
filegardener Documentation

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Steve Morin

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Contents:

File gardener - file maintenance utilities - file dedup, only copy detection, prune empty dirs

- [Github Page](#)
- [Issue Tracking](#)

1.1 Contributions

I am completely open to contributions, just open a issue if you want to suggest a feature so we can discuss. If you want a project I need help implementing *mvbase*. I don't accept pull requests with out unit tests, you can look at examples

1.2 Install

```
> pip install filegardener
```

If you don't have pip it's also easy to install <https://pip.pypa.io/en/stable/installing/>

When filegardener installs it's installed on the commandline for you so you can just do.

```
> filegardener --help
```

1.3 Build

```
> make
```

1.4 Use-Cases

1.4.1 Checking for duplicate files

Sometimes you want to get a list of all files that are duplicates in a second directory.

1.4.2 Checking for the last or only copy of a file

Sometimes you want to check for the last or only copy of a file lives on a second drive or directory. This way you can make sure you don't delete the last copy of a file.

A common example would be if you have a bunch of USB Pen Drives and you want to wipe the drives clean but don't want to delete the last copy of a file. You can use this to compare all the files on your computer with what's on your pen drive.

Example:

```
time filegardener onlycopy --srcdir ~/Pictures --srcdir ~/Music /Volumes/MyUSBDrive/_
↩| tee list_onlycopyfiles_in_dst_dir.txt
```

If you want not fail on error and capture the list of file you only have 1 copy of and list of error in trying to check any file. This command will save the list of file you only have one copy of in stdout.log and any errors in stderr.log

```
time filegardener onlycopy --no-failonerror --srcdir ~/Pictures --srcdir ~/Music /
↩Volumes/MyUSBDrive > >(tee stdout.log) 2> >(tee stderr.log >&2)
```

1.5 Todo's

- click plugin integration
- filegardener histogram -file size
- filegardener check per bucket
- filegardener optimize is_match
-

1.6 Usage Summary

```
Usage: filegardener [OPTIONS] COMMAND [ARGS]...
```

```
For help on individual commands type:
```

```
filegardener <command> --help
```

```
Options:
```

```
-d, --debug / --no-debug  turn on/off debug mode
--version                  print programs version
-?, -h, --help             Show this message and exit.
```

```
Commands:
```


countdirs	countdirs command counts the number of...
countfiles	countfiles command counts the number of files...
dedup	Dedup command prints list of duplicate files...
emptydirs	emptydir command lists all the directories...
mvbase	mvbase will move a set of files from their...
onlycopy	onlycopy command prints list of all the files...
rmdirs	rmdirs will delete a set of dirs listed in...
rmfiles	rmfiles will delete a set of files listed in...
validatedirs	validatedirs reads in a file of dir paths and...
validatefiles	validatefiles reads in a file of file paths...

1.7 countdirs

```
> filegardener countdirs --help
```

Usage: filegardener countdirs [OPTIONS] CHECKDIR...

countdirs command counts the number of directories in the directories you give it (excludes dirs you give it)

Options:

-?, -h, --help Show this message and exit.

1.8 countfiles

```
> filegardener countfiles --help
```

Usage: filegardener countfiles [OPTIONS] CHECKDIR...

countfiles command counts the number of files in the directories you give it

Options:

-?, -h, --help Show this message and exit.

1.9 dedup

```
> filegardener dedup --help
```

Usage: filegardener dedup [OPTIONS] CHECKDIR...

Dedup command prints list of duplicate files in one or more checkdirs

Options:

-s, --srcdir DIRECTORY	directories to check [required]
-r, --relpath / --no-relpath	turn on/off relative path - default off
-?, -h, --help	Show this message and exit.

1.10 emptydirs

```
> filegardener emptydirs --help
```

Usage: filegardener emptydirs [OPTIONS] CHECKDIR...

emptydir command lists all the directories that no file in it or it's sub directories

Options:

-r, --relpath / --no-relpath turn on/off relative path - default off
-?, -h, --help Show this message and exit.

1.11 mvbase

This function isn't implemented yet and is a TODO:, if you want to contribute a pull request with tests that would be great!

```
> filegardener mvbase --help
```

Usage: filegardener mvbase [OPTIONS] DESTDIR

mvbase will move a set of files from their locations, at target directory to destdir

Options:

-b, --basedir DIRECTORY base directory to join each file path to
-b, --targetdir DIRECTORY location to move all files from [required]
-f, --file PATH file for input files [required]
-?, -h, --help Show this message and exit.

1.12 onlycopy

```
> filegardener onlycopy --help
```

Usage: filegardener onlycopy [OPTIONS] CHECKDIR...

onlycopy command prints list of all the files that aren't in the srcdir

Options:

-s, --srcdir DIRECTORY directories to check [required]
-r, --relpath / --no-relpath turn on/off relative path - default off
-f, --failonerror / --no-failonerror turn on/off failing on error - default on
-?, -h, --help Show this message and exit.

1.13 rmdirs

```
> filegardener rmdirs --help
```

```
Usage: filegardener rmdirs [OPTIONS] FILE...
```

```
    rmdirs will delete a set of dirs listed in the input file(s)
```

```
Options:
```

```
-b, --basedir DIRECTORY      base directory to join each file path to
-e, --exitonfail / --no-exitonfail
                               turn on/off exit on first failure
-?, -h, --help               Show this message and exit.
```

1.14 rmfiles

```
> filegardener rmfiles --help
```

```
Usage: filegardener rmfiles [OPTIONS] FILE...
```

```
    rmfiles will delete a set of files listed in the input file(s)
```

```
Options:
```

```
-b, --basedir DIRECTORY      base directory to join each file path to
-e, --exitonfail / --no-exitonfail
                               turn on/off exit on first failure
-?, -h, --help               Show this message and exit.
```

1.15 validatedirs

```
> filegardener validatedirs --help
```

```
Usage: filegardener validatedirs [OPTIONS] FILE...
```

```
    validatedirs reads in a file of dir paths and checks that it exists and
    passes test
```

```
Options:
```

```
-b, --basedir DIRECTORY      base directory to join each file path to
-e, --exitonfail / --no-exitonfail
                               turn on/off exit on first failure
-?, -h, --help               Show this message and exit.
```

1.16 validatefiles

```
> filegardener validatefiles --help
```

```
Usage: filegardener validatefiles [OPTIONS] FILE...
```

```
validatefiles reads in a file of file paths and checks that it exists
```

Options:

```
-b, --basedir DIRECTORY      base directory to join each file path to
-e, --exitonfail / --no-exitonfail
                               turn on/off exit on first failure
-?, -h, --help               Show this message and exit.
```

CHAPTER 2

Indices and tables

- `genindex`
- `modindex`
- `search`