

Continuous integration (CI) is a software development best practice. When using CI, all code that development teams produce is merged into a central repository, where an automated build can validate it. This practice helps development teams detect problems, identify bugs, and fix those problems and bugs before releasing changes

Steps for doing CI:

- Go to the **Travis CI** website and click Sign Up
- Click **Authorize travis-ci** to log in with your GitHub credentials, then enter your GitHub password.
- When you've logged in. Find the somesh_protyush repository and turn on Travis CI for your repository.
- Open the root of your GitHub project and create a new file named .travis.yml.
- That's the file that will contain your Travis configuration for the repo. YML extension stands for YAML(YAML Ain't Markup Language), which is basically a specification for data exchange format, similar to JSON.
- According to the programming language of the project, make the necessary changes.
- Next every commit will run a build.

Badges in a code repositories are to signal to fellow developers as coding standards, thinking of them as the software-equivalent.

Steps for adding badges:

- For CI one needs to setup travis -CI and write test cases.
- To setup **codecov** simply add the following lines to your .travis.yml file:

before_install:

- pip install --user codecov

after_success:

- codecov --file coverage/lcov.info --disable search

- For a custom badge just add this in the Readme.md file
Why? [![start with why](https://img.shields.io/badge/start%20with-why%3F-brightgreen.svg?style=flat)](link)