.

**Slant** (0–15) varies the slant of the italic from *o steeply slanted* to 15 nearly upright. The slant of the static fonts is equivalent to *a Slant of 8 in the variable font*.

The values of the various axes can be combined in any way you like. You will find, however, that some combinations are problematic or inadvisable. For example, you can add a little Grade to ExtraBold text to produce **even bolder text**, but if you overdo it, letters will collide and become misshapen—**like this**. You should add a Grade of no more than 0.2 to the ExtraBold face. Combining ExtraBold and maximum Slant may also produce misshapen characters. It is not

unexpected that, in a three- or four-dimensional design space, some positions will be less than optimal: experiment with the Elstob specimen page to find the styles you like.

When beginning a project with Elstob, consider whether the software you're using has adequate support for variable fonts. If not, use the static version. All of the major web browsers support variable fonts, which you can control via CSS. The major programs of the Adobe Creative Suite also support variable fonts, as does LuaTeX, used to produce this document; but most desktop applications (such as word processors) do not. ElstobD, the static version of Elstob, should work with all applications.

Elstob aims to cover all European languages using the Latin alphabet, and it offers a curated collection of Unicode characters of interest to medievalists. It includes the basic International Phonetic Alphabet and the most commonly used mathematical symbols. Version 2 includes many stylistic revisions and a few new characters, especially letters and diacritics from the *Ormulum*, recently added to Unicode. The OpenType features of the font have been revised to match as closely as possible those of the developer's Junicode font. Unnecessary or redundant features have been removed, and technical changes have been made to improve accessibility.

<sup>&</sup>lt;sup>1</sup>Make sure to use the latest version of LuaT<sub>E</sub>X, as support for variable fonts was added very recently. XeTeX does not support variable fonts.

## 2. Specimens

# ABCDEFGHI JKLMNOPQRS TUVWXYZPĐÆP abcdefghijklmnopqrstuvwx Quousque tandem abutere, Catilina, patientia nostra? Quousque tandem abutere, Catilina, patientia nostra? 0123456789 0123456789

#### 2.1. Old English (regular)

Sum wer wæs ġeseten on þām lande þe is ġehāten Hus; his nama wæs Iob. Se wer wæs swīðe bilewite and rihtwīs and ondrædende God and forbūgende yfel. Him wæron ācennede seofan suna and ðrēo dohtra. Hē hæfde seofon ðūsend scēapa and ðrēo ðūsend olfenda, fīf hund ġetymu oxena and fīf hund assan and ormæte miċelne hīred. Se wer wæs swīðe mære betwux eallum ēasternum, and his suna fērdon and ðēnode ælċ ōðrum mid his gōdum on ymbhwyrfte æt his hūse, and bærtō heora swustru ġelaðodon.

### 2.2. Old English with insular letter-forms (light)

Hen on ŏırum geane ronŏrende ælrgiue ýmma Eadpander cýnger modon ¬ handacnucer cýnger. ¬ on þam rýlran geane genædde re cýng ¬ hir pican þ mann reeolde ronŏian uc co Sandpic reipu. ¬ reccon paulr eonl ¬ oddan eonl co hearodmannū þænco. Da gepende Godpine eonl úc rpā bnýcge mid hir reýpum co ýrenan. and let uc ane dæge æn midrumener mærreærene þ he cō co nærre. Þe ir beruðan numenea. Þa cō hic co picenne þā eonlū uc co randpic. ¬ hi þa gependon uc ærcen þam oðnum reipum. ¬ bead man landrýnde uc ongean þa reipu.

#### 2.3. Old English in runes (various weights)

PINN PIEMO EMEP ES PMEXMSEMEIX PERE XENEIN XEERS DER EMES XEMOT XINDEM ERESEN EFS. PINN PIEMO EMEP ES PMEXMSEMEIX PERE XENEIN XEERS DER EM ES XEMOT XINDEM ERESEN EFS. PINN PIEMO EMEP ES PMEXMSEMEIX PERE XENEIN XEERS DER EM ES XEMOT XINDEM ERESEN EFS. PINN PIEMO EMEP ES PMEXMSEMEIX PERE XENEIN XEERS DER EM ES XEMOT XINDEM ERESEN EM ES XEMOT XINDEM ERESEN EFS. PINN PIEMO EMEP ES PMEXMSEMEIX PERE XENEIN XEERS DER EM ES XEMOT XINDEM ERESEN EFS. PINN PIEMO EMEP ES PMEXMSEMEIX PERE XENEIN XEERS DER EM ES XEMOT XINDEM ERESEN EFS. PINN PIEMO EMEP ES PMEXMSEMEIX PERE XENEIN XEERS DER EM ES XEMOT XINDEM ERESEN EFS. PINN ES XEMOT XINDEM ERESEN EFS. PINN ES XEMOT XINDEM ERESEN EFS. PINN ES XEMOT XINDEM ERESEN EFS.

#### **2.4.** Middle English: *Ancrene Wisse* (Medium)

Nan ancre bi mi read ne schal makien psessiun. † if bihaten ase heast? but þæo þinges. † beoð obedience. chastete. † stude steaðeluestnesse. † ha ne schal † stude neaŭ mare changin bute for nede ane. as strengðe † deaðes dred. obedience of hire bischop oðer of his herre. for hpa se nimeð þing on hond † bihat hit Godd as heast sorte don hit? ha bint hire þerto. † sunegeð deadliche i þe bruche. 3ef ha hit bækeð pilles. 3ef ha hit ne bihat napt. ha hit mei do þah † leauen hpen ha pel pule. as of mete. of drunch. slesch sorgan oðer sisch. alle oþer spucche þinges. of perunge. of liggunge. of ures. of oþre beoden.

#### 2.5. Middle English: *The Ormulum* (SemiBold)

Nu bpoþepp pallté bpoþen min. affté þe flæshess kiðe. ¬ bpoþen min i cpisstenndom. þupph fulluhht ¬ þupph τροβþe. ¬ bpoþepp min i goðdess hus. σέτ o þe þpiðe pise. Þupph þatt pit hasenn taken ba. an pegell boc το follgenn. Vnndepp kanunnkess hað. ¬ lis. Spa sum sappstin sette. It hase don spa sum þu baðð: ¬ sopþeðð τε þi pille. ¬ It hase pend intill ennglissh. goðdspelless hallge sápe: Afsté þ litle pitt þatt me. min ðpihhtinn hase lenneð.

#### 2.6. Early Modern English (Light Italic)

When the right vertuous E.W. and I were at the Emperours Court togither, wee gave our felves to learne horfemanship of Jon Pietro Pugliano, one that with great commendation had the place of an Esquire in his stable: and hee according to the fertilnes of the Italian wit, did not onely affoord us the demonstration of his practise, but sought to enrich our mindes with the contemplations therein, which he thought most precious. But with none I remember mine eares were at any time more loaden, then when (either angred with slow paiment, or mooved with our learnerlike admiration) hee exercised his speech in the praise of his facultie.

#### 2.7. Latin (Italic)

Humanas laudes et mortalium insulas uidimus aut ére inciso conscriptas aut auro radiantib: litteris ad posteritatis memoriam comendatas. Et ista attendentes miror quare non erubes cimo militum xpi uictorias silentio tégere o n ad laudem imperatoris eo qualit pugnauerint contra hostes uicerint sedulis saltim uilibus tradere o ad incitandos animos bellato quiligentius explicare. Multa bona taliu narrationu scripta convertant; Laus dei est cum ista leguntur memoria sco excolitur: aedisicacio mitib: traditur, honor martiribus exhibour.

#### 2.8. Old Icelandic (Medium Italic)

Pá mælti Hárr: Pá er þeir gengu með sævarstrondu Borssynir, fundu þeir tré tvau ok tóku upp trén ok skopuðu af menn. Gaf inn fyrsti ond ok líf, annarr vit ok hræring, þriði ásjónu, mál ok heyrn ok sjón, gáfu þeim klæði ok nofn. Hét karlmaðrinn Askr, en konan Embla, ok ólst þaðan af mannkindin, sú er byggðin var gefinn undir Miðgarði. Þar næst gerðu þeir sér borg í miðjum heimi, er kolluð er Ásgarðr. Þat kollum vér Trója. iocoi oicio

#### 2.9. Gothic (Medium Italic, Maximum Slant)

Warþ þan in dagans jainans, urrann gagrefts fram kaisara Agustau, gameljan allana midjungard. soh þan gilstrameleins frumista warþ at wisandin kindina Swriais raginondin Saurim Kwreinaiau. jah iddjedun allai, ei melidai weseina, harjizuh in seinai baurg. Urrann þan jah Iosef us Galeilaia, us baurg Nazaraiþ, in Iudaian, in baurg Daweidis sei haitada Beþlaihaim, duþe ei was us garda fadreinais Daweidis, anameljan miþ Mariin sei in fragiftim was imma qeins, wisandein inkilþon. iocoi oicio

# 3. OpenType features

OpenType is the format employed by most modern fonts. It enables such technical wizardry as ligatures, kerning, and several kinds of variation. OpenType features, when they can be controlled by users, can be selected via four-character tags. Some applications offer more access to these features than others. The major web browsers support all of Elstob's features, and so do LibreOffice, Affinity Publisher, XeTeX and LuaTeX. The Adobe Creative Suite supports a generous selection of them. Microsoft Word, unfortunately, supports only a few OpenType features.

Elstob's OpenType features are for the most part a subset of those of Junicode. It will be noted below when the two fonts differ. Features are presented in alphabetical order, but this is not the order in which they are executed when more than one feature has been applied.

Different applications provide different ways of accessing OpenType features. Those that are available in Microsoft Word can be accessed in the "Advanced" tab of the "Font" dialog. In the Adobe apps those features that are available can be accessed via the "Character" dialog, and in InDesign via the "O" icon that appears when text is selected (InDesign users should select the "World-Ready Paragraph Composer" when using this font). For variable font handling in LuaTEX, see the source for this document.

## 3.1. aalt (Access All Alternates)

Provides access to all variants in the font. Applications that use this feature usually do so via an element of the user interface.

#### 3.2. c2sc (Small Capitals From Capitals)

Converts capitals to small caps. Every capital in the font has a corresponding small capital. ABCDPDÆ  $\rightarrow$  ABCDPDÆ.

## 3.3. calt (Contextual Alternates)

In most applications this feature is on by default. Provides many alternate characters that vary automatically by context.

## 3.4. case (Case-Sensitive Forms)

Mostly provides alternate diacritics for capitals, e.g. ÂÄÉËÒÕŰŪ. Also converts old-style to lining figures to harmonize with capitals. Some applications turn this feature on automatically in the vicinity of capitals.

## 3.5. ccmp (Glyph Composition/Decomposition)

In most applications this feature is on by default and cannot be turned off. In Elstob it performs (i.) removal of dot from i and j when followed by combining marks; and (2.) substituting ligatures for certain vowel + rhotic hook (U+02DE) combinations.

#### 3.6. cvo7 (Variants of D)

Provides insular D (O).

## 3.7. cvo8 (Variants of d)

Provides two shapes of insular d: 1. d; 2. d.

Provides insular F (f).

Provides: 1.  $\mu$  (insular f); 2. f (narrow f).

Provides: 1. δ (insular G); 2. Ø (Orm's hard G).

Provides: 1.  $\chi$  (insular g); 2.  $\chi$  (Orm's hard g); 3.  $\chi$  (script g)

Provides dotless i (1).

Provides insular R (J1).

Provides: 1. p (insular r); 2. 2 (r rotunda).

Provides insular S (J).

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Provides: 1. r (insular s); 2. f (long s); 3. f (narrow long s).

Provides insular T (乙).

Provides insular t ( $\tau$ ).

#### 3.19. cv57 (Variants of *æ*)

Italic face only. Provides an alternative (and in some contexts less ambiguous)  $\alpha$  ( $\alpha$ ). This feature also affects U+01E3 ( $\alpha$ ) and U+01FD ( $\alpha$ ).

## 3.20. cv69 (Variants of Tironian et sign 7)

Provides two variants of U+204A: 1. 7; 2. 7.

## 3.21. cv76 (Variants of ?)

Provides the punctus interrogativus (?).

## 3.22. cv80 (variants of bracket characters)

In the italic face, provides upright variants of the most common bracket characters: ()[] $\{\}$  $\langle$  $\rangle$ .

#### 3.23. dlig (Discretionary Ligatures)

Provides & and & ligatures, and in italic only, as, is, us.

#### 3.24. frac (Fractions)

Elstob includes only three fractions: ¼, ½, ¾. Type as number + slash + number.

### 3.25. hlig (Historical Ligatures)

Provides several ligatures used in Orm's orthography:  $\beta$  p h for  $\beta\beta$  pp hh. The first two of these correspond to Unicode U+A7D3 and U+A7D5, but using the ligatures provides an intelligible fallback when a font with these rare Unicode characters is not available.

## 3.26. liga (Standard Ligatures)

In most applications this feature is on by default. Provides ligatures that should always be used for certain letter combinations (e.g. first flat office afflict offer).

### 3.27. locl (Localized Forms)

In most applications this feature is on by default and cannot be turned off. It provides the English forms of thorn and eth ( $p \nmid \delta$ ) when English is the active language.

#### 3.28. ordn (Ordinals)

Provides superscript forms of a and o when preceded by a figure: 1ª, 2°.

#### 3.29. smcp (Small Capitals)

Converts lowercase letters to small capitals. abcdeb $\delta x \to ABCDEpD$  $\pounds$ .

#### 3.30. ssoi (Alternate Thorn and Eth)

Overrides any language setting to provide alternate shapes of the letters thorn and eth: Nordic shapes when the language is English, and English shapes otherwise.

#### 3.31. sso2 (Insular Letter-Shapes)

Transliterates from modern to insular (Old English, Old Irish) letter-shapes: dfgirstw  $\rightarrow$  dfgipfcp. Note that calt later changes the sequence  $\mathbf{rc}$  to  $\mathbf{fc}$ . You can override this behavior by placing U+200C zero-width non-joiner or any invisible formatting mark between the  $\mathbf{s}$  and the  $\mathbf{t}$ .

### 3.32. sso4 (IPA Letter-Shapes)

Changes g to g and (in italic only) a to a. This feature has no counterpart in Junicode.

## 3.33. sso8 (Contextual Long s)

In English and French text, and in combination with calt, distributes **s** and **f** according to rules commonly employed by early printers in each language.

#### 3.34. ss12 (Early English Futhorc)

Transliterates Latin script to runic with characters from the Early English futhorc. fuhorc  $\rightarrow P \Pi P R R$ .

#### 3.35. ssi3 (Elder Futhark)

Transliterates Latin script to runic with characters from the Elder futhark. fuþark → ₱₽₽₽₽₹.

## 3.36. ss14 (Younger Futhark)

Transliterates Latin script to runic with characters from the Younger futhark. fuhark  $\rightarrow P \Pi P R P$ .

## 3.37. ssi5 (Long Branch to Short Twig)

Use with ssi4. Converts the default (Long Branch) version of the Younger futhark to the Short Twig version. fuþark  $\rightarrow \mbox{PNP1RP}$ .

## 3.38. ssi6 (Contextual r Rotunda)

Together with calt, distributes r and 2 in accordance with the rules most often employed in medieval manuscripts and early printed books: form workrooms priest prayer.

#### 3.39. subs (Subscripts)

Subscript numbers, both lining and old style. 01234  $\rightarrow$  01234  $\rightarrow$  01234.

#### 3.40. sups (Superscripts)

Superscript numbers, both lining and old style.  $56789 \rightarrow 56789$ ;  $56789 \rightarrow 56789$ .

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### 3.41. swsh (Swash)

Italic only. Provides swash forms of certain capitals ( $\mathcal{ADJPRT}$ ) plus  $\chi$  and k.

# 3.42. tnum (Tabular Figures), onum (Old-Style Figures), pnum (Proportional Figures), lnum (Lining Figures)

In various combinations, provides figures in four styles: tabular lining (the default), tabular old-style, proportional lining, proportional old-style. The font contains variants of its mathematical operators to harmonize with the old-style figures.

## 3.43. zero (Slashed Zero)

Provides slashed zero (o 0) in all figure styles.

# 4. Unicode character list

This is a list of characters with Unicode encodings in Elstob. In addition, the font contains more than 300 unencoded characters, including small caps, ligatures, and symbols, accessible via OpenType features (listed above).

<b>Q</b>	a7co	LATIN CAPITAL LETTER OLD POLISH O
g	a7do	LATIN CAPITAL LETTER CLOSED INSULAR G
A	0041	LATIN CAPITAL LETTER A
A	a732	LATIN CAPITAL LETTER AA
N	a73a	LATIN CAPITAL LETTER AV WITH HORIZONTAL BAR
Ŋ	a73c	LATIN CAPITAL LETTER AY
Á	OOCI	LATIN CAPITAL LETTER A WITH ACUTE
Ă	0102	LATIN CAPITAL LETTER A WITH BREVE
Â	0002	LATIN CAPITAL LETTER A WITH CIRCUMFLEX
Ä	0004	LATIN CAPITAL LETTER A WITH DIAERESIS
À	оосо	LATIN CAPITAL LETTER A WITH GRAVE
Ā	0000	LATIN CAPITAL LETTER A WITH MACRON
Ю	a734	LATIN CAPITAL LETTER AO
Ą	0104	LATIN CAPITAL LETTER A WITH OGONEK
Å	0005	LATIN CAPITAL LETTER A WITH RING ABOVE
Å	oıfa	LATIN CAPITAL LETTER A WITH RING ABOVE AND ACUTE

Ã	ooc3	LATIN CAPITAL LETTER A WITH TILDE
Æ	a <del>7</del> 36	LATIN CAPITAL LETTER AU
$\boldsymbol{N}$	a738	LATIN CAPITAL LETTER AV
Æ	0006	LATIN CAPITAL LETTER AE
Æ	oıfc	LATIN CAPITAL LETTER AE WITH ACUTE
Æ	oie2	LATIN CAPITAL LETTER AE WITH MACRON
В	0042	LATIN CAPITAL LETTER B
С	0043	LATIN CAPITAL LETTER C
Ć	0106	LATIN CAPITAL LETTER C WITH ACUTE
Č	OIOC	LATIN CAPITAL LETTER C WITH CARON
Ç	00C7	LATIN CAPITAL LETTER C WITH CEDILLA
Ċ	огоа	LATIN CAPITAL LETTER C WITH DOT ABOVE
D	0044	LATIN CAPITAL LETTER D
Đ	oodo	LATIN CAPITAL LETTER ETH
Ď	огое	LATIN CAPITAL LETTER D WITH CARON
Đ	OIIO	LATIN CAPITAL LETTER D WITH STROKE
Q	a779	LATIN CAPITAL LETTER INSULAR D
Е	0045	LATIN CAPITAL LETTER E
É	0009	LATIN CAPITAL LETTER E WITH ACUTE
Ĕ	0114	LATIN CAPITAL LETTER E WITH BREVE
Ě	она	LATIN CAPITAL LETTER E WITH CARON
Ê	ooca	LATIN CAPITAL LETTER E WITH CIRCUMFLEX
Ë	oocb	LATIN CAPITAL LETTER E WITH DIAERESIS
Ė	0116	LATIN CAPITAL LETTER E WITH DOT ABOVE
È	ooc8	LATIN CAPITAL LETTER E WITH GRAVE

		,
Ē	OII2	LATIN CAPITAL LETTER E WITH MACRON
Ę	0118	LATIN CAPITAL LETTER E WITH OGONEK
F	0046	LATIN CAPITAL LETTER F
ŗ	a <sub>77</sub> b	LATIN CAPITAL LETTER INSULAR F
G	0047	LATIN CAPITAL LETTER G
Ģ	0122	LATIN CAPITAL LETTER G WITH CEDILLA
Ġ	0120	LATIN CAPITAL LETTER G WITH DOT ABOVE
δ	a <sub>77</sub> d	LATIN CAPITAL LETTER INSULAR G
3	O2IC	LATIN CAPITAL LETTER YOGH
Н	0048	LATIN CAPITAL LETTER H
Ħ	0126	LATIN CAPITAL LETTER H WITH STROKE
Н	oɪf6	LATIN CAPITAL LETTER HWAIR
Ι	0049	LATIN CAPITAL LETTER I
IJ	0132	LATIN CAPITAL LIGATURE IJ
Í	oocd	LATIN CAPITAL LETTER I WITH ACUTE
Ĭ	OI2C	LATIN CAPITAL LETTER I WITH BREVE
Î	ooce	LATIN CAPITAL LETTER I WITH CIRCUMFLEX
Ϊ	oocf	LATIN CAPITAL LETTER I WITH DIAERESIS
İ	0130	LATIN CAPITAL LETTER I WITH DOT ABOVE
Ì	oocc	LATIN CAPITAL LETTER I WITH GRAVE
Ī	012a	LATIN CAPITAL LETTER I WITH MACRON
Į	012e	LATIN CAPITAL LETTER I WITH OGONEK
J	00 <b>4</b> a	LATIN CAPITAL LETTER J
K	004b	LATIN CAPITAL LETTER K
Ķ	0136	LATIN CAPITAL LETTER K WITH CEDILLA

L	00 <b>4</b> C	LATIN CAPITAL LETTER L
Ĺ	0139	LATIN CAPITAL LETTER L WITH ACUTE
Ł	023d	LATIN CAPITAL LETTER L WITH BAR
Ľ	013q	LATIN CAPITAL LETTER L WITH CARON
Ļ	013p	LATIN CAPITAL LETTER L WITH CEDILLA
Ł	a748	LATIN CAPITAL LETTER L WITH HIGH STROKE
Ł	2062	LATIN CAPITAL LETTER L WITH MIDDLE TILDE
Ł	0141	LATIN CAPITAL LETTER L WITH STROKE
M	004d	LATIN CAPITAL LETTER M
N	004e	LATIN CAPITAL LETTER N
Ń	0143	LATIN CAPITAL LETTER N WITH ACUTE
Ň	0147	LATIN CAPITAL LETTER N WITH CARON
Ņ	0145	LATIN CAPITAL LETTER N WITH CEDILLA
Ñ	oodı	LATIN CAPITAL LETTER N WITH TILDE
Ŋ	014a	LATIN CAPITAL LETTER ENG
О	004f	LATIN CAPITAL LETTER O
$\omega$	a74e	LATIN CAPITAL LETTER OO
Ó	ood3	LATIN CAPITAL LETTER O WITH ACUTE
Ŏ	014е	LATIN CAPITAL LETTER O WITH BREVE
Ô	ood4	LATIN CAPITAL LETTER O WITH CIRCUMFLEX
Ö	ood6	LATIN CAPITAL LETTER O WITH DIAERESIS
Ò	ood2	LATIN CAPITAL LETTER O WITH GRAVE
Ő	0150	LATIN CAPITAL LETTER O WITH DOUBLE ACUTE
Ө	a74a	LATIN CAPITAL LETTER O WITH LONG STROKE OVERLAY
Ō	0140	LATIN CAPITAL LETTER O WITH MACRON

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огеа	LATIN CAPITAL LETTER O WITH OGONEK
ood8	LATIN CAPITAL LETTER O WITH STROKE
oīfe	LATIN CAPITAL LETTER O WITH STROKE AND ACUTE
oods	LATIN CAPITAL LETTER O WITH TILDE
0152	LATIN CAPITAL LIGATURE OE
0050	LATIN CAPITAL LETTER P
oode	LATIN CAPITAL LETTER THORN
0051	LATIN CAPITAL LETTER Q
a758	LATIN CAPITAL LETTER Q WITH DIAGONAL STROKE
0052	LATIN CAPITAL LETTER R
0154	LATIN CAPITAL LETTER R WITH ACUTE
0158	LATIN CAPITAL LETTER R WITH CARON
0156	LATIN CAPITAL LETTER R WITH CEDILLA
a782	LATIN CAPITAL LETTER INSULAR R
0053	LATIN CAPITAL LETTER S
oisa	LATIN CAPITAL LETTER S WITH ACUTE
0160	LATIN CAPITAL LETTER S WITH CARON
oise	LATIN CAPITAL LETTER S WITH CEDILLA
1e9e	LATIN CAPITAL LETTER SHARP S
a784	LATIN CAPITAL LETTER INSULAR S
0054	LATIN CAPITAL LETTER T
0166	LATIN CAPITAL LETTER T WITH STROKE
0164	LATIN CAPITAL LETTER T WITH CARON
0162	LATIN CAPITAL LETTER T WITH CEDILLA
a <sub>7</sub> 86	LATIN CAPITAL LETTER INSULAR T
	ood8 oife oods oife oods ois2 ooso oode oosi a758 oos2 ois4 ois6 a782 oos3 oisa oi60 oise iege a784 oos4 oi66 oi64 oi62

U	0055	LATIN CAPITAL LETTER U
Ú	ooda	LATIN CAPITAL LETTER U WITH ACUTE
Ŭ	оібс	LATIN CAPITAL LETTER U WITH BREVE
Û	oodb	LATIN CAPITAL LETTER U WITH CIRCUMFLEX
Ü	oodc	LATIN CAPITAL LETTER U WITH DIAERESIS
Ù	ood9	LATIN CAPITAL LETTER U WITH GRAVE
Ű	0170	LATIN CAPITAL LETTER U WITH DOUBLE ACUTE
Ū	отба	LATIN CAPITAL LETTER U WITH MACRON
Ų	0172	LATIN CAPITAL LETTER U WITH OGONEK
Ů	оібе	LATIN CAPITAL LETTER U WITH RING ABOVE
Ũ	0168	LATIN CAPITAL LETTER U WITH TILDE
V	0056	LATIN CAPITAL LETTER V
W	0057	LATIN CAPITAL LETTER W
w	a760	LATIN CAPITAL LETTER VY
Ŵ	1e82	LATIN CAPITAL LETTER W WITH ACUTE
Ŵ	0174	LATIN CAPITAL LETTER W WITH CIRCUMFLEX
W	1e84	LATIN CAPITAL LETTER W WITH DIAERESIS
Ŵ	1e8o	LATIN CAPITAL LETTER W WITH GRAVE
P	oɪf7	LATIN CAPITAL LETTER WYNN
X	0058	LATIN CAPITAL LETTER X
Y	0059	LATIN CAPITAL LETTER Y
Ý	oodd	LATIN CAPITAL LETTER Y WITH ACUTE
Ŷ	0176	LATIN CAPITAL LETTER Y WITH CIRCUMFLEX
Ÿ	0178	LATIN CAPITAL LETTER Y WITH DIAERESIS
Ý	1е8е	LATIN CAPITAL LETTER Y WITH DOT ABOVE

Ŷ	1ef2	LATIN CAPITAL LETTER Y WITH GRAVE
$\bar{\mathrm{Y}}$	0232	LATIN CAPITAL LETTER Y WITH MACRON
Z	00 <b>5</b> a	LATIN CAPITAL LETTER Z
Ź	0179	LATIN CAPITAL LETTER Z WITH ACUTE
Ž	017d	LATIN CAPITAL LETTER Z WITH CARON
Ż	017b	LATIN CAPITAL LETTER Z WITH DOT ABOVE
Z	oīp2	LATIN CAPITAL LETTER Z WITH STROKE
Ò	а7сі	LATIN SMALL LETTER OLD POLISH O
g	a7dı	LATIN SMALL LETTER CLOSED INSULAR G
В	a7d3	LATIN SMALL LETTER DOUBLE THORN data
В	a7ds	LATIN SMALL LETTER DOUBLE WYNN
В	0299	LATIN LETTER SMALL CAPITAL B
G	0262	LATIN LETTER SMALL CAPITAL G
G	029b	LATIN LETTER SMALL CAPITAL G WITH HOOK
Н	029C	LATIN LETTER SMALL CAPITAL H
I	026a	LATIN LETTER SMALL CAPITAL I
L	029f	LATIN LETTER SMALL CAPITAL L
N	0274	LATIN LETTER SMALL CAPITAL N
Œ	0276	LATIN LETTER SMALL CAPITAL OE
R	0280	LATIN LETTER SMALL CAPITAL R
R	0281	LATIN LETTER SMALL CAPITAL INVERTED R
Y	028f	LATIN LETTER SMALL CAPITAL Y
a	0061	LATIN SMALL LETTER A
æ	a733	LATIN SMALL LETTER AA
á	ооеі	LATIN SMALL LETTER A WITH ACUTE

ă	0103	LATIN SMALL LETTER A WITH BREVE
â	00e2	LATIN SMALL LETTER A WITH CIRCUMFLEX
ä	00e <u>4</u>	LATIN SMALL LETTER A WITH DIAERESIS
à	ooeo	LATIN SMALL LETTER A WITH GRAVE
a	0251	LATIN SMALL LETTER ALPHA
D	0252	LATIN SMALL LETTER TURNED ALPHA
ā	OIOI	LATIN SMALL LETTER A WITH MACRON
æ	a735	LATIN SMALL LETTER AO
ą	0105	LATIN SMALL LETTER A WITH OGONEK
å	00e5	LATIN SMALL LETTER A WITH RING ABOVE
å	oɪfb	LATIN SMALL LETTER A WITH RING ABOVE AND ACUTE
ã	ooe3	LATIN SMALL LETTER A WITH TILDE
В	0250	LATIN SMALL LETTER TURNED A
aı	a737	LATIN SMALL LETTER AU
av	a739	LATIN SMALL LETTER AV
a⊬	a <del>73</del> b	LATIN SMALL LETTER AV WITH HORIZONTAL BAR
ay	a73d	LATIN SMALL LETTER AY
æ	ooe6	LATIN SMALL LETTER AE
á	oıfd	LATIN SMALL LETTER AE WITH ACUTE
ā	oie3	LATIN SMALL LETTER AE WITH MACRON
b	0062	LATIN SMALL LETTER B
б	0253	LATIN SMALL LETTER B WITH HOOK
П	o2ad	LATIN LETTER BIDENTAL PERCUSSIVE
0	0298	LATIN LETTER BILABIAL CLICK
w	o2ac	LATIN LETTER BILABIAL PERCUSSIVE

ħ	0180	LATIN SMALL LETTER B WITH STROKE
С	0063	LATIN SMALL LETTER C
ć	0107	LATIN SMALL LETTER C WITH ACUTE
č	oıod	LATIN SMALL LETTER C WITH CARON
ç	ooe <sub>7</sub>	LATIN SMALL LETTER C WITH CEDILLA
6	0255	LATIN SMALL LETTER C WITH CURL
ċ	огор	LATIN SMALL LETTER C WITH DOT ABOVE
9	a76f	LATIN SMALL LETTER CON
С	0297	LATIN LETTER STRETCHED C
d	0064	LATIN SMALL LETTER D
ð	oofo	LATIN SMALL LETTER ETH
ď	oɪof	LATIN SMALL LETTER D WITH CARON
đ	OIII	LATIN SMALL LETTER D WITH STROKE
dз	02a4	LATIN SMALL LETTER DEZH DIGRAPH
ɗ	0257	LATIN SMALL LETTER D WITH HOOK
δ	a77a	LATIN SMALL LETTER INSULAR D
d	0256	LATIN SMALL LETTER D WITH TAIL
dz	02a3	LATIN SMALL LETTER DZ DIGRAPH
dz.	02a5	LATIN SMALL LETTER DZ DIGRAPH WITH CURL
e	0065	LATIN SMALL LETTER E
é	ooe9	LATIN SMALL LETTER E WITH ACUTE
ĕ	OII5	LATIN SMALL LETTER E WITH BREVE
ě	опр	LATIN SMALL LETTER E WITH CARON
ê	ooea	LATIN SMALL LETTER E WITH CIRCUMFLEX
ë	ooeb	LATIN SMALL LETTER E WITH DIAERESIS

ė	оп7	LATIN SMALL LETTER E WITH DOT ABOVE
è	ooe8	LATIN SMALL LETTER E WITH GRAVE
ē	0113	LATIN SMALL LETTER E WITH MACRON
ę	0119	LATIN SMALL LETTER E WITH OGONEK
ε	025b	LATIN SMALL LETTER OPEN E
3	0250	LATIN SMALL LETTER REVERSED OPEN E
в	025e	LATIN SMALL LETTER CLOSED REVERSED OPEN E
3 <sub>c</sub>	025d	LATIN SMALL LETTER REVERSED OPEN E WITH HOOK
е	0258	LATIN SMALL LETTER REVERSED E
S	0283	LATIN SMALL LETTER ESH
$\mathcal{L}$	0286	LATIN SMALL LETTER ESH WITH CURL
ſ	0285	LATIN SMALL LETTER SQUAT REVERSED ESH
3	a76b	LATIN SMALL LETTER ET
Э	0259	LATIN SMALL LETTER SCHWA
ðı	025a	LATIN SMALL LETTER SCHWA WITH HOOK
3	0292	LATIN SMALL LETTER EZH
3	0293	LATIN SMALL LETTER EZH WITH CURL
f	0066	LATIN SMALL LETTER F
fiŋ	02a9	LATIN SMALL LETTER FENG DIGRAPH
ŗ	a77c	LATIN SMALL LETTER INSULAR F
g	0067	LATIN SMALL LETTER G
γ	0263	LATIN SMALL LETTER GAMMA
ģ	0123	LATIN SMALL LETTER G WITH CEDILLA
ġ	0121	LATIN SMALL LETTER G WITH DOT ABOVE
g	0260	LATIN SMALL LETTER G WITH HOOK

δ	1d79	LATIN SMALL LETTER INSULAR G
?	0294	LATIN LETTER GLOTTAL STOP
3	0296	LATIN LETTER INVERTED GLOTTAL STOP
r	0295	LATIN LETTER PHARYNGEAL VOICED FRICATIVE
3	o2ai	LATIN LETTER GLOTTAL STOP WITH STROKE
ç	02a2	LATIN LETTER REVERSED GLOTTAL STOP WITH STROKE
g	0261	LATIN SMALL LETTER SCRIPT G
3	021d	LATIN SMALL LETTER YOGH
h	0068	LATIN SMALL LETTER H
ħ	0127	LATIN SMALL LETTER H WITH STROKE
h	0267	LATIN SMALL LETTER HENG WITH HOOK
ĥ	0266	LATIN SMALL LETTER H WITH HOOK
Ч	0265	LATIN SMALL LETTER TURNED H
ч	o2ae	LATIN SMALL LETTER TURNED H WITH FISHHOOK
પ	o2af	LATIN SMALL LETTER TURNED H WITH FISHHOOK AND TAIL
h	0195	LATIN SMALL LETTER HV
i	0069	LATIN SMALL LETTER I
1	0131	LATIN SMALL LETTER DOTLESS I
í	ooed	LATIN SMALL LETTER I WITH ACUTE
ĭ	012d	LATIN SMALL LETTER I WITH BREVE
î	ooee	LATIN SMALL LETTER I WITH CIRCUMFLEX
ï	ooef	LATIN SMALL LETTER I WITH DIAERESIS
ì	ooec	LATIN SMALL LETTER I WITH GRAVE
ij	0133	LATIN SMALL LIGATURE IJ
ī	012b	LATIN SMALL LETTER I WITH MACRON

į	012f	LATIN SMALL LETTER I WITH OGONEK
f	a <del>7</del> 6d	LATIN SMALL LETTER IS
i	0268	LATIN SMALL LETTER I WITH STROKE
j	006a	LATIN SMALL LETTER J
J	0237	LATIN SMALL LETTER DOTLESS J
j	029d	LATIN SMALL LETTER J WITH CROSSED-TAIL
J	025f	LATIN SMALL LETTER DOTLESS J WITH STROKE
f	0284	LATIN SMALL LETTER DOTLESS J WITH STROKE AND HOOK
k	006b	LATIN SMALL LETTER K
ķ	0137	LATIN SMALL LETTER K WITH CEDILLA
ħ	a741	LATIN SMALL LETTER K WITH STROKE
1	006с	LATIN SMALL LETTER L
ĺ	01 <b>3</b> a	LATIN SMALL LETTER L WITH ACUTE
ł	оі9а	LATIN SMALL LETTER L WITH BAR
ł	026c	LATIN SMALL LETTER L WITH BELT
ľ	оізе	LATIN SMALL LETTER L WITH CARON
ļ	013C	LATIN SMALL LETTER L WITH CEDILLA
ß	026e	LATIN SMALL LETTER LEZH
1	a749	LATIN SMALL LETTER L WITH HIGH STROKE
l	026d	LATIN SMALL LETTER L WITH RETROFLEX HOOK
ł	026b	LATIN SMALL LETTER L WITH MIDDLE TILDE
f	1е9с	LATIN SMALL LETTER LONG S WITH DIAGONAL STROKE
ls	o2aa	LATIN SMALL LETTER LS DIGRAPH
ł	0142	LATIN SMALL LETTER L WITH STROKE
k	o2ab	LATIN SMALL LETTER LZ DIGRAPH

m	006d	LATIN SMALL LETTER M
m	0271	LATIN SMALL LETTER M WITH HOOK
щ	0270	LATIN SMALL LETTER TURNED M WITH LONG LEG
ш	026f	LATIN SMALL LETTER TURNED M
n	ообе	LATIN SMALL LETTER N
ń	0144	LATIN SMALL LETTER N WITH ACUTE
ň	0148	LATIN SMALL LETTER N WITH CARON
ņ	0146	LATIN SMALL LETTER N WITH CEDILLA
n	0272	LATIN SMALL LETTER N WITH LEFT HOOK
η	0273	LATIN SMALL LETTER N WITH RETROFLEX HOOK
ñ	oofi	LATIN SMALL LETTER N WITH TILDE
ŋ	014b	LATIN SMALL LETTER ENG
О	oo6f	LATIN SMALL LETTER O
ó	oof3	LATIN SMALL LETTER O WITH ACUTE
ө	0275	LATIN SMALL LETTER BARRED O
ŏ	014f	LATIN SMALL LETTER O WITH BREVE
ô	oof4	LATIN SMALL LETTER O WITH CIRCUMFLEX
ö	oof6	LATIN SMALL LETTER O WITH DIAERESIS
ò	oof2	LATIN SMALL LETTER O WITH GRAVE
ő	0151	LATIN SMALL LETTER O WITH DOUBLE ACUTE
Ө	a74b	LATIN SMALL LETTER O WITH LONG STROKE OVERLAY
ō	014d	LATIN SMALL LETTER O WITH MACRON
ω	a74f	LATIN SMALL LETTER OO
Q	отер	LATIN SMALL LETTER O WITH OGONEK
Э	0254	LATIN SMALL LETTER OPEN O

Ø	oof8	LATIN SMALL LETTER O WITH STROKE
ó	oıff	LATIN SMALL LETTER O WITH STROKE AND ACUTE
õ	oofs	LATIN SMALL LETTER O WITH TILDE
œ	0123	LATIN SMALL LIGATURE OE
p	0070	LATIN SMALL LETTER P
ф	a753	LATIN SMALL LETTER P WITH FLOURISH
Φ	0278	LATIN SMALL LETTER PHI
þ	oofe	LATIN SMALL LETTER THORN
p	a <b>75</b> 1	LATIN SMALL LETTER P WITH STROKE THROUGH DESCENDER
q	0071	LATIN SMALL LETTER Q
ф	a759	LATIN SMALL LETTER Q WITH DIAGONAL STROKE
q	02a0	LATIN SMALL LETTER Q WITH HOOK
q	a757	LATIN SMALL LETTER Q WITH STROKE THROUGH DESCENDER
r	0072	LATIN SMALL LETTER R
ŕ	0155	LATIN SMALL LETTER R WITH ACUTE
જ	0264	LATIN SMALL LETTER RAMS HORN
ř	0159	LATIN SMALL LETTER R WITH CARON
ŗ	0157	LATIN SMALL LETTER R WITH CEDILLA
ſ	027e	LATIN SMALL LETTER R WITH FISHHOOK
1	027f	LATIN SMALL LETTER REVERSED R WITH FISHHOOK
Ł	027b	LATIN SMALL LETTER TURNED R WITH HOOK
p	a <sub>7</sub> 8 <sub>3</sub>	LATIN SMALL LETTER INSULAR R
J	027a	LATIN SMALL LETTER TURNED R WITH LONG LEG
2	a <b>75</b> b	LATIN SMALL LETTER R ROTUNDA
r	027d	LATIN SMALL LETTER R WITH TAIL

J	0279	LATIN SMALL LETTER TURNED R
2,	a75d	LATIN SMALL LETTER RUM ROTUNDA
s	0073	LATIN SMALL LETTER S
ś	oısb	LATIN SMALL LETTER S WITH ACUTE
š	0161	LATIN SMALL LETTER S WITH CARON
ş	oı <b>s</b> f	LATIN SMALL LETTER S WITH CEDILLA
ß	oodf	LATIN SMALL LETTER SHARP S
ş	0282	LATIN SMALL LETTER S WITH HOOK
r	a785	LATIN SMALL LETTER INSULAR S
ſ	017f	LATIN SMALL LETTER LONG S
t	0074	LATIN SMALL LETTER T
ŧ	0167	LATIN SMALL LETTER T WITH STROKE
ť	0165	LATIN SMALL LETTER T WITH CARON
te	02a8	LATIN SMALL LETTER TC DIGRAPH WITH CURL
ţ	0163	LATIN SMALL LETTER T WITH CEDILLA
tſ	02a7	LATIN SMALL LETTER TESH DIGRAPH
ħ	a765	LATIN SMALL LETTER THORN WITH STROKE
τ	a787	LATIN SMALL LETTER INSULAR T
t	0288	LATIN SMALL LETTER T WITH RETROFLEX HOOK
ts	02a6	LATIN SMALL LETTER TS DIGRAPH
ı	0287	LATIN SMALL LETTER TURNED T
u	0075	LATIN SMALL LETTER U
ú	oofa	LATIN SMALL LETTER U WITH ACUTE
u	0289	LATIN SMALL LETTER U BAR
ŭ	016d	LATIN SMALL LETTER U WITH BREVE

û	oofb	LATIN SMALL LETTER U WITH CIRCUMFLEX
ü	oofc	LATIN SMALL LETTER U WITH DIAERESIS
ù	oof9	LATIN SMALL LETTER U WITH GRAVE
ű	0171	LATIN SMALL LETTER U WITH DOUBLE ACUTE
ū	016p	LATIN SMALL LETTER U WITH MACRON
ų	0173	LATIN SMALL LETTER U WITH OGONEK
υ	028a	LATIN SMALL LETTER UPSILON
ů	016f	LATIN SMALL LETTER U WITH RING ABOVE
ũ	0169	LATIN SMALL LETTER U WITH TILDE
v	0076	LATIN SMALL LETTER V
υ	028b	LATIN SMALL LETTER V WITH HOOK
V	2C7I	LATIN SMALL LETTER V WITH RIGHT HOOK
Λ	0280	LATIN SMALL LETTER TURNED V
w	0077	LATIN SMALL LETTER W
ẃ	1e83	LATIN SMALL LETTER W WITH ACUTE
ŵ	0175	LATIN SMALL LETTER W WITH CIRCUMFLEX
ÿ	1e85	LATIN SMALL LETTER W WITH DIAERESIS
ŵ	1e81	LATIN SMALL LETTER W WITH GRAVE
M	028d	LATIN SMALL LETTER TURNED W
w	а761	LATIN SMALL LETTER VY
p	oıbf	LATIN LETTER WYNN
X	0078	LATIN SMALL LETTER X
y	0079	LATIN SMALL LETTER Y
ý	oofd	LATIN SMALL LETTER Y WITH ACUTE
ŷ	0177	LATIN SMALL LETTER Y WITH CIRCUMFLEX

ÿ	ooff	LATIN SMALL LETTER Y WITH DIAERESIS
ġ	1e8f	LATIN SMALL LETTER Y WITH DOT ABOVE
ỳ	1ef3	LATIN SMALL LETTER Y WITH GRAVE
ÿ	0233	LATIN SMALL LETTER Y WITH MACRON
Á	028e	LATIN SMALL LETTER TURNED Y
z	007a	LATIN SMALL LETTER Z
ź	от7а	LATIN SMALL LETTER Z WITH ACUTE
ž	от7е	LATIN SMALL LETTER Z WITH CARON
Z	0291	LATIN SMALL LETTER Z WITH CURL
ż	оі7с	LATIN SMALL LETTER Z WITH DOT ABOVE
Z <sub>L</sub>	0290	LATIN SMALL LETTER Z WITH RETROFLEX HOOK
Z	01pe	LATIN SMALL LETTER Z WITH STROKE
ff	fboo	LATIN SMALL LIGATURE FF
ffl	fbo4	LATIN SMALL LIGATURE FFL
fi	fboi	LATIN SMALL LIGATURE FI
fl	fb02	LATIN SMALL LIGATURE FL
ſt	fbos	LATIN SMALL LIGATURE LONG S T
st	fbo6	LATIN SMALL LIGATURE ST
h	o2bi	MODIFIER LETTER SMALL H WITH HOOK
h	o2bo	MODIFIER LETTER SMALL H
j	02b2	MODIFIER LETTER SMALL J
1	o2eI	MODIFIER LETTER SMALL L
n	207f	SUPERSCRIPT LATIN SMALL LETTER N
w	02b7	MODIFIER LETTER SMALL W
ŧ	OIC2	LATIN LETTER ALVEOLAR CLICK

	1	
I	OICO	LATIN LETTER DENTAL CLICK
II	OICI	LATIN LETTER LATERAL CLICK
a	ooaa	FEMININE ORDINAL INDICATOR
o	ooba	MASCULINE ORDINAL INDICATOR
β	03b2	GREEK SMALL LETTER BETA
θ	03p8	GREEK SMALL LETTER THETA
π	0300	GREEK SMALL LETTER PI
χ	0307	GREEK SMALL LETTER CHI
C	037C	GREEK SMALL DOTTED LUNATE SIGMA SYMBOL
Щ	16а0	RUNIC LETTER FEHU FEOH FE F
ש	ı6аı	RUNIC LETTER V
U	16a2	RUNIC LETTER URUZ UR U
IJ	16a3	RUNIC LETTER YR
Ы	16a4	RUNIC LETTER Y
W	16a <b>5</b>	RUNIC LETTER W
Þ	16a6	RUNIC LETTER THURISAZ THURS THORN
Þ	16a7	RUNIC LETTER ETH
F	16a8	RUNIC LETTER ANSUZ A
k	16a9	RUNIC LETTER OS O
F'	16aa	RUNIC LETTER AC A
7	16ab	RUNIC LETTER AESC
*	16ac	RUNIC LETTER LONG-BRANCH-OSS O
Į.	16ad	RUNIC LETTER SHORT-TWIG-OSS O
1	16ae	RUNIC LETTER O
#	16af	RUNIC LETTER OE

<b></b>	16bo	RUNIC LETTER ON
R	16b1	RUNIC LETTER RAIDO RAD REID R
<	16b2	RUNIC LETTER KAUNA
Ь	16b3	RUNIC LETTER CEN
γ	16b4	RUNIC LETTER KAUN K
ש	16b5	RUNIC LETTER G
ν	16b6	RUNIC LETTER ENG
X	16b7	RUNIC LETTER GEBO GYFU G
X	16p8	RUNIC LETTER GAR
P	16b9	RUNIC LETTER WUNJO WYNN W
Н	16ba	RUNIC LETTER HAGLAZ H
M	16pp	RUNIC LETTER HAEGL H
*	16bc	RUNIC LETTER LONG-BRANCH-HAGALL H
I	16bd	RUNIC LETTER SHORT-TWIG-HAGALL H
ł	16be	RUNIC LETTER NAUDIZ NYD NAUD N
ŀ	16bf	RUNIC LETTER SHORT-TWIG-NAUD N
¥	16со	RUNIC LETTER DOTTED-N
I	16с1	RUNIC LETTER ISAZ IS ISS I
I	1602	RUNIC LETTER E
\$	16c3	RUNIC LETTER JERAN J
4	1604	RUNIC LETTER GER
ł	1605	RUNIC LETTER LONG-BRANCH-AR AE
1	16c6	RUNIC LETTER SHORT-TWIG-AR A
1	16c <del>7</del>	RUNIC LETTER IWAZ EOH
Ľ	16с8	RUNIC LETTER PERTHO PEORTH P

	_	
Y	16c9	RUNIC LETTER ALGIZ EOLHX
ŧ	16са	RUNIC LETTER SOWILO S
ч	16cb	RUNIC LETTER SIGEL LONG-BRANCH-SOL S
Т	16сс	RUNIC LETTER SHORT-TWIG-SOL S
1	16cd	RUNIC LETTER C
T	16ce	RUNIC LETTER Z
T	16cf	RUNIC LETTER TIWAZ TIR TYR T
1	16do	RUNIC LETTER SHORT-TWIG-TYR T
1	16d1	RUNIC LETTER D
B	16d2	RUNIC LETTER BERKANAN BEORC BJARKAN B
F	16d3	RUNIC LETTER SHORT-TWIG-BJARKAN B
₿	16d4	RUNIC LETTER DOTTED-P
K	16d5	RUNIC LETTER OPEN-P
M	16d6	RUNIC LETTER EHWAZ EH E
M	16d7	RUNIC LETTER MANNAZ MAN M
Ψ	16d8	RUNIC LETTER LONG-BRANCH-MADR M
i	16d9	RUNIC LETTER SHORT-TWIG-MADR M
1	16da	RUNIC LETTER LAUKAZ LAGU LOGR L
f	16db	RUNIC LETTER DOTTED-L
<b>♦</b>	16dc	RUNIC LETTER INGWAZ
X	16dd	RUNIC LETTER ING
M	16de	RUNIC LETTER DAGAZ DAEG D
\$	16df	RUNIC LETTER OTHALAN ETHEL O
ፐ	16е0	RUNIC LETTER EAR
*	16е1	RUNIC LETTER IOR

1	16e2	RUNIC LETTER CWEORTH
Ж	16e3	RUNIC LETTER CALC
Ж	16e4	RUNIC LETTER CEALC
Ħ	16e5	RUNIC LETTER STAN
Ж	16e6	RUNIC LETTER LONG-BRANCH-YR
1	16e7	RUNIC LETTER SHORT-TWIG-YR
1	16e8	RUNIC LETTER ICELANDIC-YR
4	16e9	RUNIC LETTER Q
ч	16ea	RUNIC LETTER X
9	a770	MODIFIER LETTER US
О	0030	DIGIT ZERO
I	0031	DIGIT ONE
2	0032	DIGIT TWO
3	0033	DIGIT THREE
4	0034	DIGIT FOUR
5	0035	DIGIT FIVE
6	0036	DIGIT SIX
7	0037	DIGIT SEVEN
8	0038	DIGIT EIGHT
9	0039	DIGIT NINE
/	2044	FRACTION SLASH
1/2	oobd	VULGAR FRACTION ONE HALF
1/4	oobc	VULGAR FRACTION ONE QUARTER
3/4	oobe	VULGAR FRACTION THREE QUARTERS
o	2080	SUBSCRIPT ZERO

I	2081	SUBSCRIPT ONE
2	2082	SUBSCRIPT TWO
3	2083	SUBSCRIPT THREE
4	2084	SUBSCRIPT FOUR
5	2085	SUBSCRIPT FIVE
6	2086	SUBSCRIPT SIX
7	2087	SUBSCRIPT SEVEN
8	2088	SUBSCRIPT EIGHT
9	2089	SUBSCRIPT NINE
О	2070	SUPERSCRIPT ZERO
I	oob9	SUPERSCRIPT ONE
2	oob2	SUPERSCRIPT TWO
3	oob3	SUPERSCRIPT THREE
4	2074	SUPERSCRIPT FOUR
5	2075	SUPERSCRIPT FIVE
6	2076	SUPERSCRIPT SIX
7	2077	SUPERSCRIPT SEVEN
8	2078	SUPERSCRIPT EIGHT
9	2079	SUPERSCRIPT NINE
	200C	ZERO WIDTH NON-JOINER
	oood	<carriage return=""> (CR)</carriage>
	2001	EM QUAD
	2003	EM SPACE
	2000	EN QUAD
	2002	EN SPACE

	2007	FIGURE SPACE
	2005	FOUR-PER-EM SPACE
	200a	HAIR SPACE
	202f	NARROW NO-BREAK SPACE
	2008	PUNCTUATION SPACE
	2006	SIX-PER-EM SPACE
	0020	SPACE
	ooao	NO-BREAK SPACE
	2009	THIN SPACE
	2004	THREE-PER-EM SPACE
	200b	ZERO WIDTH SPACE
1	2e4a	DOTTED SOLIDUS
;	2e4c	MEDIEVAL COMMA
r	2e4d	PARAGRAPHUS MARK
:	2e4e	PUNCTUS ELEVATUS MARK
<	27e8	MATHEMATICAL LEFT ANGLE BRACKET
>	27e9	MATHEMATICAL RIGHT ANGLE BRACKET
	16eb	RUNIC SINGLE PUNCTUATION
:	16ес	RUNIC MULTIPLE PUNCTUATION
+	16ed	RUNIC CROSS PUNCTUATION
	002e	FULL STOP
,	0020	COMMA
:	oo3a	COLON
;	oo3p	SEMICOLON
	2026	HORIZONTAL ELLIPSIS
	_	

		,
!	0021	EXCLAMATION MARK
i	ooai	INVERTED EXCLAMATION MARK
?	003f	QUESTION MARK
ċ	oobf	INVERTED QUESTION MARK
•	oob <sub>7</sub>	MIDDLE DOT
•	2022	BULLET
*	002a	ASTERISK
	2016	DOUBLE VERTICAL LINE
J	204a	TIRONIAN SIGN ET
#	0023	NUMBER SIGN
/	002f	SOLIDUS
	0050	REVERSE SOLIDUS
-	002d	HYPHEN-MINUS
	ooad	SOFT HYPHEN
_	2013	EN DASH
	2014	EM DASH
_	2012	FIGURE DASH
	2015	HORIZONTAL BAR
-	2010	HYPHEN
_	2011	NON-BREAKING HYPHEN
_	oosf	LOW LINE
_	2017	DOUBLE LOW LINE
(	0028	LEFT PARENTHESIS
)	0029	RIGHT PARENTHESIS
{	007b	LEFT CURLY BRACKET

}	007d	RIGHT CURLY BRACKET
[	00 <b>5</b> b	LEFT SQUARE BRACKET
]	oosd	RIGHT SQUARE BRACKET
<	2329	LEFT-POINTING ANGLE BRACKET
>	232a	RIGHT-POINTING ANGLE BRACKET
,	201a	SINGLE LOW-9 QUOTATION MARK
,,	20Ie	DOUBLE LOW-9 QUOTATION MARK
"	20IC	LEFT DOUBLE QUOTATION MARK
,,	201d	RIGHT DOUBLE QUOTATION MARK
•	2018	LEFT SINGLE QUOTATION MARK
,	2019	RIGHT SINGLE QUOTATION MARK
,	201b	SINGLE HIGH-REVERSED-9 QUOTATION MARK
"	201f	DOUBLE HIGH-REVERSED-9 QUOTATION MARK
«	ooab	LEFT-POINTING DOUBLE ANGLE QUOTATION MARK
<b>»</b>	oobb	RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK
<	2039	SINGLE LEFT-POINTING ANGLE QUOTATION MARK
>	203a	SINGLE RIGHT-POINTING ANGLE QUOTATION MARK
,,	0022	QUOTATION MARK
,	0027	APOSTROPHE
Y	0200	MODIFIER LETTER SMALL GAMMA
1	16ee	RUNIC ARLAUG SYMBOL
Ж	16ef	RUNIC TVIMADUR SYMBOL
Φ	16fo	RUNIC BELGTHOR SYMBOL
~	02f7	MODIFIER LETTER LOW TILDE
1	0265	MODIFIER LETTER EXTRA-HIGH TONE BAR
		·

J	02e9	MODIFIER LETTER EXTRA-LOW TONE BAR
1	02e6	MODIFIER LETTER HIGH TONE BAR
1	02e8	MODIFIER LETTER LOW TONE BAR
+	02e7	MODIFIER LETTER MID TONE BAR
1	02de	MODIFIER LETTER RHOTIC HOOK
@	0040	COMMERCIAL AT
&	0026	AMPERSAND
T	oob6	PILCROW SIGN
§	ooa <sub>7</sub>	SECTION SIGN
©	ooa9	COPYRIGHT SIGN
®	ooae	REGISTERED SIGN
ТМ	2122	TRADE MARK SIGN
o	oobo	DEGREE SIGN
,	2032	PRIME
"	2033	DOUBLE PRIME
I	007C	VERTICAL LINE
1	ooa6	BROKEN BAR
†	2020	DAGGER
‡	2021	DOUBLE DAGGER
Ŗ	211f	RESPONSE
ý	2123	VERSICLE
€	20ac	EURO SIGN
¢	0022	CENT SIGN
¤	00a4	CURRENCY SIGN
\$	0024	DOLLAR SIGN

£	ooa3	POUND SIGN
¥	00a5	YEN SIGN
/	2215	DIVISION SLASH
+	002b	PLUS SIGN
_	2212	MINUS SIGN
×	ood7	MULTIPLICATION SIGN
÷	oof <sub>7</sub>	DIVISION SIGN
=	oo3d	EQUALS SIGN
#	2260	NOT EQUAL TO
>	ooge	GREATER-THAN SIGN
<	0030	LESS-THAN SIGN
≥	2265	GREATER-THAN OR EQUAL TO
<b>≤</b>	2264	LESS-THAN OR EQUAL TO
±	oobı	PLUS-MINUS SIGN
≈	2248	ALMOST EQUAL TO
	007e	TILDE
٦	ooac	NOT SIGN
	oose	CIRCUMFLEX ACCENT
$\infty$	22Ie	INFINITY
Ø	2205	EMPTY SET
ſ	222b	INTEGRAL
Ω	2126	OHM SIGN
Δ	2206	INCREMENT
П	220f	N-ARY PRODUCT
Σ	2211	N-ARY SUMMATION

√	22Ia	SQUARE ROOT
μ	oobs	MICRO SIGN
6	2202	PARTIAL DIFFERENTIAL
+	207a	SUPERSCRIPT PLUS SIGN
<i>:</i> .	2234	THEREFORE
$\rightarrow$	2192	RIGHTWARDS ARROW
←	2190	LEFTWARDS ARROW
0	25CC	DOTTED CIRCLE
<b>♦</b>	25ca	LOZENGE
å	0363	COMBINING LATIN SMALL LETTER A
૽૿	ıdd4	COMBINING LATIN SMALL LETTER AE
ိ	ıdds	COMBINING LATIN SMALL LETTER AO
av O	ıdd6	COMBINING LATIN SMALL LETTER AV
៌	ıdd7	COMBINING LATIN SMALL LETTER C CEDILLA
ំ	0368	COMBINING LATIN SMALL LETTER C
d O	0369	COMBINING LATIN SMALL LETTER D
ိ	0364	COMBINING LATIN SMALL LETTER E
ំ	ıdd9	COMBINING LATIN SMALL LETTER ETH
៉	ıdd3	COMBINING LATIN SMALL LETTER FLATTENED OPEN A ABOVE
ំ	ıdda	COMBINING LATIN SMALL LETTER G
°.	036a	COMBINING LATIN SMALL LETTER H
Ċ	0365	COMBINING LATIN SMALL LETTER I
ိ	ıdd8	COMBINING LATIN SMALL LETTER INSULAR D
<b>k</b>	ıddc	COMBINING LATIN SMALL LETTER K
<u>1</u>	ıddd	COMBINING LATIN SMALL LETTER L

់	ıde5	COMBINING LATIN SMALL LETTER LONG S
<u>ო</u>	036b	COMBINING LATIN SMALL LETTER M
n Ö	ıdeo	COMBINING LATIN SMALL LETTER N
ి	0366	COMBINING LATIN SMALL LETTER O
	0360	COMBINING LATIN SMALL LETTER R
ै	ıde3	COMBINING LATIN SMALL LETTER R ROTUNDA
်ံ	ıde4	COMBINING LATIN SMALL LETTER S
†	036d	COMBINING LATIN SMALL LETTER T
ů Ö	0367	COMBINING LATIN SMALL LETTER U
°	ıacd	COMBINING LATIN SMALL LETTER INSULAR R
Č	036e	COMBINING LATIN SMALL LETTER V
Š.	036f	COMBINING LATIN SMALL LETTER X
Č	ıde6	COMBINING LATIN SMALL LETTER Z
ö	0308	COMBINING DIAERESIS
்	0307	COMBINING DOT ABOVE
ò	0300	COMBINING GRAVE ACCENT
Ó	0301	COMBINING ACUTE ACCENT
<b>ő</b>	озор	COMBINING DOUBLE ACUTE ACCENT
î	0302	COMBINING CIRCUMFLEX ACCENT
č	0300	COMBINING CARON
ŏ	0306	COMBINING BREVE
ి	030a	COMBINING RING ABOVE
õ	0303	COMBINING TILDE
ō	0304	COMBINING MACRON
ਂ	0305	COMBINING OVERLINE

់	0312	COMBINING TURNED COMMA ABOVE
ଂ	0312	COMBINING COMMA ABOVE RIGHT
្ន	0318	COMBINING LEFT TACK BELOW
်	0319	COMBINING RIGHT TACK BELOW
ੋ	озіа	COMBINING LEFT ANGLE ABOVE
ृ	0310	COMBINING LEFT HALF RING BELOW
-	o31d	COMBINING UP TACK BELOW
្	031e	COMBINING DOWN TACK BELOW
Ç	o31f	COMBINING PLUS SIGN BELOW
ō	0320	COMBINING MINUS SIGN BELOW
·	0323	COMBINING DOT BELOW
$\circ$	0324	COMBINING DIAERESIS BELOW
ृ	0325	COMBINING RING BELOW
Ģ	0326	COMBINING COMMA BELOW
ु	0327	COMBINING CEDILLA
ृ	0328	COMBINING OGONEK
O	0329	COMBINING VERTICAL LINE BELOW
៉	032a	COMBINING BRIDGE BELOW
ô	0320	COMBINING CARON BELOW
ŏ	032f	COMBINING INVERTED BREVE BELOW
Õ	0330	COMBINING TILDE BELOW
9	0334	COMBINING TILDE OVERLAY
$\ominus$	0335	COMBINING SHORT STROKE OVERLAY
0	0337	COMBINING SHORT SOLIDUS OVERLAY
Ø	0338	COMBINING LONG SOLIDUS OVERLAY

़	0339	COMBINING RIGHT HALF RING BELOW
ូ	033a	COMBINING INVERTED BRIDGE BELOW
ှု	033p	COMBINING SQUARE BELOW
్ల	033C	COMBINING SEAGULL BELOW
Š	033d	COMBINING X ABOVE
ै	032p	COMBINING ZIGZAG ABOVE
್ರಂ	0350	COMBINING DOUBLE BREVE BELOW
<u></u>	0361	COMBINING DOUBLE INVERTED BREVE
ै	ıdce	COMBINING OGONEK ABOVE
<b>″</b>	тась	COMBINING TRIPLE ACUTE ACCENT
ំ	тасс	COMBINING LATIN SMALL LETTER INSULAR G
ិ	тасе	COMBINING LATIN SMALL LETTER INSULAR T
ें	ıddı	COMBINING UR ABOVE
ૈ	ıdd2	COMBINING US ABOVE
ৃ	ıdcf	COMBINING ZIGZAG BELOW
	ooa8	DIAERESIS
	02d9	DOT ABOVE
•	0060	GRAVE ACCENT
,	oob4	ACUTE ACCENT
^	0206	MODIFIER LETTER CIRCUMFLEX ACCENT
~	O2C7	CARON
J	02d8	BREVE
o	o2da	RING ABOVE
~	o2dc	SMALL TILDE
-	ooaf	MACRON

5	oob8	CEDILLA
۷	o2db	OGONEK
,	o2bc	MODIFIER LETTER APOSTROPHE
•	o2bd	MODIFIER LETTER REVERSED COMMA
•	o2di	MODIFIER LETTER HALF TRIANGULAR COLON
I	o2do	MODIFIER LETTER TRIANGULAR COLON
ç	O2CI	MODIFIER LETTER REVERSED GLOTTAL STOP
1	0200	MODIFIER LETTER LOW VERTICAL LINE
ı	0208	MODIFIER LETTER VERTICAL LINE