Utroff demonstration

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 us macro.

Get utroff tools on <http ://utroff.org> tweet @utroff_, and donate on flattr.

Utmac Macros

Paragraph macros

Default paragraph. Lorem ipsum dolor sit amet, consectetuer 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.

Lorem ipsum dolor sit amet, consectetuer 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.

Lorem ipsum dolor sit amet, consectetuer 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.

> Quotation paragraph. Lorem ipsum dolor sit amet, consectetuer 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.

Left extended paragraph. Lorem ipsum dolor sit amet, consectetuer 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.

– List item. Lorem ipsum dolor sit amet, consectetuer 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.

Left align paragraph. Lorem ipsum dolor sit amet, consectetuer 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.

Right align paragraph. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Sed non risus. Suspendisse lectus tortor, dignissim sitamet, adipiscing nec, ultricies sed, dolor. Cras elemen-

tum 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.

Centered paragraph. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Sed non risus.
Suspendisse lectus tortor, dignissim sitamet, adipiscing nec, ultricies sed, dolor. Cras elemen-
tum 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.

Example paragraph (text is not filled).
Lorem ipsum dolor sit amet,
consectetuer 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.

Notes macros

Numbered note [1]. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Sed non risus. Sus-
pendisse lectus tortor, dignissim sitamet, adipiscing nec, ultricies sed, dolor. Cras elementum ultri-
ces 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.

Unnumbered top note.
This note is printed on the top of the page.

Lorem ipsum dolor sit amet, consectetuer 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.

Unnumbered bottom note.
This note is printed on the bottom of the page.

Lorem ipsum dolor sit amet, consectetuer 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.

Typographic macros

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

Default paragraph. Lorem ipsum dolor sit amet, consectetuer 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.

Shortened paragraph. Lorem ipsum dolor sit amet, consectetuer 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.

Extended paragraph. Lorem ipsum dolor sit amet, consectetuer 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.

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***, S[uperscript], *I[talic] S[uperscript]*, ***B[old] I[talic] S[uperscript]***.

Inline macros
Link to keyword2 [2], email [3], name, object, title, url [4], word. élégant

---

[2] See p. 5.

[4] <http ://example.com>

[3] email@example.com

Index macros

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

---

[5] See p. 4.

[6] email@example.com

[7] <http ://example.com>

Pre-processors

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

[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).

```
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

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

```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

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

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 ». Nᵒ 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 ». Nᵒ 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 ». Nᵒ 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.

—— *Serie title*. « Journal title ». Nᵒ xx. Trad. Firstname Lastname. How published. City : Issuer, date. Col. Collection.

Index of books

Index of names

Index of things

object : 4-5.

Index of books

Index of words

Table of content