# gitcoach Documentation

Release 0.2.0

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## gitcoach

Gitlearn and gitcoach are a pair of tools for helping me, and hopefully other people, better understand large projects living in Git by trying to identify codependent pieces of code.

• Free software: BSD license

• Documentation: http://gitcoach.rtfd.org.

#### 1.1 Installation

The easiest way to install gitcoach is through pip:

```
$ pip install gitcoach
```

### 1.2 Usage

To generate the prediction data, run gitlearn. This might take a long time:

```
commit. 
 --threshold THRESHOLD, -t THRESHOLD 
 Threshold for co-incidence ratio (default=0.8).
```

#### Example output of *gitcoach*:

```
Here are some files you might want to look at:
```

```
travis.yml suggested by README.rst (0.500000)
tox.ini suggested by README.rst (0.500000)
setup.py suggested by README.rst (0.500000)
requirements.txt suggested by README.rst (0.500000)
```

# Installation

#### At the command line:

\$ easy\_install gitcoach

#### Or, if you have virtualenvwrapper installed:

- \$ mkvirtualenv gitcoach
- \$ pip install gitcoach

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# Usage

To use gitcoach in a project:

import gitcoach

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## Contributing

Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given. You can contribute in many ways:

### 4.1 Types of Contributions

#### 4.1.1 Report Bugs

Report bugs at https://github.com/mhoye/gitcoach/issues.

If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

#### 4.1.2 Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with "bug" is open to whoever wants to implement it.

#### 4.1.3 Implement Features

Look through the GitHub issues for features. Anything tagged with "feature" is open to whoever wants to implement it.

#### 4.1.4 Write Documentation

gitcoach could always use more documentation, whether as part of the official gitcoach docs, in docstrings, or even on the web in blog posts, articles, and such.

#### 4.1.5 Submit Feedback

The best way to send feedback is to file an issue at https://github.com/tarmstrong/gitcoach/issues.

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome:)

#### 4.2 Get Started!

Ready to contribute? Here's how to set up *gitcoach* for local development.

- 1. Fork the gitcoach repo on GitHub.
- 2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/gitcoach.git
```

3. Install your local copy into a virtualenv. Assuming you have virtualenvwrapper installed, this is how you set up your fork for local development:

```
$ mkvirtualenv gitcoach
$ cd gitcoach/
$ python setup.py develop
```

4. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

Now you can make your changes locally.

5. When you're done making changes, check that your changes pass flake8 and the tests, including testing other Python versions with tox:

```
$ flake8 gitcoach tests
$ python setup.py nosetests
$ tox
```

To get flake8 and tox, just pip install them into your virtualenv.

6. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -m "Your detailed description of your changes."
$ git push origin name-of-your-bugfix-or-feature
```

7. Submit a pull request through the GitHub website.

### 4.3 Pull Request Guidelines

Before you submit a pull request, check that it meets these guidelines:

1. The pull request should include tests.

- 2. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring, and add the feature to the list in README.rst.
- 3. The pull request should work for Python 2.6, 2.7, and 3.3, and for PyPy. Check https://travisci.org/mhoye/gitcoach/pull\_requests and make sure that the tests pass for all supported Python versions.

# **Credits**

## 5.1 Development Lead

• Mike Hoye <mhoye@mozilla.com>

### **5.2 Contributors**

• Tavish Armstrong <a href="mailto:<a href="mailto:Tavisharmstrong@gmail.com">tavisharmstrong@gmail.com</a>

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### CHAPTER 6

# **History**

TODO

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