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# **easyssetup Documentation**

***Release 0.0.10***

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## CONTENTS

<b>1</b>	<b>Description, features and To do</b>	<b>3</b>
<b>2</b>	<b>Installation, usage and options</b>	<b>5</b>
<b>3</b>	<b>Resources and contributing</b>	<b>7</b>
<b>4</b>	<b>Reference</b>	<b>9</b>
4.1	common . . . . .	9
4.2	easysetup . . . . .	9
4.3	localization . . . . .	10
<b>5</b>	<b>ChangeLog</b>	<b>11</b>
<b>6</b>	<b>License</b>	<b>13</b>
<b>7</b>	<b>Authors</b>	<b>19</b>
	<b>Python Module Index</b>	<b>21</b>



Helps creating a package distribution setup, that also runs tests, checkers and creates HTML and PDF documentation, for Windows users.



## DESCRIPTION, FEATURES AND TO DO

### Description

*easysetup* helps creating a package distribution setup, that also runs tests and creates HTML and PDF documentation, for Windows users.

When running *easysetup* without options, everything on the current directory is moved to a `_bak` directory.

After running *easysetup*, you can find a `build.cmd` in the current directory that should be run to build your application (execute `build -h` to see usage options).

### Features:

- Easy to use, just run *easysetup* from your application setup directory (it backups everything in current directory to `_bak` directory when run without options).
- Allows creating source, wheel, win (exe or msi), py2exe, egg, dumb (zip on windows, tar/ztar/gztar/zip on GNU Linux in the future) and rpm (on GNU Linux in the future) dists.
- All setup configuration is in one file (`appinfo.py`).
- Runs tests and creates HTML and PDF documentation (if you have them, of course).
- Can publish to PyPI (including documentation if exists) and PyPI tests.
- Creates `index.html` with redirection to RTD, to be used if preferred for hosting documentation.
- Creates templates for Travis, Shippable and tox.
- Creates a template for development requirements.
- Creates a template for installation requirements.
- Creates a template for git VCS exceptions.
- Creates a template for files to be included in the setup.
- Creates a template for a README file.
- Creates a template for wheel setup and Sphinx documentation upload.
- Can create template files in the doc directory (assumes use of Sphinx and that the `sphinx-quickstart` command was already executed).
- Can create an updated `reference.rst` in the doc directory (assumes previous item with the `autodoc` extension).
- Updates usage section in `README.rst` based on `usage.txt`, if it exists inside your application directory.
- Saves answers (`DEFAULT_AUTHOR`, `DEFAULT_EMAIL`, `DEFAULT_LICENSE`, `DEFAULT_URL` and `DEFAULT_VERSION`) for future use in other applications.
- Recreates `reference.rst` in the doc directory on each build (can be disabled inside `build.cmd` by changing the `REBUILD_REFERENCE=YES` to other value).

- If the setup directory is empty then a main template file is created inside the application directory.
- Checks source code with flake8 and pylint.

### To do

- Add appveyor templates.
- Auto rebuild requirements.txt on each dist build.
- Change easysetup from Windows only to universal (move build.cmd functionality to easysetup.py).
- CXF in Py2 and Py3.
- Checks and error messages.
- Compile TODOs from py files into README.



## INSTALLATION, USAGE AND OPTIONS

### Installation

```
$ pip install easysetup
```

### Usage

```
$ easysetup
```

### Options

```
$ easysetup -h
```

```
usage: easysetup [-option]
```

```
optional arguments:
```

-d, --doc	creates template files in the doc directory
-h, --help	show this help message
-l, --license	show license

<code>-q, --quiet</code>	no banner
<code>-r, --reference</code>	creates an updated reference.rst in the doc directory
<code>-V, --version</code>	show version

No arguments (or only `-q, --quiet`) creates setup files.  
easysetup should always be run from the application setup directory.

## RESOURCES AND CONTRIBUTING

### Resources

- [Repository](#)

### Contributing

1. Fork the [repository](#) on GitHub.
2. Make a branch of master and commit your changes to it.
3. Ensure that your name is added to the end of the AUTHORS.rst file using the format: Name <email@domain.com>
4. Submit a Pull Request to the master branch on GitHub.



## REFERENCE

### 4.1 common

Common constants and functions.

`common.banner()`

Returns banner text.

`common.license_()`

Returns license text, read from a file.

`common.load_data()`

Load data (list).

`common.save_data(data_lst)`

Save data (list).

`common.sleep(seconds=5)`

Pause for specified time.

`common.usage()`

Returns usage text, read from a file.

`common.version()`

Returns version.

### 4.2 easysetup

Helps creating a package distribution setup for Windows users.

`easysetup.create_redir2rtd_zip()`

Create zip of index.html that redirects pythonhosted to RTD.

`easysetup.create_setup()`

Copy files from template and update them with user input.

`easysetup.get_app_info()`

Read application info from appinfo.py.

`easysetup.main()`

Process command line args.

`easysetup.update_doc()`

Update doc dir.

`easysetup.update_file(filename)`

Update file with user input.

`easysetup.update_ref()`

Creates a new doc/reference.rst for Sphinx autodoc extension.

## 4.3 localization

Localization.

`localization.sys_lang()`

Get system language.

## CHANGELOG

### 0.0.10 2015-04-27

Recreates reference.rst in the doc directory on each build. Can be disabled inside build.cmd by remarking the REBUILD\_REFERENCE=YES line.  
Checks PEP8 (flake8) and Py3 compatibility (pylint --py3k).  
Py3 compatibility check can be disabled inside build.cmd by remarking the CHECK\_PY3\_COMPATIBILITY=YES line.  
Code cleanup.  
Change sphinx theme when in RTD.

### 0.0.9 2015-04-26

Remove Sphinx upload section from setup.cfg.  
Update README.rst.  
Save answers (DEFAULT\_AUTHOR, DEFAULT\_EMAIL, DEFAULT\_URL, DEFAULT\_VERSION and DEFAULT\_LICENSE) for future use in other applications.  
py2exe build now works with Py3 (tested with Anaconda).

### 0.0.8 2015-04-26

Add files and dirs to .gitignore.  
Correct setup\_py2exe.py to include doc if exists.  
Add warning to py2exe build.  
Add ERRORLEVEL check when publishing dists to PyPI.

### 0.0.6 2015-04-26

Add dumb, msi and rpm options to build.cmd.  
Update README.rst.  
Correct os.linesep to '\n' in update\_copyright() (setup-utils.py).

### 0.0.5 2015-04-25

Improve Py3 compatibility.  
Update rst files to improve docs.  
Add defaults to setup questions.  
Add build.cmd usage info.  
Update requirements.txt and requirements-dev.txt.  
Add delay between templates copying and renaming application directory.

### 0.0.4 2015-04-20

Update README.rst.  
Updates usage section in README.rst based on usage.txt (which resides inside your application directory).

### 0.0.3 2015-04-20

Update README.rst.

### 0.0.2 2015-04-20

Remove rst2pdf module due to Py3 incompatibility.  
Add To do list to README.rst.

### 0.0.1 2015-04-19

Create build.cmd to build source, egg, wheel, win, py2exe, cxf (still not working), doc and run tests.  
Add PyPI and PyPItest uploads.  
Create single file for setup info (appinfo.py) that can be used by the application itself.  
Create templates for Travis, Shippable and tox.  
Create template for development requirements (requirements-dev.txt).  
Create empty template for installation requirements (requirements.txt).  
Create template for git VCS exceptions (.gitignore).  
Create template for files to be included in the setup (MANIFEST.in).  
Create template for a README file (README.rst).  
Create template for wheel setup and Sphinx documentation upload (setup.cfg).  
Create option (-d) to copy templates to doc dir (ncludes option -r below).  
Create option (-r) to update doc\reference.rst.



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**c**

common, 9

**e**

easysetup, 9

**l**

localization, 10