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# **easysetup Documentation**

***Release 0.0.15***

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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

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).

Before running `build.cmd` for the first time, you should execute

```
$ pip install -r requirements-dev.txt
```

to install it's requirements.

### 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 Py3 compatibility with pylint.
- Add URLs to README.rst for PyPI, PyPI documentation site and RTD.

### 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
-q, --quiet	no banner
-r, --reference	creates an updated reference.rst in the doc directory
-V, --version	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 PyPI](#)
- [Documentation PyPI](#)
- [Repository Github](#)
- [Documentation Read the Docs](#)

### Contributing

If Other repository above is Github or compatible, follow these guidelines for contributing:

1. Fork the [repository](#) .
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.



## 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

### 0.0.15 2015-05-04

Correct `change_sphinx_theme()`.  
Correct `requirements-dev.txt`.  
Clarify some messages.

### 0.0.14 2015-05-02

Update `.gitignore`.

### 0.0.13 2015-05-02

Update usage template.  
Correct `index.html`.  
Update `build.cmd`.

### 0.0.12 2015-05-02

Include missing file in git (`APPLICATION_NAME.py`).

### 0.0.11 2015-05-02

Correct `README.rst`.  
Correct `upd_usage_in_readme()` text alignment.

### 0.0.10 2015-05-02

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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