

The St Mary's Road symbol font

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1 Introduction

This is a brief guide to the St Mary's Road symbol font, a new symbol font for $\text{T}_{\text{E}}\text{X}$ and $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$. It is designed to live with the American Mathematical Society's fonts, contained in `amssymb.sty`.

It provides a number of new symbols, including ones for derivation of functional programming (such as Υ , \ddagger and \mathbb{M}), process algebra (\parallel , \square and ζ), domain theory (\prod), linear logic ($\&$ and \wp), multisets ($\langle x \rangle$, \mathbb{M} , and $\underline{\subseteq}$) and many more. It also fixes some 'features' with previous symbols (\oplus used not to be circular, now you can use \oplus instead) and adds obvious variants of others (such as \leftarrow , \Rightarrow and \Leftrightarrow). It is all wrapped up in a $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X} 2_{\epsilon}$ package called `stmaryrd`, which can be used by saying:

```
\usepackage{stmaryrd}
```

This package understands a large number of options:

- `heavycircles` says that all of the circular operators such as `\oplus` and `\otimes` should by default be heavy, and that `\varoplus` and `\varotimes` should refer to the light ones.
- `only` says that only the symbols listed in the option list should be defined. For example:

```
\usepackage[only,mapsfrom,Mapsto,Mapsfrom]{stmaryrd}
```

says that only the symbols ' \leftarrow ', ' \Rightarrow ' and ' \Leftrightarrow ' should be defined, which is useful if you use a $\text{T}_{\text{E}}\text{X}$ implementation with limited memory.

2 Symbols

The following operators are defined:

Υ <code>\Ydown</code>	\leftarrow <code>\Yleft</code>	\succ <code>\Yright</code>
\uparrow <code>\Yup</code>	$\bar{\phi}$ <code>\bar{\phi}</code>	\parallel <code>\bbslash</code>
$\&$ <code>\binampersand</code>	\wp <code>\bindnasrepma</code>	\boxast <code>\boxast</code>
\boxbar <code>\boxbar</code>	\boxbox <code>\boxbox</code>	\boxslash <code>\boxslash</code>
\boxcircle <code>\boxcircle</code>	\boxdot <code>\boxdot</code>	\boxempty <code>\boxempty</code>

\boxslash	\curlyveedownarrow	\curlyveeuparrow
\curlywedgedownarrow	\curlywedgeuparrow	\fatbslash
\fatsemi	\fatslash	\interleave
\leftslice	\merge	\minuso
\moo	\nplus	\obar
\oblong	\obslash	\ogreaterthan
\olessthan	\ovee	\owedge
\rightslice	\sslash	\talloblong
\varbigcirc	\varcurlyvee	\varcurlywedge
\varoast	\varobar	\varobslash
\varocircle	\varodot	\varogreaterthan
\varolessthan	\varominus	\varoplus
\varoslash	\varotimes	\varovee
\varowedge	\vartimes	

(CAR) Added by Chris Rowley, March 2004:

If the `amssymb` package has been loaded then the following are also defined: `\oast` and `\ocircle`. The following large operators are defined:

\bigbox	\bigcurlyvee	\bigcurlywedge
\biginterleave	\bignplus	\bigparallel
\bigsqcap	\bigtriangledown	\bigtriangleup

The following relations are defined:

\inplus	\niplus	\ntrianglelefteqslant
\ntrianglerighteqslant	\subsetplus	\subsetplusseq
\supsetplus	\supsetplusseq	\trianglelefteqslant
\trianglerighteqslant		

The following arrows are defined:

\Longmapsfrom	\Longmapsto	\Mapsfrom
\Mapsto	\leftarrowtriangle	\leftrightharpoonew
$\leftrightharpoonewtriangle$	\lightning	\longmapsfrom
\mapsfrom	\nearrow	\nwarrow
\rightarrowtriangle	\rrparenthesis	\shortdownarrow
\shortleftarrow	\shortrightarrow	\shortuparrow
\ssearrow	\sswarrow	

The following delimiters are defined:

\Lbag	\Rbag	\lbag
\llbracket	\llceil	\lllfloor
\llparenthesis	\rbag	\rrbracket
\rrceil	\rrfloor	

Note that `\llbracket` and `\rrbracket` are ‘growing’ delimiters that can be used with `\left` and `\right`:

$$\left[\mathcal{P} \right] \quad \left[\left[\mathcal{P} \right] \right] \quad \left[\left[\begin{matrix} a \oplus b \\ P_i \end{matrix} \right] \right]_{i \in I} \quad \left[\begin{matrix} a \\ b \\ c \end{matrix} \right] \quad \left[\begin{matrix} a \\ b \\ c \\ d \\ e \\ f \end{matrix} \right]$$

The following special characters are used in building others:

<code>\Arrownot</code>	<code>! \Mapsfromchar</code>	<code>! \Mapstochar</code>
<code>\arrownot</code>	<code>! \mapsfromchar</code>	

For example, if you type `$$\Arrownot\Rightarrow$` you get \Rightarrow , and if you type `$$\arrownot\rightarrowtriangle$` you get \rightarrowtriangle .

Acknowledgements

Thanks to David Murphy for suggestions in the design of the St Mary's Road font. Thanks to Martin Ward for the first pass of converting the `stmaryrd` package to $\LaTeX 2_{\epsilon}$. Thanks to Simon Mercer for all the wine at 45 St. Mary's Road.

Legal rubbish

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3 Installation

To begin with, the `stmaryrd` package is installed by running $\LaTeX 2_{\epsilon}$ on this document, so we begin with the installation procedure. This needs to use $\LaTeX 2_{\epsilon}$:

```
1 <*install>
2 \NeedsTeXFormat{LaTeX2e}
```

First of all, we write out a little `.ins` file which creates the `stmaryrd` package:

```
3 \begin{filecontents}{stmaryrd.ins}
4   \generateFile{stmaryrd.sty}{f}{
5     \from{stmaryrd.dtx}{package}}
6   \generateFile{Ustmry.fd}{f}{
7     \from{stmaryrd.dtx}{fontdef}}
8 \end{filecontents}
```

Then we do some horrible low-level hacks to run `docstrip` on `stmaryrd.ins`:

```
9 \bgroup
10  \makeatletter
11  \let\@end=\relax
12  \def\batchfile{stmaryrd.ins}
13  \input{docstrip}
14 \egroup
```

That's it for the installation:

```
15 </install>
```

4 Documentation

We now provide the documentation driver for this document:

```
16 (*driver)
17 \documentclass{ltxdoc}
18 \DisableCrossrefs
19 \OnlyDescription
20 \usepackage{stmaryrd}

\symbols Some hacks that are used in the documentation:
\endsymbols
\dosymbol 21 \def\symbols{\flushleft}
\test 22 \def\endsymbols{\endflushleft}
23 \def\dosymbol#1{\leavevmode\hbox to .33\textwidth{\hbox to 1.2em
24   {\hss#1$\hfil}\footnotesize\tt\string#1\hss}\penalty10}
25 \def\test#1{\par\leavevmode\llap{#1\tt\string#1:}
26   \rlap{#1$\left\llbracket\bigbox_{i \inplus I}^{\a \varoplus b} P_i
27   \right\rrbracket$}}
```

Then we produce the documentation:

```
28 \begin{document}
29   \DocInput{stmaryrd.dtx}
30 \end{document}
31 </driver>
```

5 The package

We can now implement the `stmaryrd` package.

```
32 (*package)
33 \NeedsTeXFormat{LaTeX2e}
34 \ProvidesPackage{stmaryrd}[1994/03/03 St Mary's Road symbol package]

\stmry@if Most definitions in this file are preceded by stm@if, which sets its second argument
to be undefined, and expands to \iftrue if its second argument is going to be
defined, for example:

\stmry@if\def\foo{baz}\fi

By default, this is always true.
35 \def\stmry@if#1#2{\let#2=\@undefined\iftrue#1#2}

\ds@only The only option causes \stmry@if to be true only when its second argument is
\stmry@only defined to be \relax.
36 \DeclareOption{only}{\let\stmry@if=\stmry@only}
37 \def\stmry@only#1#2{\ifx#2\relax\let#2=\@undefined#1#2}

\ds@heavycircles The heavycircles option makes sure all of the heavy circles are defined, and sets
\ifstmry@heavy@ \stmry@heavy@true.
38 \newif\ifstmry@heavy@
39 \stmry@heavy@false
40 \DeclareOption{heavycircles}{%
41   \stmry@option{varotimes}\stmry@option{varoast}%
```

```

42 \stmry@option{varobar}\stmry@option{varodot}%
43 \stmry@option{varoslash}\stmry@option{varobslash}%
44 \stmry@option{varocircle}\stmry@option{varoplus}%
45 \stmry@option{varominus}\stmry@option{varbigcirc}%
46 \stmry@heavy@true
47 }

```

`\stmry@option` For every other option, we call `\stmry@option`, which defines its argument to be `\relax`.

```

48 \def\stmry@option#1{\expandafter\let\csname#1\endcsname\relax}
49 \DeclareOption*{\stmry@option\CurrentOption}

```

`\ds@Mapsto` All of the other options for `stmaryrd` are command names. Some of the commands need others to be defined, so we declare these explicitly.

```

\ds@Mapsto
\ds@mapsfrom
\ds@Mapsfrom
\ds@longarrownot
\ds@Longarrownot
\ds@longmapsto
\ds@Longmapsto
\ds@longmapsfrom
\ds@Longmapsfrom
50 \DeclareOption{Mapsto}{%
51 \stmry@option{Mapsto}%
52 \stmry@option{Mapstochar}%
53 }
54 \DeclareOption{mapsfrom}{%
55 \stmry@option{mapsfrom}%
56 \stmry@option{mapsfromchar}%
57 }
58 \DeclareOption{Mapsfrom}{%
59 \stmry@option{Mapsfrom}%
60 \stmry@option{Mapsfromchar}%
61 }
62 \DeclareOption{longarrownot}{%
63 \stmry@option{longarrownot}%
64 \stmry@option{arrownot}%
65 }
66 \DeclareOption{Longarrownot}{%
67 \stmry@option{Longarrownot}%
68 \stmry@option{Arrownot}%
69 }
70 \DeclareOption{Longmapsto}{%
71 \stmry@option{Longmapsto}%
72 \stmry@option{Mapstochar}%
73 }
74 \DeclareOption{longmapsfrom}{%
75 \stmry@option{longmapsfrom}%
76 \stmry@option{mapsfromchar}%
77 }
78 \DeclareOption{Longmapsfrom}{%
79 \stmry@option{Longmapsfrom}%
80 \stmry@option{Mapsfromchar}%
81 }

```

Then we can process the options!

```
82 \ProcessOptions
```

Declare the symbol fonts:

```

83 \DeclareSymbolFont{stmry}{U}{stmry}{m}{n}
84 \SetSymbolFont{stmry}{bold}{U}{stmry}{b}{n}

```

Then we load those symbols!

```
85 \stmry@if\DeclareMathSymbol\shortleftarrow\mathrel{stmry}{00}\fi
86 \stmry@if\DeclareMathSymbol\shortrightarrow\mathrel{stmry}{01}\fi
87 \stmry@if\DeclareMathSymbol\shortuparrow\mathrel{stmry}{02}\fi
88 \stmry@if\DeclareMathSymbol\shortdownarrow\mathrel{stmry}{03}\fi
89 \stmry@if\DeclareMathSymbol\Yup\mathbin{stmry}{04}\fi
90 \stmry@if\DeclareMathSymbol\Ydown\mathbin{stmry}{05}\fi
91 \stmry@if\DeclareMathSymbol\Yleft\mathbin{stmry}{06}\fi
92 \stmry@if\DeclareMathSymbol\Yright\mathbin{stmry}{07}\fi
93 \stmry@if\DeclareMathSymbol\varcurlyvee\mathbin{stmry}{08}\fi
94 \stmry@if\DeclareMathSymbol\varcurlywedge\mathbin{stmry}{09}\fi
95 \stmry@if\DeclareMathSymbol\minuso\mathbin{stmry}{0A}\fi
96 \stmry@if\DeclareMathSymbol\baro\mathbin{stmry}{0B}\fi
97 \stmry@if\DeclareMathSymbol\sslash\mathbin{stmry}{0C}\fi
98 \stmry@if\DeclareMathSymbol\bbslash\mathbin{stmry}{0D}\fi
99 \stmry@if\DeclareMathSymbol\moo\mathbin{stmry}{0E}\fi
100 \stmry@if\DeclareMathSymbol\varotimes\mathbin{stmry}{0F}\fi
101 \stmry@if\DeclareMathSymbol\varoast\mathbin{stmry}{10}\fi
102 \stmry@if\DeclareMathSymbol\varobar\mathbin{stmry}{11}\fi
103 \stmry@if\DeclareMathSymbol\varodot\mathbin{stmry}{12}\fi
104 \stmry@if\DeclareMathSymbol\varoslash\mathbin{stmry}{13}\fi
105 \stmry@if\DeclareMathSymbol\varobslash\mathbin{stmry}{14}\fi
106 \stmry@if\DeclareMathSymbol\varocircle\mathbin{stmry}{15}\fi
107 \stmry@if\DeclareMathSymbol\varoplus\mathbin{stmry}{16}\fi
108 \stmry@if\DeclareMathSymbol\varominus\mathbin{stmry}{17}\fi
109 \stmry@if\DeclareMathSymbol\boxast\mathbin{stmry}{18}\fi
110 \stmry@if\DeclareMathSymbol\boxbar\mathbin{stmry}{19}\fi
111 \stmry@if\DeclareMathSymbol\boxdot\mathbin{stmry}{1A}\fi
112 \stmry@if\DeclareMathSymbol\boxslash\mathbin{stmry}{1B}\fi
113 \stmry@if\DeclareMathSymbol\boxbslash\mathbin{stmry}{1C}\fi
114 \stmry@if\DeclareMathSymbol\boxcircle\mathbin{stmry}{1D}\fi
115 \stmry@if\DeclareMathSymbol\boxbox\mathbin{stmry}{1E}\fi
116 \stmry@if\DeclareMathSymbol\boxempty\mathbin{stmry}{1F}\fi
117 \stmry@if\DeclareMathSymbol\lightning\mathord{stmry}{20}\fi
118 \stmry@if\DeclareMathSymbol\merge\mathbin{stmry}{21}\fi
119 \stmry@if\DeclareMathSymbol\vartimes\mathbin{stmry}{22}\fi
120 \stmry@if\DeclareMathSymbol\fatsemi\mathbin{stmry}{23}\fi
121 \stmry@if\DeclareMathSymbol\sswarrow\mathrel{stmry}{24}\fi
122 \stmry@if\DeclareMathSymbol\ssearrow\mathrel{stmry}{25}\fi
123 \stmry@if\DeclareMathSymbol\curlywedgeuparrow\mathrel{stmry}{26}\fi
124 \stmry@if\DeclareMathSymbol\curlywedgedownarrow\mathrel{stmry}{27}\fi
125 \stmry@if\DeclareMathSymbol\fatslash\mathbin{stmry}{28}\fi
126 \stmry@if\DeclareMathSymbol\fatbslash\mathbin{stmry}{29}\fi
127 \stmry@if\DeclareMathSymbol\lbag\mathbin{stmry}{2A}\fi
128 \stmry@if\DeclareMathSymbol\rbag\mathbin{stmry}{2B}\fi
129 \stmry@if\DeclareMathSymbol\varbigcirc\mathbin{stmry}{2C}\fi
130 \stmry@if\DeclareMathSymbol\leftrightharroweq\mathrel{stmry}{2D}\fi
131 \stmry@if\DeclareMathSymbol\curlyveedownarrow\mathrel{stmry}{2E}\fi
132 \stmry@if\DeclareMathSymbol\curlyveeuparrow\mathrel{stmry}{2F}\fi
133 \stmry@if\DeclareMathSymbol\nnwarrow\mathrel{stmry}{30}\fi
134 \stmry@if\DeclareMathSymbol\nearrow\mathrel{stmry}{31}\fi
135 \stmry@if\DeclareMathSymbol\leftslice\mathbin{stmry}{32}\fi
136 \stmry@if\DeclareMathSymbol\rightslice\mathbin{stmry}{33}\fi
137 \stmry@if\DeclareMathSymbol\varolessthan\mathbin{stmry}{34}\fi
```

```

138 \stmry@if\DeclareMathSymbol\varogreaterthan\mathbin{stmry}{"35}\fi
139 \stmry@if\DeclareMathSymbol\varovee\mathbin{stmry}{"36}\fi
140 \stmry@if\DeclareMathSymbol\varowedge\mathbin{stmry}{"37}\fi
141 \stmry@if\DeclareMathSymbol\talloblong\mathbin{stmry}{"38}\fi
142 \stmry@if\DeclareMathSymbol\interleave\mathbin{stmry}{"39}\fi
143 %% (CAR) Added by Chris Rowley, March 2004:
144 \stmry@if\let\oast\circledast\fi
145 \stmry@if\let\ocircle\circledcirc\fi
146 %%
147 \stmry@if\DeclareMathSymbol\obar\mathbin{stmry}{"3A}\fi
148 \stmry@if\DeclareMathSymbol\obslash\mathbin{stmry}{"3B}\fi
149 \stmry@if\DeclareMathSymbol\olessthan\mathbin{stmry}{"3C}\fi
150 \stmry@if\DeclareMathSymbol\ogreaterthan\mathbin{stmry}{"3D}\fi
151 \stmry@if\DeclareMathSymbol\ovee\mathbin{stmry}{"3E}\fi
152 \stmry@if\DeclareMathSymbol\owedge\mathbin{stmry}{"3F}\fi
153 \stmry@if\DeclareMathSymbol\oblong\mathbin{stmry}{"40}\fi
154 \stmry@if\DeclareMathSymbol\inplus\mathrel{stmry}{"41}\fi
155 \stmry@if\DeclareMathSymbol\niplus\mathrel{stmry}{"42}\fi
156 \stmry@if\DeclareMathSymbol\nplus\mathbin{stmry}{"43}\fi
157 \stmry@if\DeclareMathSymbol\subsetplus\mathrel{stmry}{"44}\fi
158 \stmry@if\DeclareMathSymbol\supsetplus\mathrel{stmry}{"45}\fi
159 \stmry@if\DeclareMathSymbol\subsetpluseq\mathrel{stmry}{"46}\fi
160 \stmry@if\DeclareMathSymbol\supsetpluseq\mathrel{stmry}{"47}\fi
161 \stmry@if\DeclareMathSymbol\Lbag\mathopen{stmry}{"48}\fi
162 \stmry@if\DeclareMathSymbol\Rbag\mathclose{stmry}{"49}\fi
163
164 \stmry@if\DeclareMathSymbol\llparenthesis\mathopen{stmry}{"4C}\fi
165 \stmry@if\DeclareMathSymbol\rrparenthesis\mathclose{stmry}{"4D}\fi
166 \stmry@if\DeclareMathSymbol\binampersand\mathopen{stmry}{"4E}\fi
167 \stmry@if\DeclareMathSymbol\bindnasrepma\mathclose{stmry}{"4F}\fi
168 \stmry@if\DeclareMathSymbol\trianglelefteqslant\mathrel{stmry}{"50}\fi
169 \stmry@if\DeclareMathSymbol\trianglerighteqslant\mathrel{stmry}{"51}\fi
170 \stmry@if\DeclareMathSymbol\ntrianglelefteqslant\mathrel{stmry}{"52}\fi
171 \stmry@if\DeclareMathSymbol\ntrianglerighteqslant\mathrel{stmry}{"53}\fi
172 \stmry@if\DeclareMathSymbol\llfloor\mathopen{stmry}{"54}\fi
173 \stmry@if\DeclareMathSymbol\rrfloor\mathclose{stmry}{"55}\fi
174 \stmry@if\DeclareMathSymbol\llceil\mathopen{stmry}{"56}\fi
175 \stmry@if\DeclareMathSymbol\rrceil\mathclose{stmry}{"57}\fi
176 \stmry@if\DeclareMathSymbol\arrownot\mathrel{stmry}{"58}\fi
177 \stmry@if\DeclareMathSymbol\Arrownot\mathrel{stmry}{"59}\fi
178 \stmry@if\DeclareMathSymbol\Mapstochar\mathrel{stmry}{"5A}\fi
179 \stmry@if\DeclareMathSymbol\mapsfromchar\mathrel{stmry}{"5B}\fi
180 \stmry@if\DeclareMathSymbol\Mapsfromchar\mathrel{stmry}{"5C}\fi
181 %% (CAR) Corrected by Chris Rowley, March 2004:
182 %% \stmry@if\DeclareMathSymbol\leftrightharrowtriangle\mathbin{stmry}{"5D}\fi
183 \stmry@if\DeclareMathSymbol\leftrightharrowtriangle\mathrel{stmry}{"5D}\fi
184 %%
185 \stmry@if\DeclareMathSymbol\leftarrowtriangle\mathrel{stmry}{"5E}\fi
186 \stmry@if\DeclareMathSymbol\rightarrowtriangle\mathrel{stmry}{"5F}\fi
187 \stmry@if\DeclareMathSymbol\bigtriangledown\mathop{stmry}{"60}\fi
188 \stmry@if\DeclareMathSymbol\bigtriangleup\mathop{stmry}{"61}\fi
189 \stmry@if\DeclareMathSymbol\bigcurlyvee\mathop{stmry}{"62}\fi
190 \stmry@if\DeclareMathSymbol\bigcurlywedge\mathop{stmry}{"63}\fi
191 \stmry@if\DeclareMathSymbol\bigsqcap\mathop{stmry}{"64}\fi

```

```

192 \stmry@if\DeclareMathSymbol\bigbox\mathop{stmry}{"65}\fi
193 \stmry@if\DeclareMathSymbol\bigparallel\mathop{stmry}{"66}\fi
194 \stmry@if\DeclareMathSymbol\biginterleave\mathop{stmry}{"67}\fi
195 \stmry@if\DeclareMathSymbol\bigplus\mathop{stmry}{"70}\fi
196
197 \stmry@if\DeclareMathDelimiter\llbracket{\mathopen}{stmry}{"4A}
198                                     {stmry}{"71}\fi
199 \stmry@if\DeclareMathDelimiter\rrbracket{\mathclose}{stmry}{"4B}
200                                     {stmry}{"79}\fi

```

The heavy ©:

```

201 \stmry@if\def\varcopyright
202   {\oalign{\hfil\raise.07ex\hbox{c}\hfil\cr\cr%
203     \mbox{$\m@th\varbigcirc$}}}\fi

```

The long arrow negations.

```

204 \stmry@if\def\longarrownot{\mathrel{\mkern5.5mu\arrownot\mkern-5.5mu}}\fi
205 \stmry@if\def\Longarrownot{\mathrel{\mkern5.5mu\Arrownot\mkern-5.5mu}}\fi

```

The variants on \mapsto :

```

206 \stmry@if\def\Mapsto{\Mapstochar\Rightarrow}\fi
207 \stmry@if\def\mapsfrom{\leftarrow\mapsfromchar}\fi
208 \stmry@if\def\Mapsfrom{\Leftarrow\Mapsfromchar}\fi
209 \stmry@if\def\Longmapsto{\Mapstochar\Longrightarrow}\fi
210 \stmry@if\def\longmapsfrom{\longleftarrow\mapsfromchar}\fi
211 \stmry@if\def\Longmapsfrom{\Longleftarrow\Mapsfromchar}\fi

```

The circular circles:

```

212 \ifstmry@heavy@
213   \def\@swap#1#2{\let\@tempa#1\let#1#2\let#2\@tempa}
214   \@swap\varotimes\otimes
215   \@swap\varolessthan\olessthan
216   \@swap\varogreaterthan\ogreaterthan
217   \@swap\varovee\ovee
218   \@swap\varowedge\owedge
219   \@swap\varoast\oast
220   \@swap\varobar\obar
221   \@swap\varodot\odot
222   \@swap\varoslash\oslash
223   \@swap\varobslash\obs slash
224   \@swap\varocircle\ocircle
225   \@swap\varoplus\oplus
226   \@swap\varominus\ominus
227   \@swap\varbigcirc\bigcirc
228   \@swap\varcopyright\copyright
229 \fi
230 \end{package}

```

6 The font definitions

The font definitions for the St Mary's Road fonts are:

```

231 \fontdef
232 \DeclareFontFamily{U}{stmry}{}
233 \DeclareFontShape{U}{stmry}{m}{n}

```

```
234 { <5> <6> <7> <8> <9> <10> gen * stmary
235 <10.95><12><14.4><17.28><20.74><24.88>stmary10%
236 }{}
237 </fontdef>
```