

Troff Formatting With The Memorandum Macro Set

Blake McBride (blake@mcbridemail.com)

Processing a document with groff

```
groff -mm MyDoc.mm >MyDoc.ps
-or-
groff -mm -T pdf MyDoc.mm >MyDoc.pdf
- or with TBL -
groff -t -mm -T pdf MyDoc.mm >MyDoc.pdf
```

Processing a document with heirloom troff

```
troff -mm MyDoc.mm |dpost >MyDoc.ps
- or with TBL -
tbl MyDoc.mm |troff -mm MyDoc.mm >MyDoc.ps
```

Convert a PS document to PDF with:

```
ps2pdf Mydoc.ps
```

Page Header & Footer

INPUT	PRODUCES
<code>.PH "L'C'R"</code>	set page header Left, Center, and Right text
<code>.PF "L'C'R"</code>	set page footer Left, Center, and Right text (blank)
<code>\\ nP</code>	current page number

Page headers default to about 6 lines. Define your own page header with:

```
.de TP
.SP .75i
..
```

Page Layout

INPUT	PRODUCES
<code>.ll 6.5i</code>	sets the line length to 6.5 inches
<code>.po 1i</code>	sets left margin (page offset) to one inch

Fonts

INPUT	PRODUCES
.S n	set font point size to n (default 10)
.B ["text"]	bold text (if text missing, stay in bold until .R)
.I ["text"]	italics text (if text missing, stay in italics until .R)
.R	roman
.ft CW	use constant width font
.ft P	return to previous font
\s(NN)	use font size NN
\s±N	increment or decrement font by N points
\s0	return to previous font size
\fi	<i>use italics font</i>
\fB	use bold font
\f(CW)	use mono-spaced font
\fR	use regular font
\fP	return to previous font

Special Characters

INPUT	PRODUCES
\\	\
\e	\
\E	\ (copy mode)
`abc`	‘abc’
\(aqabc\aq	'abc'
``abc``	“abc”
"abc"	"abc"
abc-def	abc-def
abc\ -def	abc–def
abc\ (emdef	abc—def
\&	zero width space

A line that ends with a period, question mark, or exclamation point gets extra inter-sentence space added. Inter-word spaces are retained, so you can also produce extra space after an end of sentence with two spaces.

End a line with \& if that line should not end a sentence.

Comment lines begin with .\"

In-line comments begin with \"

Paragraphs

The .P macro introduces a new paragraph. Each paragraph should begin with .P

INPUT	PRODUCES
.P	new paragraph — default style
.P 0	new paragraph — left justified
.P 1	new paragraph — indented
.nr Pt 0	set paragraph default to left justified (default)
.nr Pt 1	set paragraph default to indented
.nr Pt 2	set paragraph default to indented except after a header
.nr Ps n	set number of blank lines between a paragraph (default 1)
.nr Hy 1	turn hyphenation on (default off)
.SA 0	no adjust right margin
.SA 1	adjust right margins (default)

Miscellaneous

INPUT	PRODUCES
.SP [n]	n blank lines (or .SP .2i means .2 inches)
.OP	start next line on new odd page
.br	break — end line
.bp	break page
.ce n	center n lines
.nf	no fill
.fi	fill
.so file	include file
.ti n	temporary indent for next line only
.in n	indent n
.in	return to previous indent
.ls N	line spacing N
.ls	return to previous line spacing

Lists

INPUT	PRODUCES
.AL [t]	numbered list (t=type)
.BL	bullet list
.DL	dash list
.ML	marked list
.RL	reference list
.VL i	variable list (i=width of label passed to .LI)
.LI [label]	list item (the actual item appears on the following line)
.LE	list end
.nr Ls n	list level that stops adding blank lines between elements
.nr Li n	list indent level

TYPE	PRODUCES
1	Arabic number (default for all levels)
A	upper-case letter
a	lower-case letter
I	upper-case roman
i	lower-case roman

Sections

INPUT	PRODUCES
.H level "heading"	header at level (1-7)
.nr Ej 1	make H1 appear at top of new page

Table of Contents

INPUT	PRODUCES
.nr Cl x	save headers to level x
.TC	produce toc (used at end of doc)

Foot Notes

INPUT	PRODUCES
*F	footnote reference number (used before footnote)
.FS	footnote start
.FE	footnote end

Definitions

INPUT	PRODUCES
<hr/>	<hr/>
.de name	define macro name
..	end macro definition
\\\$n	access macro argument n (1–9)
.ds name value	define string
.nr name value	set numbered register
*X	display value of string named X
*(XY	display value of string named XY
\nX	display value of numbered register named X
\n(XY	display value of numbered register named XY
*(DT	display today's date
.nr X 1+*X	add 1 to register X

Macro arguments that have spaces in them should be surrounded with double-quotes.

Displays

Keeps blocks of text on the same page.

INPUT	PRODUCES
<hr/>	<hr/>
.DS [fmt] [fill] [rindent]	display start fmt: L = left justify (default) I = indent C = center each line CB = center entire block fill: N = no fill (default) F = fill rindent = right indent
.DE	display end