Code hosting with GitHub Cheat Sheet

Step 1' – Fork a Repository

A **fork** is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. Especially useful during classes.

Find a repository in which you are intrested. In the upper right corner click Fork.



Now, this repository is available in your list of repositories.

Basics

GitHub is a code hosting platform for version control and collaboration.

Pros of using GitHub:

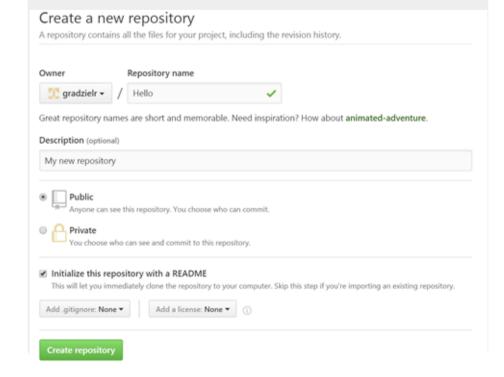
- you and your coworker can each upload your revisions to the same page, and Git will save both copies,
- you can **merge** your changes together without losing any work along the way,
- you can **revert** to an earlier version at any time, Git keeps a "snapshot" of every change ever made,
- free of charge account.

Step 1 – Create a Repository

A **repository** is usually used to organize a single project.

Repositories can contain folders and files, images, videos, spreadsheets, and data sets – anything your project needs.

- 1. In the upper right corner, next to your avatar or identicon, click and then select **New repository**.
- 2. Write **name** and short description, click **create repository**.

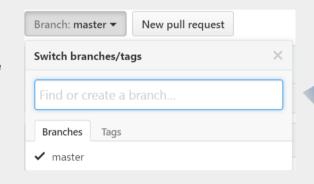


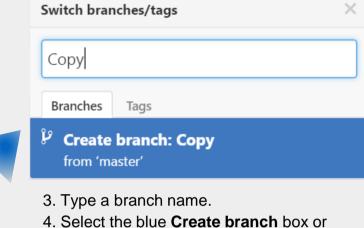
Step 2 – Create a Branch

Branching is the way to work on **different** versions of a repository at one time.

By default your repository has one branch named **master**. We use branches to experiment and make edits before committing them to master.

- 1. Go to your repository.
- 2. Click the drop down at the top of the file list that says **branch: master.**





4. Select the blue **Create branch** box or hit "Enter" on your keyboard.

Step 3 – Open a Pull Request

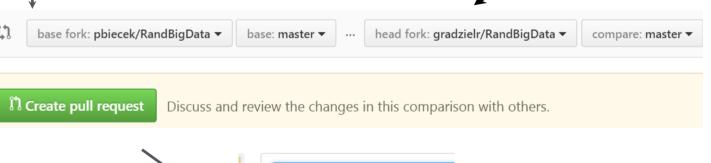
When you have made changes in a branch or a forked repository, you can open a **pull request.**

After opening a **pull request**, you are proposing your changes and requesting that someone review and pull in your contribution. **Pull requests** show differences of the content from both branches. The changes, additions, and subtractions are shown in green and red.



1. At the top of the file list click **New pull request**.

2. Select the branch to compare with. Look over your changes in the diffs on the **Compare page**.



Preview

My edits

Write

3. Give your pull request a **title** and write short comment of your changes.

4. Click Create pull request.

Create pull request