

Auto 1 support for L^AT_EX

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1 Overview

The Auto1 package provides support for the Auto 1™ font family by Underware [2]. You can use this font in a L^AT_EX document by adding the command

```
\usepackage{Auto1}
```

to the preamble. This will change both the sans-serif text font and the sans-serif math font to Auto 1™. If you prefer another math font, use the option `onlytext` as explained in Section 3. You can set L^AT_EX to use the standard sans-serif font (`\sfdefault`, being Auto 1™ after loading Auto1) as standard font throughout the whole document by

```
\renewcommand\familydefault{\sfdefault}
```

Samples of the Auto 1™ can be found in appendix A.

Encoding and kerning

Note that, as usual with OT1 encoded fonts, kerning (and ligatures) with accented characters are treated poorly, if at all. Note difference in kerning between

OT1 -encoded: To Ta T \acute{e} ,
 LY1 -encoded: To Ta T \acute{e} .

It is therefore advised to always use the `Auto1` package in either LY1 or T1 encoding. This is the default configuration. Also note that certain common symbols such as `\texteuro` (€) and `\textyen` (¥) are only available in LY1 encoding.

2 Interference with other fonts

In its light variant (see options below), the package redefines $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ default weights for regular and bold text `\mddefault`, `\bfdefault` to `l`, `b`, which differs from the default `m`, `bx`. When `Auto 1™` is used in conjunction with other fonts, their weights will hence also be adjusted. If the other font does *not* include a `b` weight, for example, $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ may fall back to a non-bold alternative.

In the regular variant of `Auto 1™`, the default weights are employed.

3 Options

The default settings are marked with an asterisk*.

Font selection

The following options specify which version of the font you prefer to use.

<code>regular*</code>	use regular face
<code>light</code>	use light face

The package also provides a way to only change the text fonts or only the math fonts.

<code>onlytext</code>	only change the text fonts
<code>onlymath</code>	only change the math fonts

Figure selection

`Auto 1™` offers two different figure versions. A detailed description is given in Section 4. The default version can be selected by the following options:

<code>textosf</code>	use text figures in text mode
<code>mathosf</code>	use text figures in math mode
<code>osf*</code>	use text figures in text and math mode
<code>textlf</code>	use lining figures in text mode
<code>mathlf</code>	use lining figures in math mode
<code>lf</code>	use lining figures in text and math mode

Font scaling

The font can be up- and downscaled by any factor. This can be used to make Auto 1™ more friendly when used in company with other type faces, e.g., to adapt the the x-height.

scaled=1.0* scale the font by a factor 1.0 (any positive real number permitted)

To preserve the characteristics of the font, it is recommended to downscale by no less than a factor of 0.95, and upscale by no more than a factor of 1.05.

4 Figure selection

Auto 1™ offers two different figure versions. One can choose between *text figures* (lowercase figures) and *lining figures* (uppercase figures); both variants ship only in their proportional variants, tabular variants are *not* provided.

	text figures	lining figures
proportional	o123456789 €\$¥	O123456789 €\$¥

The `\figureversion` command of the `fontaxes` package (part of the `MinionPro` package) can be used to switch between different figure versions. Possible parameters are:

text, osf	text figures
lining, lf	lining figures

5 NFSS classification

Parenthesised combinations are provided via substitutions.

encoding	family	series	shape
OT1, T1, LY1	Auto1-LF, Auto1-0sF	m, eb (bx), l, b	n, it (sl), sc, si

6 Version history

Version 0.2: Added LY1 encoding, scaling

Version 0.1: Initial release

A Font samples

See table 1 for samples of all weights and variants of Auto 1™.

Regular weight with black highlight

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac **turpis egestas**. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Light weight with bold highlight

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac **turpis egestas**. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

weight	shape	sample
light	upright	The quick brown fox jumps over the lazy dog. 0123456789 ff fl fi To AV é à ä ö ü ï œ æ ß € \$ ¥ - - — ¿ ? % & @
	italic	<i>The quick brown fox jumps over the lazy dog. 0123456789</i> <i>ff fl fi To AV é à ä ö ü ï œ æ ß € \$ ¥ - - — ¿ ? % & @</i>
	small caps	THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG. 0123456789 FF FL FI TO AV É À Ä Ö Ü Ï Œ Æ SS € \$ ¥ - - — ¿ ? % & @
	italic small caps	<i>THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG. 0123456789</i> <i>FF FL FI TO AV É À Ä Ö Ü Ï Œ Æ SS € \$ ¥ - - — ¿ ? % & @</i>
regular	upright	The quick brown fox jumps over the lazy dog. 0123456789 ff fl fi To AV é à ä ö ü ï œ æ ß € \$ ¥ - - — ¿ ? % & @
	italic	<i>The quick brown fox jumps over the lazy dog. 0123456789</i> <i>ff fl fi To AV é à ä ö ü ï œ æ ß € \$ ¥ - - — ¿ ? % & @</i>
	small caps	THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG. 0123456789 FF FL FI TO AV É À Ä Ö Ü Ï Œ Æ SS € \$ ¥ - - — ¿ ? % & @
	italic small caps	<i>THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG. 0123456789</i> <i>FF FL FI TO AV É À Ä Ö Ü Ï Œ Æ SS € \$ ¥ - - — ¿ ? % & @</i>
bold	upright	The quick brown fox jumps over the lazy dog. 0123456789 ff fl fi To AV é à ä ö ü ï œ æ ß € \$ ¥ - - — ¿ ? % & @
	italic	<i>The quick brown fox jumps over the lazy dog. 0123456789</i> <i>ff fl fi To AV é à ä ö ü ï œ æ ß € \$ ¥ - - — ¿ ? % & @</i>
	small caps	THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG. 0123456789 FF FL FI TO AV É À Ä Ö Ü Ï Œ Æ SS € \$ ¥ - - — ¿ ? % & @
	italic small caps	<i>THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG. 0123456789</i> <i>FF FL FI TO AV É À Ä Ö Ü Ï Œ Æ SS € \$ ¥ - - — ¿ ? % & @</i>
black	upright	The quick brown fox jumps over the lazy dog. 0123456789 ff fl fi To AV é à ä ö ü ï œ æ ß € \$ ¥ - - — ¿ ? % & @
	italic	<i>The quick brown fox jumps over the lazy dog. 0123456789</i> <i>ff fl fi To AV é à ä ö ü ï œ æ ß € \$ ¥ - - — ¿ ? % & @</i>
	small caps	THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG. 0123456789 FF FL FI TO AV É À Ä Ö Ü Ï Œ Æ SS € \$ ¥ - - — ¿ ? % & @
	italic small caps	<i>THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG. 0123456789</i> <i>FF FL FI TO AV É À Ä Ö Ü Ï Œ Æ SS € \$ ¥ - - — ¿ ? % & @</i>

Table 1: Samples of all the available weights. Note that all regular and italic versions are available with old-style figures as well.

B Implementation

B.1 The main style file

```
1 (*style)
2
3 \RequirePackage[T1,LY1]{fontenc}
4
```

Options

If possible, pull in the `xkeyval` package for handling of the `scaling` argument. Using `\DeclareOptionX` instead of `\DeclareOption` makes it possible to pass values to options.

```
5 \IfFileExists{xkeyval.sty}{
6   \newcommand*\AutoOne@scale}{1}
7   \RequirePackage{xkeyval}
8   \DeclareOptionX{scaled}{\renewcommand*\AutoOne@scale}{##1}}
9 }{
10  \let\DeclareOptionX\DeclareOption
11  \let\ExecuteOptionsX\ExecuteOptions
12  \let\ProcessOptionsX\ProcessOptions
13 }
14
15 \newif\if@AutoOne@Text@
16 \newif\if@AutoOne@Math@
17 \@AutoOne@Text@true
18 \@AutoOne@Math@true
19 \DeclareOptionX{onlytext}{\@AutoOne@Text@true\@AutoOne@Math@false}
20 \DeclareOptionX{onlymath}{\@AutoOne@Text@false\@AutoOne@Math@true}
21
```

Figure style Define options for lining figures (`lf`) and old-style figures (`osf`), and offer more fine-grained control over figure styles in text vs. math mode.

```
22 \DeclareOptionX{textlf}{\def\AutoOne@Text@Fig{-LF}}
23 \DeclareOptionX{mathlf}{\def\AutoOne@Math@Fig{-LF}}
24 \DeclareOptionX{lf}{\ExecuteOptionsX{textlf,mathlf}}
```

Options for old-style figures:

```
25 \DeclareOptionX{textosf}{\def\AutoOne@Text@Fig{-OsF}}
26 \DeclareOptionX{mathosf}{\def\AutoOne@Math@Fig{-OsF}}
27 \DeclareOptionX{osf}{\ExecuteOptionsX{textosf,mathosf}}
```

Use old-style figures (`osf`) by default.

```
28 \ExecuteOptionsX{osf}
29
```

Define variables for text and math family.

```
30 \newcommand\AutoOne@Text@Family{Auto1\AutoOne@Text@Fig}
31 \newcommand\AutoOne@Math@Family{Auto1\AutoOne@Math@Fig}
32
```

Weight options Declare options. Regular weights go with ‘black’ (eb) as bold variant (see [1]); eb is however ssued to bx to enhance compatibility with other fonts; bx is the default bold font, so redefining the `\bfdefault` family will do nothing unexpected here.

```
33 \DeclareOptionX{regular}{
34   \def\AutoOne@Text@Regular{m}
35   \def\AutoOne@Text@Bold{bx}
36 }
```

Declare options. Lights weights go with ‘bold extended’ as bold variant (see [1]).

```
37 \DeclareOptionX{light}{
38   \def\AutoOne@Text@Regular{l}
39   \def\AutoOne@Text@Bold{b}
40 }
```

Use the regular weight variant as default.

```
41 \ExecuteOptionsX{regular}
42
```

Defaults It is actually somewhat disputable to redeclare `\mddefault` and `\bfdefault` here, as when `Auto 1™` is used together with other fonts that might not have the `\AutoOne@Text@Regular` and `\AutoOne@Text@Bold` shapes, defaults will get substituted which might not match. This is particularly often the case for bold shape of regular `Auto 1™`, eb (black).

A different solution which would include no redeclarations of the default weights is to create two distinct font families, `fa1-regular` and `fa1-light`, both of which declare the (standard) `m` and `bx` weights.

```
43 \renewcommand\mddefault{\AutoOne@Text@Regular}
44 \renewcommand\bfdefault{\AutoOne@Text@Bold}
45
46 \ProcessOptionsX\relax
47
```

By default, `Auto 1™` is declared the standard font for sans-serif text.

```
48 \if@AutoOne@Text@
49   \renewcommand*\sfdefault{\AutoOne@Text@Family}
50 \fi
51
```

Font declarations

Math fonts Redefine the standard math versions normal and bold.

```
52 \if@AutoOne@Math@
53   \newcommand\AutoOne@Math@LetterShape{it}
54   \DeclareSymbolFont{operators} {OT1} {\AutoOne@Math@Family}{\AutoOne@Text@Regular} {n}
55 %   \DeclareSymbolFont{letters} {OML}{MinionPro-T0sF} {m} {\AutoOne@Math@LetterShape}
56   \DeclareSymbolFont{letters} {T1} {\AutoOne@Math@Family}{\AutoOne@Text@Regular} {\AutoOne@Math@LetterShape}
57   \SetSymbolFont{operators}{bold}{OT1}{\AutoOne@Math@Family}{\AutoOne@Text@Bold}{n}
58 %   \SetSymbolFont{letters} {bold}{OML}{MinionPro-T0sF} {eb}{\AutoOne@Math@LetterShape}
59   \SetSymbolFont{letters} {bold}{T1} {\AutoOne@Math@Family}{\AutoOne@Text@Bold}{\AutoOne@Math@LetterShape}
60   \DeclareMathAlphabet\mathbf {T1} {\AutoOne@Math@Family}{\AutoOne@Text@Bold}{n}
61   \DeclareMathAlphabet\mathit {T1} {\AutoOne@Math@Family}{\AutoOne@Text@Regular}{it}
62   \SetMathAlphabet\mathit {bold}{T1} {\AutoOne@Math@Family}{\AutoOne@Text@Bold}{it}
63   \DeclareMathAccent{\grave} {\mathalpha}{operators}{0}
64   \DeclareMathAccent{\acute} {\mathalpha}{operators}{1}
```

```

65 \DeclareMathAccent{\hat}      {\mathalpha}{operators}{2}
66 \DeclareMathAccent{\tilde}   {\mathalpha}{operators}{3}
67 \DeclareMathAccent{\ddot}    {\mathalpha}{operators}{4}
68 \DeclareMathAccent{\mathring}{\mathalpha}{operators}{6}
69 \DeclareMathAccent{\check}   {\mathalpha}{operators}{7}
70 \DeclareMathAccent{\breve}   {\mathalpha}{operators}{8}
71 \DeclareMathAccent{\bar}     {\mathalpha}{operators}{9}
72 \DeclareMathAccent{\dot}     {\mathalpha}{operators}{10}
73 \fi
74 \end{style}

```

B.2 The font definition files

LY1 (T_EX 'n ANSI) encoding with old-style figures

Handle the scaling argument.

```

75 (*LY1 - OsF)
76
77 \expandafter\ifx\csname AutoOne@scale\endcsname\relax
78   \let\AutoOne@@scale\@empty
79 \else
80   \edef\AutoOne@@scale{s*[\csname AutoOne@scale\endcsname]}%
81 \fi
82

```

Define the fonts.

```

83 \DeclareFontFamily{LY1}{Auto1-OsF}{}
84
85 \DeclareFontShape{LY1}{Auto1-OsF}{b}{it}{ <-> \AutoOne@@scale Underware-Auto1-Bold-Italic=OsF-TeXnANSI }{}
86 \DeclareFontShape{LY1}{Auto1-OsF}{b}{n}{ <-> \AutoOne@@scale Underware-Auto1-Bold-OsF-TeXnANSI }{}
87 \DeclareFontShape{LY1}{Auto1-OsF}{b}{sc}{ <-> \AutoOne@@scale Underware-Auto1-Bold-SmallCaps=OsF-TeXnANSI }{}
88 \DeclareFontShape{LY1}{Auto1-OsF}{b}{si}{ <-> \AutoOne@@scale Underware-Auto1-Bold-Italic=SmallCaps=OsF-TeXnANSI }{}
89 \DeclareFontShape{LY1}{Auto1-OsF}{eb}{it}{ <-> \AutoOne@@scale Underware-Auto1-Black-Italic=OsF-TeXnANSI }{}
90 \DeclareFontShape{LY1}{Auto1-OsF}{eb}{n}{ <-> \AutoOne@@scale Underware-Auto1-Black-OsF-TeXnANSI }{}
91 \DeclareFontShape{LY1}{Auto1-OsF}{eb}{sc}{ <-> \AutoOne@@scale Underware-Auto1-Black-SmallCaps=OsF-TeXnANSI }{}
92 \DeclareFontShape{LY1}{Auto1-OsF}{eb}{si}{ <-> \AutoOne@@scale Underware-Auto1-Black-Italic=SmallCaps=OsF-TeXnANSI }{}
93 \DeclareFontShape{LY1}{Auto1-OsF}{l}{it}{ <-> \AutoOne@@scale Underware-Auto1-Light-Italic=OsF-TeXnANSI }{}
94 \DeclareFontShape{LY1}{Auto1-OsF}{l}{n}{ <-> \AutoOne@@scale Underware-Auto1-Light-OsF-TeXnANSI }{}
95 \DeclareFontShape{LY1}{Auto1-OsF}{l}{sc}{ <-> \AutoOne@@scale Underware-Auto1-Light-SmallCaps=OsF-TeXnANSI }{}
96 \DeclareFontShape{LY1}{Auto1-OsF}{l}{si}{ <-> \AutoOne@@scale Underware-Auto1-Light-Italic=SmallCaps=OsF-TeXnANSI }{}
97 \DeclareFontShape{LY1}{Auto1-OsF}{m}{it}{ <-> \AutoOne@@scale Underware-Auto1-Italic=OsF-TeXnANSI }{}
98 \DeclareFontShape{LY1}{Auto1-OsF}{m}{n}{ <-> \AutoOne@@scale Underware-Auto1-OsF-TeXnANSI }{}
99 \DeclareFontShape{LY1}{Auto1-OsF}{m}{sc}{ <-> \AutoOne@@scale Underware-Auto1-SmallCaps=OsF-TeXnANSI }{}
100 \DeclareFontShape{LY1}{Auto1-OsF}{m}{si}{ <-> \AutoOne@@scale Underware-Auto1-Italic=SmallCaps=OsF-TeXnANSI }{}
101

```

Substitute slanted versions (sl) for italics.

```

102 \DeclareFontShape{LY1}{Auto1-OsF}{b}{sl}{ <-> ssub * Auto1-OsF/b/it }{}
103 \DeclareFontShape{LY1}{Auto1-OsF}{eb}{sl}{ <-> ssub * Auto1-OsF/eb/it }{}
104 \DeclareFontShape{LY1}{Auto1-OsF}{l}{sl}{ <-> ssub * Auto1-OsF/l/it }{}
105 \DeclareFontShape{LY1}{Auto1-OsF}{m}{sl}{ <-> ssub * Auto1-OsF/m/it }{}

```

Let bold extended (bx) be an alias for black (b).

```

106 \DeclareFontShape{LY1}{Auto1-OsF}{bx}{it}{ <-> ssub * Auto1-OsF/eb/it }{}

```



```

107 \DeclareFontShape{LY1}{Auto1-OsF}{bx}{sl}{ <-> ssub * Auto1-OsF/bx/it }{}
108 \DeclareFontShape{LY1}{Auto1-OsF}{bx}{n} { <-> ssub * Auto1-OsF/eb/n }{}
109 \DeclareFontShape{LY1}{Auto1-OsF}{bx}{sc}{ <-> ssub * Auto1-OsF/eb/sc }{}
110 \DeclareFontShape{LY1}{Auto1-OsF}{bx}{si}{ <-> ssub * Auto1-OsF/eb/si }{}
111 //LY1 - OsF)

```

LY1 (TeX 'n ANSI) encoding with lining figures

Handle the scaling argument.

```

112 (*LY1 - LF)
113
114 \expandafter\ifx\csname AutoOne@scale\endcsname\relax
115   \let\AutoOne@@scale\@empty
116 \else
117   \edef\AutoOne@@scale{s*[\csname AutoOne@scale\endcsname]}%
118 \fi
119

```

Define the fonts.

```

120 \DeclareFontFamily{LY1}{Auto1-LF}{}
121
122 \DeclareFontShape{LY1}{Auto1-LF}{b} {it}{ <-> \AutoOne@@scale Underware-Auto1-Bold-Italic=LF-TeXnANSI }{}
123 \DeclareFontShape{LY1}{Auto1-LF}{b} {n} { <-> \AutoOne@@scale Underware-Auto1-Bold-LF-TeXnANSI }{}
124 \DeclareFontShape{LY1}{Auto1-LF}{eb}{it}{ <-> \AutoOne@@scale Underware-Auto1-Black-Italic=LF-TeXnANSI }{}
125 \DeclareFontShape{LY1}{Auto1-LF}{eb}{n} { <-> \AutoOne@@scale Underware-Auto1-Black-LF-TeXnANSI }{}
126 \DeclareFontShape{LY1}{Auto1-LF}{l} {it}{ <-> \AutoOne@@scale Underware-Auto1-Light-Italic=LF-TeXnANSI }{}
127 \DeclareFontShape{LY1}{Auto1-LF}{l} {n} { <-> \AutoOne@@scale Underware-Auto1-Light-LF-TeXnANSI }{}
128 \DeclareFontShape{LY1}{Auto1-LF}{m} {it}{ <-> \AutoOne@@scale Underware-Auto1-Italic=LF-TeXnANSI }{}
129 \DeclareFontShape{LY1}{Auto1-LF}{m} {n} { <-> \AutoOne@@scale Underware-Auto1-LF-TeXnANSI }{}
130

```

Substitute small caps (sc) and italic small caps (si) by their old-style figure equivalents. Small caps only ship in one font variant anyway.

```

131
132 \DeclareFontShape{LY1}{Auto1-LF}{b} {sc}{ <-> ssub * Auto1-OsF/b/sc }{}
133 \DeclareFontShape{LY1}{Auto1-LF}{b} {si}{ <-> ssub * Auto1-OsF/b/si }{}
134 \DeclareFontShape{LY1}{Auto1-LF}{eb}{sc}{ <-> ssub * Auto1-OsF/eb/sc }{}
135 \DeclareFontShape{LY1}{Auto1-LF}{eb}{si}{ <-> ssub * Auto1-OsF/eb/si }{}
136 \DeclareFontShape{LY1}{Auto1-LF}{l} {sc}{ <-> ssub * Auto1-OsF/l/sc }{}
137 \DeclareFontShape{LY1}{Auto1-LF}{l} {si}{ <-> ssub * Auto1-OsF/l/si }{}
138 \DeclareFontShape{LY1}{Auto1-LF}{m} {sc}{ <-> ssub * Auto1-OsF/m/sc }{}
139 \DeclareFontShape{LY1}{Auto1-LF}{m} {si}{ <-> ssub * Auto1-OsF/m/si }{}
140

```

Substitute slanted versions (sl) for italics.

```

141 \DeclareFontShape{LY1}{Auto1-LF}{b} {sl}{ <-> ssub * Auto1-LF/b/it }{}
142 \DeclareFontShape{LY1}{Auto1-LF}{eb}{sl}{ <-> ssub * Auto1-LF/eb/it }{}
143 \DeclareFontShape{LY1}{Auto1-LF}{l} {sl}{ <-> ssub * Auto1-LF/l/it }{}
144 \DeclareFontShape{LY1}{Auto1-LF}{m} {sl}{ <-> ssub * Auto1-LF/m/it }{}

```

Let bold extended (bx) be an alias for black (eb).

```

145 \DeclareFontShape{LY1}{Auto1-LF}{bx}{it}{ <-> ssub * Auto1-LF/eb/it }{}
146 \DeclareFontShape{LY1}{Auto1-LF}{bx}{sl}{ <-> ssub * Auto1-LF/bx/it }{}
147 \DeclareFontShape{LY1}{Auto1-LF}{bx}{n} { <-> ssub * Auto1-LF/eb/n }{}
148 \DeclareFontShape{LY1}{Auto1-LF}{bx}{sc}{ <-> ssub * Auto1-LF/eb/sc }{}

```

```

149 \DeclareFontShape{LY1}{Auto1-LF}{bx}{si}{ <-> ssub * Auto1-LF/eb/si }{}
150 \LY1 - LF)

```

OT1 (T_EX text) encoding with old-style figures

Handle the scaling argument.

```

151 (*OT1 - OsF)
152
153 \expandafter\ifx\csname AutoOne@scale\endcsname\relax
154   \let\AutoOne@@scale\@empty
155 \else
156   \edef\AutoOne@@scale{s*[\csname AutoOne@scale\endcsname]}%
157 \fi
158

```

Define the fonts.

```

159 \DeclareFontFamily{OT1}{Auto1-OsF}{}
160
161 \DeclareFontShape{OT1}{Auto1-OsF}{b}{it}{ <-> \AutoOne@@scale Underware-Auto1-Bold-Italic=OsF-TeXText }{}
162 \DeclareFontShape{OT1}{Auto1-OsF}{b}{n}{ <-> \AutoOne@@scale Underware-Auto1-Bold-OsF-TeXText }{}
163 \DeclareFontShape{OT1}{Auto1-OsF}{b}{sc}{ <-> \AutoOne@@scale Underware-Auto1-Bold-SmallCaps=OsF-TeXText }{}
164 \DeclareFontShape{OT1}{Auto1-OsF}{b}{si}{ <-> \AutoOne@@scale Underware-Auto1-Bold-Italic=SmallCaps=OsF-TeXText }{}
165 \DeclareFontShape{OT1}{Auto1-OsF}{eb}{it}{ <-> \AutoOne@@scale Underware-Auto1-Black-Italic=OsF-TeXText }{}
166 \DeclareFontShape{OT1}{Auto1-OsF}{eb}{n}{ <-> \AutoOne@@scale Underware-Auto1-Black-OsF-TeXText }{}
167 \DeclareFontShape{OT1}{Auto1-OsF}{eb}{sc}{ <-> \AutoOne@@scale Underware-Auto1-Black-SmallCaps=OsF-TeXText }{}
168 \DeclareFontShape{OT1}{Auto1-OsF}{eb}{si}{ <-> \AutoOne@@scale Underware-Auto1-Black-Italic=SmallCaps=OsF-TeXText }{}
169 \DeclareFontShape{OT1}{Auto1-OsF}{l}{it}{ <-> \AutoOne@@scale Underware-Auto1-Light-Italic=OsF-TeXText }{}
170 \DeclareFontShape{OT1}{Auto1-OsF}{l}{n}{ <-> \AutoOne@@scale Underware-Auto1-Light-OsF-TeXText }{}
171 \DeclareFontShape{OT1}{Auto1-OsF}{l}{sc}{ <-> \AutoOne@@scale Underware-Auto1-Light-SmallCaps=OsF-TeXText }{}
172 \DeclareFontShape{OT1}{Auto1-OsF}{l}{si}{ <-> \AutoOne@@scale Underware-Auto1-Light-Italic=SmallCaps=OsF-TeXText }{}
173 \DeclareFontShape{OT1}{Auto1-OsF}{m}{it}{ <-> \AutoOne@@scale Underware-Auto1-Italic=OsF-TeXText }{}
174 \DeclareFontShape{OT1}{Auto1-OsF}{m}{n}{ <-> \AutoOne@@scale Underware-Auto1-OsF-TeXText }{}
175 \DeclareFontShape{OT1}{Auto1-OsF}{m}{sc}{ <-> \AutoOne@@scale Underware-Auto1-SmallCaps=OsF-TeXText }{}
176 \DeclareFontShape{OT1}{Auto1-OsF}{m}{si}{ <-> \AutoOne@@scale Underware-Auto1-Italic=SmallCaps=OsF-TeXText }{}
177

```

Substitute slanted versions (sl) for italics.

```

178 \DeclareFontShape{OT1}{Auto1-OsF}{b}{sl}{ <-> ssub * Auto1-OsF/b/it }{}
179 \DeclareFontShape{OT1}{Auto1-OsF}{eb}{sl}{ <-> ssub * Auto1-OsF/eb/it }{}
180 \DeclareFontShape{OT1}{Auto1-OsF}{l}{sl}{ <-> ssub * Auto1-OsF/l/it }{}
181 \DeclareFontShape{OT1}{Auto1-OsF}{m}{sl}{ <-> ssub * Auto1-OsF/m/it }{}
182

```

Let bold extended (bx) be an alias for black (eb).

```

183 \DeclareFontShape{OT1}{Auto1-OsF}{bx}{it}{ <-> ssub * Auto1-OsF/eb/it }{}
184 \DeclareFontShape{OT1}{Auto1-OsF}{bx}{sl}{ <-> ssub * Auto1-OsF/bx/it }{}
185 \DeclareFontShape{OT1}{Auto1-OsF}{bx}{n}{ <-> ssub * Auto1-OsF/eb/n }{}
186 \DeclareFontShape{OT1}{Auto1-OsF}{bx}{sc}{ <-> ssub * Auto1-OsF/eb/sc }{}
187 \DeclareFontShape{OT1}{Auto1-OsF}{bx}{si}{ <-> ssub * Auto1-OsF/eb/si }{}
188
189 \OT1 - OsF)

```

OT1 (T_EX text) encoding with lining figures

Handle the scaling argument.

```
190 (*OT1 - LF)
191
192 \expandafter\ifx\csname AutoOne@scale\endcsname\relax
193   \let\AutoOne@@scale\@empty
194 \else
195   \edef\AutoOne@@scale{s*[\csname AutoOne@scale\endcsname]}%
196 \fi
197
```

Define the fonts.

```
198 \DeclareFontFamily{OT1}{Auto1-LF}{}
199
200 \DeclareFontShape{OT1}{Auto1-LF}{b}{it}{ <-> \AutoOne@@scale Underware-Auto1-Bold-Italic=LF-TeXText }{}
201 \DeclareFontShape{OT1}{Auto1-LF}{b}{n}{ <-> \AutoOne@@scale Underware-Auto1-Bold-LF-TeXText }{}
202 \DeclareFontShape{OT1}{Auto1-LF}{eb}{it}{ <-> \AutoOne@@scale Underware-Auto1-Black-Italic=LF-TeXText }{}
203 \DeclareFontShape{OT1}{Auto1-LF}{eb}{n}{ <-> \AutoOne@@scale Underware-Auto1-Black-LF-TeXText }{}
204 \DeclareFontShape{OT1}{Auto1-LF}{l}{it}{ <-> \AutoOne@@scale Underware-Auto1-Light-Italic=LF-TeXText }{}
205 \DeclareFontShape{OT1}{Auto1-LF}{l}{n}{ <-> \AutoOne@@scale Underware-Auto1-Light-LF-TeXText }{}
206 \DeclareFontShape{OT1}{Auto1-LF}{m}{it}{ <-> \AutoOne@@scale Underware-Auto1-Italic=LF-TeXText }{}
207 \DeclareFontShape{OT1}{Auto1-LF}{m}{n}{ <-> \AutoOne@@scale Underware-Auto1-LF-TeXText }{}
208
```

Substitute small caps (sc) and italic small caps (si) by their old-style figure equivalents. Small caps only ship in one font variant anyway.

```
209 \DeclareFontShape{OT1}{Auto1-LF}{b}{sc}{ <-> ssub * Auto1-0sF/b/sc }{}
210 \DeclareFontShape{OT1}{Auto1-LF}{b}{si}{ <-> ssub * Auto1-0sF/b/si }{}
211 \DeclareFontShape{OT1}{Auto1-LF}{eb}{sc}{ <-> ssub * Auto1-0sF/eb/sc }{}
212 \DeclareFontShape{OT1}{Auto1-LF}{eb}{si}{ <-> ssub * Auto1-0sF/eb/si }{}
213 \DeclareFontShape{OT1}{Auto1-LF}{l}{sc}{ <-> ssub * Auto1-0sF/l/sc }{}
214 \DeclareFontShape{OT1}{Auto1-LF}{l}{si}{ <-> ssub * Auto1-0sF/l/si }{}
215 \DeclareFontShape{OT1}{Auto1-LF}{m}{sc}{ <-> ssub * Auto1-0sF/m/sc }{}
216 \DeclareFontShape{OT1}{Auto1-LF}{m}{si}{ <-> ssub * Auto1-0sF/m/si }{}
217
```

Substitute slanted versions (sl) for italics.

```
218 \DeclareFontShape{OT1}{Auto1-LF}{b}{sl}{ <-> ssub * Auto1-LF/b/it }{}
219 \DeclareFontShape{OT1}{Auto1-LF}{eb}{sl}{ <-> ssub * Auto1-LF/eb/it }{}
220 \DeclareFontShape{OT1}{Auto1-LF}{l}{sl}{ <-> ssub * Auto1-LF/l/it }{}
221 \DeclareFontShape{OT1}{Auto1-LF}{m}{sl}{ <-> ssub * Auto1-LF/m/it }{}
222
```

Let bold extended (bx) be an alias for black (eb).

```
223 \DeclareFontShape{OT1}{Auto1-LF}{bx}{it}{ <-> ssub * Auto1-LF/eb/it }{}
224 \DeclareFontShape{OT1}{Auto1-LF}{bx}{sl}{ <-> ssub * Auto1-LF/bx/it }{}
225 \DeclareFontShape{OT1}{Auto1-LF}{bx}{n}{ <-> ssub * Auto1-LF/eb/n }{}
226 \DeclareFontShape{OT1}{Auto1-LF}{bx}{sc}{ <-> ssub * Auto1-LF/eb/sc }{}
227 \DeclareFontShape{OT1}{Auto1-LF}{bx}{si}{ <-> ssub * Auto1-LF/eb/si }{}
228
229 \end{OT1 - LF}
```

T1 (Cork) encoding with old-style figures

Handle the scaling argument.

```
230 {*T1 - OsF)
231
232 \expandafter\ifx\csname AutoOne@scale\endcsname\relax
233   \let\AutoOne@@scale\@empty
234 \else
235   \edef\AutoOne@@scale{s*[\csname AutoOne@scale\endcsname]}%
236 \fi
237
```

Define the fonts.

```
238 \DeclareFontFamily{T1}{Auto1-OsF}{}
239
240 \DeclareFontShape{T1}{Auto1-OsF}{b}{it}{ <-> \AutoOne@@scale Underware-Auto1-Bold-Italic=OsF-Cork }{}
241 \DeclareFontShape{T1}{Auto1-OsF}{b}{n}{ <-> \AutoOne@@scale Underware-Auto1-Bold-OsF-Cork }{}
242 \DeclareFontShape{T1}{Auto1-OsF}{b}{sc}{ <-> \AutoOne@@scale Underware-Auto1-Bold-SmallCaps=OsF-Cork }{}
243 \DeclareFontShape{T1}{Auto1-OsF}{b}{si}{ <-> \AutoOne@@scale Underware-Auto1-Bold-Italic=SmallCaps=OsF-Cork }{}
244 \DeclareFontShape{T1}{Auto1-OsF}{eb}{it}{ <-> \AutoOne@@scale Underware-Auto1-Black-Italic=OsF-Cork }{}
245 \DeclareFontShape{T1}{Auto1-OsF}{eb}{n}{ <-> \AutoOne@@scale Underware-Auto1-Black-OsF-Cork }{}
246 \DeclareFontShape{T1}{Auto1-OsF}{eb}{sc}{ <-> \AutoOne@@scale Underware-Auto1-Black-SmallCaps=OsF-Cork }{}
247 \DeclareFontShape{T1}{Auto1-OsF}{eb}{si}{ <-> \AutoOne@@scale Underware-Auto1-Black-Italic=SmallCaps=OsF-Cork }{}
248 \DeclareFontShape{T1}{Auto1-OsF}{l}{it}{ <-> \AutoOne@@scale Underware-Auto1-Light-Italic=OsF-Cork }{}
249 \DeclareFontShape{T1}{Auto1-OsF}{l}{n}{ <-> \AutoOne@@scale Underware-Auto1-Light-OsF-Cork }{}
250 \DeclareFontShape{T1}{Auto1-OsF}{l}{sc}{ <-> \AutoOne@@scale Underware-Auto1-Light-SmallCaps=OsF-Cork }{}
251 \DeclareFontShape{T1}{Auto1-OsF}{l}{si}{ <-> \AutoOne@@scale Underware-Auto1-Light-Italic=SmallCaps=OsF-Cork }{}
252 \DeclareFontShape{T1}{Auto1-OsF}{m}{it}{ <-> \AutoOne@@scale Underware-Auto1-Italic=OsF-Cork }{}
253 \DeclareFontShape{T1}{Auto1-OsF}{m}{n}{ <-> \AutoOne@@scale Underware-Auto1-OsF-Cork }{}
254 \DeclareFontShape{T1}{Auto1-OsF}{m}{sc}{ <-> \AutoOne@@scale Underware-Auto1-SmallCaps=OsF-Cork }{}
255 \DeclareFontShape{T1}{Auto1-OsF}{m}{si}{ <-> \AutoOne@@scale Underware-Auto1-Italic=SmallCaps=OsF-Cork }{}
256
```

Substitute slanted versions (sl) for italics.

```
257 \DeclareFontShape{T1}{Auto1-OsF}{b}{sl}{ <-> ssub * Auto1-OsF/b/it }{}
258 \DeclareFontShape{T1}{Auto1-OsF}{eb}{sl}{ <-> ssub * Auto1-OsF/eb/it }{}
259 \DeclareFontShape{T1}{Auto1-OsF}{l}{sl}{ <-> ssub * Auto1-OsF/l/it }{}
260 \DeclareFontShape{T1}{Auto1-OsF}{m}{sl}{ <-> ssub * Auto1-OsF/m/it }{}
261
```

Let bold extended (bx) be an alias for black (eb).

```
262 \DeclareFontShape{T1}{Auto1-OsF}{bx}{it}{ <-> ssub * Auto1-OsF/eb/it }{}
263 \DeclareFontShape{T1}{Auto1-OsF}{bx}{sl}{ <-> ssub * Auto1-OsF/bx/it }{}
264 \DeclareFontShape{T1}{Auto1-OsF}{bx}{n}{ <-> ssub * Auto1-OsF/eb/n }{}
265 \DeclareFontShape{T1}{Auto1-OsF}{bx}{sc}{ <-> ssub * Auto1-OsF/eb/sc }{}
266 \DeclareFontShape{T1}{Auto1-OsF}{bx}{si}{ <-> ssub * Auto1-OsF/eb/si }{}
267
268 /T1 - OsF)
```

T1 (Cork) encoding with lining figures

Handle the scaling argument.

```
269 {*T1 - LF)
270
```

```

271 \expandafter\ifx\csname AutoOne@scale\endcsname\relax
272   \let\AutoOne@@scale\empty
273 \else
274   \edef\AutoOne@@scale{s*\csname AutoOne@scale\endcsname}%
275 \fi
276
Define the fonts.
277 \DeclareFontFamily{T1}{Auto1-LF}{}
278
279 \DeclareFontShape{T1}{Auto1-LF}{b}{it}{ <-> \AutoOne@@scale Underware-Auto1-Bold-Italic=LF-Cork }{}
280 \DeclareFontShape{T1}{Auto1-LF}{b}{n}{ <-> \AutoOne@@scale Underware-Auto1-Bold-LF-Cork }{}
281 \DeclareFontShape{T1}{Auto1-LF}{eb}{it}{ <-> \AutoOne@@scale Underware-Auto1-Black-Italic=LF-Cork }{}
282 \DeclareFontShape{T1}{Auto1-LF}{eb}{n}{ <-> \AutoOne@@scale Underware-Auto1-Black-LF-Cork }{}
283 \DeclareFontShape{T1}{Auto1-LF}{l}{it}{ <-> \AutoOne@@scale Underware-Auto1-Light-Italic=LF-Cork }{}
284 \DeclareFontShape{T1}{Auto1-LF}{l}{n}{ <-> \AutoOne@@scale Underware-Auto1-Light-LF-Cork }{}
285 \DeclareFontShape{T1}{Auto1-LF}{m}{it}{ <-> \AutoOne@@scale Underware-Auto1-Italic=LF-Cork }{}
286 \DeclareFontShape{T1}{Auto1-LF}{m}{n}{ <-> \AutoOne@@scale Underware-Auto1-LF-Cork }{}
287

```

Substitute small caps (sc) and italic small caps (si) by their old-style figure equivalents. Small caps only ship in one font variant anyway.

```

288 \DeclareFontShape{T1}{Auto1-LF}{b}{sc}{ <-> ssub * Auto1-OsF/b/sc }{}
289 \DeclareFontShape{T1}{Auto1-LF}{b}{si}{ <-> ssub * Auto1-OsF/b/si }{}
290 \DeclareFontShape{T1}{Auto1-LF}{eb}{sc}{ <-> ssub * Auto1-OsF/eb/sc }{}
291 \DeclareFontShape{T1}{Auto1-LF}{eb}{si}{ <-> ssub * Auto1-OsF/eb/si }{}
292 \DeclareFontShape{T1}{Auto1-LF}{l}{sc}{ <-> ssub * Auto1-OsF/l/sc }{}
293 \DeclareFontShape{T1}{Auto1-LF}{l}{si}{ <-> ssub * Auto1-OsF/l/si }{}
294 \DeclareFontShape{T1}{Auto1-LF}{m}{sc}{ <-> ssub * Auto1-OsF/m/sc }{}
295 \DeclareFontShape{T1}{Auto1-LF}{m}{si}{ <-> ssub * Auto1-OsF/m/si }{}
296

```

Substitute slanted versions (sl) for italics.

```

297 \DeclareFontShape{T1}{Auto1-LF}{b}{sl}{ <-> ssub * Auto1-LF/b/it }{}
298 \DeclareFontShape{T1}{Auto1-LF}{eb}{sl}{ <-> ssub * Auto1-LF/eb/it }{}
299 \DeclareFontShape{T1}{Auto1-LF}{l}{sl}{ <-> ssub * Auto1-LF/l/it }{}
300 \DeclareFontShape{T1}{Auto1-LF}{m}{sl}{ <-> ssub * Auto1-LF/m/it }{}
301

```

Let bold extended (bx) be an alias for black (eb).

```

302 \DeclareFontShape{T1}{Auto1-LF}{bx}{it}{ <-> ssub * Auto1-LF/eb/it }{}
303 \DeclareFontShape{T1}{Auto1-LF}{bx}{sl}{ <-> ssub * Auto1-LF/bx/it }{}
304 \DeclareFontShape{T1}{Auto1-LF}{bx}{n}{ <-> ssub * Auto1-LF/eb/n }{}
305 \DeclareFontShape{T1}{Auto1-LF}{bx}{sc}{ <-> ssub * Auto1-LF/eb/sc }{}
306 \DeclareFontShape{T1}{Auto1-LF}{bx}{si}{ <-> ssub * Auto1-LF/eb/si }{}
307
308 </T1 - LF>

```

References

- [1] Underware. *Auto, a triple-italic sans serif. Weight contrasts*. URL: <http://www.underware.nl/site2/index.php?id1=auto&id2=weightcontrasts>.
- [2] Underware. *Auto, a triple-italic sans serif*. URL: <http://www.underware.nl/site2/index.php?id1=auto&id2=overview>.