Groff

Cheatsheet

P J

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1 Groff Cheatsheet

Groff (GNU troff) is a typesetting system that reads plain text mixed with formatting commands and produces formatted output. Output may be PostScript, PDF, html, or ASCII/UTF8 for display at the terminal. Formatting commands may be either low-level typesetting requests ("primitives") or macros from a supplied set. Users may also write their own macros. All three may be combined.

Present on most Unix systems owing to its long association with Unix manuals (manpages), groff is capable of producing typographically sophisticated documents while consuming only minimal system resources.

Groff is released under the GNU General Public License.

1.1 Comments

`groff` has three way to create a comment:

```
\" This is a comment
.\" Also a comment but, it has to be at the beginning of the line
.ig
This is a multiline comment
everything in this block will be ignored.
..
```

1.2 Macros

We can define a macro to stop repeating ourselves and save time, kinda like functions in every programming language and exactly like macros in `c` language.

```
.de MacroName
\" Body
..
```

And now we can use them just like other macros:

```
.MacroName
\" body
```

1.2.1 Some useful macros

Custom bullet list:

```
.de list
.IP
\(bu
..
\" usage
```

```
6   .list
7   Test item one
```

• Test item one

Figure 1: list Custom Macro

Boxed code block:

```
1    .nr ln 1
2    .de cb
3    .QS
4    .B1
5    .ft CR
6    .sp 1n
7    .br
8    .sp 1n
9    .nf
10   .in +1m
11   .nm +0 1 1 -5
12   ..
13   .de /cb
14   .br
15   .sp 1n
16   .nm
17   .fi
18   .ft
19   .in
20   .B2
21   .QE
22   ..
23   \" usage
24   .cb
25   #include <stdio.h>
26   int main(int argc, char *argv[])
27   {
28       printf("Hello world!\\n");
29       return 0;
30   }
31   ./cb
```

```
1    #include <stdio.h>
2    int main(int argc, char *argv[])
3    {
4        printf("Hello world!\n");
5        return 0;
6    }
```

Figure 2: cb Custom Macro

1.3   Title

Every document at least needs a *title* and *author*:

```
1  .TL
2  The Title
3
4  .AU
5  The Author
```

1.4   Page formatting

We can have page *footer* and *header*:

```
1  .ds RH Top right
2  .ds CH Top middle \" reserved for page number
3  .ds LH Top left
4  .ds RF Buttom right
5  .ds CF Buttom middle \" reserved for current date (.DA)
6  .ds LF Buttom left
```

Change font size:

```
1  .nr PS 18
```