

# GitHub

*Business Science*

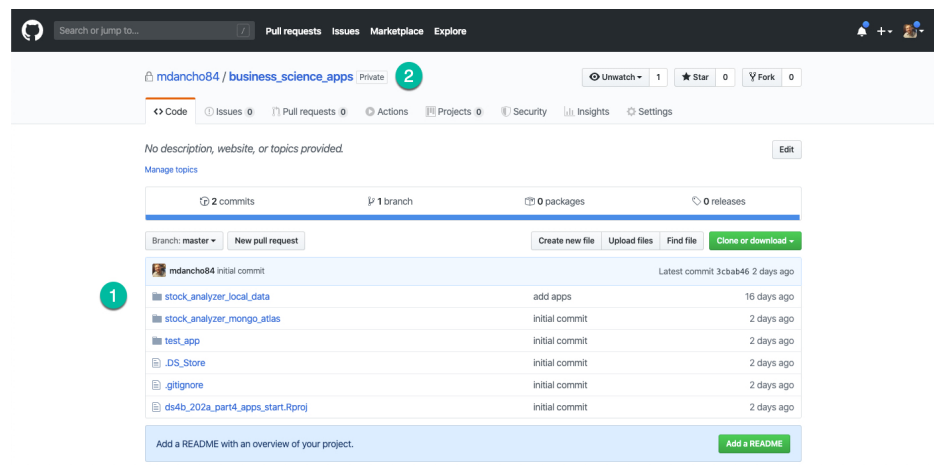
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## GitHub

This document covers the using GitHub (<https://github.com/>) for a version-controlled software workflow connecting both local and remote repositories. At the end of this, you will have connected a local and remote repository containing your Stock Analyzer application.



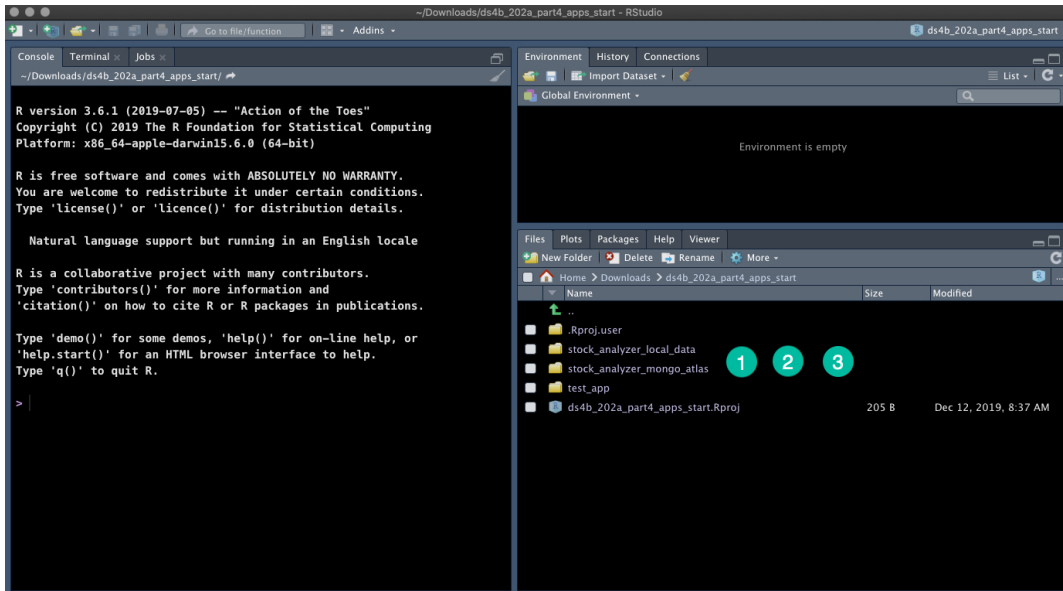
## Prerequisites

Download the zip file (`ds4b_202a_part_4_apps_start`). Unzip, and open the R Project, `ds4b_202a_part_4_apps_start.Rproj` to get started. You will see 3 application directories:

1. Test App - `ds4b_202a_part_4_apps_start/test_app`
2. Stock Analyzer (Local Data Storage) - `ds4b_202a_part_4_apps_start/stock_analyzer_local_data`
3. Stock Analyzer (MongoDB Atlas) - `ds4b_202a_part_4_apps_start/stock_analyzer_mongo_atlas`

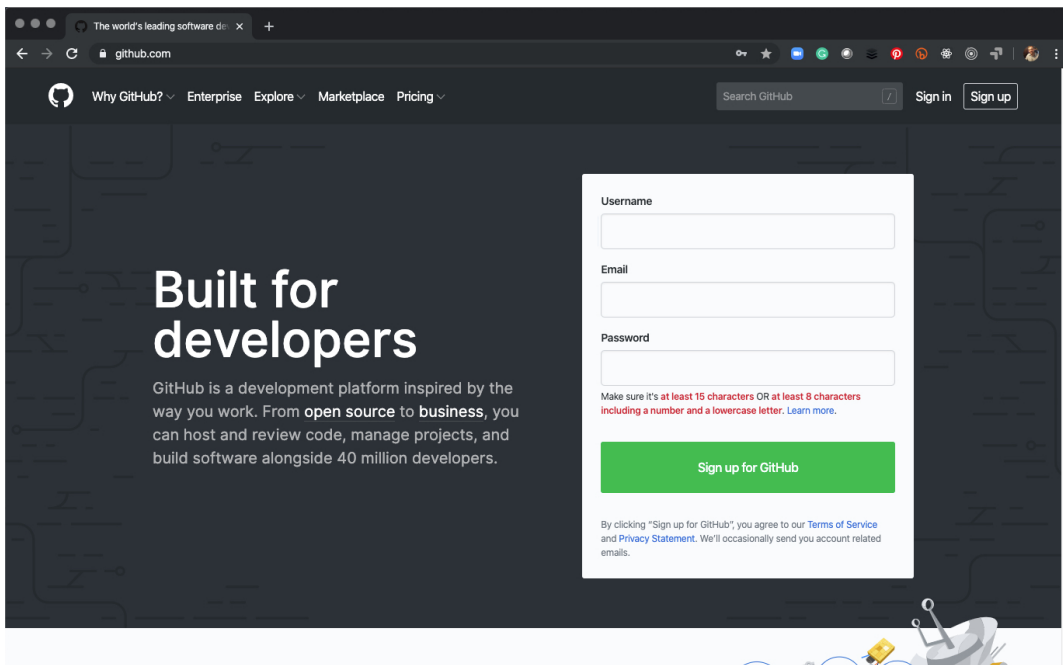
Test each of the applications out.

**Important Note - You will need to adjust the config.yml file for the Stock Analyzer that connects to MongoDB Atlas**



## Create a Git Account

If you don't have a GitHub account, create one at GitHub (<https://github.com/>).



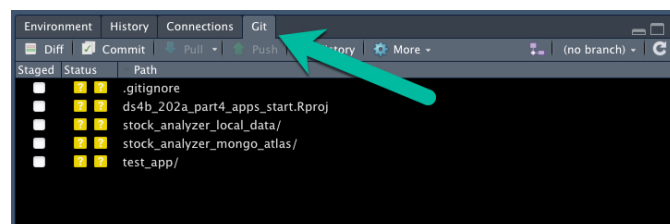
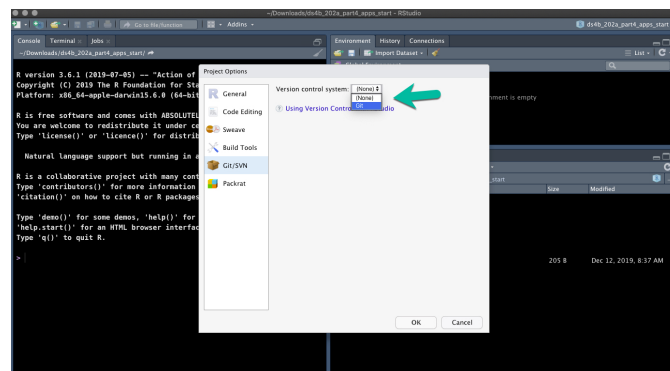
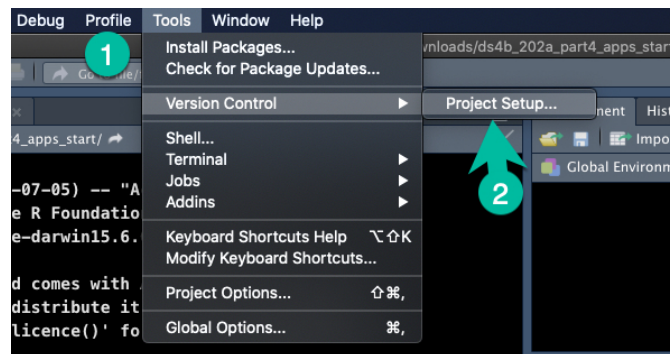
## Check Git Installation on Your Local Computer

Check to make sure you have git installed with `git --version`.

## Local Repository Setup

### Step 1 - Add Git Version Control to Your Project

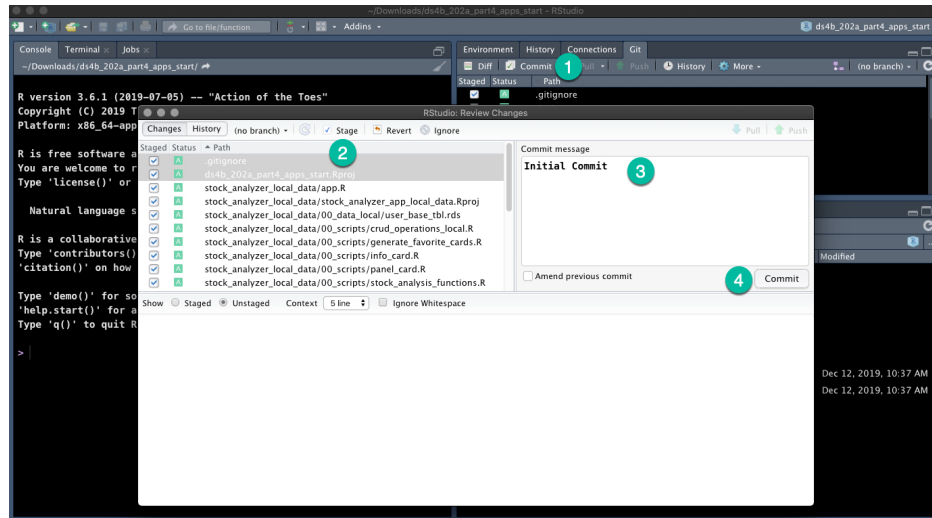
Add version control. When RStudio restarts, you will have a “Git” pane.



## Step 2 - Make your Initial Commit

This moves the files from working to local repository, or in other words takes your first snapshot.

1. Click “Commit” in the Pane
2. “Stage” each of the directories and files
3. Add a “Commit” Message
4. Click “Commit Button”



## Remote Repository Setup

Next, we'll create a remote repo on GitHub to house the files.

**Important Note** - This will be a *private* repo because the Stock Analyzer MongoDB Atlas app contains a config.yml file that includes your Connection Information. We do not want others outside of our organization to see this information.

### Step 1 - Sign In & Go To Repositories

### Step 2 - Make a Private Repo

We can make Private Repos via GitHub.

1. Name it something related to the “Stock Analyzer Project”.
2. Select “Private” - Never including config.yml files in publically facing software.


You will then be given setup instructions for linking the remote and local repo.

## Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner

Repository name \*

 mdancho84 ▾

/ stock\_analyzer\_mongodb\_atlas ✓

Great repository names are short and memorable. Need inspiration? How about [automatic-octo-happiness?](#)

Description (optional)

☐ Public

☒ Private

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

You choose who can see and commit to this repository.

Skip this step if you're importing an existing repository.

☐ Initialize this repository with a README

This will let you immediately clone the repository to your computer.

Add .gitignore: None ▾

Add a license: None ▾ ⓘ

Create repository

1

2

3

Make any apps that include db configurations private

←

### Step 3 - Connect Local to Remote & Push

Follow the instructions to push an existing repository from the Command Line.

1. Copy the code to add the remote repository to our local repository

mdancho84 / stock\_analyzer\_mongodb\_atlas Private

Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Actions Projects 0 Security Insights Settings

### Quick setup — if you've done this kind of thing before

Set up in Desktop or **HTTPS** SSH [https://github.com/mdancho84/stock\\_analyzer\\_mongodb\\_atlas.git](https://github.com/mdancho84/stock_analyzer_mongodb_atlas.git)

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

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

```
echo "# stock_analyzer_mongodb_atlas" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/mdancho84/stock_analyzer_mongodb_atlas.git
git push -u origin master
```


### ...or push an existing repository from the command line

```
git remote add origin https://github.com/mdancho84/stock_analyzer_mongodb_atlas.git
git push -u origin master
```

### ...or import code from another repository

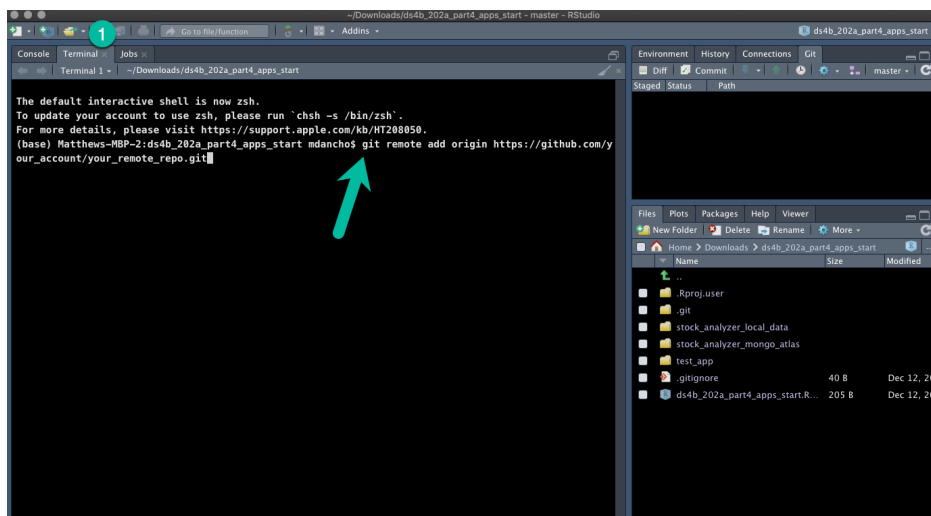
You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

Import code

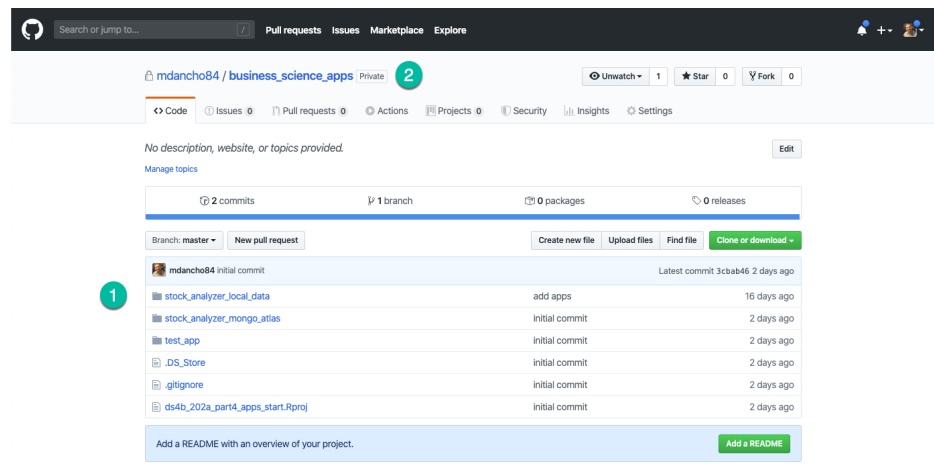


2. We can use RStudio's terminal to create the link between Local and Remote.

- `git remote add origin https://github.com/your_account/your_remote_repo.git` - Links your remote and local repos
- `git push -u origin master` - Pushes all of your committed files in your Local Repo to the Remote Repo



3. Check the Remote (GitHub) repository by refreshing the page. You should now see your files in a Private Repo. *Note - You can also change the name of your Repo if you don't like the previous name.*



## Wrapup

Congrats. You now have successfully:

1. Created a Local Repository
2. Created a Remote Repository and linked the local to the remote