

NAME

dof – (do-for) executes commands for each item of a list

SYNOPSIS

dof [**-efpr**] [**-s:N..N[..**N**]**] [**-l**] [**-h**] [**-v**] [item ... | -] [**-x** ...] [**-g** ...] **do** [command | -]

DESCRIPTION

dof executes commands for each item (file or string) of a list

```
# convert all mp3s to ogg
dof -e *.mp3 do ffmpeg -i "%f" "%b.ogg"

# display colors on terminal
dof -e -s:0..15 do 'tput setaf %f; echo colour%f; tput op;'

# remove all files except *.c and *.tex
dof -e * -g *.{c,tex} do 'rm %f'
```

OPTIONS

- read from stdin.
- e** execute; *dof* displays what commands would be run, this option executes them.
- x** exclude list; after **-x** are following regex's patterns to exclude items from the previous list. Since the *dof* parameters can be anything, this is no glob file-patterns but regex's patterns. Example '*.c' file-pattern should be written as '.*\c'.
- g** exclude list; after **-g** are following glob's patterns to exclude items from the previous list (beta). When the pattern is unquoted it will expanded by the shell otherwise *fnmatch()* will be used. In this case '()' and '{}' will be not expand. See **fnmatch(3)**
- r** recursive execution into subdirectories
- f** force non-stop; *dof* stops on error (exit code != 0), this option forces *dof* to ignore them.
- p** plain files only; directories, devices, etc are ignored.
- d** directories only; plain-files, devices, etc are ignored.
- s:F..L[..**S**]** adds a sequence of numbers (float or integer). *F* for first, *L* for last and optionally *S* for step. This option can be repeated many times.
- l** print recipes (/etc/dof.conf, ~/.dof)
- recipe** execute recipe (ex: dof --to-ogg)
- h** help screen.
- v** version and license information.

VARIABLES

In the 'commands' you can use several program's variables. Variables are recognized by prefix '%'. Variables and its modifiers can be included inside '{' '}' block or '(' ')' block.

- %f** the full string (or filename)
- %b** the basename (no directory, no extension)
- %d** the dirname (only the directory without the '/' suffix)
- %e** the extension without '.' prefix
- %%** the character '%'

MODIFIERS

Modifiers defined by ':' that follows a variable and modifies the result string. You can have unlimited number of modifiers.

lc... returns the string until the first occurrence of character 'c'.

rc... returns the string until the last occurrence of character 'c'.

is returns the string until the occurrence of string 's'.

FILES

dof reads */etc/dof.conf* and *~/.dof* files. These files contain recipes in form 'name: parameters'. These recipes can later be executed with *--name* option.

Example:

```
to-ogg: *.wav *.mp3 do 'ffmpeg -i "%f" "%b.ogg" && rm "%f" '  
to-png: *.jpg *.gif do 'convert "%f" "%b.png" && rm "%f" '
```

NOTES

Items '.' and '..' are ignored.

SEE ALSO

regex(7), **glob(3)**, **fnmatch(3)**

AUTHOR

Nicholas Christopoulos <nereus@freemail.gr>

Project page: <<https://github.com/nereusx/unix-utils>>