

Troff Formatting With The Memorandum Macro Set

Blake McBride (blake@mcbride.name)

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
.PH "L'C'R"	set page header Left, Center, and Right text
	-n-
.PF "L'C'R"	set page footer Left, Center, and Right text (blank)
\\nP	current page number

Page headers default to about 6 lines. Change operation of page headers with:

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

Page Layout

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

Fonts

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

Special Characters

INPUT	PRODUCES
<code>\\</code>	<code>\</code>
<code>\e</code>	<code>\</code>
<code>\E</code>	<code>\</code> (copy mode)
<code>`abc´</code>	<code>‘abc’</code>
<code>``abc``</code>	<code>“abc”</code>
<code>"abc"</code>	<code>"abc"</code>
<code>abc-def</code>	abc-def
<code>abc\ -def</code>	abc—def
<code>abc\ (emdef</code>	abc—def
<code>\&</code>	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 lspace	line spacing
.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
.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
.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