

**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 be 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)**

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