

# GitHub Hosting

# Why should I care about Git?

1. As a member of the Software Engineering industry, the skills of using git will not only be an asset, but a near inevitability.
2. Saving a remote copy of your Web UI gives you an easily accessible portfolio piece for upcoming interviews/resumes.
3. Downloading, unzipping, and locally hosting multiple sites is a tedious grading process that can be made more efficient through GitHub's service.

# Step 0 – Download Git

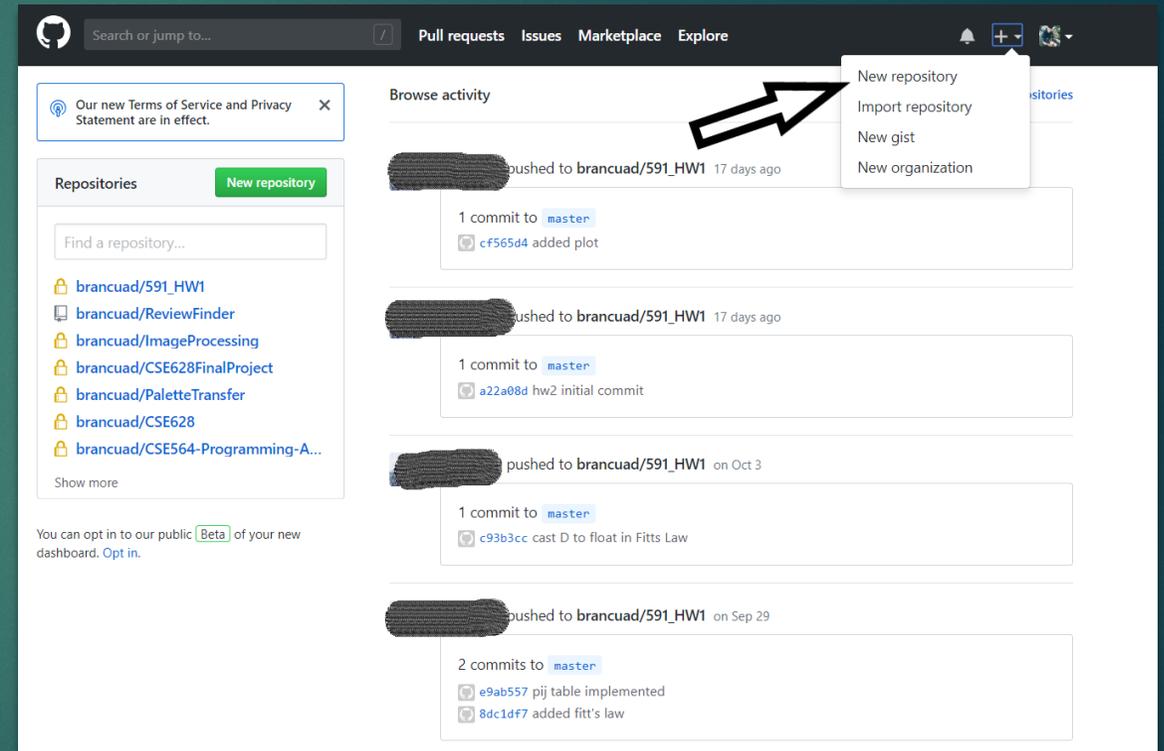
- ▶ If you do not have Git already on your computer, you may get the latest version at the following link:
  - ▶ <https://git-scm.com/downloads>

# Step 1 – Register / Sign in to GitHub

- ▶ Register as a student for free private repositories
  - ▶ Find out more: <https://help.github.com/articles/applying-for-a-student-developer-pack/>
- ▶ Or use a personal GitHub account
- ▶ For the purposes of this task, we will be using public repositories.
  - ▶ Therefore, either option works.

# Step 2 – Create a repository

- ▶ Create a new repository by clicking the “+” icon at the top right of the GitHub header.
  - ▶ Select “New Repository”



# Step 2 – Create a repository cont.

- ▶ Put your Stony Brook ID and Name in the description of the repository.
  - ▶ Ex: SBU ID: XXXYYYZZZ – Brandon Cuadrado
- ▶ Click “Create repository”

## Create a new repository

A repository contains all the files for your project, including the revision history.

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**Owner** brancuad / **Repository name** WebUIExample ✓

Great repository names are short and memorable. Need inspiration? How about [expert-couscous](#).

**Description (optional)**

SBU ID: XXXYYYZZZ - Brandon Cuadrado

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**Public**  
Anyone can see this repository. You choose who can commit.

**Private**  
You choose who can see and commit to this repository.

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**Initialize this repository with a README**  
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: None | Add a license: None ⓘ

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**Create repository**

# Step 3 – Create local directory

- ▶ Create a local directory for your project (if one doesn't already exist)
  - ▶ Ex: C:/Users/bcuadrado/Documents/CSE339/Git
- ▶ Copy your (unzipped) site to that directory
  
- ▶ Open Git Bash (downloaded as part of Step 0)
- ▶ Navigate to the directory you have set up
  - ▶ `cd C:/Users/bcuadrado/Documents/CSE339/Git`

# Step 4 – Initialize local repository and push your work

- ▶ Follow the instructions on the GitHub repository page to initialize your new directory

## ...or create a new repository on the command line

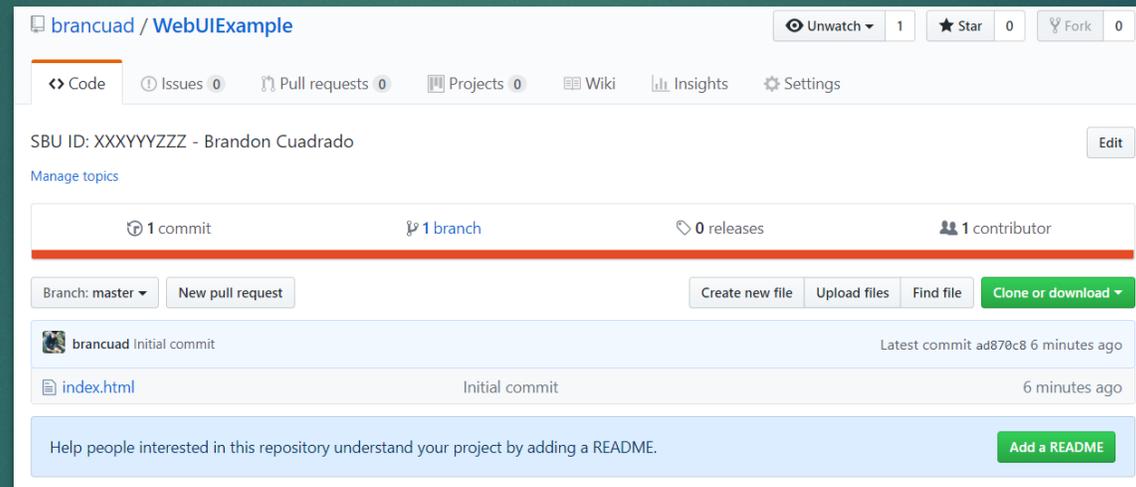
```
echo "# WebUIExample" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/brancuad/WebUIExample.git
git push -u origin master
```

# Step 4 – Initialize local repository and push your work cont.

- ▶ Use the following commands to push your work:
  - ▶ `git init`
    - ▶ Initializes local directory as a git repository
  - ▶ `git add .`
    - ▶ Adds all files in directory to be tracked by git
  - ▶ `git commit -m "Initial commit"`
    - ▶ Adds all files to a "commit" to be pushed
  - ▶ `git remote add origin [HTTPS-URI-FROM-GITHUB]`
    - ▶ Links remote repository to your local copy
    - ▶ Use the specific HTTPS link found on your GitHub repository page
  - ▶ `git push -u origin master`
    - ▶ Pushes all files to the remote git repository on GitHub

# Step 4 – Initialize local repository and push your work cont.

- ▶ Your Git repository should look like the image below.



- ▶ Visit my example repository to see for yourself
  - ▶ My example only contains a single index.html file
  - ▶ <https://github.com/brancuad/WebUIExample>

# Step 5 – Host your site through GitHub Pages

- ▶ Visit the repository Settings
  - ▶ Navigate to Settings > Options
- ▶ Scroll down to the section titled “GitHub Pages”
  - ▶ Choose Source as “master branch” and click Save.
- ▶ GitHub will provide you with a URL where your site will be published
- ▶ Visit my site as an example:
  - ▶ <https://brancuad.github.io/WebUIExample/>

# Step 5 – Host your site through GitHub cont.

- ▶ The site may take some time to update

## GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

✓ Your site is published at <https://brancuad.github.io/WebUIExample/>

**Source**  
Your GitHub Pages site is currently being built from the `master` branch. [Learn more.](#)

master branch ▾ Save

# Step 6 – Submit an email with the subject “GitHub Web UI”

- ▶ Submit your GitHub repository and published site to `c4g@cs.stonybrook.edu`
- ▶ Use “GitHub” in the Subject line
- ▶ Provide the link to both your GitHub repository and your published site
  - ▶ Ex. GitHub Repo: <https://github.com/brancuad/WebUIExample>
  - ▶ Ex. Published Site: <https://brancuad.github.io/WebUIExample>