
py3-bp

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Contents

1	Python 3 boilerplate template	1
1.1	Current project features	1
1.2	Usage	2
1.3	Roadmap	2
1.4	Project python version	2
2	Templates internals description	3
2.1	CI/CD engines available	3
2.2	Licenses available	3
2.3	Python versions available	21
2.4	Soft links in templates	21
2.5	Sphinx documentation engine template	22
2.6	Issues and Pull request templates for Github and Gitlab sites	22
3	Changelog	25
3.1	Unreleased	25
3.2	[0.0.4] - 2019-09-20	25
3.3	[0.0.3] - 2019-09-19	26
4	License	27

Python 3 boilerplate template

docs build

As a [freelancer](#) I often require to do small projects on python. As any developer I do not like to do same boilerplate work each time, but I like to work in expected environment. So I decided to make this small project and include everything I often need in one place.

This project for small non-web projects.

Project is under development. Unreleased features available at master branch. Most fresh changes data available in [CHANGELOG](#)

1.1 Current project features

- Readme file generation for new projects. Available formats: Markdown or reStructuredText
- Authors file generation for new projects. Available formats: Markdown or reStructuredText
- Changelog file generation for new projects. Available formats: Markdown or reStructuredText
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- Sphinx doc folder and project generation. Configured for separated source and build folders.
- setup.py and setup.cfg generation.
- requirements.txt and requirements.dev generation based on template choices.

1.2 Usage

Single time usage example, requires installation of [Cookiecutter](#):

```
cookiecutter https://github.com/insspb/py3-bp
```

1.3 Roadmap

- Include pytest sample tests if pytest enabled
- Include tox sample configuration files
- Include nox sample configuration files
- Include Alembic sample configuration files
- Include Travis CI sample configuration files
- Include Gitlab CI sample configuration files
- Include AppVeyor CI sample configuration files

Currently this project is in 'I have an idea' stage.

1.4 Project python version

This project is developed and tested on python version 3.6 and python 3.7, but should work under any python 3.2+.

Templates internals description

This section contains description of features included in templates and why one or another solutions was chosen. This documents has some recommendations on best selections recommended for wide use.

2.1 CI/CD engines available

2.2 Licenses available

Implemented in 0.0.3

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Copyright (C) <year> <name of author>
```

```
This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
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```
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This is free software, and you are welcome to redistribute it
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You can click license link to look at template that was used for particular text. I recommend use of <https://choosealicense.com> to choose you license wisely.

Warning: If None selected, license file will be dropped.

Feel free to make pull request with new license included.

License pull request should have:

- License template for `LICENSE` file in project root.
- License template for `docs/license.rst` file.
- License option in `setup.py` file.

2.3 Python versions available

Implemented in 0.0.3

This boilerplate include two questions about python version for your project. First is minimum python version supported, second is maximum python version supported. This two answers should be between available python versions:

- Python 2.7
- Python 3.2
- Python 3.3
- Python 3.4
- Python 3.5
- Python 3.6
- Python 3.7
- Python 3.8

With default settings only three of them enabled:

- Python 3.6
- Python 3.7
- Python 3.8

This setting required to configure documentation templates, `setup.py` template and CI/CD templates if enabled.

For most freelance projects it is highly recommended to drop as much old python versions, as possible. This makes development and testing straightforward and exclude compatibility issues solving for developer and customer.

2.4 Soft links in templates

As a developer I do not like to make duplicates of same data in project. To exclude duplicates Sphinx documentation in template use soft links to documents located at project core directory.

By default this list of files has soft links:

- `README.rst`
- `README.md`
- `CHANGELOG.rst`
- `CHANGELOG.md`
- `AUTHORS.rst`
- `AUTHORS.md`
- `HISTORY.rst`
- `HISTORY.md`

Some soft links will be deleted after project creation.

If you choose rst format for one of document - Markdown files and links will be removed. And vice versa. This setting works per document type.

If *None* chosen for either *README* or *CHANGELOG* corresponding files will be removed.

By default only *README.md* will be created.

Note: Soft links in windows works with Windows 10 and up.

2.5 Sphinx documentation engine template

Implemented in 0.0.4

During project generation you will be asked about installation of basic Sphinx documentation template. Question:

- Use Sphinx documentation?

Default answer is *yes* and by default `docs` folder and related entries to `requirements.dev` will be created.

Selection of this option will add dependency for following list of packages:

- `sphinx` - basic Sphinx engine
- `sphinx-rtd-theme` - my theme of preference to use with docs engine
- `doc8` - RST files style checker
- `recommonmark` - plugin, that allow usage of Markdown files in Sphinx documentation

Included configuration accept `docs/source` folder of new project as documentation source, and will place generated docs to `docs/build` folder.

Based on other questions on installation stage following files will be included in default documentation:

- `README`
- `CHANGELOG`
- `AUTHORS`
- `LICENSE`

You can generate docs and check them before initial push with following commands sequence:

```
pip install -r requirements.dev
cd docs
make html
```

Then open `build/html/index.html` file with your favorite browser.

2.6 Issues and Pull request templates for Github and Gitlab sites

Implemented in 0.0.4

This template is compatible with [Github issues templates](#) and [Gitlab description templates](#) features.

During execution of this template you would be asked about templates installation for popular version control systems:

- Install issues templates?

You can install templates for one of engines, by selecting relevant option, or install templates for both systems, what is rarely required.

Default answer is `no`, so templates would not be installed by default.

If you select `Github` or `Gitlab` related folder will be created. When you select `both` both folders will be created, but it is rare case when this is required.

- Github related templates will be located in generated project root, in `.github` hidden folder.
- Gitlab related templates will be located in generated project root, in `.gitlab` hidden folder.

Both folder contains almost similar issues and pull request templates, in Markdown format, updated for Gitlab or Github requirements.

There is no option to select witch templates to install on generation phase, so if you do not need some fo them - just delete related files before init commit.

Included issue templates:

- Bug report
- Documentation report
- Enhancement request

Only general pull request included.

All notable changes to this project will be documented in this file.

The format is based on [Keep a Changelog](#), and this project adheres to [Semantic versioning](#).

3.1 Unreleased

Unreleased features are usually available in HEAD master branch.

3.2 [0.0.4] - 2019-09-20

3.2.1 Added

- Generation of pull request templates for Github and Gitlab engines.
- Generation of issues templates for Github and Gitlab engines.
- Github/Gitlab related templates documentation
- Sphinx related templates documentation

3.2.2 Fixed

- Sphinx template now include README, CHANGELOG, AUTHORS, LICENSE files correctly.

3.2.3 Removed

- `None` option removed for “Readme format?” question. Reason: `None` selection can break other parts of template generation.

3.3 [0.0.3] - 2019-09-19

3.3.1 Added

- Readme file generation for new projects. Available formats: Markdown or reStructuredText
- Authors file generation for new projects. Available formats: Markdown or reStructuredText
- Changelog file generation for new projects. Available formats: Markdown or reStructuredText
- License file generation for new projects. Generated as LICENSE in root folder and as reStructuredText in docs folder. Available licenses:
 - MIT
 - BSD-3
 - GNU GPL v3.0
 - Apache Software License 2.0
 - unlicensed (Public domain)
- Sphinx doc folder and project generation. Configured for separated source and build folders.
- setup.py and setup.cfg generation.
- requirements.txt and requirements.dev generation based on template choices.

CHAPTER 4

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