

---

# **easyssetup Documentation**

***Release 0.0.16***

**Joao Carlos Roseta Matos**

2015-05-08



## 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

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 easyssetup from Windows only to universal (move build.cmd functionality to easyssetup.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(data_format=0)`

Load data (list).

**data\_format:** 0 = json 1 = pickle

`common.save_data(data_lst, data_format=0)`

Save data (list).

**data\_format:** 0 = json 1 = pickle

`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

### 0.0.16 2015-05-08

Changed data format to json.  
Improved Unicode compliance.  
Corrected yaml files for Travis and Shippable.  
Replaced `unicode()` for `.decode()`.  
Added `comment_import_for_py2exe()` and  
`uncomment_import_for_py2exe()` in `setup_utils.py` to solve  
py2exe unicode errors (for the moment).

### 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 (includes option -r below).  
Create option (-r) to update doc\reference.rst.



**LICENSE**

easysetup - Helps creating a package distribution setup for Windows users.  
Copyright 2009-2015 Joao Carlos Roseta Matos

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 2 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.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

GNU GENERAL PUBLIC LICENSE  
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc., <<http://fsf.org/>>  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it

in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty;

and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

## AUTHORS

Joao Carlos Roseta Matos <[jermatos@gmail.com](mailto:jermatos@gmail.com)>





**c**

common, 9

**e**

easysetup, 9

**l**

localization, 10