MUFI character recommendation

Characters in the official Unicode Standard and in the Private Use Area for Medieval texts written in the Latin alphabet

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※ Compliant with the Unicode Standard version 4.0

※ Medieval Unicode Font Initiative (MUFI)
※ www.hit.uib.no/mufi

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Editor
Odd Einar Haugen, University of Bergen, Norway

Background & contributors
The present recommendation is a major revision and extension of two proposals published on the MUFI web site:

- A proposal for subranges within the Private Use Area of Unicode (15 June 2002)
- A proposal for supplementary characters in Unicode (5 February 2003)

These proposals received a number of helpful comments from (in alphabetical order) Jim Allan (U.S.), Deborah W. Anderson (Berkeley, CA), Peter S. Baker (Charlottesville, VA), Michael Beddow (Leeds), António H.A. Emiliano (Lisboa), Michael Everson (Dublin), Jost Gippert (Frankfurt am Main), Juan-José Marcos (Plasencia, Spain), Rick McGowan (Unicode consortium), Susana T. Pedro (Lisboa), David J. Perry (Rye, NY), Gerhard Schumacher (Köln), Ken Whistler (Unicode consortium) and Christian Wittern (Kyoto).

The present recommendation is the result of a meeting held in Bergen, Norway, 30–31 August 2003. Participants at this meeting were Odd Einar Haugen (Bergen), Michael Everson (Dublin), Michael Irlenbusch (Bergen), Alec McAllister (Leeds), Gerhard Schumacher (Köln), and Tarrin Wills (Sydney). The recommendation was published 8 September 2003 on the MUFI site for public review and has been discussed electronically within the MUFI group in the ensuing months.

Many aspects of this recommendation will be controversial, and more than one of the contributors and advisors listed above may disagree with the solutions chosen in the recommendation. It is, however, clear that this recommendation would have progressed much more slowly and would have been much inferior had it not been for all the help and comments received. The editor would like to thank all contributors for their assistance in this project.

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## Contents

### A: Characters in the Unicode Standard  p. 7–50

<table>
<thead>
<tr>
<th></th>
<th>Characters</th>
<th>Page</th>
<th></th>
<th>Characters</th>
<th>Page</th>
<th></th>
<th>Characters</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Basic Latin</td>
<td>7</td>
<td>7</td>
<td>Combining Diacritical Marks</td>
<td>32</td>
<td>13</td>
<td>General Punctuation</td>
<td>44</td>
</tr>
<tr>
<td>2</td>
<td>Latin-1 Supplement</td>
<td>15</td>
<td>8</td>
<td>Greek and Coptic</td>
<td>35</td>
<td>14</td>
<td>Mathematical Operators</td>
<td>49</td>
</tr>
<tr>
<td>3</td>
<td>Latin Extended-A</td>
<td>23</td>
<td>9</td>
<td>Georgian</td>
<td>35</td>
<td>15</td>
<td>Dingbats</td>
<td>49</td>
</tr>
<tr>
<td>4</td>
<td>Latin Extended-B</td>
<td>27</td>
<td>10</td>
<td>Runic</td>
<td>36</td>
<td>16</td>
<td>Misc. Math. Symbols-A</td>
<td>50</td>
</tr>
<tr>
<td>5</td>
<td>IPA Extensions</td>
<td>30</td>
<td>11</td>
<td>Phonetic Extensions</td>
<td>36</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Spacing Modifying Letters</td>
<td>31</td>
<td>12</td>
<td>Latin Extended Additional</td>
<td>38</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### B: Characters in the Private Use Area of the Unicode Standard  p. 51–99

<table>
<thead>
<tr>
<th>Base characters</th>
<th>Precomposed characters</th>
<th>Variant letter forms</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Ligatures</td>
<td>15 Characters with overline or macron</td>
<td>30 Nordic</td>
</tr>
<tr>
<td>2 Small capitals</td>
<td>16 Characters with acute accent</td>
<td>31 English</td>
</tr>
<tr>
<td>3 Enlarged minuscules</td>
<td>17 Characters with double acute accent</td>
<td>76</td>
</tr>
<tr>
<td>4 Base line abbreviation characters</td>
<td>18 Characters with dot above</td>
<td>78</td>
</tr>
<tr>
<td>5 Modified base line abbrev. characters</td>
<td>19 Characters with dot below</td>
<td>80</td>
</tr>
<tr>
<td>6 Combining marks</td>
<td>20 Characters with diaeresis</td>
<td>85</td>
</tr>
<tr>
<td>7 Combining superscript characters</td>
<td>21 Characters with hook above</td>
<td>86</td>
</tr>
<tr>
<td>8 Punctuation marks</td>
<td>22 Characters with ogonek</td>
<td>88</td>
</tr>
<tr>
<td>9 Critical and epigraphical signs</td>
<td>23 Characters with breve</td>
<td>89</td>
</tr>
<tr>
<td>10 Metrical symbols</td>
<td>24 Characters with macron and breve</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td>25 Characters with macron and acute</td>
<td>92</td>
</tr>
</tbody>
</table>

Appendix: How many characters?  p. 100–104
Introduction

This recommendation contains a set of characters for the use of medievalists and, to some extent, classicists. The aim of the recommendation is (1) to establish a selection of characters from the official Unicode Standard and (2) to coordinate the usage of code points in the Private Use Area.

The recommendation contains a representative glyph for each character, an entity name, a Unicode code point, and a descriptive name.

Glyphs

The glyphs used in this recommendation are for guidance only. They are based on the font Alphabetum by Juan-José Marcos (Plasencia, Spain).

Entity names

Entities are used in numerous encoding schemes such as SGML/XML. For the sake of transparency and interchangeability, it is recommended that entities as far as possible conform to the standard ISO entity sets.

In addition to the ISO entities, a number of entities for characters not designated in this standard are needed. This recommendation uses the syntax and inventory defined in *The Menota handbook*, ch. 2 and 5 (www.hit.uib.no/menota/guidelines), summarised in the table below.

<table>
<thead>
<tr>
<th>Base line character</th>
<th>main type</th>
<th>variant</th>
<th>ligature</th>
<th>fixed modification</th>
<th>loose modification</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>anc</td>
<td>brk</td>
<td>lig</td>
<td>bar</td>
<td>acute</td>
</tr>
<tr>
<td>a</td>
<td>comb</td>
<td>close</td>
<td>ligred</td>
<td>baracr</td>
<td>breve</td>
</tr>
<tr>
<td>B</td>
<td>enl</td>
<td>dotless</td>
<td></td>
<td>barbl</td>
<td>circ</td>
</tr>
<tr>
<td>b</td>
<td>ins</td>
<td>high</td>
<td></td>
<td>des</td>
<td>curl</td>
</tr>
<tr>
<td>C</td>
<td>run</td>
<td>long</td>
<td></td>
<td>flour</td>
<td>dblac</td>
</tr>
<tr>
<td>C</td>
<td>scap</td>
<td>med</td>
<td></td>
<td>hook</td>
<td>dot</td>
</tr>
<tr>
<td>c</td>
<td>unc</td>
<td>open</td>
<td></td>
<td>ogon</td>
<td>dotbl</td>
</tr>
<tr>
<td>etc.</td>
<td></td>
<td>rot</td>
<td></td>
<td>slash</td>
<td>grave</td>
</tr>
<tr>
<td></td>
<td></td>
<td>squ</td>
<td></td>
<td>strok</td>
<td>macr</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>sup</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>uml</td>
</tr>
</tbody>
</table>
Note that not all slots need to be filled in; in most cases only one or two slots are used in addition to the base line character. The meaning of the various parts is explained in this table, listed in alphabetical order:

<table>
<thead>
<tr>
<th>acute = acute accent</th>
<th>close = closed form</th>
<th>enl = enlarged</th>
<th>long = long form</th>
<th>scap = small capital</th>
</tr>
</thead>
<tbody>
<tr>
<td>anc = anceps</td>
<td>comb = combining</td>
<td>flour = flourish</td>
<td>macr = macron (long)</td>
<td>slash = diagonal stroke</td>
</tr>
<tr>
<td>bar = bar above</td>
<td>curl = curl (hook above)</td>
<td>grave = grave accent</td>
<td>med = medium-high position</td>
<td>squ = square form</td>
</tr>
<tr>
<td>baracr = bar across</td>
<td>dbleac = double acute accent</td>
<td>high = high position</td>
<td>ogon = ogonek (hook below)</td>
<td>strok = horizontal stroke</td>
</tr>
<tr>
<td>barbl = bar below</td>
<td>des = descending</td>
<td>hook = hook above</td>
<td>open = open form</td>
<td>sup = superscript</td>
</tr>
<tr>
<td>brev = breve (short)</td>
<td>dot = dot above</td>
<td>ins = Insular</td>
<td>ovl = overline</td>
<td>uml = Umlaut (diaeresis)</td>
</tr>
<tr>
<td>brk = broken</td>
<td>dotbl = dot below</td>
<td>lig = ligature</td>
<td>rot = rotunda</td>
<td>unc = Uncial</td>
</tr>
<tr>
<td>circ = circumflex</td>
<td>dotless = no dot above</td>
<td>ligred = ligature reduced form</td>
<td>run = Runic</td>
<td></td>
</tr>
</tbody>
</table>

Some entities, especially for non-alphabetic characters in *Basic Latin*, *Latin-1 Supplement* and *General Punctuation*, have more compressed names, modelled on already existing entity names.

An updated list of ISO conformant entities can be found at the Oasis web site: www.oasis-open.org/cover/xml-ISOents.txt

**Code points**

Code points are given in the hexadecimal format and refer to the Unicode Standard version 4.0. The allocation of code points in the Private Use Area has been coordinated with several font projects (notably Titus and Junicode) with the aim of establishing a common usage. Further information can be found on the MUFI web site (www.hit.uib.no/mufi).

Code points in the Unicode Standard are usually given with the prefix ‘U+’, e.g. U+003A for the colon, U+003B for the semicolon, etc. For reasons of brevity, this prefix has been left out in this recommendation.

All code points are located in the Basic Multilingual Plane (BMP) of the Unicode Standard. The Private Use Area of the BMP has a total of 6,400 slots. A large number of PUA characters in this recommendation are concentrated in the section F100–F3FF, but many are also to be found in the section E000–F0FF, coordinated with the Titus project. Metrical characters are coordinated with the Alphabetum font and located in the F700–F76F section.

Characters in the PUA have been divided into subranges. Note that the allocation of code points is not necessarily contiguous.
Since Titus and Unicode were already established when this recommendation was made, some code point conflicts were inevitable. This recommendation gives a single code point for every character in the PUA, but lists duplicate code points in other fonts, notably Unicode, where relevant.

Characters in the PUA should be decommissioned as soon as they can be encoded with ordinary Unicode characters. The MUFI web site has further information on this.

**Descriptive names**

Each character has been given a descriptive name, as far as possible according to the rules in the Unicode Standard. The *Menota handbook* ch. 2 has further details on the interpretation of the Unicode naming rules.

In a few cases, an alternative MUFI descriptive name has been introduced. Thus, the character located at 223B in *Mathematical Operators* (p. 49 below) has the name HOMOTHETIC in the Unicode Standard, but since this character could be used for a Latin abbreviation (meaning ‘est’), a MUFI descriptive name has been listed, LATIN ABBREVIATION SIGN EST.

**MUFI compliant fonts**

Font designers are encouraged to design fonts which comply with the code point allocations in this recommendation. A list of MUFI compliant fonts will be available on the MUFI web site.

**The Unicode Standard**

The Unicode Standard can be accessed at www.unicode.org. This site contains a wealth of information on the standard, including code charts in PDF for all ranges.
A: Characters in the Unicode Standard

I: Basic Latin

All 96 characters in this chart have been selected. Characters in Basic Latin may be encoded without the use of entities, but entities have been defined for characters other than the digits 0–9 and the alphabetic characters A–Z and a–z.

<table>
<thead>
<tr>
<th>Glyph</th>
<th>ISO entity</th>
<th>MUFI entity</th>
<th>Code point</th>
<th>Unicode descriptive name</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>!</td>
<td></td>
<td>0021</td>
<td>EXCLAMATION MARK</td>
<td></td>
</tr>
<tr>
<td>&quot;</td>
<td>&quot;</td>
<td></td>
<td>0022</td>
<td>QUOTATION MARK</td>
<td></td>
</tr>
</tbody>
</table>

In SGML/XML encoded documents, the quotation mark is used to delimit attributes. The entity ‘&quot;’ refers to the quotation mark as such.

| #     | &num;       |             | 0023       | NUMBER SIGN              |                       |
| $     | &dollar;    |             | 0024       | DOLLAR SIGN              |                       |
| %     | &percent;   |             | 0025       | PERCENT SIGN             |                       |
| &     | &amp;        | &ampet;     | 0026       | AMPERSAND                | LATIN ABBREVIATION SIGN AMPERSAND |

In SGML/XML encoded documents, the ampersand is used as the opening character for an entity name, as exemplified throughout this recommendation. The ampersand as such should be encoded with the entity ‘&amp;’. In Medieval primary sources, the ampersand was used as an abbreviation for ‘et’ (and). An entity such as ‘&ampet;’ might be used to indicate that this sign is a specific Medieval abbreviation mark.
In SGML/XML encoded documents, the apostrophe may be used in a technical sense. To be able to refer to the apostrophe as such, a separate entity is needed, ‘&apos;.’ – A sign looking like the apostrophe was used as an abbreviation for ‘i’ or ‘e’. Cf. D.A. Seip, *Palæografi: Norge og Island* (Nordisk kultur 23:B), Oslo etc. 1954, p. 125. In such cases, the encoder might want use an entity like ‘&apos;’.

<table>
<thead>
<tr>
<th>Character</th>
<th>Entity</th>
<th>ASCII Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>’</td>
<td>'</td>
<td>0027</td>
<td>APOSTROPHE</td>
</tr>
<tr>
<td>(</td>
<td>(</td>
<td>0028</td>
<td>LEFT PARENTHESIS</td>
</tr>
<tr>
<td>)</td>
<td>)</td>
<td>0029</td>
<td>RIGHT PARENTHESIS</td>
</tr>
<tr>
<td>*</td>
<td>*</td>
<td>002A</td>
<td>ASTERISK</td>
</tr>
<tr>
<td>+</td>
<td>+</td>
<td>002B</td>
<td>PLUS SIGN</td>
</tr>
<tr>
<td>,</td>
<td>,</td>
<td>002C</td>
<td>COMMA</td>
</tr>
<tr>
<td>–</td>
<td>‐</td>
<td>002D</td>
<td>HYPHEN-MINUS</td>
</tr>
<tr>
<td>.</td>
<td>.</td>
<td>002E</td>
<td>FULL STOP</td>
</tr>
<tr>
<td>/</td>
<td>/</td>
<td>002F</td>
<td>SOLIDUS</td>
</tr>
</tbody>
</table>

As the name HYPHEN-MINUS indicates, this character is ambiguous. For an unambiguous hyphen character, see 2010 HYPHEN in *General Punctuation* (p. 45 below), and for an unambiguous minus character, see 2212 MINUS in *Mathematical Operators* (p. 49).

The full stop is often used as a mark of abbreviation, typically in suspended (truncated) words. An entity such as ‘&dot;’ might be used to indicate that it is an abbreviation mark rather than a punctuation mark.
<table>
<thead>
<tr>
<th>Digit</th>
<th>Code</th>
<th>Character</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0030</td>
<td>DIGIT ZERO</td>
</tr>
<tr>
<td>1</td>
<td>0031</td>
<td>DIGIT ONE</td>
</tr>
<tr>
<td>2</td>
<td>0032</td>
<td>DIGIT TWO</td>
</tr>
<tr>
<td>3</td>
<td>0033</td>
<td>DIGIT THREE</td>
</tr>
<tr>
<td>4</td>
<td>0034</td>
<td>DIGIT FOUR</td>
</tr>
<tr>
<td>5</td>
<td>0035</td>
<td>DIGIT FIVE</td>
</tr>
<tr>
<td>6</td>
<td>0036</td>
<td>DIGIT SIX</td>
</tr>
<tr>
<td>7</td>
<td>0037</td>
<td>DIGIT SEVEN</td>
</tr>
<tr>
<td>8</td>
<td>0038</td>
<td>DIGIT EIGHT</td>
</tr>
<tr>
<td>9</td>
<td>0039</td>
<td>DIGIT NINE</td>
</tr>
<tr>
<td>:</td>
<td>:</td>
<td>COLON</td>
</tr>
<tr>
<td>;</td>
<td>; &amp;ed;</td>
<td>SEMICOLON</td>
</tr>
</tbody>
</table>

In Medieval script, a sign looking like the semicolon was commonly used as an abbreviation for ‘eð’ or ‘ed’. In such cases, the encoder might want to use an entity like ‘&ed;’ to indicate that this sign is a specific Medieval abbreviation mark.
In SGML/XML encoded documents, the less-than sign is used as the opening character of an element name, e.g. `<text>`. To be able to refer to the less-than sign as such, a separate entity is needed, ‘&lt;’.

In SGML/XML encoded documents, the greater-than sign is used as a closing character of an element name, e.g. `</text>`. To be able to refer to the greater-than sign as such, a separate entity is recommended, ‘&gt;’.

<table>
<thead>
<tr>
<th>Character</th>
<th>Entity</th>
<th>Hex Code</th>
<th>Character Name</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;</code></td>
<td>&lt;</td>
<td>003C</td>
<td>LESS-TAN SIGN</td>
</tr>
<tr>
<td><code>=</code></td>
<td>=</td>
<td>003D</td>
<td>_EQUALS SIGN</td>
</tr>
<tr>
<td><code>&gt;</code></td>
<td>&gt;</td>
<td>003E</td>
<td>GREATER-TAN SIGN</td>
</tr>
<tr>
<td><code>?</code></td>
<td>?</td>
<td>003F</td>
<td>QUESTION MARK</td>
</tr>
<tr>
<td><code>@</code></td>
<td>@</td>
<td>0040</td>
<td>COMMERCIAL AT</td>
</tr>
<tr>
<td><code>A</code></td>
<td></td>
<td>0041</td>
<td>LATIN CAPITAL LETTER A</td>
</tr>
<tr>
<td><code>B</code></td>
<td></td>
<td>0042</td>
<td>LATIN CAPITAL LETTER B</td>
</tr>
<tr>
<td><code>C</code></td>
<td></td>
<td>0043</td>
<td>LATIN CAPITAL LETTER C</td>
</tr>
<tr>
<td><code>D</code></td>
<td></td>
<td>0044</td>
<td>LATIN CAPITAL LETTER D</td>
</tr>
<tr>
<td><code>E</code></td>
<td></td>
<td>0045</td>
<td>LATIN CAPITAL LETTER E</td>
</tr>
<tr>
<td><code>F</code></td>
<td></td>
<td>0046</td>
<td>LATIN CAPITAL LETTER F</td>
</tr>
<tr>
<td>Character</td>
<td>Code</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>------</td>
<td>----------------------</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>0047</td>
<td>LATIN CAPITAL LETTER G</td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>0048</td>
<td>LATIN CAPITAL LETTER H</td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>0049</td>
<td>LATIN CAPITAL LETTER I</td>
<td></td>
</tr>
<tr>
<td>J</td>
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<td>LATIN CAPITAL LETTER J</td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>004B</td>
<td>LATIN CAPITAL LETTER K</td>
<td></td>
</tr>
<tr>
<td>L</td>
<td>004C</td>
<td>LATIN CAPITAL LETTER L</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>004D</td>
<td>LATIN CAPITAL LETTER M</td>
<td></td>
</tr>
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<td>N</td>
<td>004E</td>
<td>LATIN CAPITAL LETTER N</td>
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<tr>
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</tr>
<tr>
<td>P</td>
<td>0050</td>
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</tr>
<tr>
<td>Q</td>
<td>0051</td>
<td>LATIN CAPITAL LETTER Q</td>
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</tr>
<tr>
<td>R</td>
<td>0052</td>
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<tr>
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<tr>
<td>Character</td>
<td>Code</td>
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<td>LATIN CAPITAL LETTER T</td>
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</tr>
<tr>
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2: Latin-1 Supplement

All 96 characters in this range have been selected, although many of them are not used in Medieval script. However, these characters are so frequently used in other contexts that it is advisable to include the whole range in a Medieval font. For this and all ensuing code charts entities are being used in many SGML/XML documents.

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In Unicode 4.0 this range has 128 characters. The selection below contains 50 characters, mostly precomposed characters with macron, breve, stroke, dot above, and ogonek.

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<td>016D</td>
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<tr>
<td>ş</td>
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<td>017F</td>
<td>LATIN SMALL LETTER LONG S</td>
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</tbody>
</table>

4: Latin Extended-B

In Unicode 4.0 this range has 179 characters, of which 28 characters have been selected. Some of these have acute accent, macron, dot above, or ogonek, others are individual base characters, including Gothic and Old English ones.

<table>
<thead>
<tr>
<th>Glyph</th>
<th>ISO entity</th>
<th>MUFI entity</th>
<th>Code point</th>
<th>Unicode descriptive name</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ń</td>
<td>&amp;bstrok;</td>
<td>0180</td>
<td>LATIN SMALL LETTER B WITH STROKE</td>
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<tr>
<td>ŕ</td>
<td>&amp;hwair;</td>
<td>0195</td>
<td>LATIN SMALL LETTER HV</td>
<td>LATIN SMALL LETTER HWAIR</td>
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<tr>
<td>ž</td>
<td>&amp;kslonglig;</td>
<td>0199</td>
<td>LATIN SMALL LETTER K WITH HOOK</td>
<td>LATIN SMALL LIGATURE K AND LONG S</td>
<td></td>
</tr>
</tbody>
</table>
This is the capital form of the character and seldom used. For the small form, the small capital R should be used, cf. 0280 on p. 30 below.

<table>
<thead>
<tr>
<th>Character</th>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
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<td>&amp;lbar; 019A</td>
<td>LATIN SMALL LETTER L WITH BAR</td>
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<tr>
<td>η</td>
<td>&amp;nlrleg; 019E</td>
<td>LATIN SMALL LETTER N WITH LONG RIGHT LEG</td>
</tr>
<tr>
<td>R</td>
<td>&amp;YR; 01A6</td>
<td>LATIN LETTER YR</td>
</tr>
<tr>
<td>Z</td>
<td>&amp;Zstrok; 01B5</td>
<td>LATIN CAPITAL LETTER Z WITH STROKE</td>
</tr>
<tr>
<td>z</td>
<td>&amp;zstrok; 01B6</td>
<td>LATIN SMALL LETTER Z WITH STROKE</td>
</tr>
<tr>
<td>Ʒ</td>
<td>&amp;EZH; 01B7</td>
<td>LATIN CAPITAL LETTER EZH</td>
</tr>
<tr>
<td>ƿ</td>
<td>&amp;wynn; 01BF</td>
<td>LATIN LETTER WYNN</td>
</tr>
<tr>
<td>ĀÈ</td>
<td>&amp;AEligmacr; 01E2</td>
<td>LATIN CAPITAL LETTER AE WITH MACRON</td>
</tr>
<tr>
<td>Æ</td>
<td>&amp;aeligmacr; 01E3</td>
<td>LATIN SMALL LETTER AE WITH MACRON</td>
</tr>
<tr>
<td>Ǫ</td>
<td>&amp;Oogon; 01EA</td>
<td>LATIN CAPITAL LETTER O WITH OGONEK</td>
</tr>
<tr>
<td>ǭ</td>
<td>&amp;oogon; 01EB</td>
<td>LATIN SMALL LETTER O WITH OGONEK</td>
</tr>
<tr>
<td>Õ</td>
<td>&amp;HWAIR; 01F6</td>
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<td>ðÔ</td>
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<td>ðó</td>
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<td>&amp;YOGH;</td>
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<td>021D</td>
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<td>&amp;Adot;</td>
<td>0226</td>
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<td>&amp;adot;</td>
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<td>Ôó</td>
<td>&amp;Odot;</td>
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<td>òö</td>
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<td>022F</td>
</tr>
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<td>&amp;Ymacr;</td>
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<tr>
<td>ÿ</td>
<td>&amp;ymacr;</td>
<td>0233</td>
</tr>
</tbody>
</table>
5: IPA Extensions

In Unicode 4.0 this range has 94 characters. The selection below contains 15 characters, mostly small capitals. Additional small capitals are located in *Phonetic Extensions*, p. 36 below, and PUA subrange 2 *Small capitals*, p. 53 below.

<table>
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<th>Unicode descriptive name</th>
<th>MUFI descriptive name</th>
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<tbody>
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<tr>
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<tr>
<td>ɟ</td>
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<td>LATIN SMALL LETTER DOTLESS J WITH STROKE</td>
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<td>&amp;gscap;</td>
<td>0262</td>
<td>LATIN LETTER SMALL CAPITAL G</td>
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<tr>
<td>ɦ</td>
<td>[&amp;hhook;]</td>
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<td>LATIN SMALL LETTER H WITH HOOK</td>
<td>LATIN SMALL LIGATURE H AND LONG S</td>
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<tr>
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### 6: Spacing Modifying Letters

In Unicode 4.0 this range has 80 characters. The selection below contains 6 modifying letters. Note that these letters are spacing, i.e. occupying a separate position on the base line. Combining diacritical marks are listed in the next section.

<table>
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<td>02DA</td>
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<td>OGONEK</td>
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</table>
7: Combining Diacritical Marks

In Unicode 4.0 this range has 96 characters, of which 31 have been selected here. The combining characters at the end are recent additions to the Unicode Standard. Additional superscript characters are located in PUA subrange 7 below, p. 61. A dotted circle has been used throughout to illustrate the position of the marks in relation to a typical base line character.

<table>
<thead>
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<th>MUFI descriptive name</th>
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<tr>
<td>☐ e</td>
<td>&amp;esup;</td>
<td>0364</td>
<td>COMBINING LATIN SMALL LETTER E</td>
<td></td>
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<tr>
<td>☐ t</td>
<td>&amp;isup;</td>
<td>0365</td>
<td>COMBINING LATIN SMALL LETTER I</td>
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<td>☐ o</td>
<td>&amp;osup;</td>
<td>0366</td>
<td>COMBINING LATIN SMALL LETTER O</td>
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<tr>
<td>☐ u</td>
<td>&amp;usup;</td>
<td>0367</td>
<td>COMBINING LATIN SMALL LETTER U</td>
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<tr>
<td>☐ c</td>
<td>⫐</td>
<td>0368</td>
<td>COMBINING LATIN SMALL LETTER C</td>
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<td></td>
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<tr>
<td>☐ d</td>
<td>&amp;dsup;</td>
<td>0369</td>
<td>COMBINING LATIN SMALL LETTER D</td>
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<td></td>
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<tr>
<td>☐ h</td>
<td>&amp;hsup;</td>
<td>036A</td>
<td>COMBINING LATIN SMALL LETTER H</td>
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<tr>
<td>☐ m</td>
<td>&amp;msup;</td>
<td>036B</td>
<td>COMBINING LATIN SMALL LETTER M</td>
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<td></td>
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<tr>
<td>☐ r</td>
<td>&amp;rsup;</td>
<td>036C</td>
<td>COMBINING LATIN SMALL LETTER R</td>
<td></td>
<td></td>
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<tr>
<td>☐ t</td>
<td>&amp;tsup;</td>
<td>036D</td>
<td>COMBINING LATIN SMALL LETTER T</td>
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<tr>
<td>☐ v</td>
<td>&amp;vsup;</td>
<td>036E</td>
<td>COMBINING LATIN SMALL LETTER V</td>
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<td>☐ x</td>
<td>&amp;xsup;</td>
<td>036F</td>
<td>COMBINING LATIN SMALL LETTER X</td>
<td></td>
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</tr>
</tbody>
</table>
8: Greek and Coptic

Only a single character has been selected from this range, which contains 120 characters in Unicode 4.0. Presently, this range contains Greek and Coptic characters, but Coptic is likely to be disambiguated from Greek and to be given a separate range in a future version of the Unicode Standard.

<table>
<thead>
<tr>
<th>Glyph</th>
<th>ISO entity</th>
<th>MUFI entity</th>
<th>Code point</th>
<th>Unicode descriptive name</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>θ</td>
<td>&amp;thgr;</td>
<td>&amp;obiit;</td>
<td>03B8</td>
<td>GREEK SMALL LETTER THETA</td>
<td>LATIN ABBREVIATION SIGN OBIIT</td>
</tr>
</tbody>
</table>

9: Georgian

Only a single character has been selected from this range, which contains 80 characters in Unicode 4.0. This character has a duplicate code point in the present version of Junicode (0.6.3).

<table>
<thead>
<tr>
<th>Glyph</th>
<th>ISO entity</th>
<th>MUFI entity</th>
<th>Code point</th>
<th>Junicode</th>
<th>Unicode descriptive name</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>˙·</td>
<td>&amp;tridotright;</td>
<td>&amp;obiit;</td>
<td>10FB</td>
<td>F162</td>
<td>GEORGIAN PARAGRAPH SEPARATOR</td>
<td>PUNCTUATION MARK RIGHT-POINTING TRIANGULAR DOTS</td>
</tr>
</tbody>
</table>
10: Runic

Two characters have been selected from this range, which contains 81 characters in Unicode 4.0. Both characters were used as abbreviation signs in the context of the Latin alphabet. Many Medieval fonts will most likely include the whole Runic range.

<table>
<thead>
<tr>
<th>Glyph</th>
<th>ISO entity</th>
<th>MUFI entity</th>
<th>Code point</th>
<th>Unicode descriptive name</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ᚠ</td>
<td>&amp;frun;</td>
<td>16A0</td>
<td>RUNIC LETTER FEHU FEOH FE F</td>
<td>RUNIC LETTER F</td>
<td></td>
</tr>
<tr>
<td>ᛘ</td>
<td>&amp;mrun;</td>
<td>16D8</td>
<td>RUNIC LETTER LONG-BRANCH-MADR M</td>
<td>RUNIC LETTER M</td>
<td></td>
</tr>
</tbody>
</table>

11: Phonetic Extensions

In Unicode 4.0 this range has 108 characters, of which 15 have been selected here, all small capitals. For additional small capitals, see IPA Extensions, p. 30 above, and PUA subrange 2 Small capitals, p. 53 below.

<table>
<thead>
<tr>
<th>Glyph</th>
<th>ISO entity</th>
<th>MUFI entity</th>
<th>Code point</th>
<th>Descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>&amp;ascap;</td>
<td>1D00</td>
<td>LATIN LETTER SMALL CAPITAL A</td>
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</tr>
<tr>
<td>Æ</td>
<td>&amp;aeligscap;</td>
<td>1D01</td>
<td>LATIN LETTER SMALL CAPITAL AE</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>&amp;cscap;</td>
<td>1D04</td>
<td>LATIN LETTER SMALL CAPITAL C</td>
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</tr>
<tr>
<td>D</td>
<td>&amp;dscap;</td>
<td>1D05</td>
<td>LATIN LETTER SMALL CAPITAL D</td>
<td></td>
</tr>
<tr>
<td>Letter</td>
<td>&lt;tag&gt;</td>
<td>Code</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>-----------</td>
<td>------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>Đ</td>
<td>&amp;ethscap;</td>
<td>1D06</td>
<td>LATIN LETTER SMALL CAPITAL ETH</td>
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<tr>
<td>E</td>
<td>&amp;escap;</td>
<td>1D07</td>
<td>LATIN LETTER SMALL CAPITAL E</td>
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</tr>
<tr>
<td>J</td>
<td>&amp;jscap;</td>
<td>1D0A</td>
<td>LATIN LETTER SMALL CAPITAL J</td>
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<tr>
<td>K</td>
<td>&amp;kscap;</td>
<td>1D0B</td>
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</tr>
<tr>
<td>M</td>
<td>&amp;mscap;</td>
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</tr>
<tr>
<td>O</td>
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</tr>
<tr>
<td>T</td>
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<td>1D1B</td>
<td>LATIN LETTER SMALL CAPITAL T</td>
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</tr>
<tr>
<td>U</td>
<td>&amp;uscap;</td>
<td>1D1C</td>
<td>LATIN LETTER SMALL CAPITAL U</td>
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<tr>
<td>V</td>
<td>&amp;vscap;</td>
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<tr>
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<td>1D22</td>
<td>LATIN LETTER SMALL CAPITAL Z</td>
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</tbody>
</table>
### 12: Latin Extended Additional

In Unicode 4.0 this range has 246 characters. The selection below contains 76 characters, many with dot below, others with hook above, or macron and acute. For additional precomposed characters of these types, see PUA subranges 19, 21 and 25, pp. 80, 86 and 92 below. Note that two characters below have duplicate code points in the present version of Junicode (0.6.3), 1E17 and 1E53.

<table>
<thead>
<tr>
<th>Glyph</th>
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<th>MUFI entity</th>
<th>Code point (Junicode)</th>
<th>Descriptive name</th>
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</thead>
<tbody>
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<td>B̃</td>
<td>&amp;Bdot;</td>
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</tr>
<tr>
<td>b̃</td>
<td>&amp;bdot;</td>
<td>1E03</td>
<td>LATIN SMALL LETTER B WITH DOT ABOVE</td>
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</tr>
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</tr>
<tr>
<td>b̄</td>
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</tr>
<tr>
<td>D̃</td>
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</tr>
<tr>
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<tr>
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<tr>
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<tr>
<td>Ḑ</td>
<td>&amp;Fdot;</td>
<td>1E1E</td>
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<td>ḓ</td>
<td>&amp;fdot;</td>
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<tr>
<td>Ḧ</td>
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<td>&amp;hdotbl;</td>
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<td>Ṁ</td>
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<td>ń</td>
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<tr>
<td>Ő</td>
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<tr>
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</tr>
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<td>Ÿ</td>
<td>&amp;Wuml;</td>
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</tr>
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<tr>
<td>ý</td>
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<tr>
<td>Z</td>
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<tr>
<td>Ä</td>
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</tr>
<tr>
<td>å</td>
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<td>Ä</td>
<td>&amp;Abreveacute;</td>
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</tr>
<tr>
<td>E</td>
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<tr>
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<td></td>
</tr>
<tr>
<td>ï</td>
<td>&amp;Ihook;</td>
<td>1EC8</td>
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</tr>
<tr>
<td>í</td>
<td>&amp;ihook;</td>
<td>1EC9</td>
<td>LATIN SMALL LETTER I WITH HOOK ABOVE</td>
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<tr>
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</tr>
<tr>
<td>Ị</td>
<td>&amp;Idotbl;</td>
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</tr>
<tr>
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</tr>
<tr>
<td>Ọ</td>
<td>&amp;Odotbl;</td>
<td>1 ECC</td>
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</tr>
<tr>
<td>ọ</td>
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<td>1ECD</td>
<td>LATIN SMALL LETTER O WITH DOT BELOW</td>
<td></td>
</tr>
<tr>
<td>Ṫ</td>
<td>&amp;Ohook;</td>
<td>1ECE</td>
<td>LATIN CAPITAL LETTER O WITH HOOK ABOVE</td>
<td></td>
</tr>
<tr>
<td>ṭ</td>
<td>&amp;ohook;</td>
<td>1ECF</td>
<td>LATIN SMALL LETTER O WITH HOOK ABOVE</td>
<td></td>
</tr>
<tr>
<td>Ụ</td>
<td>&amp;Udotbl;</td>
<td>1EE4</td>
<td>LATIN CAPITAL LETTER U WITH DOT BELOW</td>
<td></td>
</tr>
<tr>
<td>ụ</td>
<td>&amp;udotbl;</td>
<td>1EE5</td>
<td>LATIN SMALL LETTER U WITH DOT BELOW</td>
<td></td>
</tr>
<tr>
<td>Ṣ</td>
<td>&amp;Uhook;</td>
<td>1EE6</td>
<td>LATIN CAPITAL LETTER U WITH HOOK ABOVE</td>
<td></td>
</tr>
<tr>
<td>ṣ</td>
<td>&amp;uhook;</td>
<td>1EE7</td>
<td>LATIN SMALL LETTER U WITH HOOK ABOVE</td>
<td></td>
</tr>
<tr>
<td>Ỵ</td>
<td>&amp;Ydotbl;</td>
<td>1EF4</td>
<td>LATIN CAPITAL LETTER Y WITH DOT BELOW</td>
<td></td>
</tr>
<tr>
<td>ỵ</td>
<td>&amp;ydotbl;</td>
<td>1EF5</td>
<td>LATIN SMALL LETTER Y WITH DOT BELOW</td>
<td></td>
</tr>
<tr>
<td>Ṭ</td>
<td>&amp;Yhook;</td>
<td>1EF6</td>
<td>LATIN CAPITAL LETTER Y WITH HOOK ABOVE</td>
<td></td>
</tr>
</tbody>
</table>
ⅲ: General Punctuation

In Unicode 4.0 this range has 97 characters. The selection below contains 48 characters, including a number of spaces with no visible glyph. Note that one character, 204A, did until recently have a duplicate code point in Junicode.

<table>
<thead>
<tr>
<th>Glyph</th>
<th>ISO entity</th>
<th>MUFI entity</th>
<th>Code point</th>
<th>(Unicode)</th>
<th>Unicode descriptive name</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ỷ</td>
<td>&amp;yhook;</td>
<td>1EF7</td>
<td></td>
<td></td>
<td>LATIN SMALL LETTER Y WITH HOOK ABOVE</td>
<td></td>
</tr>
<tr>
<td>Character</td>
<td>Unicode</td>
<td>Year</td>
<td>Description</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------</td>
<td>---------</td>
<td>------</td>
<td>---------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td> </td>
<td>2008</td>
<td></td>
<td>PUNCTUATION SPACE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td> </td>
<td>2009</td>
<td></td>
<td>THIN SPACE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td> </td>
<td>200A</td>
<td></td>
<td>HAIR SPACE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&amp;zerosp;</td>
<td>200B</td>
<td></td>
<td>ZERO WIDTH SPACE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>–</td>
<td>‐</td>
<td>2010</td>
<td>HYPHEN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&amp;nbhy;</td>
<td>2011</td>
<td>NON-BREAKING HYPHEN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>–</td>
<td>&amp;numdash;</td>
<td>2012</td>
<td>FIGURE DASH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>–</td>
<td>–</td>
<td>2013</td>
<td>EN DASH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>—</td>
<td>2014</td>
<td>EM DASH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>―</td>
<td>2015</td>
<td>HORIZONTAL DASH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>‖</td>
<td>‖</td>
<td>2016</td>
<td>DOUBLE VERTICAL LINE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>‘</td>
<td>‘</td>
<td>2018</td>
<td>LEFT SINGLE QUOTATION MARK</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This is an unambiguous hyphen character. See also 002D HYPHEN-MINUS in *Basic Latin* (p. 8 above).
<table>
<thead>
<tr>
<th>Character</th>
<th>Entity</th>
<th>Year</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>’</td>
<td>’</td>
<td>2019</td>
<td>RIGHT SINGLE QUOTATION MARK</td>
</tr>
<tr>
<td>′</td>
<td>‘</td>
<td>2019</td>
<td>LEFT SINGLE QUOTATION MARK</td>
</tr>
<tr>
<td>“</td>
<td>“</td>
<td>201C</td>
<td>LEFT DOUBLE QUOTATION MARK</td>
</tr>
<tr>
<td>”</td>
<td>”</td>
<td>201D</td>
<td>RIGHT DOUBLE QUOTATION MARK</td>
</tr>
<tr>
<td>‼</td>
<td>†</td>
<td>2020</td>
<td>DAGGER</td>
</tr>
</tbody>
</table>

The entity ‘&rsquo;’ is also being used for this character. An analogous variant to 2018, ‘&lsquo;’, has not been included in the survey of ISO conformant entities published on the Oasis web site (cf. p. 5 above).

The final ‘r’ in the ISO entity is ambiguous, since it is otherwise being used for raised quotation marks, such as 201B and 201F. For this reason, the suffix ‘low’ has been used in the recommended MUFI entity.

The entity ‘&ldquo;’ is also being used for this character. An analogous variant to 201C, ‘&rdquo;’, has not been included in the survey of ISO conformant entities published on the Oasis web site (cf. p. 5 above).

The final ‘r’ in the ISO entity is ambiguous, since it is otherwise being used for raised quotation marks, such as 201B and 201F. For this reason, the suffix ‘low’ has been used in the recommended MUFI entity.
Most likely by a mistake, two entities, ‘\&nldr;’ (“en leader”) and ‘\&mldr;’ (“em leader”), have been recorded for 2025 TWO DOT LEADER in the survey of ISO conformant entities published on the Oasis web site (cf. p. 5 above).

<table>
<thead>
<tr>
<th>Character</th>
<th>Entity</th>
<th>Year</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>‡‡</td>
<td>‡</td>
<td>2021</td>
<td>DOUBLE DAGGER</td>
</tr>
<tr>
<td>•</td>
<td>•</td>
<td>2022</td>
<td>BULLET</td>
</tr>
<tr>
<td>▶</td>
<td>&amp;tribull;</td>
<td>2023</td>
<td>TRIANGULAR BULLET</td>
</tr>
<tr>
<td>‧</td>
<td>&amp;sgldr;</td>
<td>2024</td>
<td>ONE DOT LEADER</td>
</tr>
<tr>
<td>‼</td>
<td>&amp;dbldr;</td>
<td>2025</td>
<td>TWO DOT LEADER</td>
</tr>
<tr>
<td>‼</td>
<td>…</td>
<td>2026</td>
<td>HORIZONTAL ELLIPSIS</td>
</tr>
<tr>
<td>•</td>
<td>&amp;hyphpoint;</td>
<td>2027</td>
<td>HYPHENATION POINT</td>
</tr>
<tr>
<td> </td>
<td> </td>
<td>202F</td>
<td>NARROW NO-BREAK SPACE</td>
</tr>
<tr>
<td>‰</td>
<td>‰</td>
<td>2030</td>
<td>PER MILLE SIGN</td>
</tr>
<tr>
<td>’</td>
<td>′</td>
<td>2032</td>
<td>PRIME</td>
</tr>
<tr>
<td>”</td>
<td>″</td>
<td>2033</td>
<td>DOUBLE PRIME</td>
</tr>
<tr>
<td>Character</td>
<td>HTML Entity</td>
<td>Code Point</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td><code>&lt;</code></td>
<td>‹</td>
<td>2039</td>
<td>SINGLE LEFT-POINTING ANGLE QUOTATION MARK</td>
</tr>
<tr>
<td><code>&gt;</code></td>
<td>›</td>
<td>203A</td>
<td>SINGLE RIGHT-POINTING ANGLE QUOTATION MARK</td>
</tr>
<tr>
<td><code>※</code></td>
<td>&amp;refmark;</td>
<td>203B</td>
<td>REFERENCE MARK</td>
</tr>
<tr>
<td><code>⁂</code></td>
<td>&amp;triast;</td>
<td>2042</td>
<td>ASTERISM</td>
</tr>
<tr>
<td><code>/</code></td>
<td>&amp;fracsol;</td>
<td>2044</td>
<td>FRACTION SLASH</td>
</tr>
<tr>
<td><code>[</code></td>
<td>&amp;lsqbqu;</td>
<td>2045</td>
<td>LEFT SQUARE BRACKET WITH QUILL</td>
</tr>
<tr>
<td><code>]</code></td>
<td>&amp;rsqbqu;</td>
<td>2046</td>
<td>RIGHT SQUARE BRACKET WITH QUILL</td>
</tr>
<tr>
<td><code>📅</code></td>
<td>&amp;et;</td>
<td>204A</td>
<td>TIRONIAN SIGN ET</td>
</tr>
</tbody>
</table>

As of Unicode version 0.6.3, this character is no longer located at F143, but has been moved to 204A.

| `ﬆ`       | &revpara;   | 204B       | REVERSED PILCROW SIGN |

The entity `&laquo;` is also being used for this character, but has here been reserved for 00AB in *Latin-1 Supplement* (p. 16 above).

The entity `&raquo;` is also being used for this character, but has here been reserved for 00BB in *Latin-1 Supplement* (p. 17 above).
14: Mathematical Operators

Three characters have been selected from this range, which contains 256 characters in Unicode 4.0. Since two of them have a non-mathematical usage, alternative MUFI descriptive names have been assigned. Note that 223B has a duplicate code point in the present version of Junicode (0.6.3).

<table>
<thead>
<tr>
<th>Glyph</th>
<th>ISO entity</th>
<th>MUFI entity</th>
<th>Code point</th>
<th>(Unicode)</th>
<th>Unicode descriptive name</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>−</td>
<td>−</td>
<td>−</td>
<td>2212</td>
<td></td>
<td>MINUS</td>
<td></td>
</tr>
<tr>
<td>⊃</td>
<td>∴</td>
<td>∴</td>
<td>2234</td>
<td>THEREFORE</td>
<td></td>
<td>PUNCTUATION MARK UPWARDS-POINTING TRIANGULAR DOTS</td>
</tr>
<tr>
<td>⊸</td>
<td>&amp;est;</td>
<td>&amp;f150</td>
<td>223B</td>
<td>HOMOTHETIC</td>
<td></td>
<td>LATIN ABBREVIATION SIGN EST</td>
</tr>
</tbody>
</table>

15: Dingbats

A single character has been selected from this range, which contains 174 characters in Unicode 4.0.

<table>
<thead>
<tr>
<th>Glyph</th>
<th>ISO entity</th>
<th>MUFI entity</th>
<th>Code point</th>
<th>Unicode descriptive name</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>†</td>
<td>✗</td>
<td>†</td>
<td>271D</td>
<td>LATIN CROSS</td>
<td>LATIN ABBREVIATION SIGN CROSS</td>
</tr>
</tbody>
</table>
I 6: Miscellaneous Mathematical Symbols-A

Four characters have been selected from this range, which contains 28 characters in Unicode 4.0. Note that the angle brackets from this range have been chosen rather than 2329 and 232A in Miscellaneous Technical, since the latter are canonical equivalent to the very wide brackets 3008 and 3009 in CJK Symbols and Punctuation. This is to avoid spacing problems which might arise if the CJK brackets were substituted.

<table>
<thead>
<tr>
<th>Glyph</th>
<th>ISO entity</th>
<th>MUFI entity</th>
<th>Code point</th>
<th>Unicode descriptive name</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>⟦</td>
<td>&amp;lwhsqb;</td>
<td>27E6</td>
<td>MATHEMATICAL LEFT WHITE SQUARE BRACKET</td>
<td>LEFT WHITE SQUARE BRACKET</td>
<td></td>
</tr>
<tr>
<td>⟧</td>
<td>&amp;rwhsqb;</td>
<td>27E7</td>
<td>MATHEMATICAL RIGHT WHITE SQUARE BRACKET</td>
<td>RIGHT WHITE SQUARE BRACKET</td>
<td></td>
</tr>
<tr>
<td>⟨</td>
<td>&amp;langb;</td>
<td>27E8</td>
<td>MATHEMATICAL LEFT ANGLE BRACKET</td>
<td>LEFT ANGLE BRACKET</td>
<td></td>
</tr>
<tr>
<td>⟩</td>
<td>&amp;rangb;</td>
<td>27E9</td>
<td>MATHEMATICAL RIGHT ANGLE BRACKET</td>
<td>RIGHT ANGLE BRACKET</td>
<td></td>
</tr>
</tbody>
</table>
B: Characters in the Private Use Area of the Unicode Standard

Important note: Characters in the Private Use Area (PUA) should be used with great caution. The characters listed in this section are supported by MUFI compliant fonts, but if a document is displayed with another, non-compliant font, these characters will show up incorrectly (with the unlikely exception of characters that by coincidence are located at the same code points). For documents with long life expectancy, it is strongly recommended that PUA characters should be encoded with mark-up or entities, and that PUA characters should be used for the final display only, whether on screen or in print. For documents with short life expectancy, characters may be used with less caution as long as the future problems of storage and interchangeability are considered.

MUFI recommends that if a character in the PUA is accepted by the Unicode Standard it should be decommissioned and moved to the new code point. Thus, newer versions of MUFI compliant fonts may lack characters of this type (or, preferably, they should be shown within a triangular warning sign). For this reason, anyone who uses a MUFI compliant font for a document should keep a copy of that particular font, and make a PDF version of the file for future reference. Earlier versions of fonts may not be accessible at a later date.

Finally, note that some characters have duplicate code points to accommodate the Junicode font as of version 0.6.3. This is due to an unavoidable code point conflict between the PUA of this font and other fonts that were coordinated by the MUFI group. The code points given in the MUFI column should be used hereafter, but for the sake of backward compatibility, older code points in Junicode may be duplicated in some fonts. This applies to a total of 34 characters in subranges 5, 10, 16, 23, 24, 25 and 30 below.

Category 1: Base characters

Base characters are base line characters or combining characters making up a part of a composite character. The allocation of code points has been coordinated with characters in the Titus Cyberbit, Junicode and Alphabetum fonts. Subranges 1, 2, 3, 5 and 7 have been placed in the Titus section, E000–F0FF; subranges 4, 6, 8 and 9 in the F100–F1FF section (using already existing Junicode code points wherever possible), and subrange 10 is placed in the F700–F71F section (using already existing Alphabetum code points).

Four subranges, 11–14, have been reserved for future additions.
Subrange 1: Ligatures

Ligatures are two base line characters which are joined so that they form a new, composite base line character. Some consist of two identical characters, e.g. ‘a+a’, others of different characters, e.g. ‘a+v’. In Medieval Nordic manuscripts, ligatures may be used to denote length, ‘a+a’, diphthong, ‘a+v’, or a distinct vowel quality, often mutation (Umlaut), ‘a+v’. Only ligatures which reflect a distinct phonological value should be recognised as characters of their own.

– The broken character ‘l’ representing ‘ll’ should be seen as a ligature of two stems, broken in the middle.

Unicode 4.0 does not recognise any of the ligatures in the list below.

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>Descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA</td>
<td>&amp;AAlig;</td>
<td>EF90</td>
<td>LATIN CAPITAL LIGATURE AA</td>
</tr>
<tr>
<td>a</td>
<td>&amp;aalig;</td>
<td>EF91</td>
<td>LATIN SMALL LIGATURE AA</td>
</tr>
<tr>
<td>AO</td>
<td>&amp;AOlig;</td>
<td>EF92</td>
<td>LATIN CAPITAL LIGATURE AO</td>
</tr>
<tr>
<td>Æ</td>
<td>&amp;aoelig;</td>
<td>EF93</td>
<td>LATIN SMALL LIGATURE AO</td>
</tr>
<tr>
<td>AJ</td>
<td>&amp;AUlig;</td>
<td>EF94</td>
<td>LATIN CAPITAL LIGATURE AU</td>
</tr>
<tr>
<td>æ</td>
<td>&amp;aulig;</td>
<td>EF95</td>
<td>LATIN SMALL LIGATURE AU</td>
</tr>
<tr>
<td>ÆV</td>
<td>&amp;AVlig;</td>
<td>EF96</td>
<td>LATIN CAPITAL LIGATURE AV</td>
</tr>
<tr>
<td>æv</td>
<td>&amp;avlig;</td>
<td>EF97</td>
<td>LATIN SMALL LIGATURE AV</td>
</tr>
<tr>
<td>ÆV</td>
<td>&amp;AVligslash;</td>
<td>EF98</td>
<td>LATIN CAPITAL LIGATURE AV WITH STROKE</td>
</tr>
</tbody>
</table>
Subrange 2: Small capitals

Small capitals have the same form as majuscules (capital letters), but are usually drawn with the same height as a minuscule (small) letter such as ‘x’. In Medieval Nordic manuscripts, small capitals were used to denote geminates, i.e. long consonants, or they were used ornamentally. The letters ‘B’, ‘D’, ‘G’, ‘M’, ‘N’, ‘R’, ‘S’ and ‘T’ were most frequently used as geminates, while these and other letters might also be used as ornaments in the whole or in parts of highlighted words. Some of the small capitals, e.g. ‘O’ and ‘C’, are difficult to distinguish from minuscule letters.


<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>&amp;fscap;</td>
<td>EF05</td>
<td>LATIN LETTER SMALL CAPITAL F</td>
</tr>
<tr>
<td>Q</td>
<td>&amp;qscap;</td>
<td>EF0C</td>
<td>LATIN LETTER SMALL CAPITAL Q</td>
</tr>
</tbody>
</table>
Subrange 3: Enlarged minuscules

Enlarged minuscules are recognised as separate characters by some scholars, cf. e.g. Andrea de Leeuw van Weenen (*A Grammar of Möðruvallabók*, CNWS 85, Leiden 2000). The traditional view has been to interpret these characters as variants of majuscules and encode them as such. It can be argued that this is a functional rather than a graphemic point of view and that it obscures the obvious distinction between e.g. ‘A’ (the majuscule) and ‘â’ (the enlarged minuscule).

Unicode 4.0 does not recognise enlarged minuscules.

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>&amp;aenl;</td>
<td>EEE0</td>
<td>LATIN ENLARGED LETTER SMALL A</td>
</tr>
<tr>
<td>b</td>
<td>&amp;benl;</td>
<td>EEE1</td>
<td>LATIN ENLARGED LETTER SMALL B</td>
</tr>
<tr>
<td>c</td>
<td>&amp;cenl;</td>
<td>EEE2</td>
<td>LATIN ENLARGED LETTER SMALL C</td>
</tr>
<tr>
<td>d</td>
<td>&amp;denl;</td>
<td>EEE3</td>
<td>LATIN ENLARGED LETTER SMALL D</td>
</tr>
<tr>
<td>ɗ</td>
<td>&amp;duncenl;</td>
<td>EEE4</td>
<td>LATIN ENLARGED LETTER UNCIAL D</td>
</tr>
<tr>
<td>Character</td>
<td>HTML Entity</td>
<td>Unicode Code</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
<td>---------------</td>
<td>-------------</td>
</tr>
<tr>
<td>ð</td>
<td>&amp;ethenl;</td>
<td>EEE5</td>
<td>LATIN ENLARGED LETTER SMALL ETH</td>
</tr>
<tr>
<td>e</td>
<td>&amp;eenl;</td>
<td>EEE6</td>
<td>LATIN ENLARGED LETTER SMALL E</td>
</tr>
<tr>
<td>f</td>
<td>&amp;fenl;</td>
<td>EEE7</td>
<td>LATIN ENLARGED LETTER SMALL F</td>
</tr>
<tr>
<td>g</td>
<td>&amp;genl;</td>
<td>EEE8</td>
<td>LATIN ENLARGED LETTER SMALL G</td>
</tr>
<tr>
<td>h</td>
<td>&amp;henl;</td>
<td>EEE9</td>
<td>LATIN ENLARGED LETTER SMALL H</td>
</tr>
<tr>
<td>i</td>
<td>&amp;ienl;</td>
<td>EEEA</td>
<td>LATIN ENLARGED LETTER SMALL I</td>
</tr>
<tr>
<td>j</td>
<td>&amp;jenl;</td>
<td>EEEB</td>
<td>LATIN ENLARGED LETTER SMALL J</td>
</tr>
<tr>
<td>k</td>
<td>&amp;kenl;</td>
<td>EEEC</td>
<td>LATIN ENLARGED LETTER SMALL K</td>
</tr>
<tr>
<td>l</td>
<td>&amp;lenl;</td>
<td>EEED</td>
<td>LATIN ENLARGED LETTER SMALL L</td>
</tr>
<tr>
<td>m</td>
<td>&amp;menl;</td>
<td>EEEE</td>
<td>LATIN ENLARGED LETTER SMALL M</td>
</tr>
<tr>
<td>n</td>
<td>&amp;nenl;</td>
<td>EEEF</td>
<td>LATIN ENLARGED LETTER SMALL N</td>
</tr>
<tr>
<td>o</td>
<td>&amp;oensl;</td>
<td>EEF0</td>
<td>LATIN ENLARGED LETTER SMALL O</td>
</tr>
<tr>
<td>p</td>
<td>&amp;penl;</td>
<td>EEF1</td>
<td>LATIN ENLARGED LETTER SMALL P</td>
</tr>
<tr>
<td>Character</td>
<td>Code</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>------</td>
<td>------------------------------</td>
<td></td>
</tr>
<tr>
<td>q</td>
<td>&amp;qenl;</td>
<td>EEF2</td>
<td>LATIN ENLARGED LETTER SMALL Q</td>
</tr>
<tr>
<td>r</td>
<td>&amp;renl;</td>
<td>EEF3</td>
<td>LATIN ENLARGED LETTER SMALL R</td>
</tr>
<tr>
<td>s</td>
<td>&amp;senl;</td>
<td>EEF4</td>
<td>LATIN ENLARGED LETTER SMALL S</td>
</tr>
<tr>
<td>t</td>
<td>&amp;tenl;</td>
<td>EEF5</td>
<td>LATIN ENLARGED LETTER SMALL T</td>
</tr>
<tr>
<td>þ</td>
<td>&amp;thornenl;</td>
<td>EEF6</td>
<td>LATIN ENLARGED LETTER SMALL THORN</td>
</tr>
<tr>
<td>u</td>
<td>&amp;uenl;</td>
<td>EEF7</td>
<td>LATIN ENLARGED LETTER SMALL U</td>
</tr>
<tr>
<td>v</td>
<td>&amp;venl;</td>
<td>EEF8</td>
<td>LATIN ENLARGED LETTER SMALL V</td>
</tr>
<tr>
<td>w</td>
<td>&amp;wenl;</td>
<td>EEF9</td>
<td>LATIN ENLARGED LETTER SMALL W</td>
</tr>
<tr>
<td>x</td>
<td>&amp;xenl;</td>
<td>EEFA</td>
<td>LATIN ENLARGED LETTER SMALL X</td>
</tr>
<tr>
<td>y</td>
<td>&amp;yenl;</td>
<td>EEFB</td>
<td>LATIN ENLARGED LETTER SMALL Y</td>
</tr>
<tr>
<td>z</td>
<td>&amp;zenl;</td>
<td>EEFC</td>
<td>LATIN ENLARGED LETTER SMALL Z</td>
</tr>
</tbody>
</table>
Subrange 4: Base line abbreviation characters

This range includes those abbreviation signs which typically occupy a position on the base line. Very few abbreviation signs are included in Unicode 4.0. An exception is the Tironian sign for ‘et’, which is found in the range General punctuation, 204A (p. 48 above).

The Runic characters ‘f’ and ‘m’ are sometimes used as abbreviation marks; they have been included in the range Runic, as 16AO and 16D8 respectively (p. 36 above). Since they are used with their alphabetical names as abbreviation (‘fé’ and ‘maðr’ respectively), it is not necessary to define them as separate characters.

Several abbreviation signs can be identified with already existing characters in Unicode 4.0:

• **Basic Latin:** the ampersand, 0026, for ‘et’ (= the conjunction ‘and’) and the apostrophe, 0027, for ‘i’ or ‘e’ (pp. 7–8).
• **IPA Extensions:** The open ‘o’, 0254, similar to the abbreviation sign for ‘con’ (p. 30).
• **Greek and Coptic:** The ‘theta’ character, 03B8, for ‘obiit’ (p. 35).
• **Mathematical Operators:** The homothetic sign, 223B, for ‘est’ (p. 49).
• **Dingbats:** The Latin cross, 271D (p. 50).

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point (Junicode)</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&amp;condes;</td>
<td>F156</td>
<td>LATIN ABBREVIATION SIGN CON</td>
</tr>
<tr>
<td></td>
<td>&amp;ET;</td>
<td>F142</td>
<td>LATIN ABBREVIATION LARGE SIGN ET</td>
</tr>
<tr>
<td></td>
<td>&amp;etslash;</td>
<td>F158</td>
<td>LATIN ABBREVIATION SIGN ET WITH STROKE</td>
</tr>
<tr>
<td></td>
<td>&amp;rum;</td>
<td>F154</td>
<td>LATIN ABBREVIATION SIGN RUM</td>
</tr>
<tr>
<td></td>
<td>&amp;de;</td>
<td>F159</td>
<td>LATIN ABBREVIATION SIGN DE</td>
</tr>
</tbody>
</table>
### Subrange 5: Modified base line abbreviation characters

This range includes a number of abbreviation characters, typically a base line character with a stroke across the ascender. A few abbreviation signs can be identified with already existing characters in the Unicode Standard:

- *Latin Extended-B*: ‘k with hook’, U+0199, similar to the ligature of ‘k’ and ‘long s’ (p. 27).
- *IPA Extensions*: ‘h with hook’, U+0266, similar to the ligature of ‘h’ and ‘long s’, and ‘u with bar’, U+0289 (p. 30).

Note that six characters have duplicate code points in the present version of Junicode (0.6.3): E7C5, E270, E670, E68A, E27D and E67D.

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>(Junicode)</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ð</td>
<td>&amp;thornslonglig;</td>
<td>E734</td>
<td></td>
<td>LATIN SMALL LIGATURE THORN AND LONG S</td>
</tr>
<tr>
<td>ñ</td>
<td>&amp;hslongligbar;</td>
<td>E7C7</td>
<td></td>
<td>LATIN SMALL LIGATURE H AND LONG S WITH STROKE</td>
</tr>
<tr>
<td>ñ</td>
<td>&amp;kslongligbar;</td>
<td>E7C8</td>
<td></td>
<td>LATIN SMALL LIGATURE K AND LONG S WITH STROKE</td>
</tr>
<tr>
<td>ð</td>
<td>&amp;thornslongligbar;</td>
<td>E735</td>
<td></td>
<td>LATIN SMALL LIGATURE THORN AND LONG S WITH STROKE</td>
</tr>
<tr>
<td>ñ</td>
<td>&amp;kbar;</td>
<td>E7C5</td>
<td>F14B</td>
<td>LATIN SMALL LETTER K WITH STROKE</td>
</tr>
<tr>
<td>Character</td>
<td>Character Entity</td>
<td>Hex Code</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>------------------</td>
<td>----------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>ṳ</td>
<td>&amp;thornbar;</td>
<td>E73B</td>
<td>LATIN SMALL LETTER THORN WITH STROKE</td>
<td></td>
</tr>
<tr>
<td>ᵇ</td>
<td>&amp;slongbar;</td>
<td>E7FF</td>
<td>LATIN SMALL LETTER LONG S WITH STROKE</td>
<td></td>
</tr>
<tr>
<td>ṉ</td>
<td>&amp;Pbardes;</td>
<td>E270 F144</td>
<td>LATIN CAPITAL LETTER P WITH STROKE THROUGH DESCENDER</td>
<td></td>
</tr>
<tr>
<td>Ṉ</td>
<td>&amp;pbardes;</td>
<td>E670 F145</td>
<td>LATIN SMALL LETTER P WITH STROKE THROUGH DESCENDER</td>
<td></td>
</tr>
<tr>
<td>q</td>
<td>&amp;qbardes;</td>
<td>E68A F14D</td>
<td>LATIN SMALL LETTER Q WITH STROKE THROUGH DESCENDER</td>
<td></td>
</tr>
<tr>
<td>ṳ</td>
<td>&amp;thornbardes;</td>
<td>E7A0</td>
<td>LATIN SMALL LETTER THORN WITH STROKE THROUGH DESCENDER</td>
<td></td>
</tr>
<tr>
<td>ṗ</td>
<td>&amp;Pflour;</td>
<td>E27D F146</td>
<td>LATIN CAPITAL LETTER P WITH FLOURISH</td>
<td></td>
</tr>
<tr>
<td>ṗ</td>
<td>&amp;pflour;</td>
<td>E67D F147</td>
<td>LATIN SMALL LETTER P WITH FLOURISH</td>
<td></td>
</tr>
</tbody>
</table>
Subrange 6: Combining marks

This range includes those abbreviation signs which typically occupy a position above, through or below another base line character. Combining diacritical marks are also included in this range.

Unicode 4.0 has a large selection in Combining Diacritical Marks (p. 32 above). The list below has additional marks.

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>(Unicode)</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>◌</td>
<td>&amp;arbar;</td>
<td>F1C0</td>
<td></td>
<td>COMBINING ABBREVIATION MARK BAR ABOVE WITH DOT</td>
</tr>
<tr>
<td>◌</td>
<td>&amp;er;</td>
<td>F152</td>
<td>F152</td>
<td>COMBINING ABBREVIATION MARK SUPERSCRIPT ER (ZIG-ZAG SIGN)</td>
</tr>
<tr>
<td>◌</td>
<td>&amp;ra;</td>
<td>F157</td>
<td>F157</td>
<td>COMBINING ABBREVIATION MARK SUPERSCRIPT RA (OMEGA SIGN)</td>
</tr>
<tr>
<td>◌</td>
<td>&amp;rabar;</td>
<td>F1C0</td>
<td></td>
<td>COMBINING ABBREVIATION MARK SUPERSCRIPT RA (OMEGA SIGN) WITH BAR ABOVE</td>
</tr>
<tr>
<td>◌</td>
<td>&amp;ur2;</td>
<td>F153</td>
<td>F153</td>
<td>COMBINING ABBREVIATION MARK SUPERSCRIPT UR (2-SIGN)</td>
</tr>
<tr>
<td>◌</td>
<td>&amp;ur8;</td>
<td>F1C2</td>
<td></td>
<td>COMBINING ABBREVIATION MARK SUPERSCRIPT UR (8-SIGN)</td>
</tr>
<tr>
<td>◌</td>
<td>&amp;ur8open;</td>
<td>F1C3</td>
<td></td>
<td>COMBINING ABBREVIATION MARK SUPERSCRIPT UR (OPEN 8-SIGN)</td>
</tr>
<tr>
<td>◌</td>
<td>&amp;ussep;</td>
<td>F151</td>
<td>F151</td>
<td>SPACING ABBREVIATION MARK SUPERSCRIPT US (9-SIGN)</td>
</tr>
</tbody>
</table>

The combining zig-zag above has been accepted by the UTC and WG2 and is likely to be included in a future version of the Unicode Standard at code point 035B in Combining Diacritical Marks.
Subrange 7: Combining superscript characters

This range includes superscript characters, typically placed above another base line character. They are found in many early German printed texts, and in a large number of Medieval manuscripts. The position immediately above a base line character distinguishes them from raised interlinear characters typically occupying a position immediately after another base line character. This latter type includes a handful of phonetic modifiers such as a raised ‘w’ indicating rounding, a raised ‘h’ indicating aspiration etc.


The characters in the list below are documented in Andrea de Leeuw van Weenen, A Grammar of Möðruvallabók (CNWS 85), Leiden 2000.
<table>
<thead>
<tr>
<th>Character</th>
<th>HTML Entity</th>
<th>Hex Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>b</td>
<td>&amp;bsup;</td>
<td>F012</td>
<td>COMBINING LATIN SMALL LETTER B</td>
</tr>
<tr>
<td>B</td>
<td>&amp;bscapsup;</td>
<td>F013</td>
<td>COMBINING LATIN LETTER SMALL CAPITAL B</td>
</tr>
<tr>
<td>δ</td>
<td>&amp;ethsup;</td>
<td>F014</td>
<td>COMBINING LATIN SMALL LETTER ETH</td>
</tr>
<tr>
<td>D</td>
<td>&amp;dscapsup;</td>
<td>F016</td>
<td>COMBINING LATIN LETTER SMALL CAPITAL D</td>
</tr>
<tr>
<td>f</td>
<td>&amp;fsup;</td>
<td>F017</td>
<td>COMBINING LATIN SMALL LETTER F</td>
</tr>
<tr>
<td>g</td>
<td>&amp;gsup;</td>
<td>F018</td>
<td>COMBINING LATIN SMALL LETTER G</td>
</tr>
<tr>
<td>G</td>
<td>&amp;gscapsup;</td>
<td>F019</td>
<td>COMBINING LATIN LETTER SMALL CAPITAL G</td>
</tr>
<tr>
<td>k</td>
<td>&amp;ksup;</td>
<td>F01B</td>
<td>COMBINING LATIN SMALL LETTER K</td>
</tr>
<tr>
<td>K</td>
<td>&amp;kscapsup;</td>
<td>F01C</td>
<td>COMBINING LATIN LETTER SMALL CAPITAL K</td>
</tr>
<tr>
<td>l</td>
<td>&amp;lsup;</td>
<td>F01D</td>
<td>COMBINING LATIN SMALL LETTER L</td>
</tr>
<tr>
<td>L</td>
<td>&amp;lscapsup;</td>
<td>F01E</td>
<td>COMBINING LATIN LETTER SMALL CAPITAL L</td>
</tr>
<tr>
<td>m</td>
<td>&amp;mscapsup;</td>
<td>F020</td>
<td>COMBINING LATIN LETTER SMALL CAPITAL M</td>
</tr>
<tr>
<td>n</td>
<td>⊅</td>
<td>F021</td>
<td>COMBINING LATIN SMALL LETTER N</td>
</tr>
</tbody>
</table>
Subrange 8: Punctuation marks

This range includes punctuation marks that are not included in Unicode 4.0. The common marks, such as full stop, comma, colon, semicolon, question mark, hyphen and solidus, are all found in the range Basic Latin (p. 7 above). Some are also located in the range General Punctuation (p. 44). Finally, a few punctuation marks can be identified with characters in other ranges:

- *Latin-1 Supplement*: middle dot, 00B7 (p. 17)
- *Georgian*: right-pointing triangular dots, 10FB (p. 35)
- *Mathematical Operators*: upwards-pointing triangular dots (therefore), 2234 (p. 49)
### Subrange 9: Critical and epigraphical signs

Critical signs are used in printed editions, indicating corruptions, deletions, additions etc. The majority of these signs are already in Unicode 4.0:

- **Basic Latin**: asterisk, 002A, square brackets, 005B and 005D, curly brackets, 007B and 007D, single vertical line, 007C (cf. pp. 8–15).
- **General Punctuation**: double vertical line, 2016 (cf. p. 45)
- **Miscellaneous Mathematical Symbols-A**: double square brackets, 27E6 and 27E7, and angle brackets, 27E8 and 27E9 (cf. p. 50)
<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>(Unicode)</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>«</code></td>
<td>&amp;luhsqb;</td>
<td>F1D2</td>
<td></td>
<td>LEFT UPPER HALF SQUARE BRACKET</td>
</tr>
<tr>
<td><code>»</code></td>
<td>&amp;ruhsqb;</td>
<td>F1D3</td>
<td></td>
<td>RIGHT UPPER HALF SQUARE BRACKET</td>
</tr>
<tr>
<td><code>«</code></td>
<td>&amp;llhsqb;</td>
<td>F1D4</td>
<td></td>
<td>LEFT LOWER HALF SQUARE BRACKET</td>
</tr>
<tr>
<td><code>»</code></td>
<td>&amp;rlhsqb;</td>
<td>F1D5</td>
<td></td>
<td>RIGHT LOWER HALF SQUARE BRACKET</td>
</tr>
<tr>
<td><code>\</code></td>
<td>&amp;luslst;</td>
<td>F16E</td>
<td>F16E</td>
<td>LEFT UPPER SLANTED STROKE</td>
</tr>
<tr>
<td><code>/</code></td>
<td>&amp;ruslst;</td>
<td>F16F</td>
<td>F16F</td>
<td>RIGHT UPPER SLANTED STROKE</td>
</tr>
<tr>
<td><code>/</code></td>
<td>&amp;llslst;</td>
<td>F1D6</td>
<td></td>
<td>LEFT LOWER SLANTED STROKE</td>
</tr>
<tr>
<td><code>/</code></td>
<td>&amp;rlslst;</td>
<td>F1D7</td>
<td></td>
<td>RIGHT LOWER SLANTED STROKE</td>
</tr>
</tbody>
</table>

A similar sign, the right angle substitution marker (a New Testament editorial symbol), has been accepted by the UTC and WG2 and is likely to be included in a future version of the Unicode Standard at code point 2E00 in *Supplemental Punctuation*. There is, however, no left angle substitution marker.

The left and right upper slanted strokes, F16E and F16F, have been accepted by the WG2 and are likely to be included in a future version of the Unicode Standard at code points 2E0C and 2E0D in *Supplemental Punctuation*. 
Subrange 10: Metrical symbols

This is the type of symbols used by Eduard Sievers in his *Altgermanische Metrik* (Halle: Max Niemeyer, 1893). They are still frequently used in text books, monographs and articles on Medieval Nordic metrics.

*Thesaurus Linguae Grecae* (TLG) has recently proposed a set of metrical symbols for Greek. This proposal has been approved by the Unicode Technical Committee, but not yet by ISO-10646. The TLG proposal includes symbols for the short syllable (breve) and for the combination of a short and long syllable (metrical short over long). The default character (anceps) is identified with MULTIPLICATION SIGN (00D7) in *Latin-1 Supplement*, and the symbol for long syllable (longum) is identified with FIGURE DASH (2012) or EN DASH (2013) in *General Punctuation*. Combinations of ancesp, breve or longum with grave or acute accent can presumably be achieved by using COMBINING ACUTE ACCENT (0300) and COMBINING GRAVE ACCENT (0301) in *Combining Diacritical Marks*. However, this does not work in all applications, so for the time being precomposed characters will be useful.

Junicode and Alphabetum have metrical symbols in different locations of the Private Use Area, so a code point conflict has been inevitable for this range. Since Alphabetum has the largest selection, code points in this font have been chosen, metrical symbols being placed in the F700–F71F section. However, all duplicate code points in Junicode as of version 0.6.3 are listed below.

Alphabetum contains a number of additional metrical symbols, possibly of interest also for Medieval usage. See the F700–F76F section of this font.

Note that combining single and double vertical bars are located in *Combining Diacritical Marks*, code points 030D and 030E (p. 33 above). They are used to indicate stress (single bar) and stress + alliteration (double bar).

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>(Junicode)</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>⊅</td>
<td>&amp;anc;</td>
<td>F70A</td>
<td>F164</td>
<td>METRICAL SYMBOL ANCEPS</td>
</tr>
<tr>
<td>⊅</td>
<td>&amp;ancacute;</td>
<td>F70B</td>
<td>F165</td>
<td>METRICAL SYMBOL ANCEPS WITH ACUTE (PRIMARY STRESS)</td>
</tr>
<tr>
<td>⊇</td>
<td>&amp;ancdblac;</td>
<td>F719</td>
<td></td>
<td>METRICAL SYMBOL ANCEPS WITH DOUBLE ACUTE (PRIMARY STRESS AND ALLITERATION)</td>
</tr>
<tr>
<td>&amp;ancgrave;</td>
<td>F70C</td>
<td>F166</td>
<td>METRICAL SYMBOL ANCEPS WITH GRAVE (SECONDARY STRESS)</td>
<td></td>
</tr>
<tr>
<td>&amp;ancdblgrave;</td>
<td>F71A</td>
<td></td>
<td>METRICAL SYMBOL ANCEPS WITH DOUBLE GRAVE (SECONDARY STRESS AND ALLITERATION)</td>
<td></td>
</tr>
<tr>
<td>˘</td>
<td>F701</td>
<td>F16A</td>
<td>METRICAL SYMBOL BREVE</td>
<td></td>
</tr>
<tr>
<td>&amp;breveacute;</td>
<td>F706</td>
<td>F16B</td>
<td>METRICAL SYMBOL BREVE WITH ACUTE (PRIMARY STRESS)</td>
<td></td>
</tr>
<tr>
<td>&amp;brevedblac;</td>
<td>F717</td>
<td></td>
<td>METRICAL SYMBOL BREVE WITH DOUBLE ACUTE (PRIMARY STRESS AND ALLITERATION)</td>
<td></td>
</tr>
<tr>
<td>&amp;brevegrave;</td>
<td>F707</td>
<td>F16C</td>
<td>METRICAL SYMBOL BREVE WITH GRAVE (SECONDARY STRESS)</td>
<td></td>
</tr>
<tr>
<td>&amp;brevedblgrave;</td>
<td>F718</td>
<td></td>
<td>METRICAL SYMBOL BREVE WITH DOUBLE GRAVE (SECONDARY STRESS AND ALLITERATION)</td>
<td></td>
</tr>
<tr>
<td>¯</td>
<td>F700</td>
<td>F167</td>
<td>METRICAL SYMBOL LONGUM</td>
<td></td>
</tr>
<tr>
<td>&amp;macracute;</td>
<td>F704</td>
<td>F168</td>
<td>METRICAL SYMBOL LONGUM WITH ACUTE (PRIMARY STRESS)</td>
<td></td>
</tr>
<tr>
<td>&amp;macrdblac;</td>
<td>F715</td>
<td></td>
<td>METRICAL SYMBOL LONGUM WITH DOUBLE ACUTE (SECONDARY STRESS)</td>
<td></td>
</tr>
</tbody>
</table>

The metrical breve has been accepted by the UTC and WG2 and is likely to be included in a future version of the Unicode Standard at code point 23D1 in Miscellaneous Technical.
| \ne | \&macrgrave; | F705 | F169 | METRICAL SYMBOL LONGUM WITH GRAVE (SECONDARY STRESS) |
| \n | \&macrdblgrave; | F716 |  | METRICAL SYMBOL LONGUM WITH DOUBLE GRAVE (SECONDARY STRESS AND ALLITERATION) |
| \u | \&macrbreve; | F702 |  | METRICAL SYMBOL BREVE ABOVE LONGUM (SHORT OR LONG SYLLABLE) |

The metrical short over long has been accepted by the UTC and WG2 and is likely to be included in a future version of the Unicode Standard at code point 23D3 in Miscellaneous Technical.

| \u | \&brevemacr; | F703 |  | METRICAL SYMBOL LONGUM ABOVE BREVE (SHORT OR LONG SYLLABLE) |

The metrical long over short has been accepted by the UTC and WG2 and is likely to be included in a future version of the Unicode Standard at code point 23D2 in Miscellaneous Technical.

| \u | \&macrbreveacute; | F708 |  | METRICAL SYMBOL BREVE ABOVE LONGUM WITH ACUTE (SHORT OR LONG SYLLABLE WITH PRIMARY STRESS) |
| \u | \&macrbrevegrave; | F709 |  | METRICAL SYMBOL BREVE ABOVE LONGUM WITH GRAVE (SHORT OR LONG SYLLABLE WITH SECONDARY STRESS) |
| \u | \&dblbrevemacracute; | F71B |  | METRICAL SYMBOL RESOLVED LIFT WITH ACUTE (PRIMARY STRESS) |

The metrical long over two shorts has been accepted by the UTC and WG2 and is likely to be included in a future version of the Unicode Standard at code point 23D4 in Miscellaneous Technical. Note that this character does not include the stress mark (the acute accent).
<table>
<thead>
<tr>
<th>Character</th>
<th>Unicode Code Point</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>☯</td>
<td>&amp;dblbrevemacrdblac; F71C</td>
<td>METRICAL SYMBOL RESOLVED LIFT WITH DOUBLE ACUTE (PRIMARY STRESS AND ALLITERATION)</td>
</tr>
<tr>
<td>^</td>
<td>&amp;metrpause; F714</td>
<td>METRICAL SYMBOL PAUSE</td>
</tr>
<tr>
<td>☼</td>
<td>&amp;comdblbrevebl; F743</td>
<td>COMBINING DOUBLE BREVE BELOW</td>
</tr>
</tbody>
</table>

The combining bow (double breve) below has been accepted by the UTC and WG2 and is likely to be included in a future version of the Unicode Standard at code point 035C in *Combining Diacritical Marks*.

**Subranges 11–14**

Reserved for future additions.
Category 2: Precomposed characters

Precomposed characters are base line characters with one or more diacritical marks. They have been coordinated with characters in the Titus project and are allocated code points in the E000–F0FF section of the Private Use Area. Precomposed characters will be decommissioned as soon as mature smart font technology is widely available.

Subrange 15: Characters with macron or overline

The overline (bar above) is probably the most used and also the most ambiguous of all abbreviation marks. There are two typical positions of the overline: above the full height of the majuscles and above the x-height of the minuscules. In the latter position it typically crosses the ascender of characters like ‘b’, ‘d’, ‘h’, ‘k’, ‘l’, ‘thorn’ and long ‘s’. If the word has a mixture of characters with and without ascenders, the bar should sometimes be kept in the upper position over all characters.

There are two typical lengths of the overline: less than the width of a character, like the macron, or the full width of the character, so that it can extend as a continuous line over several characters.

With present font technology, the overline is particularly difficult. With some fonts and operating systems it will change its vertical position depending on the height of each character. Thus, in an abbreviation such as ‘ihc’ for ‘Iesus’, the overline may have one position over ‘c’, a slightly higher position over ‘i’ and an even higher position over ‘h’.

This range is intended as a work-around until mature smart font technology is available. It has separate code points for all characters where the overline crosses the ascender, either as a single stroke (macron-length) or as a continuous stroke (overline).

Some of these characters can be identified with characters already in Unicode 4.0:

- *Latin Extended-B*: ‘b’ with stroke, 0180 (p. 27).

A few others have been included in the Private Use Area above, subrange 5:
• *Modified base line abbreviation characters:* ‘k’ with stroke, E7C5, ‘thorn’ with stroke, E73B, and ‘long s’ with stroke, E7FF (p. 58–59).

Font designers should take care to align the overlines on all characters, i.e. those already in the Unicode Standard and those listed here.

Finally, note that this range has a combining macron and a combining overline, each in two positions: one for minuscules (in the same height as the dot over ‘i’) and one for majuscules (in the same height as the accents). These combining characters have ‘hard’ positions, so that they will have the same height regardless of the characters below. In this respect, they differ from 0304 COMBINING MACRON and 0305 COMBINING OVERLINE, which may be displayed with variable height. The combining overlines ought to have medium width, suitable for characters like ‘O’ and ‘o’.

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUIF entity</th>
<th>MUIF code point</th>
<th>MUIF descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>◾️</td>
<td>&amp;macrhig;</td>
<td>F00A</td>
<td>COMBINING HIGH MACRON WITH FIXED HEIGHT (PART-WIDTH)</td>
</tr>
<tr>
<td>◾️̆</td>
<td>&amp;macrmad;</td>
<td>F00B</td>
<td>COMBINING MEDIUM-HIGH MACRON WITH FIXED HEIGHT (PART-WIDTH)</td>
</tr>
<tr>
<td>◾️</td>
<td>&amp;ovlhig;</td>
<td>F00C</td>
<td>COMBINING HIGH OVERLINE WITH FIXED HEIGHT (FULL-WIDTH)</td>
</tr>
<tr>
<td>◾️̆</td>
<td>&amp;ovlmad;</td>
<td>F00D</td>
<td>COMBINING MEDIUM-HIGH OVERLINE WITH FIXED HEIGHT (FULL-WIDTH)</td>
</tr>
<tr>
<td>b</td>
<td>&amp;bovlmed;</td>
<td>E44D</td>
<td>LATIN SMALL LETTER B WITH MEDIUM-HIGH OVERLINE (ACROSS ASCENDER)</td>
</tr>
<tr>
<td>d</td>
<td>&amp;dovlmed;</td>
<td>E491</td>
<td>LATIN SMALL LETTER D WITH MEDIUM-HIGH OVERLINE (ACROSS ASCENDER)</td>
</tr>
<tr>
<td>h</td>
<td>&amp;hovlmed;</td>
<td>E517</td>
<td>LATIN SMALL LETTER H WITH MEDIUM-HIGH OVERLINE (ACROSS ASCENDER)</td>
</tr>
<tr>
<td>k</td>
<td>&amp;kovlmed;</td>
<td>E7C3</td>
<td>LATIN SMALL LETTER K WITH MEDIUM-HIGH OVERLINE (ACROSS ASCENDER)</td>
</tr>
<tr>
<td>l</td>
<td>ł</td>
<td>E5B0</td>
<td>LATIN SMALL LETTER L WITH STROKE (ACROSS ASCENDER)</td>
</tr>
<tr>
<td>Character</td>
<td>Code Point</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>------------</td>
<td>---------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>†</td>
<td>E5B1</td>
<td>LATIN SMALL LETTER L WITH MEDIUM-HIGH OVERLINE (ACROSS ASCENDER)</td>
<td></td>
</tr>
<tr>
<td>ℓ</td>
<td>E79E</td>
<td>LATIN SMALL LETTER LONG S WITH MEDIUM-HIGH OVERLINE (ACROSS ASCENDER)</td>
<td></td>
</tr>
<tr>
<td>Ṗ</td>
<td>E7A2</td>
<td>LATIN SMALL LETTER THORN WITH MEDIUM-HIGH OVERLINE (ACROSS ASCENDER)</td>
<td></td>
</tr>
<tr>
<td>İ</td>
<td>E150</td>
<td>LATIN CAPITAL LETTER I WITH HIGH OVERLINE (ABOVE CHARACTER)</td>
<td></td>
</tr>
<tr>
<td>̄I</td>
<td>E550</td>
<td>LATIN SMALL LETTER I WITH MEDIUM-HIGH OVERLINE (ABOVE CHARACTER)</td>
<td></td>
</tr>
<tr>
<td>̈J</td>
<td>E154</td>
<td>LATIN CAPITAL LETTER J WITH HIGH MACRON (ABOVE CHARACTER)</td>
<td></td>
</tr>
<tr>
<td>̈J</td>
<td>E152</td>
<td>LATIN CAPITAL LETTER J WITH HIGH OVERLINE (ABOVE CHARACTER)</td>
<td></td>
</tr>
<tr>
<td>̄j</td>
<td>E554</td>
<td>LATIN SMALL LETTER J WITH MEDIUM-HIGH MACRON (ABOVE CHARACTER)</td>
<td></td>
</tr>
<tr>
<td>̄j</td>
<td>E552</td>
<td>LATIN SMALL LETTER J WITH MEDIUM-HIGH OVERLINE (ABOVE CHARACTER)</td>
<td></td>
</tr>
<tr>
<td>İ</td>
<td>E596</td>
<td>LATIN SMALL LETTER L WITH HIGH MACRON (ABOVE CHARACTER)</td>
<td></td>
</tr>
<tr>
<td>̄l</td>
<td>E58C</td>
<td>LATIN SMALL LETTER L WITH HIGH OVERLINE (ABOVE CHARACTER)</td>
<td></td>
</tr>
<tr>
<td>̄M</td>
<td>E1B8</td>
<td>LATIN CAPITAL LETTER M WITH HIGH MACRON (ABOVE CHARACTER)</td>
<td></td>
</tr>
<tr>
<td>̄M</td>
<td>E1D2</td>
<td>LATIN CAPITAL LETTER M WITH HIGH OVERLINE (ABOVE CHARACTER)</td>
<td></td>
</tr>
</tbody>
</table>
Subrange 16: Characters with acute accent


Combinations of consonants and the acute accent are presumably rare in Medieval sources and have therefore not been included in the present recommendation. The list below contains characters that do appear with acute accent; the characters ‘j’ and ‘v’ should be seen as semi-vowels in this context, alternating with ‘i’ and ‘u’.

Note that two characters have duplicate code points in the present version of Junicode (0.6.3): E20C and E60C. The combining acute accent, 0301, is located in Combining Diacritical Marks (p. 32).

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>(Junicode)</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ÁÁ</td>
<td>&amp;AAligacute; = &amp;AAlig; + &amp;combacute;</td>
<td>EFE0 = EF90 + 0301</td>
<td>LATIN CAPITAL LIGATURE AA WITH ACUTE = LATIN CAPITAL LIGATURE AA + COMBINING ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>áa</td>
<td>&amp;aaligacute; = &amp;aalig; + &amp;combacute;</td>
<td>EFE1 = EF91 + 0301</td>
<td>LATIN SMALL LIGATURE AA WITH ACUTE = LATIN SMALL LIGATURE AA + COMBINING ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>ÁO</td>
<td>&amp;AOligacute; = &amp;AOlig; + &amp;combacute;</td>
<td>EFE2 = EF92 + 0301</td>
<td>LATIN CAPITAL LIGATURE AO WITH ACUTE = LATIN CAPITAL LIGATURE AO + COMBINING ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>Character</td>
<td>HTML Entity</td>
<td>Codepoints</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
<td>-------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>á</td>
<td>&amp;aoligacute; = &amp;aolig; + &amp;combacute;</td>
<td>EFE3 = EF93 + 0301</td>
<td>LATIN SMALL LIGATURE AO WITH ACUTE = LATIN SMALL LIGATURE AO + COMBINING ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>ÁJ</td>
<td>&amp;AUligacute; = &amp;AUlig; + &amp;combacute;</td>
<td>EFE4 = EF94 + 0301</td>
<td>LATIN CAPITAL LIGATURE AU WITH ACUTE = LATIN CAPITAL LIGATURE AU + COMBINING ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>ái</td>
<td>&amp;auligacute; = &amp;aulig; + &amp;combacute;</td>
<td>EFE5 = EF95 + 0301</td>
<td>LATIN SMALL LIGATURE AU WITH ACUTE = LATIN SMALL LIGATURE AU + COMBINING ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>Áñ</td>
<td>&amp;AVligacute; = &amp;AVlig; + &amp;combacute;</td>
<td>EFE6 = EF96 + 0301</td>
<td>LATIN CAPITAL LIGATURE AV WITH ACUTE = LATIN CAPITAL LIGATURE AV + COMBINING ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>áñ</td>
<td>&amp;avligacute; = &amp;avlig; + &amp;combacute;</td>
<td>EFE7 = EF97 + 0301</td>
<td>LATIN SMALL LIGATURE AV WITH ACUTE = LATIN SMALL LIGATURE AV + COMBINING ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>É</td>
<td>&amp;Eogonacute; = E + &amp;combogon; + &amp;combacute;</td>
<td>E099 = 0035 + 0328 + 0301</td>
<td>LATIN CAPITAL LETTER E WITH OGONEK AND ACUTE = LATIN CAPITAL LETTER E + COMBINING OGONEK + COMBINING ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>é</td>
<td>&amp;eogonacute; = e + &amp;combogon; + &amp;combacute;</td>
<td>E499 = 0065 + 0328 + 0301</td>
<td>LATIN SMALL LETTER E WITH OGONEK AND ACUTE = LATIN SMALL LETTER E + COMBINING OGONEK + COMBINING ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>&amp;Jacute; = J + &amp;combacute;</td>
<td>E153 = 004A + 0301</td>
<td>LATIN CAPITAL LETTER J WITH ACUTE = LATIN CAPITAL LETTER J + COMBINING ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>j</td>
<td>&amp;jacute; = j + &amp;combacute;</td>
<td>E553 = 006A + 0301</td>
<td>LATIN SMALL LETTER J WITH ACUTE = LATIN SMALL LETTER J + COMBINING ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>Character</td>
<td>HTML Entity</td>
<td>Code Points</td>
<td>Unicode</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
<td>-------------</td>
<td>---------</td>
<td>-------------</td>
</tr>
<tr>
<td>Ŗ</td>
<td>&amp;Oogonacute;</td>
<td>004FO, 0328, 0301</td>
<td>E20C</td>
<td>LATIN CAPITAL LETTER O WITH OGONEK AND ACUTE</td>
</tr>
<tr>
<td>Ŗ</td>
<td>o oogonacute;</td>
<td>006FO, 0328, 0301</td>
<td>E60C</td>
<td>LATIN SMALL LETTER O WITH OGONEK AND ACUTE</td>
</tr>
<tr>
<td>Ŋ</td>
<td>&amp;Oslashgonacute;</td>
<td>00D8O, 0328, 0301</td>
<td>E257</td>
<td>LATIN CAPITAL LETTER O WITH STROKE ANDOGONEK AND ACUTE</td>
</tr>
<tr>
<td>Ŋ</td>
<td>o oslashgonacute;</td>
<td>00F8, 0328, 0301</td>
<td>E657</td>
<td>LATIN SMALL LETTER O WITH STROKE AND OGONEK AND ACUTE</td>
</tr>
<tr>
<td>Ŷ</td>
<td>&amp;OOligacute;</td>
<td>00F2A, 0301</td>
<td>EFE8</td>
<td>LATIN CAPITAL LIGATURE OO WITH ACUTE</td>
</tr>
<tr>
<td>Ŷ</td>
<td>o oOligacute;</td>
<td>00F2B, 0301</td>
<td>EFE9</td>
<td>LATIN SMALL LIGATURE OO WITH ACUTE</td>
</tr>
<tr>
<td>Ŷ</td>
<td>&amp;Vacute;</td>
<td>0056V, 0301</td>
<td>E33A</td>
<td>LATIN CAPITAL LETTER V WITH ACUTE</td>
</tr>
<tr>
<td>Ŷ</td>
<td>v vacute;</td>
<td>0076V, 0301</td>
<td>E73A</td>
<td>LATIN SMALL LETTER V WITH ACUTE</td>
</tr>
</tbody>
</table>
**Subrange 17: Characters with double acute accent**

Unicode 4.0 has double acute accent over ‘O’, ‘o’, ‘U’ and ‘u’ in *Latin Extended-A* (p. 23 above). The list below contains additional character combinations. The combining double acute accent, 030B, is located in *Combining Diacritical Marks* (p. 32).

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Å</td>
<td>&amp;Adblac; = A + &amp;combdblac;</td>
<td>E025 = 0041 + 030B</td>
<td>LATIN CAPITAL LETTER A WITH DOUBLE ACUTE = LATIN CAPITAL LETTER A + COMBINING DOUBLE ACUTE ACCENT</td>
</tr>
<tr>
<td>ä</td>
<td>&amp;adblac; = a + &amp;combdblac;</td>
<td>E425 = 0061 + 030B</td>
<td>LATIN SMALL LETTER A WITH DOUBLE ACUTE = LATIN SMALL LETTER A + COMBINING DOUBLE ACUTE ACCENT</td>
</tr>
<tr>
<td>ÄÄ</td>
<td>&amp;AAAligdblac; = &amp;AAAlig; + &amp;combdblac;</td>
<td>EFEA = EF90 + 030B</td>
<td>LATIN CAPITAL LIGATURE AA WITH DOUBLE ACUTE = LATIN CAPITAL LIGATURE AA + COMBINING DOUBLE ACUTE ACCENT</td>
</tr>
<tr>
<td>äÄ</td>
<td>&amp;aaligdblac; = &amp;aalig; + &amp;combdblac;</td>
<td>EFEB = EF91 + 030B</td>
<td>LATIN SMALL LIGATURE AA WITH DOUBLE ACUTE = LATIN SMALL LIGATURE AA + COMBINING DOUBLE ACUTE ACCENT</td>
</tr>
<tr>
<td>ÅE</td>
<td>&amp;AEeligdblac; = &amp;AEelig; + &amp;combdblac;</td>
<td>E041 = 00C6 + 030B</td>
<td>LATIN CAPITAL LETTER AE WITH DOUBLE ACUTE = LATIN CAPITAL LETTER AE + COMBINING DOUBLE ACUTE ACCENT</td>
</tr>
<tr>
<td>æ</td>
<td>&amp;aeligdblac; = æ + &amp;combdblac;</td>
<td>E441 = 00E6 + 030B</td>
<td>LATIN SMALL LETTER AE WITH DOUBLE ACUTE = LATIN SMALL LETTER AE + COMBINING DOUBLE ACUTE ACCENT</td>
</tr>
<tr>
<td>É</td>
<td>&amp;Edblac; = E + &amp;combdblac;</td>
<td>E0D1 = 0035 + 030B</td>
<td>LATIN CAPITAL LETTER E WITH DOUBLE ACUTE = LATIN CAPITAL LETTER E + COMBINING DOUBLE ACUTE ACCENT</td>
</tr>
<tr>
<td>è</td>
<td>&amp;edblac; = e + &amp;combdblac;</td>
<td>E4D1 = 0065 + 030B</td>
<td>LATIN SMALL LETTER E WITH DOUBLE ACUTE = LATIN SMALL LETTER E + COMBINING DOUBLE ACUTE ACCENT</td>
</tr>
<tr>
<td>Character</td>
<td>Encoding</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>----------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>&amp;Idblac;</td>
<td>LATIN CAPITAL LETTER I WITH DOUBLE ACUTE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>= I + &amp;combdblac;</td>
<td>= LATIN CAPITAL LETTER I + COMBINING DOUBLE ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>i</td>
<td>&amp;idblac;</td>
<td>LATIN SMALL LETTER I WITH DOUBLE ACUTE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>= i + &amp;combdblac;</td>
<td>= LATIN SMALL LETTER I + COMBINING DOUBLE ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>&amp;Jdblac;</td>
<td>LATIN CAPITAL LETTER J WITH DOUBLE ACUTE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>= J + &amp;combdblac;</td>
<td>= LATIN CAPITAL LETTER J + COMBINING DOUBLE ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>j</td>
<td>&amp;jdblac;</td>
<td>LATIN SMALL LETTER J WITH DOUBLE ACUTE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>= j + &amp;combdblac;</td>
<td>= LATIN SMALL LETTER J + COMBINING DOUBLE ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>OÔ</td>
<td>&amp;OOligdblac;</td>
<td>LATIN CAPITAL LIGATURE OO WITH DOUBLE ACUTE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>= &amp;OOlig; + &amp;combdblac;</td>
<td>= LATIN CAPITAL LIGATURE OO + COMBINING DOUBLE ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>Ôô</td>
<td>&amp;ooligdblac;</td>
<td>LATIN SMALL LIGATURE OO WITH DOUBLE ACUTE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>= &amp;oolig; + &amp;combdblac;</td>
<td>= LATIN SMALL LIGATURE OO + COMBINING DOUBLE ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>V</td>
<td>&amp;Vdblac;</td>
<td>LATIN CAPITAL LETTER V WITH DOUBLE ACUTE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>= V + &amp;combdblac;</td>
<td>= LATIN CAPITAL LETTER V + COMBINING DOUBLE ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>V</td>
<td>&amp;vdblac;</td>
<td>LATIN SMALL LETTER V WITH DOUBLE ACUTE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>= v + &amp;combdblac;</td>
<td>= LATIN SMALL LETTER V + COMBINING DOUBLE ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>Y</td>
<td>&amp;Ydblac;</td>
<td>LATIN CAPITAL LETTER Y WITH DOUBLE ACUTE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>= Y + &amp;combdblac;</td>
<td>= LATIN CAPITAL LETTER Y + COMBINING DOUBLE ACUTE ACCENT</td>
<td></td>
</tr>
<tr>
<td>y</td>
<td>&amp;ydblac;</td>
<td>LATIN SMALL LETTER Y WITH DOUBLE ACUTE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>= y + &amp;combdblac;</td>
<td>= LATIN SMALL LETTER Y + COMBINING DOUBLE ACUTE ACCENT</td>
<td></td>
</tr>
</tbody>
</table>
Subrange 18: Characters with dot above


Many of these combinations are presumably rare in Medieval sources and only a few have therefore been included in the present recommendation. The list below contains additional characters that do appear with a dot above. The combining dot above, 0307, is located in Combining Diacritical Marks (p. 33).

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ÿ</td>
<td>&amp;Ydotacute; = Y &amp;combdot; + &amp;combacute;</td>
<td>E384 = 0059 + 030B + 0301</td>
<td>LATIN CAPITAL LETTER Y WITH DOT ABOVE AND ACUTE = LATIN CAPITAL LETTER Y + COMBINING DOT ABOVE + COMBINING ACUTE ACCENT</td>
</tr>
<tr>
<td>ý</td>
<td>&amp;ydotacute; = y &amp;combdot; + &amp;combacute;</td>
<td>E784 = 0079 + 030B + 0301</td>
<td>LATIN SMALL LETTER Y WITH DOT ABOVE AND ACUTE = LATIN SMALL LETTER Y + COMBINING DOT ABOVE + COMBINING ACUTE ACCENT</td>
</tr>
<tr>
<td>Character</td>
<td>Representation</td>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>----------------</td>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>&amp;ayligdot;</td>
<td>&amp;aylig; + &amp;combdot;</td>
<td>EF9B + 0307</td>
<td>LATIN SMALL LIGATURE AY WITH DOT ABOVE = LATIN SMALL LIGATURE AY + COMBINING DOT ABOVE</td>
</tr>
<tr>
<td>&amp;gscapdot;</td>
<td>&amp;gscap; + &amp;combdot;</td>
<td>0262 + 0307</td>
<td>LATIN LETTER SMALL CAPITAL G WITH DOT ABOVE = LATIN LETTER SMALL CAPITAL G + COMBINING DOT ABOVE</td>
</tr>
<tr>
<td>&amp;kdot;</td>
<td>k + &amp;combdot;</td>
<td>006B + 0307</td>
<td>LATIN SMALL LETTER K WITH DOT ABOVE = LATIN SMALL LETTER K + COMBINING DOT ABOVE</td>
</tr>
<tr>
<td>&amp;nsccapdot;</td>
<td>&amp;nsccap; + &amp;combdot;</td>
<td>0274 + 0307</td>
<td>LATIN LETTER SMALL CAPITAL N WITH DOT ABOVE = LATIN LETTER SMALL CAPITAL N + COMBINING DOT ABOVE</td>
</tr>
<tr>
<td>&amp;rscapdot;</td>
<td>&amp;rscap; + &amp;combdot;</td>
<td>0280 + 0307</td>
<td>LATIN LETTER SMALL CAPITAL R WITH DOT ABOVE = LATIN LETTER SMALL CAPITAL R + COMBINING DOT ABOVE</td>
</tr>
<tr>
<td>&amp;ssccapdot;</td>
<td>&amp;ssccap; + &amp;combdot;</td>
<td>EF0E + 0307</td>
<td>LATIN LETTER SMALL CAPITAL S WITH DOT ABOVE = LATIN LETTER SMALL CAPITAL S + COMBINING DOT ABOVE</td>
</tr>
<tr>
<td>&amp;tscapdot;</td>
<td>&amp;tscap; + &amp;combdot;</td>
<td>1D1B + 0307</td>
<td>LATIN LETTER SMALL CAPITAL T WITH DOT ABOVE = LATIN LETTER SMALL CAPITAL T + COMBINING DOT ABOVE</td>
</tr>
<tr>
<td>&amp;Vdot;</td>
<td>V + &amp;combdot;</td>
<td>0056 + 0307</td>
<td>LATIN CAPITAL LETTER V WITH DOT ABOVE = LATIN CAPITAL LETTER V + COMBINING DOT ABOVE</td>
</tr>
<tr>
<td>&amp;vdot;</td>
<td>v + &amp;combdot;</td>
<td>0076 + 0307</td>
<td>LATIN SMALL LETTER V WITH DOT ABOVE = LATIN SMALL LETTER V + COMBINING DOT ABOVE</td>
</tr>
<tr>
<td>&amp;Vinsdot;</td>
<td>&amp;Vins; + &amp;combdot;</td>
<td>F210 + 0307</td>
<td>LATIN CAPITAL LETTER INSULAR V (VENTH) WITH DOT ABOVE = LATIN CAPITAL LETTER INSULAR V (VENTH) + COMBINING DOT ABOVE</td>
</tr>
<tr>
<td>&amp;vinsdot;</td>
<td>&amp;vins; + &amp;combdot;</td>
<td>F211 + 0307</td>
<td>LATIN SMALL LETTER INSULAR V (VENTH) WITH DOT ABOVE = LATIN SMALL LETTER INSULAR V (VENTH) + COMBINING DOT ABOVE</td>
</tr>
</tbody>
</table>
Subrange 19: Characters with dot below

Unicode 4.0 has no fewer than 38 characters with a dot below, i.e. essentially the whole alphabet, ‘A–Z’ and ‘a–z’, in Latin Extended Additional. The list below contains additional character combinations. The combining dot below, 0323, is located in Combining Diacritical Marks (p. 33).

Note that the position of the dot below raises problems for the font designer, especially in connection with characters that have descenders or diacritics such as the ogonek. Individually designed glyphs will thus be useful even with a smart font solution.

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA</td>
<td>&amp;AAligdotbl; = &amp;AAlig; + &amp;combdotbl;</td>
<td>EFF2 = EF90 + 0323</td>
<td>LATIN CAPITAL LIGATURE AA WITH DOT BELOW = LATIN CAPITAL LIGATURE AA + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>a a</td>
<td>&amp;aaligdotbl; = &amp;aalig; + &amp;combdotbl;</td>
<td>EFF3 = EF91 + 0323</td>
<td>LATIN SMALL LIGATURE AA WITH DOT BELOW = LATIN SMALL LIGATURE AA + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>A O</td>
<td>&amp;AOligdotbl; = &amp;AOlig; + &amp;combdotbl;</td>
<td>EFF4 = EF92 + 0323</td>
<td>LATIN CAPITAL LIGATURE AO WITH DOT BELOW = LATIN CAPITAL LIGATURE AO + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>a o</td>
<td>&amp;aoligdotbl; = &amp;aolig; + &amp;combdotbl;</td>
<td>EFF5 = EF93 + 0323</td>
<td>LATIN SMALL LIGATURE AO WITH DOT BELOW = LATIN SMALL LIGATURE AO + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>A U</td>
<td>&amp;AUligdotbl; = &amp;AUlig; + &amp;combdotbl;</td>
<td>EFF6 = EF94 + 0323</td>
<td>LATIN CAPITAL LIGATURE AU WITH DOT BELOW = LATIN CAPITAL LIGATURE AU + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>a u</td>
<td>&amp;auligdotbl; = &amp;aulig; + &amp;combdotbl;</td>
<td>EFF7 = EF95 + 0323</td>
<td>LATIN SMALL LIGATURE AU WITH DOT BELOW = LATIN SMALL LIGATURE AU + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>A Y</td>
<td>&amp;AVligdotbl; = &amp;AVlig; + &amp;combdotbl;</td>
<td>EFF8 = EF96 + 0323</td>
<td>LATIN CAPITAL LIGATURE AV WITH DOT BELOW = LATIN CAPITAL LIGATURE AV + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>Character</td>
<td>Description</td>
<td>Code Points</td>
<td>Notes</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
<td>-------------</td>
<td>-------</td>
</tr>
<tr>
<td>a`</td>
<td>&amp;avligdotbl; \ = &amp;avlig; + &amp;combdotbl;</td>
<td>EFF9 = EF97 + 0323</td>
<td>LATIN SMALL LIGATURE AV WITH DOT BELOW = LATIN SMALL LIGATURE AV + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>A`</td>
<td>&amp;AYligdotbl; \ = &amp;AYlig; + &amp;combdotbl;</td>
<td>EFFA = EF98 + 0323</td>
<td>LATIN CAPITAL LIGATURE AY WITH DOT BELOW = LATIN CAPITAL LIGATURE AY + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>a`</td>
<td>&amp;ayligdotbl; \ = &amp;aylig; + &amp;combdotbl;</td>
<td>EFFB = EF99 + 0323</td>
<td>LATIN SMALL LIGATURE AY WITH DOT BELOW = LATIN SMALL LIGATURE AY + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>b`</td>
<td>&amp;bscapdotbl; \ = &amp;bscap; + &amp;combdotbl;</td>
<td>EF25 = 0299 + 0323</td>
<td>LATIN LETTER SMALL CAPITAL B WITH DOT BELOW = LATIN LETTER SMALL CAPITAL B + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>c`</td>
<td>&amp;Cdotbl; \ = C + &amp;combdotbl;</td>
<td>E066 = 0043 + 0323</td>
<td>LATIN CAPITAL LETTER C WITH DOT BELOW = LATIN CAPITAL LETTER C + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>c`</td>
<td>&amp;cdotbl; \ = c + &amp;combdotbl;</td>
<td>E466 = 0063 + 0323</td>
<td>LATIN SMALL LETTER C WITH DOT BELOW = LATIN SMALL LETTER C + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>d`</td>
<td>&amp;dscapdotbl; \ = &amp;dscap; + &amp;combdotbl;</td>
<td>EF26 = 1D05 + 0323</td>
<td>LATIN LETTER SMALL CAPITAL D WITH DOT BELOW = LATIN LETTER SMALL CAPITAL D + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>D`</td>
<td>&amp;ETHdotbl; \ = &amp;ETH; + &amp;combdotbl;</td>
<td>E08F = 00D0 + 0323</td>
<td>LATIN CAPITAL LETTER ETH WITH DOT BELOW = LATIN CAPITAL LETTER ETH + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>ð</td>
<td>&amp;ethdotbl; \ = &amp;eth; + &amp;combdotbl;</td>
<td>E48F = 00F0 + 0323</td>
<td>LATIN SMALL LETTER ETH WITH DOT BELOW = LATIN SMALL LETTER ETH + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>E`</td>
<td>&amp;Eogondotbl; \ = &amp;Eogon; + &amp;combdotbl;</td>
<td>E0E8 = 0118 + 0323</td>
<td>LATIN CAPITAL LETTER E WITH OGONEK AND DOT BELOW = LATIN CAPITAL LETTER E WITH OGONEK + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>ð</td>
<td>&amp;eogondotbl; \ = &amp;eogon; + &amp;combdotbl;</td>
<td>E4E8 = 0119 + 0323</td>
<td>LATIN SMALL LETTER E WITH OGONEK AND DOT BELOW = LATIN SMALL LETTER E WITH OGONEK + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>Character</td>
<td>HTML Entity</td>
<td>Unicode</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
<td>---------</td>
<td>-------------</td>
</tr>
<tr>
<td>F</td>
<td>&amp;Fdotbl; = F + &amp;combdotbl;</td>
<td>E0EE = 0046 + 0323</td>
<td>LATIN CAPITAL LETTER F WITH DOT BELOW = LATIN CAPITAL LETTER F + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>f</td>
<td>&amp;fdotbl; = f + &amp;combdotbl;</td>
<td>E4EE = 0066 + 0323</td>
<td>LATIN SMALL LETTER F WITH DOT BELOW = LATIN SMALL LETTER F + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>F</td>
<td>&amp;Finsdotbl; = &amp;Fins; + &amp;combdotbl;</td>
<td>E3E5 = F10C + 0323</td>
<td>LATIN CAPITAL LETTER INSULAR F WITH DOT BELOW = LATIN CAPITAL LETTER INSULAR F + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>f</td>
<td>&amp;finsdotbl; = &amp;fins; + &amp;combdotbl;</td>
<td>E7E5 = F10D + 0323</td>
<td>LATIN SMALL LETTER INSULAR F WITH DOT BELOW = LATIN SMALL LETTER INSULAR F + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>G</td>
<td>&amp;Gdotbl; = G + &amp;combdotbl;</td>
<td>E101 = 0047 + 0323</td>
<td>LATIN CAPITAL LETTER G WITH DOT BELOW = LATIN CAPITAL LETTER G + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>g</td>
<td>&amp;gdotbl; = g + &amp;combdotbl;</td>
<td>E501 = 0067 + 0323</td>
<td>LATIN SMALL LETTER G WITH DOT BELOW = LATIN SMALL LETTER G + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>G</td>
<td>&amp;gsdotbl; = &amp;gscap; + &amp;combdotbl;</td>
<td>EF27 = 0262 + 0323</td>
<td>LATIN LETTER SMALL CAPITAL G WITH DOT BELOW = LATIN LETTER SMALL CAPITAL G + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>J</td>
<td>&amp;Jdotbl; = J + &amp;combdotbl;</td>
<td>E151 = 004A + 0323</td>
<td>LATIN CAPITAL LETTER J WITH DOT BELOW = LATIN CAPITAL LETTER J + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>j</td>
<td>&amp;jdotbl; = j + &amp;combdotbl;</td>
<td>E551 = 006A + 0323</td>
<td>LATIN SMALL LETTER J WITH DOT BELOW = LATIN SMALL LETTER J + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>L</td>
<td>&amp;ldotbl; = &amp;lscap; + &amp;combdotbl;</td>
<td>EF28 = 029F + 0323</td>
<td>LATIN LETTER SMALL CAPITAL L WITH DOT BELOW = LATIN LETTER SMALL CAPITAL L + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>M</td>
<td>&amp;mdotbl; = &amp;mscap; + &amp;combdotbl;</td>
<td>EF29 = 1D0D + 0323</td>
<td>LATIN LETTER SMALL CAPITAL M WITH DOT BELOW = LATIN LETTER SMALL CAPITAL M + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>Character</td>
<td>Code Points</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>&amp;nscapdotbl; = &amp;nscap; + &amp;combdotbl; ( \text{EF2A} = 0274 + 0323 )</td>
<td>LATIN LETTER SMALL CAPITAL N WITH DOT BELOW = LATIN LETTER SMALL CAPITAL N + COMBINING DOT BELOW</td>
<td></td>
</tr>
<tr>
<td>Q</td>
<td>&amp;Oogondotbl; = &amp;Oogon; + &amp;combdotbl; ( \text{E208} = 01EA + 0323 )</td>
<td>LATIN CAPITAL LETTER O WITH OGONEK AND DOT BELOW = LATIN CAPITAL LETTER O WITH OGONEK + COMBINING DOT BELOW</td>
<td></td>
</tr>
<tr>
<td>q</td>
<td>&amp;oogondotbl; = &amp;oogon; + &amp;combdotbl; ( \text{E608} = 01EB + 0323 )</td>
<td>LATIN SMALL LETTER O WITH OGONEK AND DOT BELOW = LATIN SMALL LETTER O WITH OGONEK + COMBINING DOT BELOW</td>
<td></td>
</tr>
<tr>
<td>OŁ</td>
<td>&amp;OOligdotbl; = &amp;OOlig; + &amp;combdotbl; ( \text{EFFC} = F20A + 0323 )</td>
<td>LATIN CAPITAL LIGATURE OO WITH DOT BELOW = LATIN CAPITAL LIGATURE OO + COMBINING DOT BELOW</td>
<td></td>
</tr>
<tr>
<td>oŁ</td>
<td>&amp;ooligdotbl; = &amp;oolig; + &amp;combdotbl; ( \text{EFFD} = F20B + 0323 )</td>
<td>LATIN SMALL LIGATURE OO WITH DOT BELOW = LATIN SMALL LIGATURE OO + COMBINING DOT BELOW</td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>&amp;Pdotbl; = P + &amp;combdotbl; ( \text{E26D} = 0050 + 0323 )</td>
<td>LATIN CAPITAL LETTER P WITH DOT BELOW = LATIN CAPITAL LETTER P + COMBINING DOT BELOW</td>
<td></td>
</tr>
<tr>
<td>p</td>
<td>&amp;pdotbl; = p + &amp;combdotbl; ( \text{E66D} = 0070 + 0323 )</td>
<td>LATIN SMALL LETTER P WITH DOT BELOW = LATIN SMALL LETTER P + COMBINING DOT BELOW</td>
<td></td>
</tr>
<tr>
<td>Q</td>
<td>&amp;Qdotbl; = Q + &amp;combdotbl; ( \text{E288} = 0051 + 0323 )</td>
<td>LATIN CAPITAL LETTER Q WITH DOT BELOW = LATIN CAPITAL LETTER Q + COMBINING DOT BELOW</td>
<td></td>
</tr>
<tr>
<td>q</td>
<td>&amp;qdotbl; = q + &amp;combdotbl; ( \text{E688} = 0071 + 0323 )</td>
<td>LATIN SMALL LETTER Q WITH DOT BELOW = LATIN SMALL LETTER Q + COMBINING DOT BELOW</td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>&amp;rscapdotbl; = &amp;rscap; + &amp;combdotbl; ( \text{EF2B} = 0280 + 0323 )</td>
<td>LATIN LETTER SMALL CAPITAL R WITH DOT BELOW = LATIN LETTER SMALL CAPITAL R + COMBINING DOT BELOW</td>
<td></td>
</tr>
<tr>
<td>ژ</td>
<td>&amp;rrotdotbl; = &amp;rrot; + &amp;combdotbl; ( \text{E7C1} = F20E + 0323 )</td>
<td>LATIN SMALL LETTER R ROTUNDA WITH DOT BELOW = LATIN SMALL LETTER R ROTUNDA + COMBINING DOT BELOW</td>
<td></td>
</tr>
<tr>
<td>Character</td>
<td>HTML Entity</td>
<td>Hexadecimal Value</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
<td>-------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>S</td>
<td>&amp;sscapdotbl; = &amp;sscap; + &amp;combdotbl;</td>
<td>EF2C = EF0E + 0323</td>
<td>LATIN LETTER SMALL CAPITAL S WITH DOT BELOW = LATIN LETTER SMALL CAPITAL S + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>f</td>
<td>&amp;slongdotbl; = &amp;slong; + &amp;combdotbl;</td>
<td>E7C2 = 017F + 0323</td>
<td>LATIN SMALL LETTER LONG S WITH DOT BELOW = LATIN SMALL LETTER LONG S + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>T</td>
<td>&amp;tscapdotbl; = &amp;tscap; + &amp;combdotbl;</td>
<td>EF2D = 1D1B + 0323</td>
<td>LATIN LETTER SMALL CAPITAL T WITH DOT BELOW = LATIN LETTER SMALL CAPITAL T + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>P</td>
<td>&amp;THORNdotbl; = Þ + &amp;combdotbl;</td>
<td>E39F = 00DE + 0323</td>
<td>LATIN CAPITAL LETTER THORN WITH DOT BELOW = LATIN CAPITAL LETTER THORN + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>p</td>
<td>&amp;thorndotbl; = þ + &amp;combdotbl;</td>
<td>E79F = 00FE + 0323</td>
<td>LATIN SMALL LETTER THORN WITH DOT BELOW = LATIN SMALL LETTER THORN + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>v</td>
<td>&amp;Vinsdotbl; = &amp;Vins; + &amp;combdotbl;</td>
<td>E3E6 = F210 + 0323</td>
<td>LATIN CAPITAL LETTER INSULAR V (VENTH) WITH DOT BELOW = LATIN CAPITAL LETTER INSULAR V (VENTH) + COMBINING DOT BELOW</td>
</tr>
<tr>
<td>p</td>
<td>&amp;vinsdotbl; = &amp;vins; + &amp;combdotbl;</td>
<td>E7E6 = F211 + 0323</td>
<td>LATIN SMALL LETTER INSULAR V (VENTH) WITH DOT BELOW = LATIN SMALL LETTER INSULAR V (VENTH) + COMBINING DOT BELOW</td>
</tr>
</tbody>
</table>
Subrange 20: Characters with diaeresis


Combinations with consonants and diaeresis are presumably rare in Medieval sources and have therefore not been included in the present recommendation. The list below contains additional vowels that do appear with diaeresis.

The combining diaeresis, 0308, is located in Combining Diacritical Marks (p. 33).

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Āā</td>
<td>&amp;AAliguml; = &amp;AAlig; + &amp;combuml;</td>
<td>EFFE = EF90 + 0308</td>
<td>LATIN CAPITAL LIGATURE AA WITH DIAERESIS = LATIN CAPITAL LIGATURE AA + COMBINING DIAERESIS</td>
</tr>
<tr>
<td>Ææ</td>
<td>&amp;AEliguml; = Æ + &amp;combuml;</td>
<td>E042 = 00C6 + 0308</td>
<td>LATIN CAPITAL LIGATURE AE WITH DIAERESIS = LATIN CAPITAL LIGATURE AE + COMBINING DIAERESIS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>E442 = 00E6 + 0308</td>
<td>LATIN SMALL LIGATURE AE WITH DIAERESIS = LATIN CAPITAL LIGATURE AE + COMBINING DIAERESIS</td>
</tr>
</tbody>
</table>
Subrange 21: Characters with hook above

Unicode 4.0 has a hook above (curl) in combination with ‘A’, ‘a’, ‘I’, ‘i’, ‘O’, ‘o’, ‘Y’ and ‘y’ in Latin Extended Additional (p. 38 above). However, this curl is loose and has a different design from the one used in e.g. Medieval Nordic sources, so for this reason these and a few other characters have been given separate code points in the list below. The combining curls, F1C5 (high position) and F1C4 (medium-high position), are located in PUA subrange 6 Combining marks (p. 61).

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Å</td>
<td>&amp;Acurl;</td>
<td>E033</td>
<td>LATIN CAPITAL LETTER A WITH CURL</td>
</tr>
<tr>
<td></td>
<td>= A + &amp;combcurl;</td>
<td>0041 + F1C5</td>
<td>LATIN CAPITAL LETTER A + COMBINING CURL</td>
</tr>
<tr>
<td>å</td>
<td>&amp;acurl;</td>
<td>E433</td>
<td>LATIN SMALL LETTER A WITH CURL</td>
</tr>
<tr>
<td></td>
<td>= a + &amp;combcurl;</td>
<td>0061 + F1C4</td>
<td>LATIN SMALL LETTER A + COMBINING CURL</td>
</tr>
<tr>
<td>Æ</td>
<td>&amp;Ecurl;</td>
<td>E0E9</td>
<td>LATIN CAPITAL LETTER E WITH CURL</td>
</tr>
<tr>
<td></td>
<td>= E + &amp;combcurl;</td>
<td>0035 + F1C5</td>
<td>LATIN CAPITAL LETTER E + COMBINING CURL</td>
</tr>
<tr>
<td>Æ</td>
<td>&amp;ecurl;</td>
<td>E4E9</td>
<td>LATIN SMALL LETTER E WITH CURL</td>
</tr>
<tr>
<td></td>
<td>= e + &amp;combcurl;</td>
<td>0065 + F1C4</td>
<td>LATIN SMALL LETTER E + COMBINING CURL</td>
</tr>
<tr>
<td>Í</td>
<td>&amp;Icurl;</td>
<td>E12A</td>
<td>LATIN CAPITAL LETTER I WITH CURL</td>
</tr>
<tr>
<td></td>
<td>= I + &amp;combcurl;</td>
<td>0049 + F1C5</td>
<td>LATIN CAPITAL LETTER I + COMBINING CURL</td>
</tr>
<tr>
<td>Ì</td>
<td>&amp;icurl;</td>
<td>E52A</td>
<td>LATIN SMALL LETTER I WITH CURL</td>
</tr>
<tr>
<td></td>
<td>= i + &amp;combcurl;</td>
<td>0131 + F1C4</td>
<td>LATIN SMALL LETTER DOTLESS I + COMBINING CURL</td>
</tr>
<tr>
<td>Í</td>
<td>&amp;Jcurl;</td>
<td>E163</td>
<td>LATIN CAPITAL LETTER J WITH CURL</td>
</tr>
<tr>
<td></td>
<td>= J + &amp;combcurl;</td>
<td>0049 + F1C5</td>
<td>LATIN CAPITAL LETTER J + COMBINING CURL</td>
</tr>
<tr>
<td>Ì</td>
<td>&amp;jcurl;</td>
<td>E563</td>
<td>LATIN SMALL LETTER J WITH CURL</td>
</tr>
<tr>
<td></td>
<td>= j + &amp;combcurl;</td>
<td>F40B + F1C4</td>
<td>LATIN SMALL LETTER J + COMBINING CURL</td>
</tr>
<tr>
<td>Character</td>
<td>UTF-8 Code</td>
<td>Description</td>
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</tr>
<tr>
<td>-----------</td>
<td>------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>O</td>
<td>E3D3</td>
<td>LATIN CAPITAL LETTER O WITH CURL</td>
<td></td>
</tr>
<tr>
<td>o</td>
<td>E7D3</td>
<td>LATIN SMALL LETTER O WITH CURL</td>
<td></td>
</tr>
<tr>
<td>ø</td>
<td>E3D4</td>
<td>LATIN CAPITAL LETTER O WITH STROKE AND CURL</td>
<td></td>
</tr>
<tr>
<td>ø</td>
<td>E7D4</td>
<td>LATIN SMALL LETTER O WITH STROKE AND CURL</td>
<td></td>
</tr>
<tr>
<td>Ü</td>
<td>E331</td>
<td>LATIN CAPITAL LETTER U WITH CURL</td>
<td></td>
</tr>
<tr>
<td>û</td>
<td>E731</td>
<td>LATIN SMALL LETTER U WITH CURL</td>
<td></td>
</tr>
<tr>
<td>Ý</td>
<td>E385</td>
<td>LATIN CAPITAL LETTER Y WITH CURL</td>
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</tr>
<tr>
<td>ý</td>
<td>E785</td>
<td>LATIN SMALL LETTER Y WITH CURL</td>
<td></td>
</tr>
</tbody>
</table>
Subrange 22: Characters with ogonek

Unicode 4.0 has ogonek with ‘A’, ‘a’, ‘E’ and ‘e’ in *Latin Extended-A* (p. 23 above), and ‘O’ and ‘o’ in *Latin Extended-B* (p. 27). The list below contains additional character combinations. The combining ogonek, 0328, is located in *Combining Diacritical Marks* (p. 33).

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>₁</td>
<td>&amp;AEligogon;</td>
<td>E040 = 00C6 + 0328</td>
<td>LATIN CAPITAL LIGATURE AE WITH OGONEK</td>
</tr>
<tr>
<td></td>
<td>= Æ + &amp;combogon;</td>
<td></td>
<td>= LATIN CAPITAL LIGATURE AE + COMBINING OGONEK</td>
</tr>
<tr>
<td>₁</td>
<td>&amp;aeligogon;</td>
<td>E440 = 00E6 + 0328</td>
<td>LATIN SMALL LIGATURE AE WITH OGONEK</td>
</tr>
<tr>
<td></td>
<td>= æ + &amp;combogon;</td>
<td></td>
<td>= LATIN SMALL LIGATURE AE + COMBINING OGONEK</td>
</tr>
<tr>
<td></td>
<td>&amp;Oogoncurl;</td>
<td>E24F = 004F + 0328 + F1C5</td>
<td>LATIN CAPITAL LETTER O WITH OGONEK AND CURL</td>
</tr>
<tr>
<td></td>
<td>= O + &amp;combogon; + &amp;combcurl;</td>
<td></td>
<td>= LATIN CAPITAL LETTER O + COMBINING OGONEK + COMBINING CURL</td>
</tr>
<tr>
<td></td>
<td>&amp;oogoncurl;</td>
<td>E64F = 006F + 0328 + F1C4</td>
<td>LATIN SMALL LETTER O WITH OGONEK AND CURL</td>
</tr>
<tr>
<td></td>
<td>= o + &amp;combogon; + &amp;combcurl;</td>
<td></td>
<td>= LATIN SMALL LETTER O + COMBINING OGONEK + COMBINING CURL</td>
</tr>
<tr>
<td></td>
<td>&amp;Oslashogon;</td>
<td>E255 = 00D8 + 0328</td>
<td>LATIN CAPITAL LETTER O WITH STROKE AND OGONEK</td>
</tr>
<tr>
<td></td>
<td>= Ø + &amp;combogon;</td>
<td></td>
<td>= LATIN CAPITAL LETTER O WITH STROKE + COMBINING OGONEK</td>
</tr>
<tr>
<td></td>
<td>&amp;oslashogon;</td>
<td>E655 = 00F8 + 0328</td>
<td>LATIN SMALL LETTER O WITH STROKE AND OGONEK</td>
</tr>
<tr>
<td></td>
<td>= ø + &amp;combogon;</td>
<td></td>
<td>= LATIN SMALL LETTER O WITH STROKE + COMBINING OGONEK</td>
</tr>
<tr>
<td></td>
<td>&amp;togon;</td>
<td>E6EE = 0074 + 0328</td>
<td>LATIN SMALL LETTER T WITH OGONEK</td>
</tr>
<tr>
<td></td>
<td>= t + &amp;combogon;</td>
<td></td>
<td>= LATIN SMALL LETTER T + COMBINING OGONEK</td>
</tr>
</tbody>
</table>
Subrange 23: Characters with breve

Unicode 4.0 has breve over the vowels ‘A’, ‘a’, ‘E’, ‘e’, ‘I’, ‘i’, ‘O’, ‘o’, ‘U’ and ‘u’, and also over the consonant ‘g’, all in Latin Extended-A (p. 23 above). The list below contains additional character combinations. The combining breve, 0306, is located in Combining Diacritical Marks (p. 33).

Note that all four characters in the list below have duplicate code points in the present version of Junicode (0.6.3).

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>(Unicode)</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Æ</td>
<td>&amp;AEligbreve; = Æ + &amp;combbreve;</td>
<td>E03F = 00C6 + 0306</td>
<td>F13C</td>
<td>LATIN CAPITAL LIGATURE AE WITH BREVE = LATIN CAPITAL LIGATURE AE + COMBINING BREVE</td>
</tr>
<tr>
<td>Æ</td>
<td>&amp;aeligbreve; = æ + &amp;combbreve;</td>
<td>E43F = 00E6 + 0306</td>
<td>F13D</td>
<td>LATIN SMALL LIGATURE AE WITH BREVE = LATIN SMALL LIGATURE AE + COMBINING BREVE</td>
</tr>
<tr>
<td>Ŷ</td>
<td>&amp;Ybreve; = Y + &amp;combbreve;</td>
<td>E376 = 0054 + 0306</td>
<td>F140</td>
<td>LATIN CAPITAL LETTER Y WITH BREVE = LATIN CAPITAL LETTER Y + COMBINING BREVE</td>
</tr>
<tr>
<td>Ŷ</td>
<td>&amp;ybreve; = y + &amp;combbreve;</td>
<td>E776 = 0079 + 0306</td>
<td>F141</td>
<td>LATIN SMALL LETTER Y WITH BREVE = LATIN SMALL LETTER Y + COMBINING BREVE</td>
</tr>
</tbody>
</table>
Subrange 24: Characters with macron and breve

Unicode 4.0 has no precomposed characters with both macron and breve. The list below contains expected character combinations.

Note that seven of the characters in the list below have duplicate code points in the present version of Junicode (0.6.3): E410, E43D, E4B7, E537, E61B, E70B and E775. The combining macron, 0304, and the combining breve, 0306, are located in *Combining Diacritical Marks* (p. 32–33).

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>(Junicode)</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
</table>
| Æ     | &Amacrbreve; = a + &combmacr; + &combbreve; | E010  
= 0041 + 0304 + 0306 | F171 | LATIN CAPITAL LETTER A WITH MACRON AND BREVE  
= LATIN CAPITAL LETTER A + COMBINING MACRON + COMBINING BREVE |
| æ     | &amacrbreve; = a + &combmacr; + &combbreve; | E410  
= 0061 + 0304 + 0306 | F171 | LATIN SMALL LETTER A WITH MACRON AND BREVE  
= LATIN SMALL LETTER A + COMBINING MACRON + COMBINING BREVE |
| Æ     | &AEligmacrbreve; = &AElig; + &combmacr; + &combbreve; | E03D  
= 00C6 + 0304 + 0306 | F171 | LATIN CAPITAL LIGATURE AE WITH MACRON AND BREVE  
= LATIN CAPITAL LIGATURE AE + COMBINING MACRON + COMBINING BREVE |
| æ     | &aeligmacrbreve; = &aelig; + &combmacr; + &combbreve; | E43D  
= 00E6 + 0304 + 0306 | F173 | LATIN SMALL LIGATURE AE WITH MACRON AND BREVE  
= LATIN SMALL LIGATURE AE + COMBINING MACRON + COMBINING BREVE |
| Ň     | &Emacrbreve; = E + &combmacr; + &combbreve; | E0B7  
= 0035 + 0304 + 0306 | | LATIN CAPITAL LETTER E WITH MACRON AND BREVE  
= LATIN CAPITAL LETTER E + COMBINING MACRON + COMBINING BREVE |
<table>
<thead>
<tr>
<th>Character</th>
<th>Character Code</th>
<th>Unicode Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>e</td>
<td>&amp;emacr</td>
<td>E4B7 = 0065 + 0304 + 0306</td>
<td>LATIN SMALL LETTER E WITH MACRON AND BREVE = LATIN SMALL LETTER E + COMBINING MACRON + COMBINING BREVE</td>
</tr>
<tr>
<td>ĩ</td>
<td>&amp;imacr</td>
<td>E137 = 0049 + 0304 + 0306</td>
<td>LATIN CAPITAL LETTER I WITH MACRON AND BREVE = LATIN CAPITAL LETTER I + COMBINING MACRON + COMBINING BREVE</td>
</tr>
<tr>
<td>i</td>
<td>&amp;imacr</td>
<td>E537 = 0069 + 0304 + 0306</td>
<td>LATIN SMALL LETTER I WITH MACRON AND BREVE = LATIN SMALL LETTER I + COMBINING MACRON + COMBINING BREVE</td>
</tr>
<tr>
<td>Ő</td>
<td>&amp;Omacr</td>
<td>E21B = 004F + 0304 + 0306</td>
<td>LATIN CAPITAL LETTER O WITH MACRON AND BREVE = LATIN CAPITAL LETTER O + COMBINING MACRON + COMBINING BREVE</td>
</tr>
<tr>
<td>ů</td>
<td>&amp;omacr</td>
<td>E61B = 0075 + 0304 + 0306</td>
<td>LATIN SMALL LETTER O WITH MACRON AND BREVE = LATIN SMALL LETTER O + COMBINING MACRON + COMBINING BREVE</td>
</tr>
<tr>
<td>Ū</td>
<td>&amp;Umacr</td>
<td>E30B = 0055 + 0304 + 0306</td>
<td>LATIN CAPITAL LETTER U WITH MACRON AND BREVE = LATIN CAPITAL LETTER U + COMBINING MACRON + COMBINING BREVE</td>
</tr>
<tr>
<td>ŭ</td>
<td>&amp;umacr</td>
<td>E70B = 0075 + 0304 + 0306</td>
<td>LATIN SMALL LETTER U WITH MACRON AND BREVE = LATIN SMALL LETTER U + COMBINING MACRON + COMBINING BREVE</td>
</tr>
<tr>
<td>Ŷ</td>
<td>&amp;Ymacr</td>
<td>E375 = 0054 + 0304 + 0306</td>
<td>LATIN CAPITAL LETTER Y WITH MACRON AND BREVE = LATIN CAPITAL LETTER Y + COMBINING MACRON + COMBINING BREVE</td>
</tr>
</tbody>
</table>
Subrange 25: Characters with macron and acute

Unicode 4.0 has macron and acute over the vowels ‘E’, ‘e’, ‘O’ and ‘o’ in Latin Extended Additional (p. 38 above). The list below contains additional character combinations.

Note that five characters in the list below have duplicate code points in the present version of Junicode (0.6.3): E40A, E43A, E535, E709 and E773. In addition, Junicode has code points for ‘e’ with macron and acute, F185, and ‘o’ with macron and acute, F189. Since the latter two characters are in Latin Extended Additional, at code points 1E16 and 1E52 respectively, they might be considered for deprecation (cf. pp. 38 and 40 above).

The combining macron, 0304, and the combining acute accent, 0301, are located in Combining Diacritical Marks (p. 32).

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>(Junicode)</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Á</td>
<td>&amp;Amacracute; = a + &amp;combmacr; + &amp;combacute;</td>
<td>E00A = 0041 + 0304 + 0301</td>
<td>Unicode</td>
<td>LATIN CAPITAL LETTER A WITH MACRON AND ACUTE = LATIN CAPITAL LETTER A + COMBINING MACRON + COMBINING ACUTE</td>
</tr>
<tr>
<td>å</td>
<td>&amp;amacracute; = a + &amp;combmacr; + &amp;combacute;</td>
<td>E40A = 0061 + 0304 + 0301</td>
<td>F181</td>
<td>LATIN SMALL LETTER A WITH MACRON AND ACUTE = LATIN SMALL LETTER A + COMBINING MACRON + COMBINING ACUTE</td>
</tr>
<tr>
<td>Æ</td>
<td>&amp;AEligmacracute; = Æ + &amp;combmacr; + &amp;combacute;</td>
<td>E03A = 00C6 + 0304 + 0301</td>
<td></td>
<td>LATIN CAPITAL LIGATURE AE WITH MACRON AND ACUTE = LATIN CAPITAL LIGATURE AE + COMBINING MACRON + COMBINING ACUTE</td>
</tr>
</tbody>
</table>
### MUFI character recommendation

<table>
<thead>
<tr>
<th>Character</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Æ</td>
<td>&amp;aeligmacute; = æ + &amp;combmacr; + &amp;combacute;</td>
<td>E43A [00E6 + 0304 + 0301] F183 LATIN SMALL LIGATURE AE WITH MACRON AND ACUTE = LATIN SMALL LIGATURE AE + COMBINING MACRON + COMBINING ACUTE</td>
</tr>
<tr>
<td>Í</td>
<td>&amp;imacracute; = I + &amp;combmacr; + &amp;combacute;</td>
<td>E135 [0049 + 0304 + 0301] LATIN CAPITAL LETTER I WITH MACRON AND ACUTE = LATIN CAPITAL LETTER I + COMBINING MACRON + COMBINING ACUTE</td>
</tr>
<tr>
<td>ï</td>
<td>&amp;imacracute; = i + &amp;combmacr; + &amp;combacute;</td>
<td>E535 [0069 + 0304 + 0301] LATIN SMALL LETTER I WITH MACRON AND ACUTE = LATIN SMALL LETTER I + COMBINING MACRON + COMBINING ACUTE</td>
</tr>
<tr>
<td>Ù</td>
<td>&amp;Umacracute; = U + &amp;combmacr; + &amp;combacute;</td>
<td>E309 [0055 + 0304 + 0301] LATIN CAPITAL LETTER U WITH MACRON AND ACUTE = LATIN CAPITAL LETTER U + COMBINING MACRON + COMBINING ACUTE</td>
</tr>
<tr>
<td>û</td>
<td>&amp;umacracute; = u + &amp;combmacr; + &amp;combacute;</td>
<td>E709 [0075 + 0304 + 0301] LATIN SMALL LETTER U WITH MACRON AND ACUTE = LATIN SMALL LETTER U + COMBINING MACRON + COMBINING ACUTE</td>
</tr>
<tr>
<td>Ý</td>
<td>&amp;Ymacracute; = Y + &amp;combmacr; + &amp;combacute;</td>
<td>E373 [0054 + 0304 + 0301] LATIN CAPITAL LETTER Y WITH MACRON AND ACUTE = LATIN CAPITAL LETTER Y + COMBINING MACRON + COMBINING ACUTE</td>
</tr>
<tr>
<td>ý</td>
<td>&amp;ymacracute; = y + &amp;combmacr; + &amp;combacute;</td>
<td>E773 [0079 + 0304 + 0301] LATIN SMALL LETTER Y WITH MACRON AND ACUTE = LATIN SMALL LETTER Y + COMBINING MACRON + COMBINING ACUTE</td>
</tr>
</tbody>
</table>

### Subranges 26–29:

Reserved for future additions.
Category 3: Variant letter forms

In general, variant letter forms are not characters in the Unicode sense of the word. However, the distinction between characters and variant letter forms is not always clear, and some of the letter forms in the list may eventually prove to be recognised as characters according to the strict Unicode criteria.

This category will be divided according to national or regional criteria. Note that many characters are relevant for more than one range, due to the dissemination of styles across Medieval Europe.

Subrange 30: Nordic

This subrange contains commonly recognised variant letter forms in Medieval Nordic primary sources. Note that the majority of these characters are inherited from Insular and Continental styles, and will thus be relevant for many other European literatures.

To minimise conflicts with Junicode, code points in this font have been used wherever possible. Additional letter forms have been placed in a new section of the PUA commencing with F200.

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>(Junicode)</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>α</td>
<td>&amp;ains;</td>
<td>F200</td>
<td></td>
<td>LATIN SMALL LETTER INSULAR A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>This is the single-storey ‘a’ of the Insular style, similar in shape to modern italic ‘a’.</td>
</tr>
<tr>
<td>á</td>
<td>&amp;ainsenl;</td>
<td>F201</td>
<td></td>
<td>LATIN ENLARGED SMALL LETTER INSULAR A</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>This is the enlarged variant of ‘a’, triangular in shape. Cf. D.A. Seip, <em>Paleografi: Norge og Island</em> (Nordisk kultur 23:B), Oslo etc. 1954, p. 27.</td>
</tr>
<tr>
<td>α</td>
<td>&amp;aopen;</td>
<td>F202</td>
<td></td>
<td>LATIN SMALL LETTER A OPEN FORM</td>
</tr>
</tbody>
</table>
This is the traditional ‘open a’ from early Carolingian script, similar in shape to ‘cc’ and easily mistaken for ‘u’.

<table>
<thead>
<tr>
<th>Character</th>
<th>Unicode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>&amp;aclose;</td>
<td>F203 LATIN SMALL LETTER A CLOSED FORM</td>
</tr>
<tr>
<td>Æ</td>
<td>&amp;aelig;</td>
<td>F204 LATIN SMALL LIGATURE AE WITH MISSING BOTTOM STROKE</td>
</tr>
<tr>
<td>Æ</td>
<td>&amp;aelig;</td>
<td>F205 LATIN CAPITAL LIGATURE AO NECKLESS</td>
</tr>
<tr>
<td>Æ</td>
<td>&amp;aolig;</td>
<td>F206 LATIN SMALL LIGATURE AO NECKLESS</td>
</tr>
</tbody>
</table>

These two letter forms should be analysed and designed as the ligature of ‘a+o’ without the neck of the ‘a’.

<table>
<thead>
<tr>
<th>Character</th>
<th>Unicode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ð</td>
<td>&amp;dunc;</td>
<td>F109 F109 LATIN LETTER UNCIAL D</td>
</tr>
<tr>
<td>E</td>
<td>&amp;eunc;</td>
<td>F10A F10A LATIN LETTER UNCIAL E</td>
</tr>
<tr>
<td>F</td>
<td>&amp;Fins;</td>
<td>F10C LATIN CAPITAL LETTER INSULAR F</td>
</tr>
</tbody>
</table>

The capital Insular ‘f’ has not been included in the present version of Junicode (0.6.3), but since the small variant is located at F10D, the code point F10C has been selected here.
The dotless ‘j’ has been accepted by the UTC and WG2 and is likely to be included in a future version of the Unicode Standard at code point 0237 in *Latin Extended-B*. Since this character already is in Titus Cyberbit at E55C, this code point has been chosen rather than F6BE in Unicode.

The ‘o+o’ ligature was introduced by the Icelander Jón Ólafsson from Grunnávik in the 18th century. Cf. Jón Helgason, *Jon Olafsson fra Grunnavik*, Copenhagen 1926.

These two letter forms should be analysed and designed as the ligature of ‘o+e’ without the bottom (finishing) stroke of the ‘e’.

<table>
<thead>
<tr>
<th>Character</th>
<th>Code Points</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&amp;finsclose;</td>
<td>F207</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LATIN SMALL LETTER INSULAR F CLOSED FORM</td>
</tr>
<tr>
<td></td>
<td>&amp;hins;</td>
<td>F110</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F110</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LATIN CAPITAL LETTER INSULAR H</td>
</tr>
<tr>
<td></td>
<td>&amp;jdl;</td>
<td>E55C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F6BE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LATIN SMALL LETTER J DOTLESS</td>
</tr>
<tr>
<td></td>
<td>&amp;kunc;</td>
<td>F208</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LATIN LETTER UNCIAL K</td>
</tr>
<tr>
<td></td>
<td>&amp;kclose;</td>
<td>F209</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LATIN SMALL LETTER K CLOSED FORM</td>
</tr>
<tr>
<td></td>
<td>&amp;munc;</td>
<td>F11A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F11A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LATIN LETTER UNCIAL M</td>
</tr>
<tr>
<td></td>
<td>&amp;Olig;</td>
<td>F20A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LATIN CAPITAL LIGATURE OO</td>
</tr>
<tr>
<td></td>
<td>&amp;oolig;</td>
<td>F20B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LATIN SMALL LIGATURE OO</td>
</tr>
<tr>
<td></td>
<td>&amp;OEligred;</td>
<td>F20C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LATIN CAPITAL LIGATURE OE WITH MISSING BOTTOM STROKE</td>
</tr>
<tr>
<td></td>
<td>&amp;oeligred;</td>
<td>F20D</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LATIN SMALL LIGATURE OE WITH MISSING BOTTOM STROKE</td>
</tr>
</tbody>
</table>
This character extends below the base line, while the ordinary long ‘s’ is located on the base line.

The capital and small Insular ‘v’ are partially similar to 01F7 LATIN CAPITAL LETTER WYNN and 01BF LATIN LETTER WYNN in Latin Extended-B. Note that the Medieval Nordic variants are open, resembling the character ‘y’, and are transliterated with ‘v’, not with ‘w’ like in Old English.

The ‘y+y’ ligature was introduced by the Icelander Jón Ólafsson from Grunnavík in the 18th century. Cf. Jón Helgason, *Jon Olafsson fra Grunnavik*, Copenhagen 1926.

**Additional characters:** From F214 and upwards; extent to be decided in the next version of the recommendation.
## Subrange 31: English

Several of the specific characters used in Old English primary sources have been listed in subrange 30 above. Additional characters are listed in the present subrange, using Junicode code points wherever possible.

<table>
<thead>
<tr>
<th>Glyph</th>
<th>MUFI entity</th>
<th>MUFI code point</th>
<th>(Junicode)</th>
<th>MUFI descriptive name</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>&amp;Asqu;</td>
<td>F13A</td>
<td>F13A</td>
<td>LATIN CAPITAL LETTER A SQUARE FORM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>&amp;Csqu:</td>
<td>F106</td>
<td>F106</td>
<td>LATIN CAPITAL LETTER C SQUARE FORM</td>
</tr>
<tr>
<td>G</td>
<td>&amp;Gsqu;</td>
<td>F10E</td>
<td>F10E</td>
<td>LATIN CAPITAL LETTER G SQUARE FORM</td>
</tr>
<tr>
<td>S</td>
<td>&amp;Gins;</td>
<td>F10F</td>
<td></td>
<td>LATIN CAPITAL LETTER INSULAR G</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This particular variant is found in some manuscripts, particularly CCCC 173, the Parker Chronicle.

| G     | &gins;      | F10F            | F10F      | LATIN SMALL LETTER INSULAR G |
|       |             |                 |           |                       |

The capital Insular ‘g’ has not been included in the present version of Junicode (0.6.3), but since the small variant is located at F10F, the vacant code point F10B has been selected here.

| S     | &Sclose;    | F126            |           | LATIN CAPITAL LETTER S CLOSED FORM |
|       |             |                 |           |                       |

The Insular ‘g’ has been accepted by WG2 (not yet by UTC) and may be included in a future version of the Unicode Standard at code point 1D79 in Phonetic Extensions. Note that the proposal has been based on the usage of this character in phonetic notation of Irish.

This character is not part of the MUFI recommendation, but has been included with its Junicode code point for the sake of reference. It is possibly a design by the type cutter of the font Junius, on which Junicode is based.
**MUFI character recommendation**

<table>
<thead>
<tr>
<th>Character</th>
<th>Codepoint</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>\textbackslash\textbackslash</td>
<td>F14F</td>
<td>\textsc{latin small letter long s with diagonal stroke}</td>
</tr>
<tr>
<td>\textthorn\textbackslash</td>
<td>F149</td>
<td>\textsc{latin small letter thorn with diagonal stroke}</td>
</tr>
</tbody>
</table>

A similar character, though with a horizontal bar in a higher position, is assigned to E7FF in PUA subrange 5, p. 59 above.

<table>
<thead>
<tr>
<th>Character</th>
<th>Codepoint</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>\textbackslash\textbackslash</td>
<td>F14F</td>
<td>\textsc{latin small letter long s with diagonal stroke}</td>
</tr>
<tr>
<td>\textthorn\textbackslash</td>
<td>F149</td>
<td>\textsc{latin small letter thorn with diagonal stroke}</td>
</tr>
</tbody>
</table>

A similar character, though with a horizontal bar, is assigned to E73B in PUA subrange 5, p. 59 above.

**Additional characters:** These can be placed in vacant slots in the section F100–F13B, where almost 50 unallocated slots are available. Junicode has English letter forms in this section.

**Subranges 32–**

For future additions.
Appendix: How many characters?

The short answer to this question is that the present recommendation contains 828 characters. However, there are many types of characters in this recommendation, so it may be useful to make a breakdown of characters into a number of categories:

1. Alphabetic, base characters
This category contains the basic letter forms, e.g. ‘a’, ‘b’ and ‘c’. Case variants are also included, such as small (minuscule), ‘a’, enlarged minuscule, ‘Ā’, capital, ‘A’, and small capital, ‘Å’. The same applies to ligatures, e.g. ‘æ’ and ‘œ’.

2. Alphabetic, precomposed characters
This category contains base characters with one or more loose diacritics, such as ‘á’, ‘ä’, and ‘â’. Characters with fixed diacritics, such as the cedilla or the ogonek, are counted as base characters, and the same applies to characters with a bar or a slash across an ascender or a descender.

3. Symbols
This category contains all kinds of symbols, including digits, but excludes punctuation marks.

4. Combining marks
This category contains accents, abbreviation signs and alphabetic characters that appear above or below another base character.

5. Punctuation marks
This category contains the basic punctuation marks, e.g. the comma and the colon, and various kinds of quotation marks. Note that it is sometimes difficult to draw the line between symbols and punctuation marks.

6. Formatting and space characters
This category includes characters for which there are no glyphs, either because they specify formatting of the text or because they encode space (of variable width) between visible characters.
## MUFI character recommendation

<table>
<thead>
<tr>
<th>Range</th>
<th>Alphabetic characters</th>
<th>Symbols</th>
<th>Comb.</th>
<th>Punct.</th>
<th>Format &amp; space</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>base</td>
<td>precomp.</td>
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<tr>
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<td>51</td>
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<td>Comb.</td>
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<td>Format &amp; space</td>
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</tbody>
</table>

A: Base characters

1: Ligatures

2: Small capitals

3: Enlarged minuscules

4: Base line abbreviation characters

5: Modified base line abbreviation characters

6: Combining marks

7: Combining superscript characters

8: Punctuation marks

9: Critical and epigraphical signs

10: Metrical symbols
<table>
<thead>
<tr>
<th>Range</th>
<th>Alphabetic characters</th>
<th>Symbols</th>
<th>Comb.</th>
<th>Punct.</th>
<th>Format &amp; space</th>
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<tbody>
<tr>
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<td>26–29: Reserved for future additions</td>
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<td>Range</td>
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</tr>
<tr>
<td></td>
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<td>C: Variant letter forms</td>
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<tr>
<td>30: Nordic</td>
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<td>Characters in the Private Use Area</td>
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</tbody>
</table>

Grand total: Characters selected from the Unicode Standard v. 4.0 + characters in the Private Use Area: 828