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# **ArduinoDocs Documentation**

***Release 1.0***

**ArduinoDocs**

**Mar 31, 2017**



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This is a tool to generate and publish online documentation for Arduino libraries. It uses [Sphinx](#), [Doxygen](#) and [Breathe](#) to build documentation from the source code of your Arduino library and publish it online on [ReadTheDocs](#).

- Source code: <https://github.com/circuitar/ArduinoDocs>
- Documentation: <http://arduino docs.readthedocs.org>



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## Online Documentation

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To add online documentation to your library on [ReadTheDocs](#), you just need to follow these steps:

1. Install [Python](#)
2. Add documentation to your Arduino library using the [Doxygen standard](#)
3. Add a `README.rst` and make sure to add a `----` transition somewhere. The `README` text will be included in the documentation up to that point.
4. Copy `arduinodocs.py` to the root directory of your library and run it
5. Push your library code to [GitHub](#)
6. Publish it to [ReadTheDocs](#)
  - (a) Click “Import a Project”
  - (b) Connect to your GitHub account if you haven’t done it yet
  - (c) Click “Import from GitHub”
  - (d) Select you project and click “Create”
  - (e) Enter the project page in [ReadTheDocs](#), click on `Admin > Advanced Settings` and use `extras/docs/requirements.txt` as the requirements file
7. Wait for your online documentation to build automatically. Enjoy!

Every time you push changes to your Github repository, the documentation will be automatically rebuilt by [ReadTheDocs](#).

This repository itself has been set up as an Arduino library called `ArduinoDocs` (see `ArduinoDocs.h` and `ArduinoDocs.cpp`). You can look at those files to see how to document your library code, and see how the auto-generated documentation looks in <http://arduinodocs.readthedocs.org>





## CHAPTER 2

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### Local Build

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If you want to build the documentation locally, you need to:

1. Install [Sphinx](#): `pip install Sphinx`
2. Install [Breathe](#): `pip install breathe`
3. Download and install [Doxygen](#)
4. Follow the steps in the [Online Documentation](#) section up to the point where `arduinodocs.py` is run
5. `cd` to the docs directory
6. Run `doxygen` to extract the documentation from your source code
7. Run `sphinx-build -b html . _build/html` to generate the HTML documentation
8. Check documentation generated in `_build/html`



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## Class Documentation

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### class **ArduinoDocs**

Brief description of the *ArduinoDocs* class.

Detailed description of the *ArduinoDocs* class.

### Public Functions

#### **ArduinoDocs** ( )

Constructor.

Detailed constructor description.

#### void **method1** ( )

Brief documentation for *method1()*.

Detailed documentation for *method1()*.

#### int **method2** (int *p1*, int *p2*)

Brief documentation for *method2()*.

Detailed documentation for *method2()*.

**Return** return value for *method2()*.

#### **Parameters**

- *p1*: *method2()*'s first parameter.
- *p2*: *method2()*'s second parameter.

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This documentation was built using *ArduinoDocs*.



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ArduinoDocs (C++ class), [7](#)

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