

Utroff provides a set of tools to use troff these days : macros, pre-processors, post-processors, and filters, created from scratch or modified versions of the heirloom doctools. This document is an example of the rendering of these tools, using the uh macro.

Utroff demonstration

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Utmac Macros

Paragraph macros

Default paragraph. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed non risus. Suspendisse lectus tortor, dignissim sitamet, adipiscing nec, ultricies sed, dolor. Cras elementum ultrices diam. Maecenas ligula massa, varius a, semper congue, euismod non, mi. Proin porttitor, orci nec nonum molestie, enim est eleifend mi, non fermentum diamnis sit amet erat. Duis semper.

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Quotation paragraph. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed non risus. Suspendisse lectus tortor, dignissim sitamet, adipiscing nec, ultricies sed, dolor. Cras elementum ultrices diam. Maecenas ligula massa, varius a, semper congue, euismod non, mi. Proin porttitor, orci nec nonum molestie, enim est eleifend mi, non fermentum diamnis sit amet erat. Duis semper.

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- List item. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed non risus. Suspendisse lectus tortor, dignissim sitamet, adipiscing nec, ultricies sed, dolor. Cras elementum ultrices diam. Maecenas ligula massa, varius a, semper congue, euismod non, mi. Proin porttitor, orci nec nonum molestie, enim est eleifend mi, non fermentum diam nisi sit amet erat. Duis semper.

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Right align paragraph. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed non risus. Suspendisse lectus tortor, dignissim sitamet, adipiscing nec, ultricies sed, dolor. Cras elementum ultrices diam. Maecenas ligula massa, varius a, semper congue, euismod non, mi. Proin porttitor, orci nec nonum molestie, enim est eleifend mi, non fermentum diam nisi sit amet erat. Duis semper.

Centered paragraph. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed non risus. Suspendisse lectus

Macros

tortor, dignissim sitamet, adipiscing nec, ultricies sed, dolor. Cras elementum ultrices diam. Maecenas ligula massa, varius a, semper congue, euismod non, mi. Proinporttitor, orci nec nonum molestie, enim est eleifend mi, non fermentum diamnis sit amet erat. Duis semper.

Example paragraph (text is not filled).

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consectetur adipiscing elit.
Sed non risus. Suspendisse
lectus tortor, dignissim
sitamet, adipiscing nec,
ultricies sed, dolor. Cras
elementum ultrices diam.
Maecenas ligula massa, varius
a, semper congue, euismod non,
mi. Proinporttitor, orci nec
nonum molestie, enim est
eleifend mi, non fermentum
diamnis sit amet erat. Duis
semper.

Macros

This note is printed on the top of the page.

¹ This is a numbered note. Note that you must manually insert the string `**` to tell to utmac where to put the number in the text.

Notes macros

Numbered note ¹. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed non risus. Suspendisse lectus tortor, dignissim sitamet, adipiscing nec, ultricies sed, dolor. Cras elementum ultrices diam. Maecenas ligula massa, varius a, semper congue, euismod non, mi. Proin porttitor, orci nec nonum molestie, enim est eleifend mi, non fermentum diam. nis sit amet erat. Duis semper.

Unnumbered top note. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed non risus. Suspendisse lectus tortor, dignissim sitamet, adipiscing nec, ultricies sed, dolor. Cras elementum ultrices diam. Maecenas ligula massa, varius a, semper congue, euismod non, mi. Proin porttitor, orci nec nonum molestie, enim est eleifend mi, non fermentum diam. nis sit amet erat. Duis semper.

Unnumbered bottom note. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed non risus. Suspendisse lectus tortor, dignissim sitamet, adipiscing nec, ultricies sed, dolor. Cras elementum ultrices diam. Maecenas ligula massa, varius a, semper congue, euismod non, mi. Proin porttitor, orci nec nonum molestie, enim est eleifend mi, non fermentum diam. nis sit amet erat. Duis semper.

This note is printed on the bottom of the page.

Typographic macros

Default paragraph. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed non risus. Suspendisse lectus tortor, dignissim sit amet, adipiscing nec, ultricies sed, dolor. Cras elementum ultrices diam. Maecenas ligula massa, varius a, semper congue, euismod non, mi. Proin porttitor, orci nec nonum molestie, enim est eleifend mi, non fermentum diam. nis sit amet erat. Duis semper.

Shortened paragraph. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed non risus. Suspendisse lectus tortor, dignissim sit amet, adipiscing nec, ultricies sed, dolor. Cras elementum ultrices diam. Maecenas ligula massa, varius a, semper congue, euismod non, mi. Proin porttitor, orci nec nonum molestie, enim est eleifend mi, non fermentum diam. nis sit amet erat. Duis semper.

Extended paragraph. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed non risus. Suspendisse lectus tortor, dignissim sit amet, adipiscing nec, ultricies sed, dolor. Cras elementum ultrices diam. Maecenas ligula massa, varius a, semper congue, euismod non, mi. Proin porttitor, orci nec nonum molestie, enim est eleifend mi, non fermentum diam. nis sit amet erat. Duis semper.

Macros

² See p. 10.

³ email@example.com

⁴ <http://example.com>

Inline macros

Fonts

Roman, **Bold**, *Italic*, ***Bold-Italic***, ACRONYM, **BOLD ACRONYM**, *ITALIC ACRONYM*, ***BOLD ITALIC ACRONYM***, SMALL-CAPITALS, **BOLD SMALL CAPITALS**, *ITALIC SMALL CAPITALS*, ***BOLD ITALIC SMALL CAPITS***, Finale, **Bold Finale**, *Italic Finale*, ***Bold Italic Finale***, ^{Superscript}, *Italic Superscript*, ***Bold Italic Superscript***.

Inline macros

Link to keyword2², email³, name, object, title, url⁴, word.
élégant

Macros

⁵ See p. 9.

⁶ email@example.com

⁷ <http://example.com>

Index macros

Link to keyword1 ⁵, email ⁶, name, object, title, url ⁷, word.



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Pre-processors

Pre-processors

¹ LASTNAME, FIRSTNAME jr, *Book title* (City : Issuer, date), chapter I, p. xx.

² *Idem.*

³ *Idem.*, chapter III, p. yy.

⁴ LASTNAME, FIRSTNAME jr, *Another book title* (City : Issuer, date).

⁵ LASTNAME, FIRSTNAME jr, *Book title* (*op. cit.* hereinbefore), chapter I, p. xx.

⁶ *Idem.*

⁷ LASTNAME, FIRSTNAME jr, *Article title*, in *Book title* (City : Issuer, date).

⁸ LASTNAME, FIRSTNAME jr, *Serie title*, vol. III (City : Issuer, date).

⁹ *Idem.*, vol. II : *Book title* (City : Issuer, date).

¹⁰ LASTNAME, FIRSTNAME jr, *Article title*, in *Serie title*, vol. I : *Book title* (City : Issuer, date).

¹¹ LASTNAME, FIRSTNAME jr, « *Journal title* » (n° xx, City : Issuer, date).

¹² LASTNAME, FIRSTNAME jr, *Article title*, « *Journal title* » (n° xx, City : Issuer, date).

¹³ LASTNAME, FIRSTNAME jr, *Serie title*, « *Journal title* » (n° xx, City : Issuer, date).

¹⁴ LASTNAME, FIRSTNAME jr, *Article title*, *Serie title*, « *Journal title* » (n° xx, City : Issuer, date).

References with refer

Idem and op. cit. system

« Citation from a simple book ¹ », « idem ² », « idem with different chapter ³ », « citation from another book ⁴ », « opcit hereinbefore ⁵ ».

References formats

« Simple book ⁶ », « article in book ⁷ », « serie of books ⁸ », « book in serie ⁹ », « article in book in serie ¹⁰ », « single journal ¹¹ », « article in journal ¹² », « journal in serie ¹³ », « article in journal in serie ¹⁴ ».

Syntax highlighting with ugrind

troff

```
.de page:head
.    \ " put a vacuum header
.wh \n[page-foot]v page:foot
.if !"\n(.F"\*[page-file]" \{\
.    pdf:anchor \n(.F
.    ds page-file \n(.F
.\}
.sp \n[page-head]v
.ns
.po \n[text-offset]u
.if \n(RV=1 .if e .po \n[text-offset-e]u
..
```

shell

```
if [ "$1" == "-d" ]; then
    # default
    # input: troff output
    # output: troff format
    sortwords $2 | catpages | totroff
else
    # default
    # input: troff output
    # output: troff format
    tr -d '\004' < $1 | sortwords | catpages | totroff
fi
```

C

```
/* trprinter:
** print a char,
```

Pre-processors

```
** escape it if needed
*/
void
trprinter(char c)
{
    switch (c) {
        case '\\':
            printf ("\\*e\\&"); // \\e
            break;
        case ('.'):
            printf ("\\&.");
            break;
        case ('\'):
            printf ("\\&'");
            break;
        case '_':
            printf ("\\*_");
            break;
        case '-':
            printf ("\\*-");
            break;
        default:
            putchar(c);
            break;
    }
}
```

Makefile

```
.SUFFIXES: .man .7
```

```
UBIN=u-apolline u-en u-fr u-grind uh u-idx \
u-libertine u-locale um uw ut \
u-ref us ux
```

Pre-processors

UMAN=*utmac.7 u-ref.7*

%: *%.tmac*

```
sed -e "s|@UPATH@|$(UPATH)|g" $< > $@
```

.man.7:

```
sed -e "s|@MACDIR@|$(MACDIR)|g" \  
-e "s|@UFILES@|$(UBIN)|g" $< > $@;
```



Appendix

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Appendix

Bibliographie

LASTNAME, FIRSTNAME jr. *Another book title*. Trad. Firstname Lastname. How published. City : Issuer, date. Col. Collection.

——— *Article title*. In *Book title*. P. xx-yy. Trad. Firstname Lastname. How published. City : Issuer, date. Col. Collection.

——— *Article title*. « Journal title ». N° xx. Trad. Firstname Lastname. How published. P. xx-yy. City : Issuer, date. Col. Collection.

——— *Article title*. In *Serie title*. Vol. I : *Book title*. P. xx-yy. Trad. Firstname Lastname. How published. City : Issuer, date. Col. Collection.

——— *Article title*. *Serie title*. « Journal title ». N° xx. Trad. Firstname Lastname. How published. P. xx-yy. City : Issuer, date. Col. Collection.

——— *Book title*. Illustration Firstname Lastname. How published. City : Issuer, date. Col. Collection.

——— « Journal title ». N° xx. Trad. Firstname Lastname. How published. City : Issuer, date. Col. Collection.

——— *Serie title*. Vol. II : *Book title*. Trad. Firstname Lastname. How published. City : Issuer, date. Col. Collection.

——— *Serie title*. Vol. III. Trad. Firstname Lastname. How published. City : Issuer, date. Col. Collection.

Bibliographie

——— *Serie title.* « Journal title ». N° xx. Trad. Firstname
Lastname. How published. City : Issuer, date. Col.
Collection.

Index of books

Another book title : 12.

Article title : 12.

Book title : 12.

Journal title : 12.

Serie title : 12.

title : 9-10.

Index of names

LASTNAME, Firstname : 9-10.

Index of things

object : 9-10.

Index of books

Another book title : 12.

Article title : 12.

Book title : 12.

Journal title : 12.

Serie title : 12.

title : 9-10.

Index of words

élégant : 9.

word : 9-10.

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