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# py-rename

*Release 2.0*

Sep 11, 2020



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# CHAPTER 1

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Build Badges

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## 1.1 Installation

```
pip3 install py-rename
```

### 1.1.1 Requirements

- Python 3.6 (or higher)

## 1.2 Usage

### 1.2.1 Command line interface

Enter `py-rename -h` for help

```
$ py-rename -h
py-rename - Python rename tool for multiple files
```

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```

Usage:
py-rename [OPTIONS] COMMAND [COMMAND-OPTIONS]

Positional arguments:
  rename      rename files based on regex pattern
  match       rename files based on regex pattern
  prefix      prefix filenames with prefix string
  postfix     postfix filenames with prefix string
  lower       convert filenames to lowercase
  replace     replace spaces in filenames to _
  camelcase   convert filenames to camel case

Options:
  -h, --help      show this help message and exit
  -V, --version    show program version number and exit
  -s, --silent     do not print output (default: False)
  -n, --dryrun     Dry run: print names of files to be renamed, but do not
                  rename (default: False)
  -f, --full       Match only full filename against pattern (default:
                  False)

```

**Subcommand usage example:**

```

$ py-rename rename -h

Positional arguments:
  pattern      regex pattern to match filenames
  replacement  replacement regex pattern for renamed files

Options:
  -h, --help  show this help message and exit

```

## 1.2.2 Examples

### Example 1 - Renaming based on regex

Imagine you have some files awfully named like this:

- ab12+Red+(0000).txt
- ab12+Red+(0001).txt
- ab12+Red+(0002).txt

and you want to rename all of them in manner 01-Red.txt (extracting number from the end and put it at the beginning and shortening it to 2 digits).

#### Step 1: Test matching pattern

Regex pattern to match those files and extract 2 digit number should be like this: `.(00(d{2}))\).`

```

$ py-rename match ".+\(00(\d{2})\)\.+"
('matched ab12+Red+(0000).txt',)

```

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```
('matched ab12+Red+(0001).txt',)
('matched ab12+Red+(0002).txt',)
('files matched: 3',)
```

## Step 2: Test replacement pattern using dryrun flag

```
$ py-rename -n rename ".*\ (00(\d{2})\)." "\1-Red.txt"
Performing DryRun: No actions will be taken
('renaming: ab12+Red+(0000).txt --> 00-Red.txt',)
('renaming: ab12+Red+(0001).txt --> 01-Red.txt',)
('renaming: ab12+Red+(0002).txt --> 02-Red.txt',)
('files matched: 3',)
```

## Step 3: Actual renaming

```
$ py-rename rename ".*\ (00(\d{2})\)." "\1-Red.txt"
('renaming: ab12+Red+(0000).txt --> 00-Red.txt',)
('renaming: ab12+Red+(0001).txt --> 01-Red.txt',)
('renaming: ab12+Red+(0002).txt --> 02-Red.txt',)
('files matched: 3',)
```

## Example 2 - Add prefix string or postfix string to files

Imagine you have some files named like this:

- 00-Red.txt
- 01-Red.txt
- 02-Red.txt

Add prefix string:

```
$ py-rename prefix "test_"
('renaming: 00-Red.txt --> test_00-Red.txt',)
('renaming: 01-Red.txt --> test_01-Red.txt',)
('renaming: 02-Red.txt --> test_02-Red.txt',)
('files matched: 3',)
```

Add postfix string:

```
$ py-rename postfix "_test"
('renaming: 00-Red.txt --> 00-Red_test.txt',)
('renaming: 01-Red.txt --> 01-Red_test.txt',)
('renaming: 02-Red.txt --> 02-Red_test.txt',)
('files matched: 3',)
```

## 1.3 Code References

### 1.3.1 Main class

**class** `src.py_rename.RenameIt` (*dryrun, silent, full*)

This is a generic Rename class with several methods for various types of renaming.

Constructor args:

**Parameters**

- **dryrun** (*str, optional*) – just a dry run, no actual renaming performed
- **silent** (*str, optional*) – bare minimum will be printed
- **full** (*str, optional*) – apply regex on full filenames only

**bulk\_rename** (*rename\_func, \*args*)

Apply renaming function to multiple files

**Parameters**

- **rename\_func** – specific renaming function to apply
- **args** – args for the specific renaming function

**Returns** None

**camel\_case** (*filename*)

Amend filename to camel case

**Parameters** **filename** – str, filename

**Returns** True

**filename\_pattern\_rename** (*filename, pattern, replacement, match*)

Rename or match regex pattern, do the rename and return True or False if matched

**Parameters**

- **filename** – str, filename
- **pattern** – str, matching regex pattern
- **replacement** – str, replacing regex pattern, can be None
- **match** – match input based on re library

**Returns** True or False depending on if match or no match

**lower\_filename** (*filename*)

Make filename all lowercase

**Parameters** **filename** – str, filename

**Returns** True

**match\_filename** (*filename, pattern, replacement, full*)

Match filename function to generate matches

**Parameters**

- **filename** – str, filename
- **pattern** – str, matching regex pattern
- **replacement** – str, replacing regex pattern, can be None



- **full** – boolean, apply matching pattern on full filename

**Returns** True or False based on filename pattern rename

**postfix\_filename** (*filename, postfix\_str, include\_ext=False*)

Apply postfix to filename

**Parameters**

- **filename** – str, filename
- **postfix\_str** – str, postfix string to apply
- **include\_ext** – boolean, apply postfix to filename including file extension or not

**Returns** True

**prefix\_filename** (*filename, prefix\_str*)

Apply prefix to filename

**Parameters**

- **filename** – str, filename
- **prefix\_str** – str, prefix string to apply

**Returns** True

**replace\_space** (*filename, fill\_char='\_'*)

Replace spaces with a fill character

**Parameters**

- **filename** – str, filename
- **fill\_char** – str, char to replace spaces

**Returns** True

### 1.3.2 Argument parsing

`src.main.parse_args(args)`

Build argument parser function

**Parameters** **args** – str, arguments to parser

**Returns** parser args object

### 1.3.3 Main function

`src.main.main()`

Main function to read cli arguments and apply correct logic

**Returns** None

### 1.3.4 Unit Tests

Unit tests for this library are using pytest.

## 1.4 License

This library is released under the MIT License

### 1.4.1 MIT License

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## CHAPTER 2

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