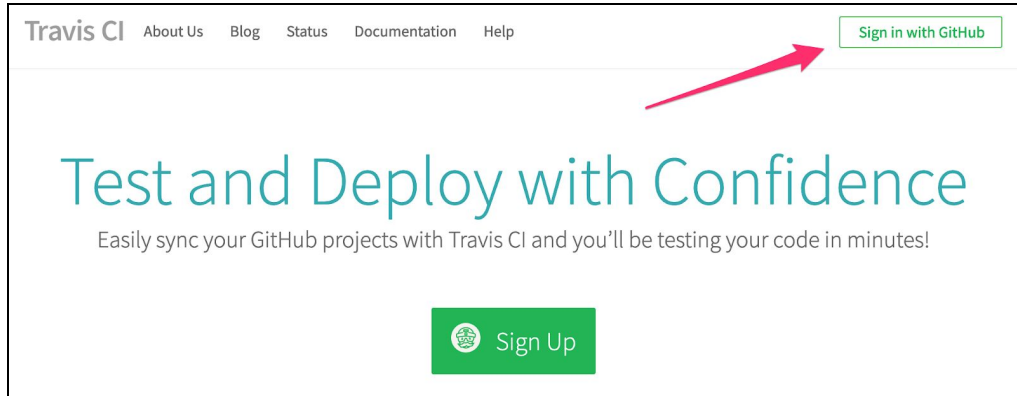
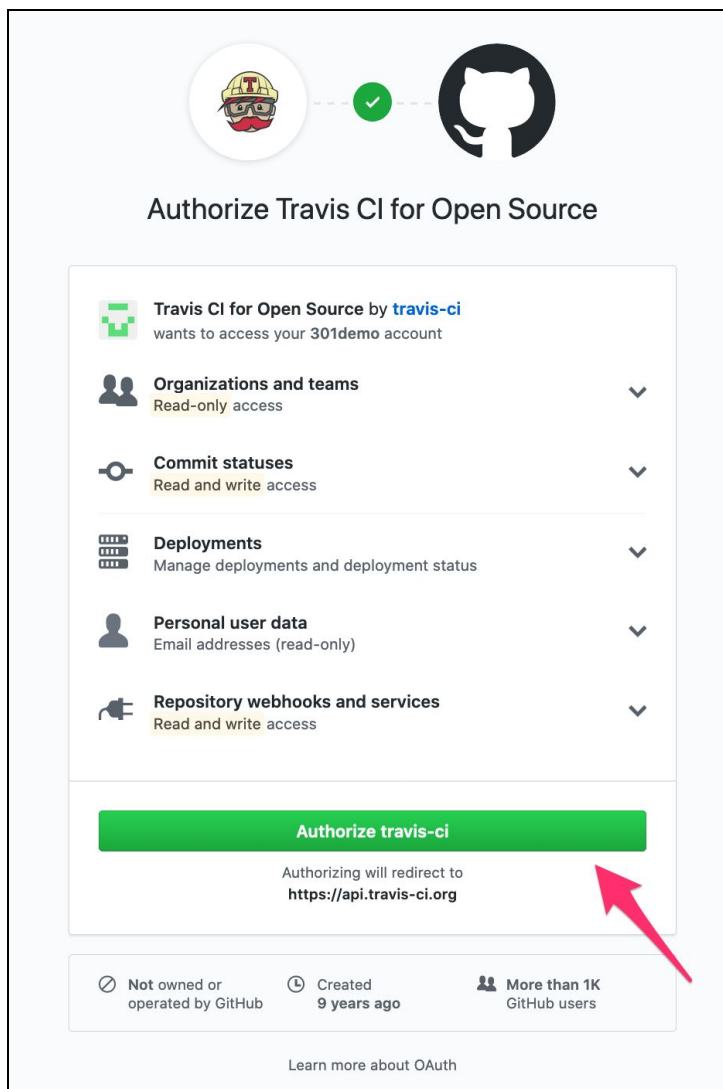


# Add Continuous Integration to your project

1. Go to the Travis CI website: <https://travis-ci.org/> and click on Sign Up.



2. Authorize Travis CI and then click on Activate Travis CI.

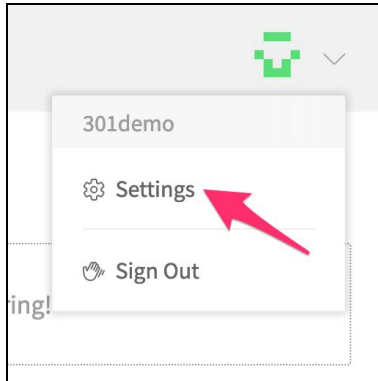


3. Upload your Lab 6 submission (the one with unit tests) to a **new repo** on github. If you do not have a lab 6 submission, you may try starting from our starter code. We recommend starting from your Lab 6, however.  
(Or you can use your own project with tests and follow along; make sure your code is on GitHub if you choose to use your own project)

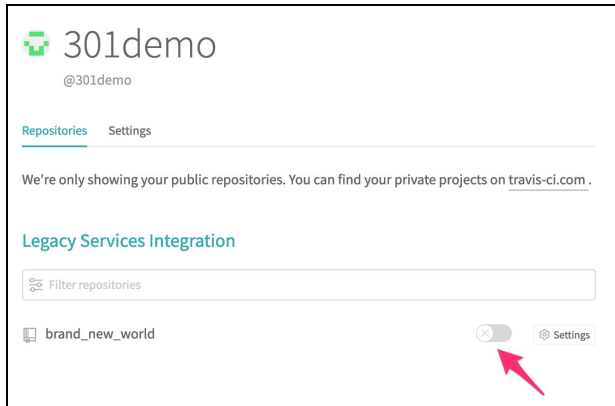
a. Starter code:

- i. <https://github.com/CMPUT-301/Lab-8-Template-Monday>
- ii. <https://github.com/CMPUT-301/Lab-8-Template-Tuesday>
- iii. <https://github.com/CMPUT-301/Lab-8-Template-Wednesday>
- iv. <https://github.com/CMPUT-301/Lab-8-Template-Thursday>

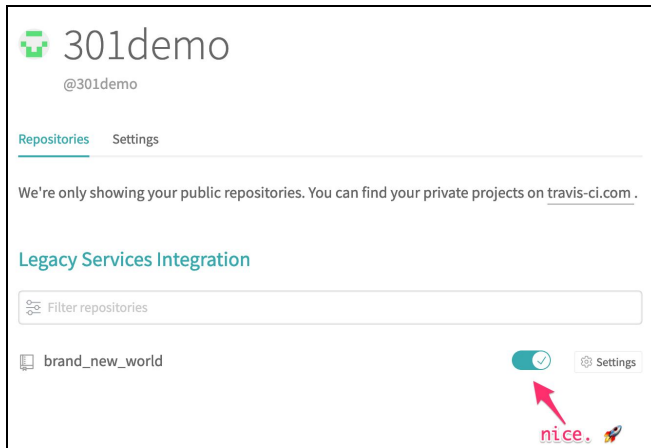
4. See Travis CI settings to activate your build automation 🚀



5. Find your new repository



6. And toggle the switch.



7. Travis will now automatically use a `.travis.yml` to build and test your project. Let's add that file to the new repo from above.  
For Travis CI to work with your project, you will need a configuration file. This configuration file will contain the specifications of the project so that Travis CI knows what tools to use to build your project and use the correct environments for running tests.  
The configurations are specified in a file called '`.travis.yml`'. This file should be added to your project.
  - a. Copy the [starter .travis.yml file](#).
  - b. Paste its contents into `.travis.yml` - a new file **in the root of your project**.
  - c. Commit the new file.
  - d. Push to master.
8. Observe the new build! It should pass.
9. Now every time you push to any branch, the build will run and you will be notified by email.
10. Email is useful, but the Pull Request notifications are far more useful. The lab exercise will explore them.

## KNOWN ISSUES:

Permission denied for Travis CI gradlew:

You have two options to solve this problem:

1. Go to the `.travis.yml` file and add the following. It changes the file permissions for the file 'gradlew' so that TravisCI can execute it.

before\_install:

- chmod +x gradlew

2. Clone the project to your local machine. Use git bash to navigate to the branch and then change the file permissions as follows by typing the following command in the git bash.

```
git update-index --chmod=+x gradlew
```

Commit and push the change. Rerun the build on TravisCI.

Currently, TravisCI has unstable builds with respect to tests that require an emulator to run. For example, UI testing. If you face any problems, remove the files pertaining to tests and re-run the build on TravisCI.