



Rocky Enterprise Linux 9.2 Manual Pages on command 'grotty.1'

C:\>man grotty.1

GROTTY(1) General Commands Manual GROTTY(1)

NAME

grotty - groff driver for typewriter-like devices

SYNOPSIS

grotty [-bBcdfhioruUv] [-F dir] [file ...]

DESCRIPTION

grotty translates the output of GNU troff into a form suitable for typewriter-like devices. Normally grotty should be invoked by using the groff command with a -Tascii, -Tlatin1 or -Tutf8 option on ASCII based systems, and with -Tcp1047 and -Tutf8 on EBCDIC based hosts. If no files are given, grotty reads the standard input. A filename of - also causes grotty to read the standard input. Output is written to the standard output.

By default, grotty emits SGR escape sequences (from ISO 6429, also called ANSI color escapes) to change text attributes (bold, italic, colors). This makes it possible to have eight different background and foreground colors; additionally, bold and italic attributes can be used at the same time (by using the BI font).

The following colors are defined in tty.tmac: black, white, red, green, blue, yellow, magenta, cyan. Unknown colors are mapped to the default color (which is dependent on the settings of the terminal; in most cases, this is black for the foreground and white for the background).

Use the -c switch to revert to the old behaviour, printing a bold character c with the sequence ?c BACKSPACE c? and an italic character c by the sequence ?_ BACKSPACE

c?. At the same time, color output is disabled. The same effect can be achieved by setting either the GROFF_NO_SGR environment variable or using the `?sgr? X com?` mand (see below).

For SGR support, it is necessary to use the `-R` option of `less(1)` to disable the interpretation of grotty's old output format. Consequently, all programs which use less as the pager program have to pass this option to it. For `man(1)` in particular, either add `-R` to the `PAGER` environment variable, e.g.

```
PAGER="/usr/bin/less -R"
```

```
export PAGER
```

or use the `-P` option of `man` to set the pager executable and its options, or modify the configuration file of `man` in a similar fashion. Note that with some `man(1)` versions, you have to use the `MANPAGER` environment variable instead.

grotty's old output format can be displayed on a terminal by piping through `ul(1)`.

Pagers such as `more(1)` or `less(1)` are also able to display these sequences. Use either `-B` or `-U` when piping into `less(1)`; use `-b` when piping into `more(1)`. There is no need to filter the output through `col(1)` since grotty never outputs reverse line feeds.

The font description file may contain a command

```
internalname n
```

where `n` is a decimal integer. If the 01 bit in `n` is set, then the font is treated as an italic font; if the 02 bit is set, then it is treated as a bold font. The code field in the font description field gives the code which is used to output the character. This code can also be used in the `\N` escape sequence in troff.

If the `DESC` file contains the keyword `unicode`, grotty emits Unicode characters in UTF-8 encoding. Otherwise, it emits characters in a single-byte encoding depending on the data in the font description files. See the `groff_font(5)` man page for more details.

OPTIONS

Whitespace is permitted between a command-line option and its argument.

`-b` Suppress the use of overstriking for bold characters. Ignored if `-c` isn't used.

`-B` Use only overstriking for bold-italic characters. Ignored if `-c` isn't used.

`-c` Use grotty's old output format (see above). This also disables color out?

put.

- d Ignore all \D commands. Without this grotty renders \D'l..' commands that have at least one zero argument (and so are either horizontal or vertical) using -, |, and + characters. In a similar way, grotty handles \D'p..' commands which consist entirely of horizontal and vertical lines.
- f Use form feeds in the output. A form feed is output at the end of each page that has no output on its last line.
- Fdir Prepend directory dir/devname to the search path for font and device description files; name is the name of the device, usually ascii, latin1, utf8, or cp1047.
- h Use horizontal tabs in the output. Tabs are assumed to be set every 8 columns.
- i Use escape sequences to set the italic text attribute instead of the underline attribute for italic fonts (?I? and ?BI?). Note that most terminals (including xterm) don't support this. Ignored if -c is active.
- o Suppress overstriking (other than for bold or underlined characters in case the old output format has been activated with -c).
- r Use escape sequences to set the reverse text attribute instead of the underline attribute for italic fonts (?I? and ?BI?). Ignored if -c is active.
- u Suppress the use of underlining for italic characters. Ignored if -c isn't used.
- U Use only underlining for bold-italic characters. Ignored if -c isn't used.
- v Print the version number.

USAGE

grotty understands a single X command produced using the \X escape sequence.

\X'tty: sgr n'

If n is non-zero or missing, enable SGR output (this is the default), otherwise use the old drawing scheme for bold and underline.

ENVIRONMENT

GROFF_NO_SGR

If set, the old drawing scheme for bold and underline (using the backspace character) is active. Colors are disabled.

GROFF_FONT_PATH

A list of directories in which to search for the devname directory in addition to the default ones. See `troff(1)` and `groff_font(5)` for more details.

FILES

`/usr/share/groff/1.22.4/font/devascii/DESC`

Device description file for the ascii device.

`/usr/share/groff/1.22.4/font/devascii/F`

Font description file for font F of the ascii device.

`/usr/share/groff/1.22.4/font/devlatin1/DESC`

Device description file for the latin1 device.

`/usr/share/groff/1.22.4/font/devlatin1/F`

Font description file for font F of the latin1 device.

`/usr/share/groff/1.22.4/font/devutf8/DESC`

Device description file for the utf8 device.

`/usr/share/groff/1.22.4/font/devutf8/F`

Font description file for font F of the utf8 device.

`/usr/share/groff/1.22.4/font/devcp1047/DESC`

Device description file for the cp1047 device.

`/usr/share/groff/1.22.4/font/devcp1047/F`

Font description file for font F of the cp1047 device.

`/usr/share/groff/1.22.4/tmac/tty.tmac`

Macros for use with `grotty`.

`/usr/share/groff/1.22.4/tmac/tty-char.tmac`

Additional character definitions for use with `grotty`.

Note that on EBCDIC hosts, only files for the cp1047 device is installed.

BUGS

`grotty` is intended only for simple documents.

There is no support for fractional horizontal or vertical motions.

There is no support for `\D` commands other than horizontal and vertical lines.

Characters above the first line (i.e. with a vertical position of 0) cannot be printed.

Color handling differs from `grops(1)`. `\M` doesn't set the fill color for closed graphic objects (which `grotty` doesn't support anyway) but changes the background color of the character cell, affecting all subsequent operations.

SEE ALSO

groff(1), troff(1), groff_out(5), groff_font(5), groff_char(7), ul(1), more(1),

man(1), less(1)

groff 1.22.4

21 March 2020

GROTTY(1)