Algol Revived

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AlgolRevived is a revival of the (photo)font Algol by Adrian Frutiger whose sole use was for printing ALGOL code in a manual. It is not meant to be a general purpose text font—the spacing is not optimized for that, being designed instead for printing computer code, where each letter should be distinct and text ligatures are banished. It seems to work well with the listings package, designed for exactly that purpose. Unusually for such a font, it is not monospaced, though perhaps this is no longer the issue it was in the days of FORTRAN.

Nonetheless, if you don’t object to a typewritten appearance, I think the font doesn’t really look as bad as you might think it should. (This document uses it as its main text font.)

Both opentype and type1 fonts are provided, along with LaTeX support files. Most characters in the T1 encoding are provided, except for f-ligatures and the Sami characters Eng, eng.

Use with fontspec

The package provides algolrevived.fontspec, with contents:

\defaultfontfeatures[algolrevived]
{
Extension = .otf,
UprightFont = AlgolRevived ,
BoldFont = AlgolRevived-Medium ,
BoldItalicFont = AlgolRevived-MediumSlanted ,
ItalicFont = AlgolRevived-Slanted ,
}

which allows you to set up your preamble using simply

...\usepackage{fontspec}
\setmainfont{algolrevived} % for use as main font
%\setmonofont{algolrevived} % for use as typewriter font only
...

Creation of this package was spurred by Barbara Beeton’s column in a recent TUGBoat, conveying a request from Jacques André for someone to digitize Frutiger’s Algol alphabet.
Use with LaTeX

The package offers OT1, LY1, T1 and TS1 encodings, and sets T1 as the default. To change to LY1, you will need something like

\usepackage[LY1]{fontenc}
\usepackage[tt]{a/l.Vargo/l.Varrevived}

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\usepackage[LY1]{fontenc}
\usepackage[tt]{a/l.Vargo/l.Varrevived}

AlgolRevived-tlf-t1.tfm:

\begin{verbatim}
\usepackage[LY1]{fontenc}
\usepackage[tt]{a/l.Vargo/l.Varrevived}
\end{verbatim}

```
AlgolRevived-tlf-t1.tfm:

<table>
<thead>
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</tbody>
</table>
```

The package has a few options and macros. The option `scaled=.95` or `scale=.95` renders at 95% of the default size, and option `medium` makes medium weight LaTeX's regular weight. Option `tt` species typewriter. The macros `{sufigures 9}` (same effect as `{textsu(9)}` render the figure as a superscript, ⁹, and similarly with `{infigures, textin}` for inferior figures.

The sty file requires textcomp so there is no need to load it separately. Textcomp adds the following glyphs. (The mathematical symbols in the otherwise vacant slots in positions 192 and up were mostly borrowed from the STIX math fonts, which use the same SIL OFL as this package. The names below were in those cases are the same as the STIX names, prefixed by "text".)

AlgolRevived-tlf-ts1.tfm:

<table>
<thead>
<tr>
<th>\texttt{00}</th>
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</thead>
<tbody>
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<td>9</td>
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<td>C</td>
<td>D</td>
</tr>
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<td>\texttt{2}</td>
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</tr>
</tbody>
</table>

<table>
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</tbody>
</table>

An example of usage within a document is shown below:

```
\begin{figure}[ht]
  \centering
  \includegraphics[width=0.5\textwidth]{example.png}
  \caption{A caption for the figure.}
  \label{fig:example}
\end{figure}
```

The figure as a superscript, \( Fig. \), is also included as shown below:

```
\footnotesize
\textsuperscript{\( Fig. \, \texttt{1} \) (same effect as \texttt{\textsuperscript{\( Fig. \) \texttt{9}}}) render the figure as a superscript, \( 9 \), and similarly with \texttt{\textsubscript{\( Fig. \)}} for inferior figures.}
```


| \(34x\) | \(\cap\) 224 | \(\cup\) 225 | \(\equiv\) 226 | \(\approx\) 227 | \(\neq\) 228 | \(\equiv\) 229 | \(\neq\) 230 | \(\leq\) 231 | "Ex" |
| \(35x\) | \(\geq\) 232 | \(\subset\) 233 | \(\supset\) 234 | \(\subseteq\) 235 | \(\supseteq\) 236 | \(\nsubseteq\) 237 | \(\nsubseteq\) 238 | \(\subseteq\) 239 | "Fx" |
| \(36x\) | \(\not\in\) 240 | \(\subseteq\) 241 | \(\supset\) 242 | \(\nsubseteq\) 243 | \(\subseteq\) 244 | \(\supseteq\) 245 | \(\not\supset\) 246 | \(\cup\) 247 | "Fx" |
| \(37x\) | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | |
List of LaTeX macros to access the TS1 symbols in text mode:

11 \textcapitalsetter{L}\textacuten{V}\textcedilla
12 \textcapitalsetter{L}\textacutenogonek
24 \textleftrightharpoons
25 \textrightharpoons
36 \textdollar
39 \textquotesing{L}
42 \textasteriskcentered
47 \textfrac{L}{Vidus}
61 \textminus
77 \textmho
79 \textbigcirc{L}
87 \textohm
91 \textlbrackdb{L}
93 \textrbrackdb{L}
94 \textuparrow
95 \textdownarrow
96 \textasciigrave
132 \textdagger
133 \textdaggerdbl{L}
134 \textbarb{L}
136 \textbullet
151 \texttrademark
162 \textcent
163 \textsterling
164 \textcurrency
165 \textyen
166 \textbrokenbar
167 \textsection
169 \textcopyright
170 \textordfeminine{L}
172 \textnot
174 \textregistered
176 \textdegree
177 \textpm
178 \texttwosuperior
179 \textthreesuperior
181 \textmu
182 \textparagraph
183 \textperiodcentered
184 \textcopyrightmark
185 \textonesuperior{L}
186 \textordmasculine{L}
191 \texteuro
192 \textprime
193 \textdprime
196 \textleftrightharpoons
197 \textupdownarrow
198 \textLeftarrow
199 \textUparrow
200 \textRightarrow
201 \textDownarrow
202 \textLeftrightarrow
203 \textforall
204 \textcomplement
205 \textpartial
206 \textexists
207 \textnexists
208 \textemptyset
209 \textincrement
210 \textnabla
211 \textin
212 \textnotin
213 \texttimes
214 \textni
215 \textnni
216 \textsetminus
217 \textand
218 \textor
219 \textcap
220 \textcup
221 \textneq
222 \textgeq
223 \textsubset
224 \textsupset
225 \textsubseteq
226 \textsupseteq
227 \textnequiv
228 \textequiv
229 \textln
230 \textlni
231 \textsmalllni
232 \textsmallsetminus
233 \textlargebullet
234 \textland
235 \textlor
236 \textcap
237 \textcup
238 \textcoloneq
239 \texteqcolon
240 \textneqcolon
241 \textleq
242 \textgeq
243 \textsubseteq
244 \textsupseteq
245 \textnsubseteq
246 \textnsubseteqq
247 \textsqsubset
248 \textsqsubsetq
249 \textsqsubseteq
250 \textsqcap
For example, typing in $A \div B$ results in $A \div B$. 