# Contributing Guide

\* Check the [GitHub Issues](https://github.com/burnash/gspread/issues) for open issues that need attention.

\* Follow the [How to submit a contribution](https://opensource.guide/how-to-contribute/#how-to-submit-a-contribution) Guide.

\* Make sure unit tests pass. Please read how to run unit tests below.

\* If you are fixing a bug:

\* If you are resolving an existing issue, reference the issue id in a commit message `(fixed #XXX)`.

\* If the issue has not been reported, please add a detailed description of the bug in the PR.

\* Please add a regression test case.

\* If you are adding a new feature:

\* Please open a suggestion issue first.

\* Provide a convincing reason to add this feature and have it greenlighted before working on it.

\* Add tests to cover the functionality.

\* Please follow [Style Guide for Python Code](https://www.python.org/dev/peps/pep-0008/).

## Testing

1. [Obtain OAuth2 credentials from Google Developers Console](http://gspread.readthedocs.org/en/latest/oauth2.html)

2. Install test requirements:

```

pip install -r test-requirements.txt

```

3. Run tests:

```

GS\_CREDS\_FILENAME=<YOUR\_CREDS.json> nosetests -vv tests/test.py

```

where `YOUR\_CREDS.json` is a path to the file you downloaded in step 1.

\*\*Tip:\*\* To run a specific test method append its name in the form of `:TestClassName.test\_method\_name` to `tests/test.py`.

Example:

```

GS\_CREDS\_FILENAME=<YOUR\_CREDS.json> nosetests -vv tests/test.py:WorksheetTest.test\_find

```

\*\*Note:\*\* gspread uses [Betamax](https://github.com/betamaxpy/betamax) to record and replay HTTP interactions with Sheets API.

You can control Betamax's [Record Mode](https://betamax.readthedocs.io/en/latest/record\_modes.html) using `GS\_RECORD\_MODE` environment variable:

```

GS\_RECORD\_MODE=all GS\_CREDS\_FILENAME=<YOUR\_CREDS.json> nosetests -vv tests/test.py

```

## Render Documentation

The documentation uses [reStructuredText](http://www.sphinx-doc.org/en/master/usage/restructuredtext/index.html#rst-index) markup and is rendered by [Sphinx](http://www.sphinx-doc.org/).

To build the documentation locally, install Sphinx:

```

pip install Sphinx

```

Then from the project directory, run:

```

sphinx-build -b html docs html

```

Once finished, the rendered documentation will be in `html` folder. `index.html` is an entry point.