OctoCheese

Release 0.7.0

Copy PyPI Packages to GitHub Releases

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Contents

This is a GitHub action, Python package and command line script that copies distribution files from PyPI ("The Cheese Shop") and adds them to the relevant tag in GitHub Releases.

Chapter

ONE

Installing as a Python package and script

1.1 from PyPI

```
$ python3 -m pip install octocheese --user
```

1.2 from GitHub

```
$ python3 -m pip install git+https://github.com/domdfcoding/octocheese@master --user
```

Chapter

TWO

GitHub Actions Usage

In a GitHub Workflow:

```yaml
name: "Copy PyPI to Releases"
on:
- push

jobs:
  releases:
    runs-on: ubuntu-latest
    steps:
    - uses: domdfcoding/octocheese@v0.7.0
      with:
        pypi_name: "domdf_python_tools"
      env:
        GITHUB_TOKEN: ${{secrets.GITHUB_TOKEN}}
```

2.1 Configuration

pypi_name

Type: str

Required: `True`

The name of the project on PyPI.

The `GITHUB_TOKEN` must also be supplied otherwise the action will fail.

Chapter

THREE

Script Usage

Invoke using the `octocheese` command or `python3 -m octocheese`.

Copy PyPI Packages to GitHub Releases.

```
octocheese [OPTIONS] PYPI_NAME
```

Options

-t, --token <token>
Required The token to authenticate with the GitHub API. Can also be provided via the ‘GITHUB_TOKEN’ environment variable.

-r, --repo <repo>
The repository name (in the format <username>/<repository>) or the complete GitHub URL.

-n, --max-tags <max_tags>
The maximum number of tags to process, starting with the most recent.

Default -1

-T, --traceback
Show the full traceback on error.

--no-self-promotion
Don’t show information about OctoCheese at the bottom of the release message.

--version
Show the version and exit.

Arguments

PYPI_NAME
Required argument.

Environment variables

GITHUB_TOKEN
Provides a default for *-t / --token*

Chapter

FOUR

API Reference

Table of Contents

Changed in version 0.3.0: All methods now take and return github3.py objects in place of their PyGithub counterparts.

4.1 `octocheese.__main__`

Entry points when running as a script.

Functions:

run(github_token, github_username, ... [, ...])	Helper function for when running as script or action.

run (*github_token*, *github_username*, *repo_name*, *pypi_name*, *self_promotion=True*, *max_tags=- 1*)

Helper function for when running as script or action.

Parameters

- **github_token** (`Secret`) – The token to authenticate with the GitHub API with. See `https://help.github.com/en/github/authenticating-to-github/creating-a-personal-access-token` for instructions on generating a token.
- **github_username** (`str`) – The username of the GitHub account that owns the repository.
- **repo_name** (`str`) – The name of the GitHub repository.
- **pypi_name** (`str`) – The name of the package on PyPI.
- **self_promotion** – Show information about OctoCheese at the bottom of the release message. Default `True`.
- **max_tags** (`int`) – The maximum number of tags to process, starting with the most recent. Set to `-1` to process all tags. Default `-1`.

Changed in version 0.1.0: Added the `self_promotion` option.

Changed in version 0.3.0: Added the `max_tags` option.

4.2 octocheese.colours

Functions for printing coloured text.

Functions:

error(text)	Prints the given text in red to stderr.
success(text)	Prints the given text in green to stdout.
warning(text)	Prints the given text in yellow to stderr.

error (*text*)
Prints the given text in red to stderr.

Parameters **text** (str) – The text to print.

success (*text*)
Prints the given text in green to stdout.

Parameters **text** (str) – The text to print.

warning (*text*)
Prints the given text in yellow to stderr.

Parameters **text** (str) – The text to print.

4.3 octocheese.core

The main logic of octocheese.

Functions:

copy_pypi_2_github(g, repo_name, … [, …])	The main function for OctoCheese.
make_release_message(name, version, release_date)	Create a release message.
update_github_release(repo, tag_name, pypi_name)	Update the given release on GitHub with the new name, message, and files.

copy_pypi_2_github (*g*, *repo_name*, *github_username*, ***, *changelog=''*, *pypi_name=None*, *self_promotion=True*, *max_tags=- 1*, *traceback=False*)
The main function for OctoCheese.

Parameters

- **g** (GitHub)
- **repo_name** (str) – The name of the GitHub repository.
- **github_username** (str) – The username of the GitHub account that owns the repository.
- **changelog** (str) – Default `''`.
- **pypi_name** (Optional[str]) – The name of the project on PyPI. Default The value of repo_name.

- **self_promotion** – Show information about OctoCheese at the bottom of the release message. Default `True`.
- **max_tags** (`int`) – The maximum number of tags to process, starting with the most recent. Set to `-1` to process all tags. Default `-1`.
- **traceback** (`bool`) – Show the full traceback on error. Default `False`.

Changed in version 0.1.0: Added the `self_promotion` option.

Changed in version 0.3.0:

- Added the optional `max_tags` option.
- Added the optional `traceback` parameter.

make_release_message (*name*, *version*, *release_date*, *changelog=''*, *self_promotion=True*)

Create a release message.

Parameters

- **name** (`str`) – The name of the software.
- **version** (`Union[str, float]`) – The version number of the new release.
- **release_date** (`date`) – The date of the release.
- **changelog** (`str`) – Optional block of text detailing changes made since the previous release.
- **self_promotion** – Show information about OctoCheese at the bottom of the release message. Default `True`.

Return type `str`

Returns The release message.

Changed in version 0.1.0: Added the `self_promotion` option.

update_github_release (*repo*, *tag_name*, *pypi_name*, *changelog=''*, *self_promotion=True*, *file_urls=()*, *traceback=False*)

Update the given release on GitHub with the new name, message, and files.

Parameters

- **repo** (`Repository`)
- **tag_name** (`str`)
- **pypi_name** (`str`) – The name of the project on PyPI.
- **changelog** (`str`) – The changelog entry for the release. Default `''`.
- **self_promotion** (`bool`) – Show information about OctoCheese at the bottom of the release message. Default `True`.
- **file_urls** (`Union[Iterable[str], Iterable[FileURL]]`) – The files to download from PyPI and add to the release. Either the files URLs themselves, or mappings giving the URL and its sha256 checksum. Default `()`.
- **traceback** (`bool`) – Show the full traceback on error. Default `False`.

Return type `Release`

Returns The release, and a list of URLs for the current assets.

Changed in version 0.3.0: Now takes a very different set of parameters to the previous version. Please read the current documentation carefully.

Chapter

FIVE

Contributing

OctoCheese uses tox to automate testing and packaging, and pre-commit to maintain code quality.

Install pre-commit with pip and install the git hook:

```
$ python -m pip install pre-commit
$ pre-commit install
```

5.1 Coding style

formate is used for code formatting.

It can be run manually via pre-commit:

```
$ pre-commit run formate -a
```

Or, to run the complete autoformatting suite:

```
$ pre-commit run -a
```

5.2 Automated tests

Tests are run with tox and pytest. To run tests for a specific Python version, such as Python 3.6:

```
$ tox -e py36
```

To run tests for all Python versions, simply run:

```
$ tox
```

5.3 Type Annotations

Type annotations are checked using mypy. Run mypy using tox:

```
$ tox -e mypy
```

5.4 Build documentation locally

The documentation is powered by Sphinx. A local copy of the documentation can be built with `tox`:

```
$ tox -e docs
```

Chapter

SIX

Downloading source code

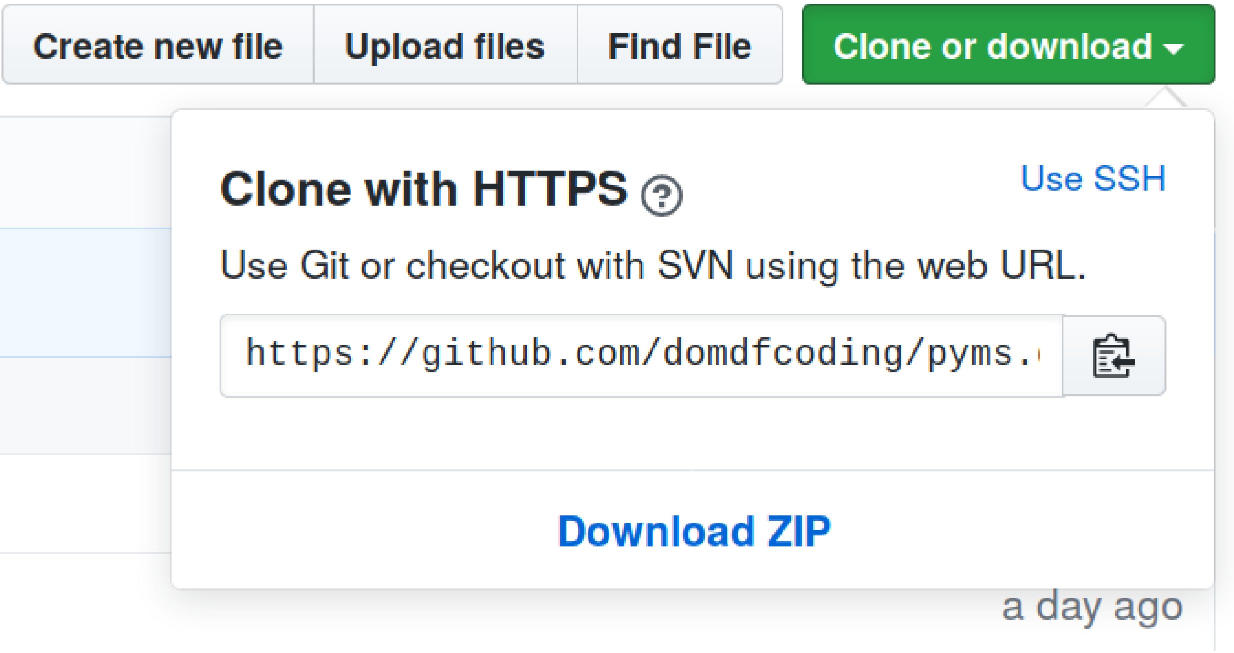
The OctoCheese source code is available on GitHub, and can be accessed from the following URL: https://github.com/domdfcoding/octocheese

If you have git installed, you can clone the repository with the following command:

```
$ git clone https://github.com/domdfcoding/octocheese
```

```
Cloning into 'octocheese'...
remote: Enumerating objects: 47, done.
remote: Counting objects: 100% (47/47), done.
remote: Compressing objects: 100% (41/41), done.
remote: Total 173 (delta 16), reused 17 (delta 6), pack-reused 126
Receiving objects: 100% (173/173), 126.56 KiB | 678.00 KiB/s, done.
Resolving deltas: 100% (66/66), done.
```

Alternatively, the code can be downloaded in a 'zip' file by clicking:
Clone or download –> Download Zip



Use Git or checkout with SVN using the web URL.

```
https://github.com/domdfcoding/pyms.
```

Fig. 1: Downloading a 'zip' file of the source code

6.1 Building from source

The recommended way to build `OctoCheese` is to use tox:

```
$ tox -e build
```

The source and wheel distributions will be in the directory `dist`.

If you wish, you may also use pep517.build or another **PEP 517**-compatible build tool.

Chapter

SEVEN

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```
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