

The Experimental Unicode ‘EUx’ Encodings

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Abstract

This file documents some experimental Unicode font encodings, used for Xe_ΛTeX and LuaTeX. Includes Latin Modern font definitions for version 1.6 and later of those fonts.

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1 Introduction

L^AT_EX’s font encoding system provides a method for ensuring that characters in a document can be rendered properly by glyphs in the output. It is also a sensible system for typesetting multilingual documents while remaining within T_EX’s restrictions of 8-bit fonts.

When Xe_ΛTeX came along, no work had been done on using this infrastructure for Unicode fonts. For one thing, the notion of a well-defined font encoding — which neatly pigeonholes a font into a category of containing a specific set of glyphs — doesn’t work so well when designers have an essentially unrestricted selection of glyphs they may add to their fonts.

Both technical advantages of L^AT_EX’s font encodings — error checking, and multilingual typesetting — were no longer relevant with Xe_ΛTeX, due to impracticality for the former and redundancy in the latter; Xe_ΛTeX’s support of OpenType

fonts obviates the need for font switching (for glyph coverage only) by necessity when changing languages, although multiple fonts will often be used for stylistic purposes.

Nonetheless, font encodings are tied inextricably into L^AT_EX's font selection mechanisms. For the first couple of years of X_YL^AT_EX's life, defined font families were placed in the U encoding; appropriate, given the Unicode initial, but *inappropriate* within the framework of L^AT_EX itself. The U encoding stands for 'undefined', to be used for fonts that contain glyphs that are essentially arbitrary; for example, a Dingbats font.

Since X_YL^AT_EX documents didn't interact with the 'regular' world so much, this overloading of the encoding didn't really matter in the long run. But eventually, it became apparent that it would be appropriate to use font encodings to represent Unicode subsets and/or different methods of font loading. With the advent of Lua_T_EX, this latter use has justified the approach originally taken here.

This package now also includes most of the xunicode package when unicode fonts are used under Lua_T_EX. (For X_YL^AT_EX, xunicode should still be loaded explicitly unless you are using the xltextra package.) The justification here is that the xunicode package essentially defines and configures a unicode font encoding for L^AT_EX, which is therefore appropriate to have as part of the standard encoding definitions for unicode.

2 The EU1 encoding

The EU1 encoding represents the first attempt of providing a standard L^AT_EX encoding for Unicode fonts. At present, it loads and defines nothing in terms of declaring text glyphs and accents. That rôle is played for now by Ross Moore's xunicode package; in the future I hope some of that package will migrate here. (And indeed, some of it has; see the EU2 encoding below.)

Because we can assume that all current T_EX distributions will contain the Latin Modern OpenType fonts (fonts/opentype/public/lm), these are selected as the default fonts. More details on this later.

I am now defining the convention that EU1 encoded fonts have no necessary subsets of Unicode. Perhaps in the future this will be restricted to fonts that support Unicode accent characters.

Furthermore, no restrictions are made on the method used to load the font. X_YL^AT_EX allows fonts of two types: system installed fonts (also accessible via regular applications or programs); and 'local' fonts, which are specified by filename to be found either in a texmf tree of the local directory.

```
1 \DeclareFontEncoding{EU1}{ }{ }
2 \DeclareErrorFont{EU1}{lrm}{m}{n}{10}
3 \DeclareFontSubstitution{EU1}{lrm}{m}{n}
```

The : character needs to be sanitised in case babel makes it active:

```
4 \g@addto@macro\nfss@catcodes{\@makeother:}
```

3 The EU2 encoding

The EU2 encoding is to be used with LuaTeX, it is essentially the same as EU1, the actual difference is in the font definition files.

```
5 \DeclareFontEncoding{EU2}{\}{\}  
6 \DeclareErrorFont{EU2}{\lmr}{m}{n}{10}  
7 \DeclareFontSubstitution{EU2}{\lmr}{m}{n}
```

The : character needs to be sanitised in case babel makes it active:

```
8 \g@addto@macro\nfss@catcodes{\@makeother:}
```

We also load euxunicode,¹ our subset of Ross Moore's xunicode package, which provides control sequences for accessing a wide range of unicode symbols and (especially) accents.

```
9 \providecommand{\UTFencname}{EU2}  
10 \input euxunicode.sty
```

4 The Latin Modern OpenType fonts

Version 0.1g of euenc supports version 1.6 of the LM fonts, released in October 2009.

4.1 Conversion scripts

The .fd files are converted from the T1 encoding with the following shell script. Only the package maintainers need to be able to run this script and those following.

4.1.1 Encoding conversion shell script

```
11 sed -f sed-eu1lm.sed 'kpsewhich t1lmr.fd' eu1lmr.fd  
12 sed -f sed-eu1lm.sed 'kpsewhich t1lmdh.fd' eu1lmdh.fd  
13 sed -f sed-eu1lm.sed 'kpsewhich t1lmss.fd' eu1lmss.fd  
14 sed -f sed-eu1lm.sed 'kpsewhich t1lmssq.fd' eu1lmssq.fd  
15 sed -f sed-eu1lm.sed 'kpsewhich t1lmvtt.fd' eu1lmvtt.fd  
16  
17 sed -f sed-eu2lm.sed 'kpsewhich t1lmr.fd' eu2lmr.fd  
18 sed -f sed-eu2lm.sed 'kpsewhich t1lmdh.fd' eu2lmdh.fd  
19 sed -f sed-eu2lm.sed 'kpsewhich t1lmss.fd' eu2lmss.fd  
20 sed -f sed-eu2lm.sed 'kpsewhich t1lmssq.fd' eu2lmssq.fd  
21 sed -f sed-eu2lm.sed 'kpsewhich t1lmvtt.fd' eu2lmvtt.fd  
22  
23 sed -f sed-eu1lm.sed -e \  
24 's/:mapping=tex-text//g' 'kpsewhich t1lmtt.fd' eu1lmtt.fd
```

¹For backwards compatibility reasons, we do not do the same under the EU1 encoding.

```

25 sed -f sed-eu2lm.sed -e \
26     's/;.trep;.tlig;//g' 'kpsewhich t1lmtt.fd' eu2lmtt.fd

```

4.1.2 Encoding conversion sed scripts

The shell script above requires the following sed scripts.

Sed scripts

```

27 /^%.* /d
28 <eu1sedlm>s/{T1}/{EU1}/g
29 <eu1sedlm>s/t1lm/eu1lm/g
30 <eu2sedlm>s/{T1}/{EU2}/g
31 <eu2sedlm>s/t1lm/eu2lm/g
32
33 s/ec-lmri\([0-9]*\)/lmroman\1-italic/g
34 s/ec-lmro\([0-9]*\)/lmromanslant\1-regular/g
35 s/ec-lmr\([0-9]*\)/lmroman\1-regular/g
36 s/ec-lmcsc\([0-9]*\)/lmromancaps\1-oblique/g
37 s/ec-lmcsc\([0-9]*\)/lmromancaps\1-regular/g
38
39 s/ec-lmbxo\([0-9]*\)/lmromanslant\1-bold/g
40 s/ec-lmbxi\([0-9]*\)/lmroman\1-bolditalic/g
41 s/ec-lmbx\([0-9]*\)/lmroman\1-bold/g
42 s/ec-lmbo\([0-9]*\)/lmromandemi\1-oblique/g
43 s/ec-lmb\([0-9]*\)/lmromandemi\1-regular/g
44
45 s/ec-lmdunh\([0-9]*\)/lmromandunh\1-regular/g
46 s/ec-lmduno\([0-9]*\)/lmromandunh\1-oblique/g
47
48 s/ec-lmss\([0-9]\{1,\}\)/lmsans\1-regular/g
49 s/ec-lmss\([0-9]\{1,\}\)/lmsans\1-oblique/g
50
51 s/ec-lmssdc\([0-9]\{1,\}\)/lmsansdemicond\1-regular/g
52 s/ec-lmssdo\([0-9]\{1,\}\)/lmsansdemicond\1-oblique/g
53
54 s/ec-lmssbx\([0-9]\{1,\}\)/lmsans\1-bold/g
55 s/ec-lmssbo\([0-9]\{1,\}\)/lmsans\1-boldoblique/g
56
57 s/ec-lmssq\([0-9]\{1,\}\)/lmsansquot\1-regular/g
58 s/ec-lmssqo\([0-9]\{1,\}\)/lmsansquot\1-oblique/g
59 s/ec-lmssqbx\([0-9]\{1,\}\)/lmsansquot\1-bold/g
60 s/ec-lmssqbo\([0-9]\{1,\}\)/lmsansquot\1-boldoblique/g
61
62 s/ec-lmtt\([0-9]\{1,\}\)/lmmono\1-regular/g
63 s/ec-lmtto\([0-9]\{1,\}\)/lmmonoslant\1-regular/g
64 s/ec-lmtti\([0-9]\{1,\}\)/lmmono\1-italic/g
65
66 s/ec-lmtcsc\([0-9]\{1,\}\)/lmmonocaps\1-regular/g

```

```

67 s/ec-lmtcso\([0-9]\{1,\}\)/lmmonocaps\1-oblique/g
68
69 s/ec-lmtl\([0-9]\{1,\}\)/lmmonolt\1-regular/g
70 s/ec-lmtlo\([0-9]\{1,\}\)/lmmonolt\1-oblique/g
71 s/ec-lmtk\([0-9]\{1,\}\)/lmmonolt\1-bold/g
72 s/ec-lmtko\([0-9]\{1,\}\)/lmmonolt\1-boldoblique/g
73
74 s/ec-lmtlc\([0-9]\{1,\}\)/lmmonoltcond\1-regular/g
75 s/ec-lmtlco\([0-9]\{1,\}\)/lmmonoltcond\1-oblique/g
76
77 s/ec-lmvt\([0-9]\{1,\}\)/lmmonoprop\1-regular/g
78 s/ec-lmvto\([0-9]\{1,\}\)/lmmonoprop\1-oblique/g
79
80 s/ec-lmvtl\([0-9]\{1,\}\)/lmmonoproplt\1-regular/g
81 s/ec-lmvtlo\([0-9]\{1,\}\)/lmmonoproplt\1-oblique/g
82 s/ec-lmvtk\([0-9]\{1,\}\)/lmmonoproplt\1-bold/g
83 s/ec-lmvtko\([0-9]\{1,\}\)/lmmonoproplt\1-boldoblique/g
84
85 <eu1sedlm>s/\([ ]*\)\(lm[a-z0-9-]\{1,\}\)/\1"[2]:mapping=tex-text"/g
86 <eu2sedlm>s/\([ ]*\)\(lm[a-z0-9-]\{1,\}\)/\1file:\2:script=latn;+trep;+tlig;/g

```

5 euxunicode.sty file

This file is derived heavily from Ross Moore’s xunicode package. Most, if not all, of the code comments are his. We have removed the \TeX -specific components and removed some of the more esoteric control sequences from its repertoire.

For backwards compatibility, we load it only under \LaTeX . (I.e., with the EU2 encoding.)

5.1 First checks

Because euxunicode is part of a font encoding, it may be theoretically loaded at any time, not just in the document preamble. (Of course, this is unlikely because fontspec will usually be setting up the font encoding anyway.)

For this reason we do not load it as a regular package but use `\input` and `\endinput` to ensure it is only loaded once.

```

87 \csname ifeuxunicodeloaded\endcsname
88 \let\ifeuxunicodeloaded\endinput

```

Now check for \TeX or \LaTeX use: (again, just as unlikely this will fail)

```

89 \def\notUnicodeEngine{%
90   \@latex@error{*** this package currently works only with XeTeX or LuaTeX ***}{}
91   You are not using XeTeX or LuaTeX, so we are exiting cleanly!^^J
92   Continuing may lead to 'unavailable font metrics' errors!^^J}\@ehc
93 \endgroup\endinput}

```

```

94 \expandafter\ifx\csname XeTeXrevision\endcsname\relax
95   \expandafter\ifx\csname directlua\endcsname\relax
96     \notUnicodeEngine
97   \else
98     \def\@Engine{LuaTeX}
99   \fi
100 \else
101   \def\@Engine{XeTeX}
102 \fi

```

The single biggest mistake made by novice XeTeX users is to declare wrong encodings, using the (lua)inputenc package. While not fatal, this can cause bad output, which they then incorrectly attribute to XeTeX or LuaTeX. So here is a test for this error, which posts warning messages.

We also deprecate xunicode, but there is no way by default that that code path will ever run (this package is only loaded under LuaTeX for now, and xunicode can only be loaded under XeTeX).

```

103 \def\@TestForWongPackage{%
104   \ifpackageloaded{inputenc}{\@dontuse@inputenc}{}%
105   \ifpackageloaded{luainputenc}{\@dontuse@inputenc}{}%
106   \ifpackageloaded{xunicode}{\@dontuse@xunicode}{}%
107 }
108 \def\@dontuse@inputenc{%
109   \typeout{*** You should not be loading inputenc nor luainputenc}%
110   \typeout{*** with the \UTFencname\space encoding. Your engine}%
111   \typeout{*** expects the source to be in UTF-8 encoding.}%
112   \typeout{*** Some features of other encodings may conflict,
113   resulting in poor output.}%
114 }
115 \def\@dontuse@xunicode{%
116   \typeout{*** xunicode is deprecated, please use only the fontspec package,}%
117   \typeout{*** it will automatically load the relevant packages.}%
118 }
119 \def\@cleanupaftertest{%
120   \let\@TestForWongPackage\relax
121   \let\@dontuse@inputenc\relax
122   \let\@dontuse@xunicode\relax
123 }
124 \@TestForWongPackage
125 \AtBeginDocument{\@TestForWongPackage}
126 \AtBeginDocument{\@cleanupaftertest}

```

5.2 Macro definitions

`\DeclareUTFcharacter` Use `\DeclareUTFcharacter` to assign a cs-name to access a Unicode code-point.

```

127 \newcommand{\DeclareUTFcharacter}[3][\UTFencname]{%
128   \let\add@flag\@ne % == add support in this encoding

```

```

129 \check@hexcom@digits #2@@@!@{#1}{#2}{#3}%
130 }

```

`\UndeclareUTFcharacter` Use `\UndeclareUTFcharacter` to cancel a declaration when the appropriate code-point is not supported in the desired text-font.

```

131 \newcommand{\UndeclareUTFcharacter}[3][\UTFencname]{%
132 \let\add@flag\z@ % == remove support in this encoding
133 \check@hexcom@digits #2@@@!@{#1}{#2}{#3}%
134 }

135 \def\check@hexcom@digits#1#2@!@#3#4#5{%
136 \ifx x#1\relax
137 \check@hexcom@digits@#2@!@{#3}{#4}{#5}%
138 \else
139 \UTFacc@warning@{code #4 for #3-\string#5 fails to start with 'x'}%
140 \fi
141 }

```

`\DeclareUTFcomposite` Use `\DeclareUTFcomposite` to assign a cs-name to access accents or composite characters via Unicode code-points, or the Unicode "Composing Character" mechanism.

```

142 \newcommand{\DeclareUTFcomposite}[4][\UTFencname]{%
143 \let\add@flag\@ne % == add support in this encoding
144 \check@hex@digits #2@@@!@{#1}{#2}{#3}{#4}%
145 }}

146 \newcommand{\DeclareUTFmulticomposite}[4][\UTFencname]{%
147 \let\add@flag\@ne % == add support in this encoding
148 \check@hex@digits #2@@@!@{#1}{#2}{#3}{#4}%
149 }}

```

`\UndeclareUTFcomposite` Use `\UndeclareUTFcomposite` to cancel a declaration when the appropriate code-point is not supported in the desired text-font.

```

150 \newcommand{\UndeclareUTFcomposite}[4][\UTFencname]{%
151 \let\add@flag\z@ % == remove support in this encoding
152 \check@hex@digits #2@@@!@{#1}{#2}{#3}{#4}%
153 }}

154 \def\check@hex@digits#1#2@!@#3#4#5#6{%
155 \ifx x#1\relax
156 \check@hex@digits@#2@!@{#3}{#4}{#5}{#6}%
157 \else
158 \UTFacc@warning@{code #4 for #3-\string#5#6 fails to start with 'x'}%
159 \fi
160 }
161 \def\UTF@ignore#1{\iffalse}
162 \def\UTF@doit#1{\iftrue}

```

These next macros need to have " with correct catcode.

```

163 {\catcode'\ "=12
164 %
165 \gdef\check@hexcom@digits@#1#2#3#4#5@!@#6#7#8{%
166 \ifx @#4\relax
167 \UTFacc@warning@{insufficient hex digits #7 for #6-\string#8}%
168 \else
169 \ifcat \active\noexpand#8%
170 \ifx\add@flag\@ne %
171 \expandafter\def\csname\UTFencname\string#8\endcsname{\char"#1#2#3#4\relax}%
172 \ifx\unDeFiNed@#8%
173 \ifx\cf@encoding\UTFencname
174 \DeclareTextCommand{#8}{OT1}{\undefined}%
175 \else
176 \DeclareTextCommand{#8}{\cf@encoding}{\undefined}%
177 \fi
178 \else {% macro #8 exists already ...
179 \let\protect\noexpand
180 \edef\UTF@testi{#8}\def\UTF@testii{#8}%
181 \ifx\UTF@testi\UTF@testii\aftergroup\UTF@ignore
182 \else\aftergroup\UTF@doit\fi
183 }%
184 \iffalse
185 % ... but when it isn't robust, make it so
186 \expandafter\let\csname?-\string#8\endcsname#8\relax
187 \edef\next@UTF@{\cf@encoding}%
188 {\expandafter\noexpand\csname?-\string#8\endcsname}}%
189 \expandafter\DeclareTextCommand\expandafter
190 {\expandafter#8\expandafter}\next@UTF@
191 \fi
192 \fi %
193 \else % \add@flag \z@
194 \expandafter\global\expandafter
195 \let\csname\UTFencname\string#8\endcsname\relax
196 \fi % end of \add@flag switch
197 \else % not active catcode --- shouldn't happen
198 % \typeout{*** did you really mean #8 ? ***}%
199 \ifx\add@flag\@ne %
200 \edef\tmp@name{\expandafter\string\csname\UTFencname\endcsname
201 \expandafter\string\csname#8\endcsname}%
202 \expandafter\def\csname\tmp@name\endcsname{\char"#1#2#3#4\relax}%
203 \ifx\cf@encoding\UTFencname
204 \expandafter\DeclareTextCommand\expandafter
205 {\csname#8\endcsname}{OT1}{\undefined}%
206 \else
207 \expandafter\DeclareTextCommand\expandafter
208 {\csname#8\endcsname}{\cf@encoding}{\undefined}%

```



```

209 \fi
210 \else % \add@flag \z@
211 \expandafter\global\expandafter\let\csname#8\endcsname\relax
212 \fi % end of \add@flag switch
213 \fi % end of \ifcat
214 \fi}
215 \gdef\check@hex@digits@#1#2#3#4#5@!@#6#7#8#9{%
216 \ifx @#4\relax
217 \UTFacc@warning@{insufficient hex digits #7 for #6-\string#8#9}%
218 \else
219 \def\UTFchar{\char"#1#2#3#4\relax}%
220 \expandafter\expandafter\expandafter\declare@utf@composite
221 \expandafter\expandafter\expandafter
222 {\expandafter\csname#6\endcsname}{\UTFchar}{#8}{#9}\relax
223 \fi}
224 %\gdef\add@UTF@accent#1#2#3{#2\char"#1\relax}
225 \gdef\add@UTF@accent#1#2#3{\ifx\relax#2\relax\char"#3\else
226 \ifx\ #2\relax\char"#3\else
227 \expandafter\ifx\UTF@space#2\relax\char"#3\else
228 \ifx~#2\char"#3\else#2\char"#1\fi\fi\fi\fi\relax}
229 \gdef\add@UTF@accents#1#2#3{#2\char"#1\char"#3\relax}
230 \gdef\add@set@accentCOMP#1#2#3{\add@accent{"#1}{#2}}
231 \gdef\add@set@accentMOD#1#2#3{\add@accent{"#3}{#2}}
232 \gdef\declare@hex@command#1#2{\gdef#2{#1}}%
233 %
234 }% end of \catcode'\ =12
235
236 {\catcode'\ =10\relax%
237 \gdef\UTF@space{ }}%
238 \edef\UTF@space{\UTF@space}
239
240 \def\declare@utf@composite#1#2#3#4{%
241 \expandafter\ifcat\expandafter A\string#4\relax
242 {\ifx\add@flag\@ne %
243 \expandafter\xdef\csname\string#1\string#3-#4\endcsname{#2}%
244 \else
245 \expandafter\global\expandafter
246 \let\csname\string#1\string#3-#4\endcsname\relax
247 \fi}%
248 \else
249 {\ifx\add@flag\@ne %
250 \expandafter\xdef\csname\string#1\string#3-\string#4\endcsname{#2}%
251 \else
252 \expandafter\global\expandafter
253 \let\csname\string#1\string#3-\string#4\endcsname\relax
254 \fi}%
255 \fi

```

256 }

```
\DeclareEncodedCompositeCharacter \DeclareEncodedCompositeCharacter
#1 = encoding
#2 = accent-macro in TeX
#3 = position of combining glyph in Unicode
#4 = bare accent position, in Unicode
##1 = slot for the accented letter

257 \newcommand{\DeclareEncodedCompositeCharacter}[4]{%
258   \expandafter\def\csname #1\string#2\endcsname##1{%
259     \expandafter\@text@composite \csname #1\string#2\endcsname##1\@empty
260     \@text@composite{\add@encoded@accent{#3}{##1}{#4}}}%
261 }

262 \newcommand{\DeclareEncodedCompositeAccents}[4]{%
263   \expandafter\def\csname #1\string#2\endcsname##1{%
264     \expandafter\@text@composite \csname #1\string#2\endcsname##1\@empty
265     \@text@composite{\add@encoded@accents{#4}{##1}{#3}}}%
266 }
267 \let\add@encoded@accent\add@UTF@accent
268 \let\add@encoded@accents\add@UTF@accents
269 %\let\add@encoded@accent\add@set@accentCOMP
270 %\let\add@encoded@accent\add@set@accentMOD
```

5.3 Basic definitions

```
271 \DeclareEncodedCompositeCharacter{\UTFencname}{\'}{0300}{02CB} % Combining grave accent
272 \@ifundefined{capitalgrave}{\DeclareTextAccent{\capitalgrave}{OT1}{999}}{}
273 \DeclareEncodedCompositeCharacter{\UTFencname}{\capitalgrave}{0300}{02CB} % textcomp grave
274 \DeclareEncodedCompositeCharacter{\UTFencname}{\'}{0301}{02CA} % Combining acute accent
275 \@ifundefined{capitalacute}{\DeclareTextAccent{\capitalacute}{OT1}{999}}{}
276 \DeclareEncodedCompositeCharacter{\UTFencname}{\capitalacute}{0301}{02CA} % textcomp acute
277 \DeclareEncodedCompositeCharacter{\UTFencname}{\^}{0302}{02C6} % Combining circumflex accent
278 \@ifundefined{capitalcircumflex}{\DeclareTextAccent{\capitalcircumflex}{OT1}{999}}{}
279 \DeclareEncodedCompositeCharacter{\UTFencname}{\capitalcircumflex}{0302}{02C6} % textcomp
280 \DeclareEncodedCompositeCharacter{\UTFencname}{\~}{0303}{02DC} % Combining tilde
281 \@ifundefined{capitaltilde}{\DeclareTextAccent{\capitaltilde}{OT1}{999}}{}
282 \DeclareEncodedCompositeCharacter{\UTFencname}{\capitaltilde}{0303}{02DC} % textcomp tilde
283 \DeclareEncodedCompositeCharacter{\UTFencname}{\=}{0304}{02C9} % Combining macron
284 \@ifundefined{capitalmacron}{\DeclareTextAccent{\capitalmacron}{OT1}{999}}{}
285 \DeclareEncodedCompositeCharacter{\UTFencname}{\capitalmacron}{0304}{02C9} % textcomp macron
286 \DeclareTextAccent{\textoverline}{OT1}{999}
287 \DeclareEncodedCompositeCharacter{\UTFencname}{\textoverline}{0305}{203E} % Combining overline
288 \DeclareEncodedCompositeCharacter{\UTFencname}{\u}{0306}{02D8} % Combining breve
289 \@ifundefined{capitalbreve}{\DeclareTextAccent{\capitalbreve}{OT1}{999}}{}
290 \DeclareEncodedCompositeCharacter{\UTFencname}{\capitalbreve}{0306}{02D8} % textcomp breve
291 \DeclareEncodedCompositeCharacter{\UTFencname}{\.}{0307}{02D9} % Combining dot above
```

```

292 \@ifundefined{capitaldotaccent}{\DeclareTextAccent{\capitaldotaccent}{OT1}{999}}{}
293 \DeclareEncodedCompositeCharacter{\UTFencname}{\capitaldotaccent}{0307}{02D9} % textcomp d
294 \DeclareEncodedCompositeCharacter{\UTFencname}{\"}{0308}{00A8} % Combining diaeresis
295 \@ifundefined{capitaldieresis}{\DeclareTextAccent{\capitaldieresis}{OT1}{999}}{}
296 \DeclareEncodedCompositeCharacter{\UTFencname}{\capitaldieresis}{0308}{00A8} % textcomp di
297 \@ifundefined{m}{\DeclareTextAccent{\m}{OT1}{999}}{} % miscellaneous IPA symbols
298 \DeclareEncodedCompositeCharacter{\UTFencname}{\m}{0309}{0309} % (Combining hook above)
299 \DeclareTextAccent{\texthookabove}{OT1}{999}
300 \DeclareEncodedCompositeCharacter{\UTFencname}{\texthookabove}{0309}{0309} % Combining hoo
301 \DeclareEncodedCompositeCharacter{\UTFencname}{\r}{030A}{02DA} % Combining ring above
302 \@ifundefined{capitalring}{\DeclareTextAccent{\capitalring}{OT1}{999}}{}
303 \DeclareEncodedCompositeCharacter{\UTFencname}{\capitalring}{030A}{02DA} % textcomp ring a
304 \DeclareEncodedCompositeCharacter{\UTFencname}{\H}{030B}{02DD} % Combining double acute
305 \@ifundefined{capitalhungarumlaut}{\DeclareTextAccent{\capitalhungarumlaut}{OT1}{999}}{}
306 \DeclareEncodedCompositeCharacter{\UTFencname}{\capitalhungarumlaut}{030B}{02DD} % textcom
307 \DeclareEncodedCompositeCharacter{\UTFencname}{\v}{030C}{02C7} % Combining caron
308 \@ifundefined{capitalcaron}{\DeclareTextAccent{\capitalcaron}{OT1}{999}}{}
309 \DeclareEncodedCompositeCharacter{\UTFencname}{\capitalcaron}{030C}{02C7} % textcomp caron
310 \@ifundefined{textvbaraccent}{\DeclareTextAccent{\textvbaraccent}{OT1}{999}}{}
311 \DeclareEncodedCompositeCharacter{\UTFencname}{\textvbaraccent}{030D}{02C8} % Combining ve
312 \@ifundefined{textdoublevbaraccent}{\DeclareTextAccent{\textdoublevbaraccent}{OT1}{999}}{}
313 \DeclareEncodedCompositeCharacter{\UTFencname}{\textdoublevbaraccent}{030E}{030E} % Combin
314 \@ifundefined{U}{\DeclareTextAccent{\U}{OT1}{999}}{}
315 \DeclareEncodedCompositeCharacter{\UTFencname}{\U}{030E}{} % Combining double vertical lin
316 \@ifundefined{textdoublegrave}{\DeclareTextAccent{\textdoublegrave}{OT1}{999}}{}
317 \DeclareEncodedCompositeCharacter{\UTFencname}{\textdoublegrave}{030F}{02F5} % Combining d
318 \@ifundefined{G}{\DeclareTextAccent{\G}{OT1}{999}}{}
319 \DeclareEncodedCompositeCharacter{\UTFencname}{\G}{030F}{02F5} % Combining double grave ac
320 \@ifundefined{textdotbreve}{\DeclareTextAccent{\textdotbreve}{OT1}{999}}{}
321 \DeclareEncodedCompositeCharacter{\UTFencname}{\textdotbreve}{0310}{0310} % Combining cand
322 \@ifundefined{textroundcap}{\DeclareTextAccent{\textroundcap}{OT1}{999}}{}
323 \DeclareEncodedCompositeCharacter{\UTFencname}{\textroundcap}{0311}{0311} % Combining inve
324 \@ifundefined{newtie}{\DeclareTextAccent{\newtie}{OT1}{999}}{}
325 \DeclareEncodedCompositeCharacter{\UTFencname}{\newtie}{0311}{0311} % Combining inverted b
326 \@ifundefined{capitalnewtie}{\DeclareTextAccent{\capitalnewtie}{OT1}{999}}{}
327 \DeclareEncodedCompositeCharacter{\UTFencname}{\capitalnewtie}{0311}{0311} % Combining inv
328 \@ifundefined{t}{\DeclareTextAccent{\t}{OT1}{999}}{}
329 \DeclareEncodedCompositeCharacter{\UTFencname}{\t}{0311}{0311} % Combining inverted breve
330 \@ifundefined{capitaltie}{\DeclareTextAccent{\capitaltie}{OT1}{999}}{}
331 \DeclareEncodedCompositeCharacter{\UTFencname}{\capitaltie}{0311}{0311} % Combining invert
332 \DeclareTextAccent{\textturncommaabove}{OT1}{999}
333 \DeclareEncodedCompositeCharacter{\UTFencname}{\textturncommaabove}{0312}{02BB} % Combinin
334 \DeclareTextAccent{\textcommaabove}{OT1}{999}
335 \DeclareEncodedCompositeCharacter{\UTFencname}{\textcommaabove}{0313}{02BC} % Combining co
336 \DeclareTextAccent{\textrevcommaabove}{OT1}{999}
337 \DeclareEncodedCompositeCharacter{\UTFencname}{\textrevcommaabove}{0314}{02BD} % Combining
338 \DeclareTextAccent{\textcommaabover}{OT1}{999}

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```

339 \DeclareEncodedCompositeCharacter{\UTFencname}{\textcommaabove}{0315}{02BC} % Combining c
340 \@ifundefined{textsubgrave}{\DeclareTextAccent{\textsubgrave}{OT1}{999}}{}
341 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsubgrave}{0316}{02CE} % Combining grav
342 \@ifundefined{textsubacute}{\DeclareTextAccent{\textsubacute}{OT1}{999}}{}
343 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsubacute}{0317}{02CF} % Combining acut
344 \@ifundefined{textadvancing}{\DeclareTextAccent{\textadvancing}{OT1}{999}}{}
345 \DeclareEncodedCompositeCharacter{\UTFencname}{\textadvancing}{0318}{0318} % Combining lef
346 \@ifundefined{textretracting}{\DeclareTextAccent{\textretracting}{OT1}{999}}{}
347 \DeclareEncodedCompositeCharacter{\UTFencname}{\textretracting}{0319}{0319} % Combining ri
348 \DeclareTextAccent{\textlingleabove}{OT1}{999}
349 \DeclareEncodedCompositeCharacter{\UTFencname}{\textlingleabove}{031A}{031A} % Combining l
350 \DeclareTextAccent{\textrighthorn}{OT1}{999}
351 \DeclareEncodedCompositeCharacter{\UTFencname}{\textrighthorn}{031B}{031B} % Combining hor
352 \@ifundefined{textsublhalfring}{\DeclareTextAccent{\textsublhalfring}{OT1}{999}}{}
353 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsublhalfring}{031C}{02D3} % Combining
354 \@ifundefined{textraising}{\DeclareTextAccent{\textraising}{OT1}{999}}{}
355 \DeclareEncodedCompositeCharacter{\UTFencname}{\textraising}{031D}{02D4} % Combining up ta
356 \@ifundefined{textlowering}{\DeclareTextAccent{\textlowering}{OT1}{999}}{}
357 \DeclareEncodedCompositeCharacter{\UTFencname}{\textlowering}{031E}{02D5} % Combining down
358 \@ifundefined{textsubplus}{\DeclareTextAccent{\textsubplus}{OT1}{999}}{}
359 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsubplus}{031F}{02D6} % Combining plus
360 \@ifundefined{textsubminus}{\DeclareTextAccent{\textsubminus}{OT1}{999}}{}
361 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsubminus}{0320}{02D7} % Combining minu
362 \DeclareTextAccent{\textpalhookbelow}{OT1}{999}
363 \DeclareEncodedCompositeCharacter{\UTFencname}{\textpalhookbelow}{0321}{0321} % Combining
364 \@ifundefined{M}{\DeclareTextAccent{M}{OT1}{999}}{} % more Miscellaneous IPA characters
365 \DeclareEncodedCompositeCharacter{\UTFencname}{M}{0322}{0322} % (Combining retroflex hook
366 \DeclareTextAccent{\textrethookbelow}{OT1}{999}
367 \DeclareEncodedCompositeCharacter{\UTFencname}{\textrethookbelow}{0322}{0322} % Combining
368 \DeclareEncodedCompositeCharacter{\UTFencname}{d}{0323}{0323} % Combining dot below
369 \@ifundefined{textsubdot}{\DeclareTextAccent{\textsubdot}{OT1}{999}}{}
370 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsubdot}{0323}{0323} % Combining dot be
371 \@ifundefined{textsubumlaut}{\DeclareTextAccent{\textsubumlaut}{OT1}{999}}{}
372 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsubumlaut}{0324}{0324} % Combining dia
373 \@ifundefined{textsubring}{\DeclareTextAccent{\textsubring}{OT1}{999}}{}
374 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsubring}{0325}{02F3} % Combining ring
375 \DeclareTextAccent{\textcommabelow}{OT1}{999}
376 \DeclareEncodedCompositeCharacter{\UTFencname}{\textcommabelow}{0326}{0326} % Combining co
377 \DeclareEncodedCompositeCharacter{\UTFencname}{c}{0327}{00B8} % Combining cedilla
378 \DeclareEncodedCompositeCharacter{\UTFencname}{\capitalcedilla}{0327}{00B8} % Combining ce
379 \DeclareEncodedCompositeCharacter{\UTFencname}{k}{0328}{02DB} % Combining ogonek
380 \DeclareEncodedCompositeCharacter{\UTFencname}{\capitalogonek}{0328}{02DB} % Combining ogo
381 \@ifundefined{textpolhook}{\DeclareTextAccent{\textpolhook}{OT1}{999}}{}
382 \DeclareEncodedCompositeCharacter{\UTFencname}{\textpolhook}{0328}{02DB} % Combining ogone
383 \@ifundefined{textsyllabic}{\DeclareTextAccent{\textsyllabic}{OT1}{999}}{}
384 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsyllabic}{0329}{02CC} % Combining vert
385 \@ifundefined{textsubbridge}{\DeclareTextAccent{\textsubbridge}{OT1}{999}}{}

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386 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsubbridge}{032A}{032A} % Combining bri
387 \let\dental\textsubbridge
388 \@ifundefined{textsubw}{\DeclareTextAccent{\textsubw}{OT1}{999}}{}
389 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsubw}{032B}{032B} % Combining inverted
390 \@ifundefined{textsubwedge}{\DeclareTextAccent{\textsubwedge}{OT1}{999}}{}
391 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsubwedge}{032C}{032C} % Combining caro
392 \@ifundefined{textsubcircum}{\DeclareTextAccent{\textsubcircum}{OT1}{999}}{}
393 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsubcircum}{032D}{032D} % Combining cir
394 \@ifundefined{textundertie}{\DeclareTextAccent{\textundertie}{OT1}{999}}{}
395 \DeclareEncodedCompositeCharacter{\UTFencname}{\textundertie}{032E}{203F} % Combining brev
396 \@ifundefined{textsubarch}{\DeclareTextAccent{\textsubarch}{OT1}{999}}{}
397 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsubarch}{032F}{032F} % Combining inver
398 \let\underarch\textsubarch
399 \@ifundefined{textsubtilde}{\DeclareTextAccent{\textsubtilde}{OT1}{999}}{}
400 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsubtilde}{0330}{02F7} % Combining tild
401 \@ifundefined{textsubbar}{\DeclareTextAccent{\textsubbar}{OT1}{999}}{}
402 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsubbar}{0331}{02CD} % Combining macron
403 \DeclareEncodedCompositeCharacter{\UTFencname}{\b}{0332}{005F} % Combining low line
404 \@ifundefined{subdoublebar}{\DeclareTextAccent{\subdoublebar}{OT1}{999}}{}
405 \DeclareEncodedCompositeCharacter{\UTFencname}{\subdoublebar}{0333}{0333} % ??? see x0347
406 %\DeclareEncodedCompositeCharacter{\UTFencname}{\subdoublebar}{0333}{0347} % Combining dou
407 \DeclareTextAccent{\textsuperimposetilde}{OT1}{999}
408 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsuperimposetilde}{0334}{007E} % Combin
409 \@ifundefined{B}{\DeclareTextAccent{B}{OT1}{999}}{} % barred variants for TIPA
410 \DeclareEncodedCompositeCharacter{\UTFencname}{B}{0335}{02D7} % (Combining short stroke o
411 \DeclareTextAccent{\textsstrokethru}{OT1}{999} % stroke thru lowercase letters
412 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsstrokethru}{0335}{00AF} % Combining s
413 \DeclareTextAccent{\textlstrokethru}{OT1}{999} % stroke thru Uppercase letters
414 \DeclareEncodedCompositeCharacter{\UTFencname}{\textlstrokethru}{0336}{0336} % Combining l
415 \DeclareTextAccent{\textssstrikethru}{OT1}{999} % strike out lowercase letters
416 \DeclareEncodedCompositeCharacter{\UTFencname}{\textssstrikethru}{0337}{0337} % Combining s
417 \DeclareTextAccent{\textlstrikethru}{OT1}{999} % strike out Uppercase letters
418 \DeclareEncodedCompositeCharacter{\UTFencname}{\textlstrikethru}{0338}{0338} % Combining l
419 \@ifundefined{textsubrhalfring}{\DeclareTextAccent{\textsubrhalfring}{OT1}{999}}{}
420 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsubrhalfring}{0339}{02D2} % Combining
421 \@ifundefined{textinvsubbridge}{\DeclareTextAccent{\textinvsubbridge}{OT1}{999}}{}
422 \DeclareEncodedCompositeCharacter{\UTFencname}{\textinvsubbridge}{033A}{033A} % Combining
423 \@ifundefined{textsubsquare}{\DeclareTextAccent{\textsubsquare}{OT1}{999}}{}
424 \DeclareEncodedCompositeCharacter{\UTFencname}{\textsubsquare}{033B}{033B} % Combining squ
425 \@ifundefined{textseagull}{\DeclareTextAccent{\textseagull}{OT1}{999}}{}
426 \DeclareEncodedCompositeCharacter{\UTFencname}{\textseagull}{033C}{033C} % Combining seagu
427 \@ifundefined{textovercross}{\DeclareTextAccent{\textovercross}{OT1}{999}}{}
428 \DeclareEncodedCompositeCharacter{\UTFencname}{\textovercross}{033D}{033D} % Combining x a
429 %\DeclareEncodedCompositeCharacter{\UTFencname}{\?}{033E}{\?} % Combining vertical tilde
430 %\DeclareEncodedCompositeCharacter{\UTFencname}{\?}{033F}{\?} % Combining double overline
431 %\DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0340}{\?} % Combining grave tone mark
432 %\DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0341}{\?} % Combining acute tone mark

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```

433 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0342}{} % Combining greek perispomeni
434 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0343}{} % Combining greek koronis
435 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0344}{} % Combining greek dialytika to
436 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0345}{} % Combining greek ypogegrammeni
437 \ifundefined{overbridge}{\DeclareTextAccent{\overbridge}{OT1}{999}}{}
438 \DeclareEncodedCompositeCharacter{\UTFencname}{\overbridge}{0346}{0346} % Combining bridge
439 \ifundefined{subdoublebar}{\DeclareTextAccent{\subdoublebar}{OT1}{999}}{}
440 \DeclareEncodedCompositeCharacter{\UTFencname}{\subdoublebar}{0347}{0347} % ??? see x033
441 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0347}{0347} % Combining equals sign be
442 \ifundefined{subdoublevert}{\DeclareTextAccent{\subdoublevert}{OT1}{999}}{}
443 \DeclareEncodedCompositeCharacter{\UTFencname}{\subdoublevert}{0348}{0348} % Combining dou
444 \ifundefined{subcorner}{\DeclareTextAccent{\subcorner}{OT1}{999}}{}
445 \DeclareEncodedCompositeCharacter{\UTFencname}{\subcorner}{0349}{0349} % Combining left an
446 \ifundefined{textoverw}{\DeclareTextAccent{\textoverw}{OT1}{999}}{}
447 \DeclareEncodedCompositeCharacter{\UTFencname}{\textoverw}{034A}{034A} % ??? Combining not
448 \ifundefined{crtilde}{\DeclareTextAccent{\crtilde}{OT1}{999}}{}
449 \DeclareEncodedCompositeCharacter{\UTFencname}{\crtilde}{034A}{034A} % Combining not tilde
450 \ifundefined{dottedtilde}{\DeclareTextAccent{\dottedtilde}{OT1}{999}}{}
451 \DeclareEncodedCompositeCharacter{\UTFencname}{\dottedtilde}{034B}{034B} % Combining homot
452 \ifundefined{doubletilde}{\DeclareTextAccent{\doubletilde}{OT1}{999}}{}
453 \DeclareEncodedCompositeCharacter{\UTFencname}{\doubletilde}{034C}{034C} % Combining almos
454 \ifundefined{spreadlips}{\DeclareTextAccent{\spreadlips}{OT1}{999}}{}
455 \DeclareEncodedCompositeCharacter{\UTFencname}{\spreadlips}{034D}{034D} % Combining left r
456 \ifundefined{whistle}{\DeclareTextAccent{\whistle}{OT1}{999}}{}
457 \DeclareEncodedCompositeCharacter{\UTFencname}{\whistle}{034E}{02F0} % Combining upwards a
458 \DeclareTextAccent{\textgraphemejoin}{OT1}{999}
459 \DeclareEncodedCompositeCharacter{\UTFencname}{\textgraphemejoin}{034F}{034F} % Combining
460 \DeclareTextAccent{\textrightarrowhead}{OT1}{999}
461 \DeclareEncodedCompositeCharacter{\UTFencname}{\textrightarrowhead}{0350}{0350} % Combinin
462 \DeclareTextAccent{\textlefthalfiring}{OT1}{999}
463 \DeclareEncodedCompositeCharacter{\UTFencname}{\textlefthalfiring}{0351}{02D3} % Combining
464 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0352}{0352} % Combining fermata
465 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0353}{0353} % Combining x below
466 \ifundefined{sublptr}{\DeclareTextAccent{\sublptr}{OT1}{999}}{}
467 \DeclareEncodedCompositeCharacter{\UTFencname}{\sublptr}{0354}{02F1} % Combining left arro
468 \ifundefined{subrptr}{\DeclareTextAccent{\subrptr}{OT1}{999}}{}
469 \DeclareEncodedCompositeCharacter{\UTFencname}{\subrptr}{0355}{02F2} % Combining right arr
470 \DeclareTextAccent{\textrightuparrowhead}{OT1}{999}
471 \DeclareEncodedCompositeCharacter{\UTFencname}{\textrightuparrowhead}{0356}{0356} % Combin
472 \DeclareTextAccent{\textrighthalfiring}{OT1}{999}
473 \DeclareEncodedCompositeCharacter{\UTFencname}{\textrighthalfiring}{0357}{02D2} % Combining
474 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0358}{} % ** unassigned **
475 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0359}{} % ** unassigned **
476 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{035A}{} % ** unassigned **
477 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{035B}{} % ** unassigned **
478 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{035C}{} % ** unassigned **
479 \DeclareTextAccent{\textdoublebreve}{OT1}{999}

```

```

480 \DeclareEncodedCompositeCharacter{\UTFencname}{\textdoublebreve}{035D}{035D} % Combining d
481 \DeclareTextAccent{\textdoublemacron}{OT1}{999}
482 \DeclareEncodedCompositeCharacter{\UTFencname}{\textdoublemacron}{035E}{035E} % Combining
483 \DeclareTextAccent{\textdoublemacronbelow}{OT1}{999}
484 \DeclareEncodedCompositeCharacter{\UTFencname}{\textdoublemacronbelow}{035F}{035F} % Combining
485 \DeclareTextAccent{\textdoubletilde}{OT1}{999}
486 \DeclareEncodedCompositeCharacter{\UTFencname}{\textdoubletilde}{0360}{0360} % Combining d
487 \@ifundefined{texttptiebar}{\DeclareTextAccent{\texttptiebar}{OT1}{999}}{}
488 \DeclareEncodedCompositeCharacter{\UTFencname}{\texttptiebar}{0361}{0361} % Combining dou
489 \@ifundefined{sliding}{\DeclareTextAccent{\sliding}{OT1}{999}}{}
490 \DeclareEncodedCompositeCharacter{\UTFencname}{\sliding}{0362}{0362} % Combining double ri
491 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0363}{0363} % Combining latin small le
492 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0364}{0364} % Combining latin small le
493 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0365}{0365} % Combining latin small le
494 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0366}{0366} % Combining latin small le
495 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0367}{0367} % Combining latin small le
496 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0368}{0368} % Combining latin small le
497 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{0369}{0369} % Combining latin small le
498 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{036A}{036A} % Combining latin small le
499 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{036B}{036B} % Combining latin small le
500 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{036C}{036C} % Combining latin small le
501 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{036D}{036D} % Combining latin small le
502 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{036E}{036E} % Combining latin small le
503 \DeclareEncodedCompositeCharacter{\UTFencname}{\?}{036F}{036F} % Combining latin small le

```

5.4 Missing IPA accenting macros

```

504 \DeclareEncodedCompositeCharacter{\UTFencname}{\partvoiceless}{????} % Combining (o) belo
505 \DeclareEncodedCompositeCharacter{\UTFencname}{\inipartvoiceless}{????} % Combining (o) b
506 \DeclareEncodedCompositeCharacter{\UTFencname}{\finpartvoiceless}{????} % Combining (o) b
507 \DeclareEncodedCompositeCharacter{\UTFencname}{\partvoice}{????} % Combining (v) below
508 \DeclareEncodedCompositeCharacter{\UTFencname}{\inipartvoice}{????} % Combining (v) below
509 \DeclareEncodedCompositeCharacter{\UTFencname}{\finpartvoice}{????} % Combining (v) below
510
511 \@ifundefined{bibridge}{\DeclareTextAccent{\bibridge}{OT1}{999}}{}
512 \DeclareEncodedCompositeAccents{\UTFencname}{\bibridge}{032A}{0346} % IPA bi-bridge
513 \@ifundefined{textmidacute}{\DeclareTextAccent{\textmidacute}{OT1}{999}}{}
514 \DeclareEncodedCompositeAccents{\UTFencname}{\textmidacute}{0304}{0301} % macron-acute lig
515 \@ifundefined{textgravemid}{\DeclareTextAccent{\textgravemid}{OT1}{999}}{}
516 \DeclareEncodedCompositeAccents{\UTFencname}{\textgravemid}{0300}{0304} % grave-macron lig
517 \@ifundefined{textgravecircum}{\DeclareTextAccent{\textgravecircum}{OT1}{999}}{}
518 \DeclareEncodedCompositeAccents{\UTFencname}{\textgravecircum}{0300}{0302} % grave-circumf
519 \@ifundefined{textcircumacute}{\DeclareTextAccent{\textcircumacute}{OT1}{999}}{}
520 \DeclareEncodedCompositeAccents{\UTFencname}{\textcircumacute}{0301}{0302} % circumflex-ac
521 \@ifundefined{textgravedot}{\DeclareTextAccent{\textgravedot}{OT1}{999}}{}
522 \DeclareEncodedCompositeAccents{\UTFencname}{\textgravedot}{0300}{0307} % grave-dot ligatu
523 \@ifundefined{textdotacute}{\DeclareTextAccent{\textdotacute}{OT1}{999}}{}
524 \DeclareEncodedCompositeAccents{\UTFencname}{\textdotacute}{0307}{0301} % dot-acute ligatu

```

```

525 \@ifundefined{textacutemacron}{\DeclareTextAccent{\textacutemacron}{OT1}{999}}{}
526 \DeclareEncodedCompositeAccents{\UTFencname}{\textacutemacron}{0301}{0304} % acute-macron
527 \@ifundefined{textgravemacron}{\DeclareTextAccent{\textgravemacron}{OT1}{999}}{}
528 \DeclareEncodedCompositeAccents{\UTFencname}{\textgravemacron}{0300}{0304} % grave-macron
529 \@ifundefined{textacutewedge}{\DeclareTextAccent{\textacutewedge}{OT1}{999}}{}
530 \DeclareEncodedCompositeAccents{\UTFencname}{\textacutewedge}{0301}{030C} % acute-wedge ligature
531 \@ifundefined{textcircumdot}{\DeclareTextAccent{\textcircled{.}}{OT1}{999}}{}
532 \DeclareEncodedCompositeAccents{\UTFencname}{\textcircled{.}}{0302}{0307} % circumflex-dot
533 \@ifundefined{texttildedot}{\DeclareTextAccent{\texttildedot}{OT1}{999}}{}
534 \DeclareEncodedCompositeAccents{\UTFencname}{\texttildedot}{0303}{0307} % tilde-dot ligature
535 \@ifundefined{textringmacron}{\DeclareTextAccent{\textringmacron}{OT1}{999}}{}
536 \DeclareEncodedCompositeAccents{\UTFencname}{\textringmacron}{030A}{0304} % ring-macron ligature
537 \@ifundefined{textbrevemacron}{\DeclareTextAccent{\textbrevemacron}{OT1}{999}}{}
538 \DeclareEncodedCompositeAccents{\UTFencname}{\textbrevemacron}{0306}{0304} % breve-macron
539
540 \DeclareTextAccent{\texthookcircum}{OT1}{999}
541 \DeclareEncodedCompositeAccents{\UTFencname}{\texthookcircum}{0309}{0302}
542 \DeclareTextAccent{\texttildecircum}{OT1}{999}
543 \DeclareEncodedCompositeAccents{\UTFencname}{\texttildecircum}{0303}{0302}
544 \DeclareTextAccent{\textdieresisoverline}{OT1}{999}
545 \DeclareEncodedCompositeAccents{\UTFencname}{\textdieresisoverline}{0304}{0308}
546 \DeclareTextAccent{\textdieresisacute}{OT1}{999}
547 \DeclareEncodedCompositeAccents{\UTFencname}{\textdieresisacute}{0301}{0308}
548 \DeclareTextAccent{\textdieresisgrave}{OT1}{999}
549 \DeclareEncodedCompositeAccents{\UTFencname}{\textdieresisgrave}{0300}{0308}
550 \DeclareTextAccent{\textdieresiscaron}{OT1}{999}
551 \DeclareEncodedCompositeAccents{\UTFencname}{\textdieresiscaron}{030C}{0308}
552 \DeclareTextAccent{\texttildeoverline}{OT1}{999}
553 \DeclareEncodedCompositeAccents{\UTFencname}{\texttildeoverline}{0303}{0304}
554 \DeclareTextAccent{\textdotoverline}{OT1}{999}
555 \DeclareEncodedCompositeAccents{\UTFencname}{\textdotoverline}{0304}{0307}
556 \DeclareTextAccent{\textringacute}{OT1}{999}
557 \DeclareEncodedCompositeAccents{\UTFencname}{\textringacute}{0301}{030A}
558 \DeclareTextAccent{\textcircumdotbelow}{OT1}{999}
559 \DeclareEncodedCompositeAccents{\UTFencname}{\textcircumdotbelow}{0302}{0323}
560 \DeclareTextAccent{\textbreveacute}{OT1}{999}
561 \DeclareEncodedCompositeAccents{\UTFencname}{\textbreveacute}{0301}{0306}
562 \DeclareTextAccent{\textbrevegrave}{OT1}{999}
563 \DeclareEncodedCompositeAccents{\UTFencname}{\textbrevegrave}{0300}{0306}
564 \DeclareTextAccent{\textbrevehook}{OT1}{999}
565 \DeclareEncodedCompositeAccents{\UTFencname}{\textbrevehook}{0309}{0306}
566 \DeclareTextAccent{\textbrevetilde}{OT1}{999}
567 \DeclareEncodedCompositeAccents{\UTFencname}{\textbrevetilde}{0303}{0306}
568 \DeclareTextAccent{\textbrevedotbelow}{OT1}{999}
569 \DeclareEncodedCompositeAccents{\UTFencname}{\textbrevedotbelow}{0323}{0306}
570 \DeclareTextAccent{\textacutehorn}{OT1}{999}
571 \DeclareEncodedCompositeAccents{\UTFencname}{\textacutehorn}{0301}{031B}

```



```

572 \DeclareTextAccent{\textgravehorn}{OT1}{999}
573 \DeclareEncodedCompositeAccents{\UTFencname}{\textgravehorn}{0300}{031B}
574 \DeclareTextAccent{\texthookhorn}{OT1}{999}
575 \DeclareEncodedCompositeAccents{\UTFencname}{\texthookhorn}{0309}{031B}
576 \DeclareTextAccent{\texttildehorn}{OT1}{999}
577 \DeclareEncodedCompositeAccents{\UTFencname}{\texttildehorn}{0303}{031B}
578 \DeclareTextAccent{\textdotbelowhorn}{OT1}{999}
579 \DeclareEncodedCompositeAccents{\UTFencname}{\textdotbelowhorn}{0323}{031B}
580 \DeclareTextAccent{\textogonekoverline}{OT1}{999}
581 \DeclareEncodedCompositeAccents{\UTFencname}{\textogonekoverline}{0328}{0304}
582
583 \DeclareTextAccent{\textmiddledot}{OT1}{999}
584 \DeclareEncodedCompositeCharacter{\UTFencname}{\textmiddledot}{05BC}{05BC}

```

5.5 Rare definitions

Not many fonts support these code-points yet.

```

585 \DeclareUTFcharacter[\UTFencname]{x3008}{\textlangle}
586 \DeclareUTFcharacter[\UTFencname]{x3009}{\textrangle}
587 \DeclareUTFcharacter[\UTFencname]{x301A}{\textlbrackdbl}
588 \DeclareUTFcharacter[\UTFencname]{x301B}{\textrbrackdbl}

```

5.5.1 Old-style numbers

```

589 \DeclareUTFcharacter[\UTFencname]{xFF10}{\textzerooldstyle}
590 \DeclareUTFcharacter[\UTFencname]{xFF11}{\textoneoldstyle}
591 \DeclareUTFcharacter[\UTFencname]{xFF12}{\texttwooldstyle}
592 \DeclareUTFcharacter[\UTFencname]{xFF13}{\textthreeoldstyle}
593 \DeclareUTFcharacter[\UTFencname]{xFF14}{\textfouroldstyle}
594 \DeclareUTFcharacter[\UTFencname]{xFF15}{\textfiveoldstyle}
595 \DeclareUTFcharacter[\UTFencname]{xFF16}{\textsixoldstyle}
596 \DeclareUTFcharacter[\UTFencname]{xFF17}{\textsevenoldstyle}
597 \DeclareUTFcharacter[\UTFencname]{xFF18}{\texteightoldstyle}
598 \DeclareUTFcharacter[\UTFencname]{xFF19}{\textnineoldstyle}

```

5.5.2 Circled letters and small numbers

```

599 \DeclareEncodedCompositeCharacter{\UTFencname}{\textcircled}{20DD}{25EF}

600 \DeclareUTFcomposite[\UTFencname]{x2460}{\textcircled}{1}
601 \DeclareUTFcomposite[\UTFencname]{x2461}{\textcircled}{2}
602 \DeclareUTFcomposite[\UTFencname]{x2462}{\textcircled}{3}
603 \DeclareUTFcomposite[\UTFencname]{x2463}{\textcircled}{4}
604 \DeclareUTFcomposite[\UTFencname]{x2464}{\textcircled}{5}
605 \DeclareUTFcomposite[\UTFencname]{x2465}{\textcircled}{6}
606 \DeclareUTFcomposite[\UTFencname]{x2466}{\textcircled}{7}
607 \DeclareUTFcomposite[\UTFencname]{x2467}{\textcircled}{8}
608 \DeclareUTFcomposite[\UTFencname]{x2468}{\textcircled}{9}
609 \DeclareUTFcomposite[\UTFencname]{x2469}{\textcircled}{10}

```

```

610 \DeclareUTFcomposite[\UTFencname]{x246A}{\textcircled}{11}
611 \DeclareUTFcomposite[\UTFencname]{x246B}{\textcircled}{12}
612 \DeclareUTFcomposite[\UTFencname]{x246C}{\textcircled}{13}
613 \DeclareUTFcomposite[\UTFencname]{x246D}{\textcircled}{14}
614 \DeclareUTFcomposite[\UTFencname]{x246E}{\textcircled}{15}
615 \DeclareUTFcomposite[\UTFencname]{x246F}{\textcircled}{16}
616 \DeclareUTFcomposite[\UTFencname]{x2470}{\textcircled}{17}
617 \DeclareUTFcomposite[\UTFencname]{x2471}{\textcircled}{18}
618 \DeclareUTFcomposite[\UTFencname]{x2472}{\textcircled}{19}
619 \DeclareUTFcomposite[\UTFencname]{x2473}{\textcircled}{20}
620
621 \DeclareUTFcomposite[\UTFencname]{x24B6}{\textcircled}{A}
622 \DeclareUTFcomposite[\UTFencname]{x24B7}{\textcircled}{B}
623 \DeclareUTFcomposite[\UTFencname]{x24B8}{\textcircled}{C}
624 \DeclareUTFcomposite[\UTFencname]{x24B9}{\textcircled}{D}
625 \DeclareUTFcomposite[\UTFencname]{x24BA}{\textcircled}{E}
626 \DeclareUTFcomposite[\UTFencname]{x24BB}{\textcircled}{F}
627 \DeclareUTFcomposite[\UTFencname]{x24BC}{\textcircled}{G}
628 \DeclareUTFcomposite[\UTFencname]{x24BD}{\textcircled}{H}
629 \DeclareUTFcomposite[\UTFencname]{x24BE}{\textcircled}{I}
630 \DeclareUTFcomposite[\UTFencname]{x24BF}{\textcircled}{J}
631 \DeclareUTFcomposite[\UTFencname]{x24C0}{\textcircled}{K}
632 \DeclareUTFcomposite[\UTFencname]{x24C1}{\textcircled}{L}
633 \DeclareUTFcomposite[\UTFencname]{x24C2}{\textcircled}{M}
634 \DeclareUTFcomposite[\UTFencname]{x24C3}{\textcircled}{N}
635 \DeclareUTFcomposite[\UTFencname]{x24C4}{\textcircled}{O}
636 \DeclareUTFcomposite[\UTFencname]{x24C5}{\textcircled}{P}
637 \DeclareUTFcomposite[\UTFencname]{x24C6}{\textcircled}{Q}
638 \DeclareUTFcomposite[\UTFencname]{x24C7}{\textcircled}{R}
639 \DeclareUTFcomposite[\UTFencname]{x24C8}{\textcircled}{S}
640 \DeclareUTFcomposite[\UTFencname]{x24C9}{\textcircled}{T}
641 \DeclareUTFcomposite[\UTFencname]{x24CA}{\textcircled}{U}
642 \DeclareUTFcomposite[\UTFencname]{x24CB}{\textcircled}{V}
643 \DeclareUTFcomposite[\UTFencname]{x24CC}{\textcircled}{W}
644 \DeclareUTFcomposite[\UTFencname]{x24CD}{\textcircled}{X}
645 \DeclareUTFcomposite[\UTFencname]{x24CE}{\textcircled}{Y}
646 \DeclareUTFcomposite[\UTFencname]{x24CF}{\textcircled}{Z}
647 \DeclareUTFcomposite[\UTFencname]{x24D0}{\textcircled}{a}
648 \DeclareUTFcomposite[\UTFencname]{x24D1}{\textcircled}{b}
649 \DeclareUTFcomposite[\UTFencname]{x24D2}{\textcircled}{c}
650 \DeclareUTFcomposite[\UTFencname]{x24D3}{\textcircled}{d}
651 \DeclareUTFcomposite[\UTFencname]{x24D4}{\textcircled}{e}
652 \DeclareUTFcomposite[\UTFencname]{x24D5}{\textcircled}{f}
653 \DeclareUTFcomposite[\UTFencname]{x24D6}{\textcircled}{g}
654 \DeclareUTFcomposite[\UTFencname]{x24D7}{\textcircled}{h}
655 \DeclareUTFcomposite[\UTFencname]{x24D8}{\textcircled}{i}
656 \DeclareUTFcomposite[\UTFencname]{x24D9}{\textcircled}{j}

```

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657 \DeclareUTFcomposite[UTFencname]{x24DA}{\textcircled}{k}
658 \DeclareUTFcomposite[UTFencname]{x24DB}{\textcircled}{l}
659 \DeclareUTFcomposite[UTFencname]{x24DC}{\textcircled}{m}
660 \DeclareUTFcomposite[UTFencname]{x24DD}{\textcircled}{n}
661 \DeclareUTFcomposite[UTFencname]{x24DE}{\textcircled}{o}
662 \DeclareUTFcomposite[UTFencname]{x24DF}{\textcircled}{p}
663 \DeclareUTFcomposite[UTFencname]{x24E0}{\textcircled}{q}
664 \DeclareUTFcomposite[UTFencname]{x24E1}{\textcircled}{r}
665 \DeclareUTFcomposite[UTFencname]{x24E2}{\textcircled}{s}
666 \DeclareUTFcomposite[UTFencname]{x24E3}{\textcircled}{t}
667 \DeclareUTFcomposite[UTFencname]{x24E4}{\textcircled}{u}
668 \DeclareUTFcomposite[UTFencname]{x24E5}{\textcircled}{v}
669 \DeclareUTFcomposite[UTFencname]{x24E6}{\textcircled}{w}
670 \DeclareUTFcomposite[UTFencname]{x24E7}{\textcircled}{x}
671 \DeclareUTFcomposite[UTFencname]{x24E8}{\textcircled}{y}
672 \DeclareUTFcomposite[UTFencname]{x24E9}{\textcircled}{z}
673 \DeclareUTFcomposite[UTFencname]{x24EA}{\textcircled}{0}
674
675 \DeclareUTFcomposite[UTFencname]{x3251}{\textcircled}{21}
676 \DeclareUTFcomposite[UTFencname]{x3252}{\textcircled}{22}
677 \DeclareUTFcomposite[UTFencname]{x3253}{\textcircled}{23}
678 \DeclareUTFcomposite[UTFencname]{x3254}{\textcircled}{24}
679 \DeclareUTFcomposite[UTFencname]{x3255}{\textcircled}{25}
680 \DeclareUTFcomposite[UTFencname]{x3256}{\textcircled}{26}
681 \DeclareUTFcomposite[UTFencname]{x3257}{\textcircled}{27}
682 \DeclareUTFcomposite[UTFencname]{x3258}{\textcircled}{28}
683 \DeclareUTFcomposite[UTFencname]{x3259}{\textcircled}{29}
684 \DeclareUTFcomposite[UTFencname]{x325A}{\textcircled}{30}
685 \DeclareUTFcomposite[UTFencname]{x325B}{\textcircled}{31}
686 \DeclareUTFcomposite[UTFencname]{x325C}{\textcircled}{32}
687 \DeclareUTFcomposite[UTFencname]{x325D}{\textcircled}{33}
688 \DeclareUTFcomposite[UTFencname]{x325E}{\textcircled}{34}
689 \DeclareUTFcomposite[UTFencname]{x325F}{\textcircled}{35}
690
691 \DeclareUTFcomposite[UTFencname]{x32B1}{\textcircled}{36}
692 \DeclareUTFcomposite[UTFencname]{x32B2}{\textcircled}{37}
693 \DeclareUTFcomposite[UTFencname]{x32B3}{\textcircled}{38}
694 \DeclareUTFcomposite[UTFencname]{x32B4}{\textcircled}{39}
695 \DeclareUTFcomposite[UTFencname]{x32B5}{\textcircled}{40}
696 \DeclareUTFcomposite[UTFencname]{x32B6}{\textcircled}{41}
697 \DeclareUTFcomposite[UTFencname]{x32B7}{\textcircled}{42}
698 \DeclareUTFcomposite[UTFencname]{x32B8}{\textcircled}{43}
699 \DeclareUTFcomposite[UTFencname]{x32B9}{\textcircled}{44}
700 \DeclareUTFcomposite[UTFencname]{x32BA}{\textcircled}{45}
701 \DeclareUTFcomposite[UTFencname]{x32BB}{\textcircled}{46}
702 \DeclareUTFcomposite[UTFencname]{x32BC}{\textcircled}{47}
703 \DeclareUTFcomposite[UTFencname]{x32BD}{\textcircled}{48}

```

```

704 \DeclareUTFcomposite[\UTFencname]{x32BE}{\textcircled}{49}
705 \DeclareUTFcomposite[\UTFencname]{x32BF}{\textcircled}{50}

```

6 Latin Modern test file

Adapted and improved from my \LaTeX Journal article on the Latin Modern fonts.

```

706 \documentclass[12pt]{article}
707 \usepackage[margin=2.5cm]{geometry}
708 \newenvironment{vrb}
709     {\begin{tabular}{@{}p{7cm}l@{}}}
710     {\end{tabular}}
711
712 \usepackage{fancyvrb}
713 \DefineShortVerb{\|}
714
715 \usepackage{slantsc}
716 \usepackage{ifluatex}
717 \usepackage{ifxetex}
718 \ifxetex
719     \def\EU{EU1}
720 \else
721     \ifluatex
722         \usepackage{luaotfload}
723         \def\EU{EU2}
724     \else
725         \def\EU{T1}
726     \fi
727 \fi
728 \usepackage[\EU]{fontenc}
729 \usepackage{lmodern}
730 \begin{document}
731
732 \title{Testing the Latin Modern \texttt{\EU} encoding}
733 \author{Will Robertson}
734 \maketitle
735 \thispagestyle{empty}
736 \pagestyle{empty}
737
738 \section*{Roman}
739
740 \fontfamily{lmr}\selectfont
741 \begin{vrb}
742 |\rmdefault| & {\selectfont Latin Modern Roman} \\
743 | \itshape| & {\itshape Latin Modern Roman Italic} \\
744 | \slshape| & {\slshape Latin Modern Roman Oblique} \\
745 | \scshape| & {\scshape Latin Modern Roman Small Caps} \\

```

```

746 | \slshape| & {\scshape\slshape Latin Modern Roman Oblique Small Caps} \\
747 | \bfseries| & {\bfseries Latin Modern Roman Bold Extended} \\
748 | \itshape| & {\bfseries\itshape Latin Modern Roman Bold Italic Extended} \\
749 | \slshape| & {\bfseries\slshape Latin Modern Roman Bold Oblique Extended} \\
750 | \fontseries{b}| & {\fontseries{b}\selectfont Latin Modern Roman Bold} \\
751 | \fontseries{b}\slshape| & {\fontseries{b}\slshape Latin Modern Roman Bold Oblique} \\
752 \end{vrb}
753
754 \section*{Dunhill}
755
756 \fontfamily{lmdh}\selectfont
757 \begin{vrb}
758 |\fontfamily{lmdh}\selectfont| & {Latin Modern Dunhill} \\
759 | \slshape| & {\slshape Latin Modern Dunhill Oblique} \\
760 \end{vrb}
761
762 \section*{Sans}
763
764 \fontfamily{lmss}\selectfont
765 \begin{vrb}
766 |\sffamily| & {\selectfont Latin Modern Sans} \\
767 | \slshape| & {\slshape Latin Modern Sans Oblique} \\
768 | \bfseries| & {\bfseries Latin Modern Sans Bold} \\
769 | \slshape| & {\bfseries\slshape Latin Modern Sans Bold Oblique} \\
770 | \fontseries{sbc}\selectfont| & {\fontseries{sbc}\selectfont Latin Modern Sans Demi Cond} \\
771 | \slshape| & {\fontseries{sbc}\selectfont\slshape Latin Modern Sans Demi Condensed Ob} \\
772 \end{vrb}
773
774 \section*{Sans Quotation}
775
776 \fontfamily{lmssq}\selectfont
777 \begin{vrb}
778 |\renewcommand\sfddefault{lmssq}| \\
779 |\sffamily| & {\selectfont Latin Modern Sans Extended} \\
780 | \slshape| & {\slshape Latin Modern Sans Extended Oblique} \\
781 | \bfseries| & {\bfseries Latin Modern Sans Bold Extended} \\
782 | \slshape| & {\bfseries\slshape Latin Modern Sans Bold Extended Oblique} \\
783 \end{vrb}
784
785 \section*{Typewriter}
786
787 \fontfamily{lmtt}\selectfont
788 \begin{vrb}
789 |\ttfamily| & {\selectfont Latin Modern Typewriter} \\
790 | \itshape| & {\itshape Latin Modern Typewriter Italic} \\
791 | \slshape| & {\slshape Latin Modern Typewriter Oblique} \\
792 | \scshape| & {\scshape Latin Modern Typewriter Small Caps}

```

```

793 | \scshape\slshape | & {\scshape\slshape Latin Modern Typewriter Oblique Small Caps} \\
794 | \bfseries      | & {\bfseries Latin Modern Typewriter Dark} \\
795 | \slshape       | & {\bfseries\slshape Latin Modern Typewriter Dark Oblique} \\
796 | \fontseries{b}\selectfont | & {\fontfamily{lmtt}\fontseries{b}\selectfont Latin Modern Typewriter Dark Oblique}
797 | \fontseries{b}\slshape    | & {\fontfamily{lmtt}\fontseries{b}\slshape Latin Modern Typewriter Dark Oblique}
798 | \fontseries{l}\selectfont | & {\fontfamily{lmtt}\fontseries{l}\selectfont Latin Modern Typewriter Dark Oblique}
799 | \fontseries{l}\slshape    | & {\fontfamily{lmtt}\fontseries{l}\slshape Latin Modern Typewriter Dark Oblique}
800 | \fontseries{lc}\selectfont | & {\fontfamily{lmtt}\fontseries{lc}\selectfont Latin Modern Typewriter Dark Oblique}
801 | \fontseries{lc}\slshape    | & {\fontfamily{lmtt}\fontseries{lc}\slshape Latin Modern Typewriter Dark Oblique}
802 \end{vrb}
803
804 \section*{Variable-width Typewriter}
805
806 \fontfamily{lmtt}\selectfont
807 \def\fixedspacing{\fontdimen3\font0pt\fontdimen4\font0pt}
808 \begin{vrb}
809 |\renewcommand\ttdefault{lmtt}| \\
810 |\ttfamily          | & {\selectfont \fixedspacing Latin Modern Typewriter Proportional}
811 | \slshape           | & {\slshape \fixedspacing Latin Modern Typewriter Proportional}
812 | \fontseries{l}\selectfont | & {\fontseries{l}\selectfont \fixedspacing Latin Modern Typewriter Proportional}
813 | \fontseries{l}\slshape    | & {\fontseries{l}\slshape \fixedspacing Latin Modern Typewriter Proportional}
814 | \fontseries{b}\selectfont | & {\fontseries{b}\selectfont \fixedspacing Latin Modern Typewriter Proportional}
815 | \fontseries{b}\slshape    | & {\fontseries{b}\slshape \fixedspacing Latin Modern Typewriter Proportional}
816 \end{vrb}
817
818 \end{document}

```