# Contributing to PyTorch Geometric

If you are interested in contributing to PyTorch Geometric, your contributions will fall into two categories:

1. You want to implement a new feature:

- In general, we accept any features as long as they fit the scope of this package. If you are unsure about this or need help on the design/implementation of your feature, post about it in an issue.

2. You want to fix a bug:

- Feel free to send a Pull Request any time you encounter a bug. Please provide a clear and concise description of what the bug was. If you are unsure about if this is a bug at all or how to fix, post about it in an issue.

Once you finish implementing a feature or bug-fix, please send a Pull Request to https://github.com/rusty1s/pytorch\_geometric.

## Developing PyTorch Geometric

To develop PyTorch Geometric on your machine, here are some tips:

1. Uninstall all existing PyTorch Geometric installs:

```

pip uninstall torch-geometric

pip uninstall torch-geometric # run this command twice

```

2. Clone a copy of PyTorch Geometric from source:

```

git clone https://github.com/rusty1s/pytorch\_geometric

cd pytorch\_geometric

```

3. If you already have a PyTorch Geometric from source, update it:

```

git pull

```

4. Install PyTorch Geometric in `develop` mode:

```

python setup.py develop

```

This mode will symlink the Python files from the current local source tree into the Python install.

Hence, if you modify a Python file, you do not need to reinstall PyTorch Geometric again and again.

5. Ensure that you have a working PyTorch Geometric installation by running the entire test suite with

```

python setup.py test

```

In case an error occurs, please first check if all sub-packages ([`torch-scatter`](https://github.com/rusty1s/pytorch\_scatter), [`torch-sparse`](https://github.com/rusty1s/pytorch\_sparse), [`torch-cluster`](https://github.com/rusty1s/pytorch\_cluster) and [`torch-spline-conv`](https://github.com/rusty1s/pytorch\_spline\_conv)) are on its latest reported version.

## Unit Testing

PyTorch Geometric's testing is located under `test/`.

Run the entire test suite with

```

python setup.py test

```

or run individual test files, like `pytest --no-cov test/utils/test\_convert.py`, for individual test suites.

## Continuous Integration

PyTorch Geometric uses [Travis CI](https://travis-ci.org/rusty1s/pytorch\_geometric) in combination with [CodeCov](https://codecov.io/github/rusty1s/pytorch\_geometric?branch=master) for continuous integration.

Everytime you send a Pull Request, your commit will be built and checked against the PyTorch Geometric guidelines:

1. Ensure that your code is formatted correctly by testing against the styleguides of [`flake8`](https://github.com/PyCQA/flake8) and [`pycodestyle`](https://github.com/PyCQA/pycodestyle):

```

pycodestyle torch\_geometric test examples

flake8 torch\_geometric test examples

```

If you do not want to format your code manually, we recommend to use [`yapf`](https://github.com/google/yapf).

2. Ensure that the entire test suite passes and that code coverage roughly stays at 100%.

Please feel encouraged to provide a test with your submitted code.

```

python setup.py test

```