Creating a New GitHub Repository

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Recap: Git vs. GitHub

- You don't need GitHub to use Git
- ▶ Git = Local (on your computer); GitHub = Remote (on the web)
- GitHub allows you to:
- 1. Share your repositories with others
- 2. Access other users' repositories
- Store remote copies of your repositories (on GitHub's server) in case something happens to your local copies (on your computer)

Creating a GitHub Repository

- ► Two methods of creating a GitHub repository:
- 1. Start a repository from scratch
- 2. "Fork" another user's repository
- This lecture will walk you through the first method
- ▶ NOTE: A repository is often referred to as a "repo"

Start a Repository From Scratch

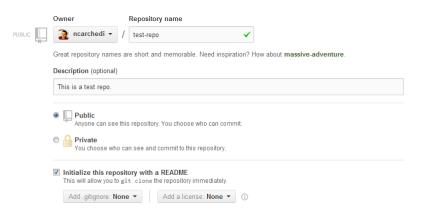
Either go to your profile page (https://github.com/your-user-name-goes-here/) and click on "Create a new repo" in the upper righthand corner of the page

...OR...

► Go directly to https://github.com/new (you'll need to log into your GitHub account if you haven't already done so)

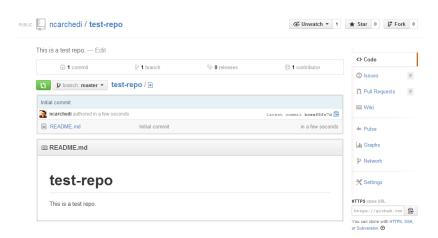
Start a Repository From Scratch

- Create a name for your repo and type a brief description of it
- Select "Public" (Private repos require a paid [or education] account)
- Check the box next to "Initialize this repository with a README"
- Click the "Create repository" button



Start a Repository From Scratch

Congratulations! You've created a GitHub repository.



Creating a Local Copy

- Now you need to create a copy of this repo on your computer so that you can make changes to it
- Open either Git Bash (for Windows users) or Terminal (for Mac users)
- Create a directory on your computer where you will store your copy of the repo:

\$ mkdir ~/test-repo

- Note: The tilde (~) symbol refers to your "home" directory, so this will create a directory called test-repo in your home directory
- Navigate to this new directory using the following command (cd stands for "change directory"):
- \$ cd ~/test-repo



Creating a Local Copy

Initialize a local Git repository in this directory

\$ git init

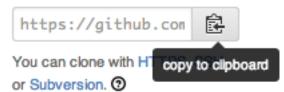
created on the GitHub server

\$ git remote add origin https://github.com/your-user-name-

► **Tip:** You can easily copy the URL of your Github repository with the copy to clipboard button

Point your local repository at the remote repository you just

HTTPS clone URL





Creating a Local Copy

Here's what this process looks like in action:

```
Welcome to Git (version 1.8.4-preview20130916)
Run 'git help git' to display the help index.
Run 'git help <command>' to display help for specific commands.
$ mkdir ~/test-repo
$ cd ~/test-repo
  git init
Initialized empty Git repository in c:/Users/Nick/test-repo/.git/
 ick@NICK-PC ~/test-repo (master)
$ git remote add origin https://github.com/ncarchedi/test-repo.git
 lick@NICK-PC ~/test-repo (master)
```

▶ Note: Actual appearance may differ slightly depending on your operating system and default settings.