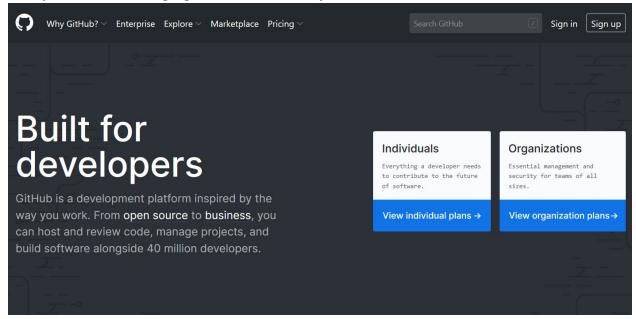
# GitHub for Data and Methods Dissemination

Welcome to the GitHub primer. This document will show you how to put your data and analysis files onto GitHub so that they can be easily shared with the world. This demonstration is designed for people who want to use the web page interface to upload files to GitHub. That is probably the easiest for beginners. If you want to regularly use GitHub to share and disseminate data and code, it is worth the effort to learn how to use a more typical method, e.g. GitHub Desktop (<a href="https://desktop.github.com/">https://desktop.github.com/</a>), Git Bash (<a href="https://git-scm.com">https://git-scm.com</a>), commandline UI, or an IDE plugin (<a href="https://github.atom.io/">https://github.atom.io/</a>).

There are three parts to the process: Creating a GitHub presence for your lab, creating a repository for a project, and uploading your software and data files.

#### Part 1: Creating a GitHub presence for your lab.

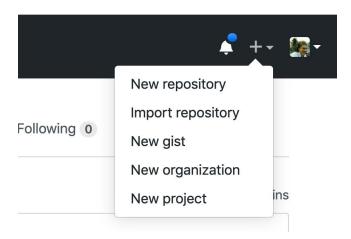
1. The first step is to go to <a href="https://github.com/">https://github.com/</a> Sign in or sign up. When you sign up for the first time, you will be creating a personal account for you.



2. Next, we recommend creating an "organization" account. This is different from your personal account. The organization account is helpful for lots of reasons. The two biggest are 1 - it keeps

all your projects together, and 2 - it has a flexible permission scheme built for fluid organizations like your lab. As the organizational lead, or PI, you can assign people to be admins on a rolling basis, which helps you control permission for students as they come into and then leave the lab.

In the top right corner of your personal home page on GitHub, you'll see a + which has a "New organization".

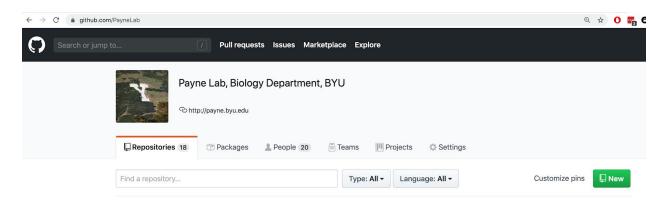


For more instructions on creating a team, visit:

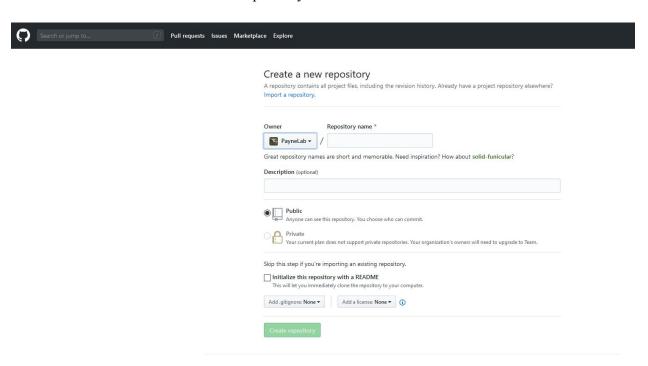
https://help.github.com/en/github/setting-up-and-managing-organizations-and-teams/creating-a-t eam

## Part 2. Create a repository

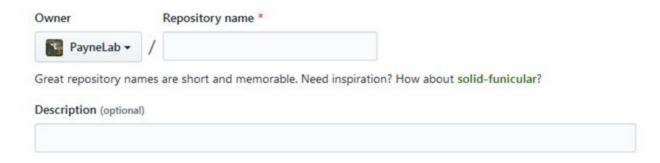
1. Create a new repository. We recommend creating the repository under your lab organization. In the image below, you see the home page for the PayneLab organization, and on the right hand side is a green box labeled 'New'. This will create a new repository.



#### 2. Add initial information about the repository.



The first piece of information that they ask you for is the name of the repository. This name is generally brief, and must be unique from other project names. A more lengthy description may be provided if you want. By default, the owner of this repository is the organization.



The next step is to choose whether the repository is public or private. For publication, this should be public.



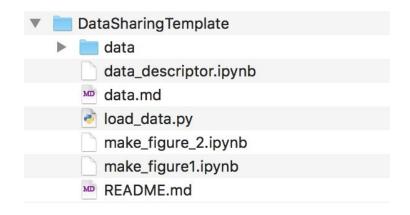
There are three final options. If you want, you can totally ignore these for the moment. We'll get back to these later in Part 3. So go ahead and click the green button 'Create repository.'

| dd .gitignore: None ▼ | Add a license: None ▼ | <b>(i)</b> |
|-----------------------|-----------------------|------------|

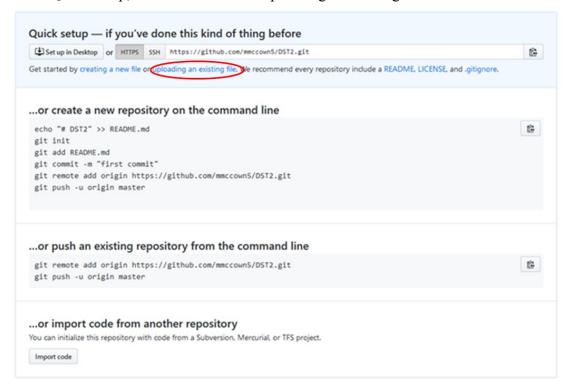
## Part 3. Upload your code

1. There are a lot of options for how to upload your code. This primer will just present the simplest, copying files from your computer to the repository. This is based on the assumption that you have organized your files according to the pattern suggested in the manuscript "Simple and Efficient Data Analysis Dissemination for Individual Labs."

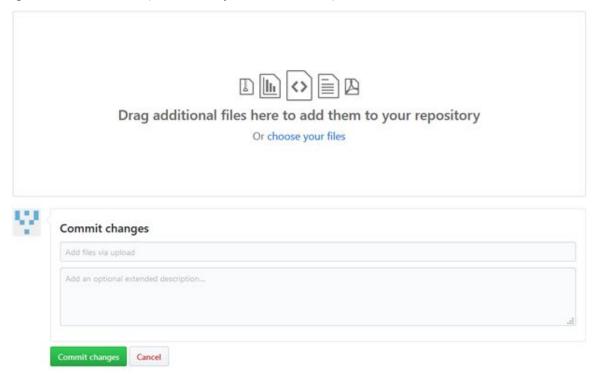
Let's assume that you followed the pattern in the manuscript and have a project folder on your computer that looks like:



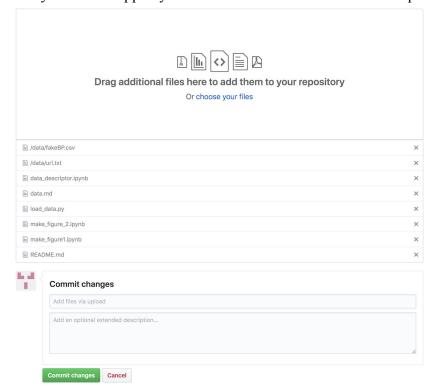
Under Quick setup, follow the link for "uploading an existing file."



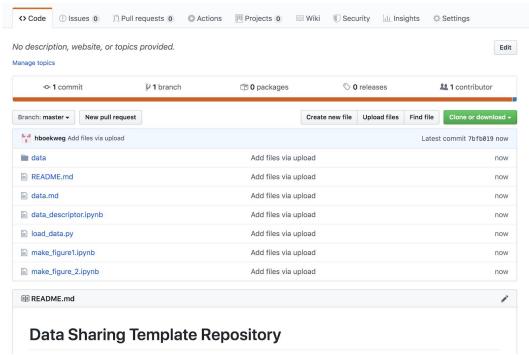
This will give you the option (shown below) to drag and drop files into the repository. Drag and drop all of your desired files and folders. Note that you must use the drag and drop feature to upload entire folders (not choose your files feature).



Once you have dropped your all the files and folders into the repository it will look like this:



Click the "Commit changes" button, and it will upload the files to your repository, and look like this:



The repository is now complete. Provide the url in publications.