Name

```
groff_me - "me" macro package for formatting roff documents
```

Synopsis

```
groff –me [option ...] [file ...] groff –m me [option ...] [file ...]
```

Description

The GNU implementation of the *me* macro package is part of the *groff* document formatting system. The *me* package of macro definitions for the *roff* language provides a convenient facility for preparing technical papers in various formats. This version is based on the *me* distributed with 4.4BSD and can be used with the GNU *troff* formatter as well as those descended from AT&T *troff*.

Some formatter requests affect page layout unpredictably when used in conjunction with this package; however, the following may be used with impunity after the first call to a paragraphing macro like lp or pp. Some arguments are optional; see groff(7) for details, particularly of requests whose argument list is designated with an ellipsis. An asterisk * marks groff extensions.

```
ad c
             set text adjustment mode to c
             assign format f to register r
af
   rf
            append to macro m until e called
\mathbf{am} \ m \ e
            append rest of line t to string s
as st
            begin new page numbered n
bp
   n
br
            break output line
ce
            center next n output lines
cp n
            en-/disable AT&T troff compatibility mode*
de
            define macro m until e called
do t
            interpret input t with compatibility mode off*
ds
            define rest of line t as string s
   s t
el
    t
            interpret t if corresponding ie false
fc
    c d
            set field delimiter c and padding glyph d
fi
            enable filling
hc c
            set hyphenation character to c
            set automatic hyphenation mode to m
hy
    m
ie
    pt
            as if, but enable interpretation of later el
if
    pt
            if condition p, interpret rest of line t
in
    h
            set indentation to distance h
lc
            set leader repetition glyph to c
            set line spacing to n
ls
    n
mc ch
            set (right) margin glyph to c at distance h
mk r
            mark vertical position in register r
            disable adjustment of text
na
            need vertical space of distance v
ne
    \nu
nf
            disable filling
nh
            disable automatic hyphenation
    rni
            assign register r value n with auto-increment i
nr
ns
            begin no-space mode
             set page length to v
pl
            set next page number to n
\mathbf{pn} n
   h
            set page offset to h
po
            right-align next n output lines*
rj
            remove macro, string, or request m
\mathbf{rm} m
   m n
            rename macro, string, or request m to n
rn
            remove register r
rr
    r
rs
            resume spacing (end no-space mode)
            return to vertical position set by mk, or v
rt
```

- so fsource (interpolate) input file fsp ninsert n lines of vertical space
- ta ... set tab stops
- c set tab repetition glyph to c
- ti h set temporary indentation (next line only) to h
- tl ... output three-part title
- tr ... translate characters
- **ul** *n* underline next *n* output lines

Except on title pages (produced by calling **tp**), *me* suppresses the output of vertical space at the tops of pages (after the output of any page header); the **sp** request will thus not work there. You can instead call **bl** or enclose the desired spacing request in a diversion, for instance by calling (**b** and)**b**. *me* also intercepts the **ll** request; see the "*me* Reference Manual" for details.

Name space

Objects in *me* follow a rigid naming convention. To avoid conflict, any user-defined register, string, or macro names should be single numerals or uppercase letters, or any longer sequence of letters and numerals with at least one uppercase letter. (For portability between BSD and *groff me*, limit names to two characters, and avoid the name [(left square bracket).) The names employed by any preprocessors in use should also not be repurposed.

Macros

- **\$0** post-section heading hook
- **\$1** pre-section depth 1 hook
- **\$2** pre-section depth 2 hook
- \$3 pre-section depth 3 hook
- \$4 pre-section depth 4 hook
- \$5 pre-section depth 5 hook
- **\$6** pre-section depth 6 hook
- **\$C** post-chapter title hook
- **\$H** page/column heading hook
- **\$c** output chapter number and title
- **\$f** output footer
- **\$h** output header
- **\$p** output section heading
- **\$s** output footnote area separator
- (b begin block
- (c begin centered block
- (**d** begin delayed text
- (f begin footnote
- (I begin list
- (q begin long quotation
- (x begin index entry
- (z begin floating keep
- **)b** end block
- c end centered block
-)d end delayed text
-)f end footnote
-)l end list
-)**q** end long quotation
-)x end index entry
-)**z** end floating keep
- ++ set document segment type
- +c begin chapter
- 1c end multi-column layout

- **2c** begin multi-column layout
- **EN** end *eqn* equation
- **EQ** begin *eqn* equation
- **GE** end *grn* picture with drawing position at bottom
- **GF** end *grn* picture with drawing position at top
- **GS** start *grn* picture
- **IE** end *ideal* picture with drawing position at bottom
- **IF** end *ideal* picture with drawing position at top
- **IS** start *ideal* picture
- **PE** end *pic* picture with drawing position at bottom
- **PF** end *pic* picture with drawing position at top
- **PS** start *pic* picture
- **TE** end *tbl* table
- **TH** end heading for multi-page *tbl* table
- TS start tbl table
- **b** embolden argument
- **ba** set base indentation
- **bc** begin new column
- **bi** embolden and italicize argument
- bx box argument
- ef set even-numbered page footer
- **eh** set even-numbered page header
- ep end page
- **fo** set footer
- **he** set header
- **hl** draw horizontal line
- **hx** suppress next page's headers/footers
- i italicize argument
- ip begin indented paragraph
- ld reset localization and date registers and strings*
- **ll** set line length
- **lp** begin fully left-aligned paragraph
- **np** begin numbered paragraph
- of set odd-numbered page footer
- oh set odd-numbered page header
- **pd** output delayed text
- **pp** begin first-line indented paragraph
- q quote argument
- r set argument in roman
- re reset tab stops
- sh begin numbered section
- **sm** set argument at smaller type size
- sx change section depth
- sz set type size and vertical spacing
- **tp** begin title page
- **u** underline argument
- **uh** begin unnumbered section
- xl set line length (local)
- **xp** output index

Some macros are provided for "old" roff(1) compatibility. The "me Reference Manual" describes alternatives for modern documents.

- **ar** use Arabic numerals for page numbers
- **bl** insert space (even at page top; cf. **sp**)

- ix set indentation without break
- m1 set page top to header distance
- **m2** set header to text distance
- m3 set text to footer distance
- **m4** set footer to page bottom distance
- **n1** begin output line numbering
- **n2** end or alter output line numbering
- pa begin page
- ro use Roman numerals for page numbers
- **sk** skip next page

Registers

- **\$0** section depth
- \$1 first section number component
- \$2 second section number component
- \$3 third section number component
- **\$4** fourth section number component
- \$5 fifth section number component
- \$6 sixth section number component
- \$c current column number
- **\$d** delayed text number
- **\$f** footnote number
- **\$i** paragraph base indentation
- \$1 column width
- **\$m** number of available columns
- **\$p** numbered paragraph number
- **\$s** column spacing (indentation)
- bi display (block) indentation
- **bm** distance from text area to page bottom
- **bs** display (block) pre/post space
- **bt** block threshold for keeps
- ch current chapter number
- df display font
- **dv** vertical spacing of displayed text (as percentage)*
- es equation pre/post space
- **ff** footnote font
- fi footnote indentation (first line only)
- fm footer margin
- **fp** footnote type size in points
- **fs** footnote prespace
- **fu** footnote undent (right indentation)
- hm header margin
- ii indented paragraph indentation
- **no** line numbering offset*
- **pf** paragraph font
- **pi** paragraph indentation
- po page offset
- **pp** paragraph type size in points
- **ps** paragraph prespace
- **qi** long quotation left/right indentation
- **qp** long quotation type size in points
- **qs** long quotation pre/post space
- sf section title font
- si section indentation per level of depth

- so additional section title offset
- **sp** section title type size in points
- ss section prespace
- sx super/subscript line height increase*
- tf title font
- tm distance from page top to text area
- **tp** title type size in points
- tv vertical spacing of text (as percentage)*
- **xs** index entry prespace
- **xu** index undent (right indentation)
- y2 year of the century*
- y4 year*
- yr year minus 1900
- zs floating keep pre/post space

Strings

- # delayed text marker
- **\$n** concatenated section number
- * footnote marker
- em dash
- < begin subscripting
- > end subscripting
- **dw** weekday name
- lq left double quotation mark
- mo month name
- rq right double quotation mark
- td date
- wa term for "appendix" used by .\$c*
- wc term for "chapter" used by .\$c*
- { begin superscripting
- } end superscripting

Files

/usr/share/groff/1.23.0/tmac/e.tmac implements the package.

/usr/share/groff/1.23.0/tmac/refer-me.tmac implements refer(1) support for me.

/usr/share/groff/1.23.0/tmac/me.tmac

is a wrapper enabling the package to be loaded with "groff -m me".

Notes

Early *roff* macro packages often limited their names to a single letter, which followed the formatter's **m** flag letter, resulting in *mm*, *ms*, *mv*, *mn*, and so on. The "e" in "me" stands for "Eric P. Allman", who wrote the macro package and the original technical papers documenting it while an undergraduate at the University of California.

See also

Two manuals are available in source and rendered form. On your system, they may be compressed and/or available in additional formats.

/usr/share/doc/groff-1.23.0/meintro.me /usr/share/doc/groff-1.23.0/meintro.ps

is "Writing Papers with Groff Using -me", by Eric P. Allman, adapted for groff by James Clark.

/usr/share/doc/groff-1.23.0/meref.me /usr/share/doc/groff-1.23.0/meref.ps

is the "me Reference Manual", by Eric P. Allman, adapted for groff by James Clark and G. Branden Robinson.

Groff: The GNU Implementation of troff, by Trent A. Fisher and Werner Lemberg, is the primary groff manual. You can browse it interactively with "info groff".

For preprocessors supported by me, see eqn(1), grn(1), pic(1), refer(1), and tbl(1).

groff(1), troff(1), groff(7)