

GitHub



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CCQ C++ Bootcamp - 10/24/2019

SSH Key Setup

to avoid entering a password.

Generate Key

```
$ ssh-keygen -t rsa -b 4096 -C "your_email@example.com"
```

Add key to ssh agent

```
$ eval "$ (ssh-agent -s) "  
$ ssh-add ~/.ssh/id_rsa
```

Add key on github

go to your github settings - SSH and GPG keys - New SSH key
copy content of ~/.ssh/id_rsa.pub file

GitHub Issues

- **Example 1: TRIQS/dft_tools issue #110**
What is good/bad about it?
- **Example 2: TRIQS/dft_tools issue #75**
What is good/bad about it?
- **45 GitHub Issues Dos and Don'ts**
<https://hackernoon.com/45-github-issues-dos-and-donts-dfec9ab4b612>

Fork and Pull Request Exercise

- GOTO: https://github.com/flatironinstitute/ccq_coding_bootcamp_testrepo
- click on Fork and create a fork in your private account USER
- clone your fork
`$ git clone git@github.com:USER/ccq_coding_bootcamp_testrepo.git .`
- checkout branch dev
`$ git checkout dev`
- create your own dev branch
`$ git checkout -b dev_USER`
- create a file USER.txt, add, commit and push to your fork
`$ git add USER.txt`
`$ git commit`
`$ git push`
- GOTO your branch on github and open a pull request to the flatiron repo

How to keep your fork up-to-date?

- add flatiron repo as “upstream”
\$ `git remote add upstream`
 `git@github.com:flatironinstitute/ccq_coding_bootcamp_testrepo.git`
- fetch upstream
\$ `git fetch upstream`
- look at all available branches
\$ `git branch -a`
- merge
\$ `git merge upstream/dev dev_USER`
- or better: rebase
\$ `git rebase upstream/master`
- push your updated branch to your fork