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1 Overview of help2man

help2man is a tool for automatically generating simple manual pages from program output.

Although manual pages are optional for GNU programs other projects, such as Debian require them (see section "Man Pages" in *The GNU Coding Standards*)

This program is intended to provide an easy way for software authors to include a manual page in their distribution without having to maintain that document.

Given a program which produces reasonably standard '--help' and '--version' outputs, help2man can re-arrange that output into something which resembles a manual page.

'--version'

Show help or version information.

2 How to Run help2man

```
The format for running the help2man program is:
     help2man [option]... executable
  help2man supports the following options:
'-n string'
'--name=string'
           Use string as the description for the 'NAME' paragraph of the manual page.
           By default (for want of anything better) this paragraph contains 'manual page for
           program version'.
           This option overrides an include file '[name]' section (see Chapter 4 [Including text],
'-s section'
'--section section'
           Use section as the section for the man page. The default section is 1.
'-m manual'
'--manual=manual'
           Set the name of the manual section to section, used as a centred heading for the
           manual page. By default 'User Commands' is used for pages in section 1, 'Games' for
           section 6 and 'System Administration Utilities' for sections 8 and 1M.
'-S source'
'--source=source'
           The program source is used as a page footer, and often contains the name of the
           organisation or a suite of which the program is part. By default the value is the
           package name and version.
'-L locale'
'--locale=locale'
           Select output locale (default 'C'). Both the program and help2man must support
           the given locale (see Chapter 6 [Localised man pages], page 7).
'-i file'
'--include=file'
           Include material from file (see Chapter 4 [Including text], page 5).
'-I file'
'--opt-include=file'
           A variant of '--include' for use in Makefile pattern rules which does not require
           file to exist.
'-o file'
'--output=file'
           Send output to file rather than stdout.
'-N'
'--no-info'
           Suppress inclusion of a 'SEE ALSO' paragraph directing the reader to the Texinfo
           documentation.
'--help'
```

By default help2man passes the standard '--help' and '--version' options to the executable although alternatives may be specified using:

3 '--help' Recommendations

Here are some recommendations for what to include in your '--help' output. Including these gives help2man the best chance at generating a respectable man page, as well as benefitting users directly.

See section "Command-Line Interfaces" in *standards*, and section "Man Pages" in *standards*, for the official GNU standards relating to '--help' and man pages.

• A synopsis of how to invoke the program. If different usages of the program have different invocations, then list them all. For example (edited for brevity):

```
Usage: cp [OPTION]... SOURCE DEST or: cp [OPTION]... SOURCE... DIRECTORY
```

Use argv[0] for the program name in these synopses, just as it is, with no directory stripping. This is in contrast to the canonical (constant) name of the program which is used in '--version'.

• A very brief explanation of what the program does, including default and/or typical behavior. For example, here is cp's:

```
Copy SOURCE to DEST, or multiple SOURCE(s) to DIRECTORY.
```

• A list of options, indented to column 2. If the program supports one-character options, put those first, then the equivalent long option (if any). If the option takes an argument, include that too, giving it a meaningful name. Align the descriptions in a convenient column, if desired. Note that to be correctly recognised by help2man the description must be separated from the options by at least two spaces and descriptions continued on subsequent lines must start at the same column.

Here again is an (edited) excerpt from cp, showing a short option with an equivalent long option, a long option only, and a short option only:

For programs that take many options, it may be desirable to split the option list into sections such as 'Global', 'Output control', or whatever makes sense in the particular case. It is usually best to alphabetize (by short option name first, then long) within each section, or the entire list if there are no sections.

- Any useful additional information about program behavior, such as influential environment variables, further explanation of options, etc. For example, cp discusses VERSION_CONTROL and sparse files.
- A few examples of typical usage, at your discretion. One good example is usually worth a thousand words of description, so this is highly recommended.
- In closing, a line stating how to email bug reports. Typically, mailing-address will be 'bug-program@gnu.org'; please use this form for GNU programs whenever possible. It's also good to mention the home page of the program, other mailing lists, etc.

The argp and popt programming interfaces let you specify option descriptions for '--help' in the same structure as the rest of the option definition; you may wish to consider using these routines for option parsing instead of getopt.

4 Including Additional Text in the Output

Additional static text may be included in the generated manual page by using the '--include' and '--opt-include' options (see Chapter 2 [Invoking help2man], page 2).

The format for files included with these option is simple:

```
[section]
text
/pattern/
text
```

Blocks of verbatim *roff text are inserted into the output either at the start of the given '[section]' (case insensitive), or after a paragraph matching '/pattern/'.

Patterns use the Perl regular expression syntax and may be followed by the 'i', 's' or 'm' modifiers (see section "perlre(1)" in *The* perlre(1) manual page)

Lines before the first section or pattern which begin with '-' are processed as options. Anything else is silently ignored and may be used for comments, RCS keywords and the like.

The section output order is:

```
NAME
SYNOPSIS
DESCRIPTION
OPTIONS
EXAMPLES
other
AUTHOR
REPORTING BUGS
COPYRIGHT
SEE ALSO
```

Any '[name]' or '[synopsis]' sections appearing in the include file will replace what would have automatically been produced (although you can still override the former with '--name' if required).

Other sections are prepended to the automatically produced output for the standard sections given above, or included at *other* (above) in the order they were encountered in the include file.

5 Using help2man With make

A suggested use of help2man in Makefiles is to have the manual page depend not on the binary, but on the source file(s) in which the '--help' and '--version' output are defined.

This usage allows a manual page to be generated by the maintainer and included in the distribution without requiring the end-user to have help2man installed.

An example rule for the program prog could be:

6 Producing Native Langauge Manual Pages.

Manual pages may be produced for any locale supported by both the program and help2man¹ with the '--locale' ('-L') option.

```
help2man -L fr_FR@euro -o cp.fr.1 cp
```

6.1 Changing the Location of Message Catalogs

When creating localised manual pages from a program's build directory it is probable that the translations installed in the standard location will not be (if installed at all) correct for the version of the program being built.

A preloadable library is provided with help2man which will intercept open(2) calls for message catalogs for the domain given by \$TEXTDOMAIN and re-map the requests to the appropriate file under ./po (or \$LOCALEDIR if given).

So for example:

```
LD_PRELOAD="hacklocaledir.so preloadable_libintl.so" TEXTDOMAIN=prog \ help2man -L fr_FR@euro -i prog.fr.h2m -o prog.fr.1 prog
```

will translate requests by prog for '/usr/share/locale/fr/LC_MESSGAES/PROG.mo' to 'po/fr.gmo'.

Notes:

- The generalisation of 'fr_FR@euro' to 'fr' in the example above is done by gettext, if a more specific match were available it would also have been re-mapped.
- The inclusion of preloadable_libintl.so in \$LD_PRELOAD is required only for cases (such as glibc) where gettext is built into libc (where __open would otherwise be satisfied internally).
- This preload hack has only been tested against glibc 2.3.1 and gettext 2.3.1 on a GNU/Linux system; let me know if it does (or doesn't) work for you (see Chapter 7 [Reports], page 8).

help2man currently supports 'fr_FR' and 'pl_PL' (see Chapter 7 [Reports], page 8 for how to submit other translations).

7 Reporting Bugs or Suggestions

If you find problems or have suggestions about this program or manual, please report them to bug-help2man@gnu.org.

Note to translators: when submitting new translations for po/help2man.pot please additionally translate help2man.h2m (used to augment the manual pages for help2man).

8 Obtaining help2man

The latest version of this distribution is available on-line from:

ftp://ftp.gnu.org/gnu/help2man/