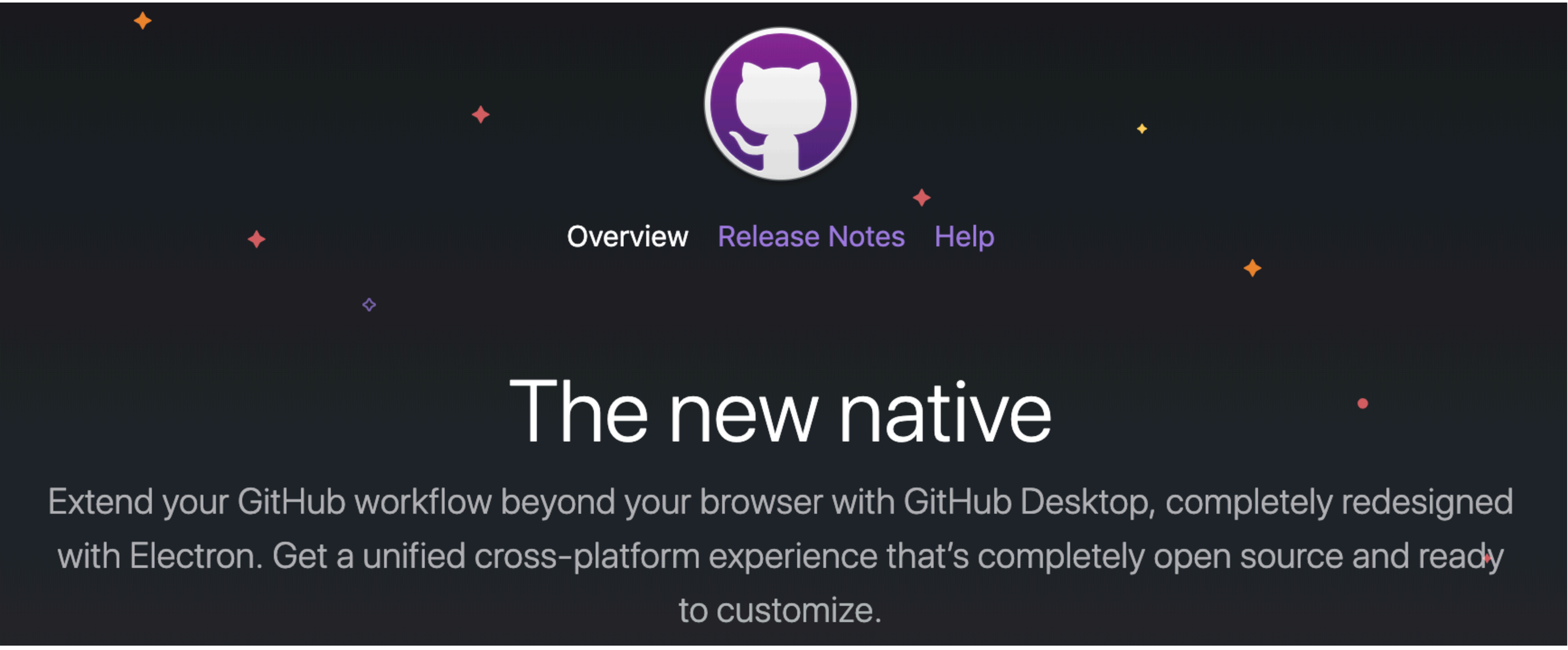
HOW TO: GitHub Desktop

Introduction

Source: Daniel van Strien. 2018. An Introduction to version Control Using GitHub Desktoip. Retrieved from https://programminghistorian.org/en/lessons/getting-started-with-github-desktop

Getting Started

https://desktop.github.com/



GitHub Desktop
is a Graphical User Interface (GUI) for Git (a version control command-line system)
Advantages:

- Track changes in your documents, code, data uploads
- Revert changes
- Online storage
- Keeping track of collaborative projects
- Open source with community support

Terminology

Online Glossary - https://help.github.com/en/articles/github-glossary

Cloning a Repo

- creating a local copy of the code provided by a developper

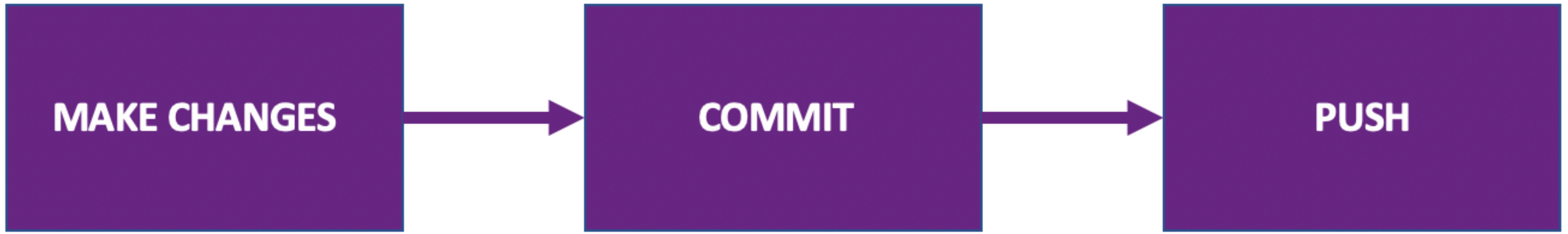
Commit

- Saving individual changes
- Commits usually contain a commit message - a brief description of changes

Push

- Sending your committed changes to a remote repository on GitHub

STEP 1: Make changes > STEP 2: Commit with a description about these changes > STEP 3: Push

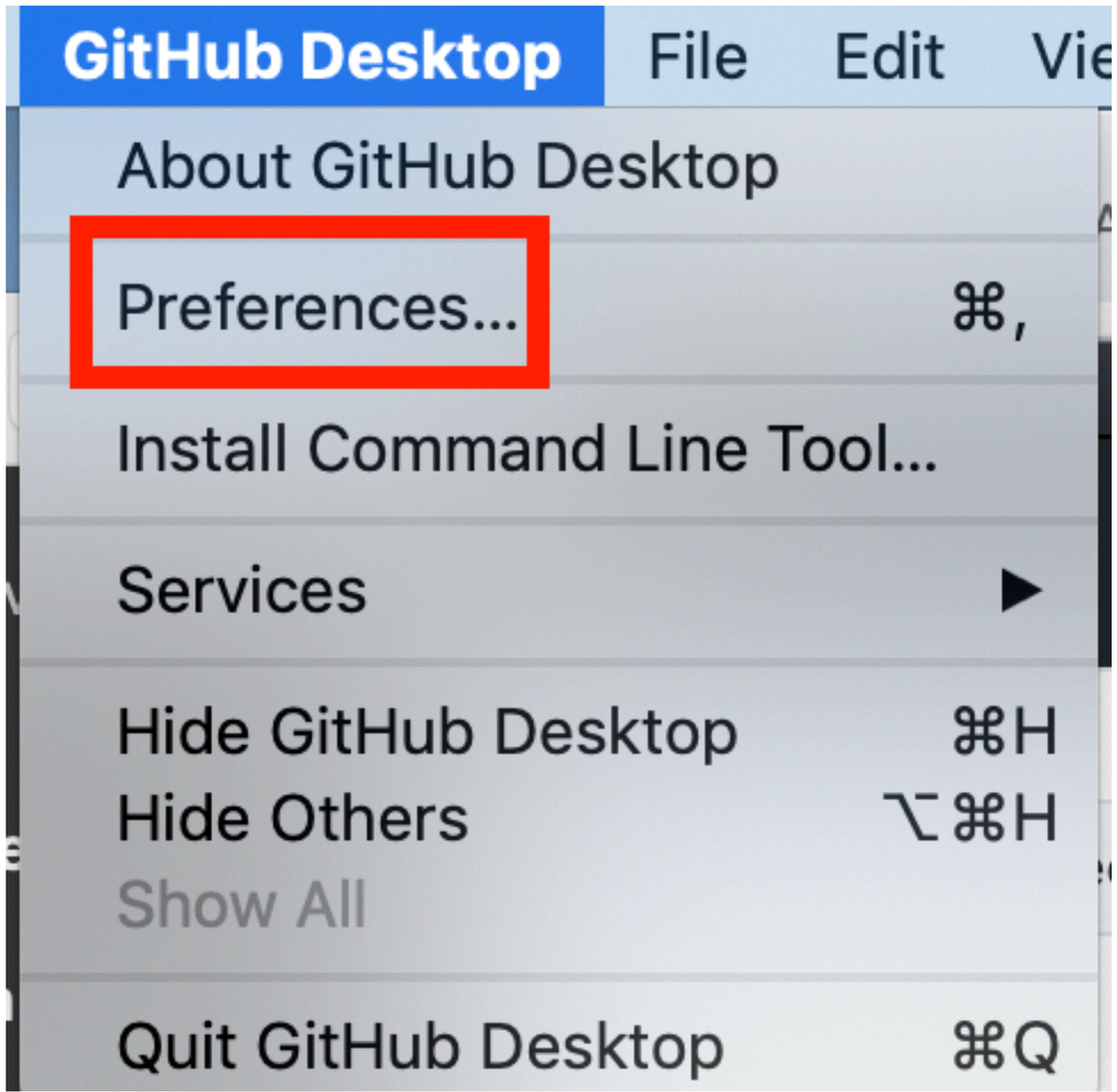


Register for a GitHub Account

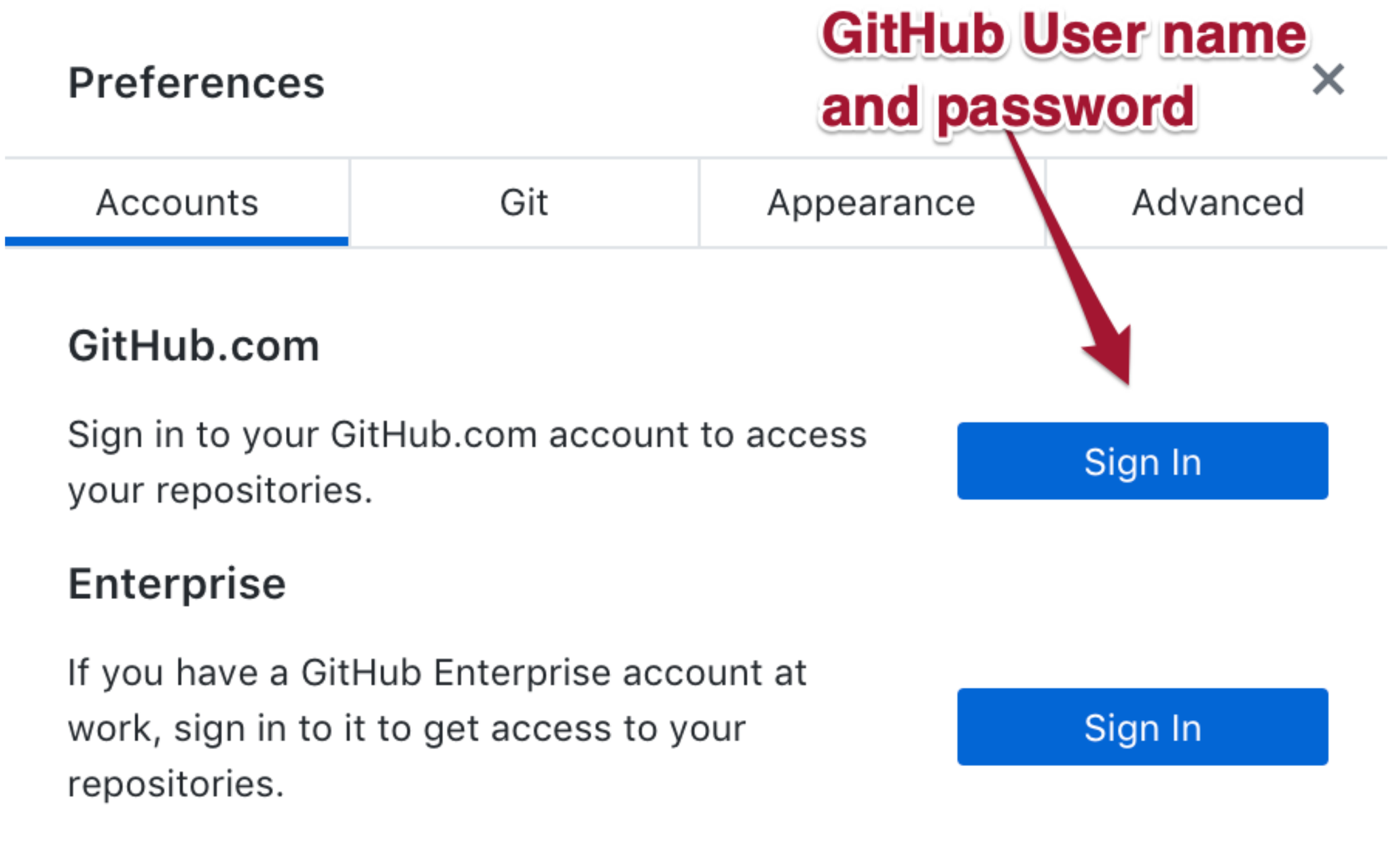
Register for an account at https://github.com/. For this class you will be creating a PRIVATE repository to prevent your work/code from being inappropritely shared.

Install GitHub Desktop

Download GitHub Desktop
https://desktop.github.com/. Once you have installed the app, open the app and link it to your GitHub account.
Step 1: GitHub Desktop Menu > Preferences

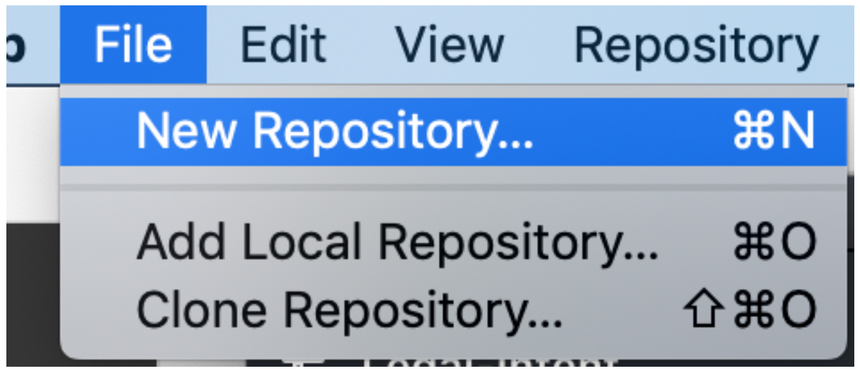


Step 2: Pereferences > Accounts > Sign In with GitHub.com

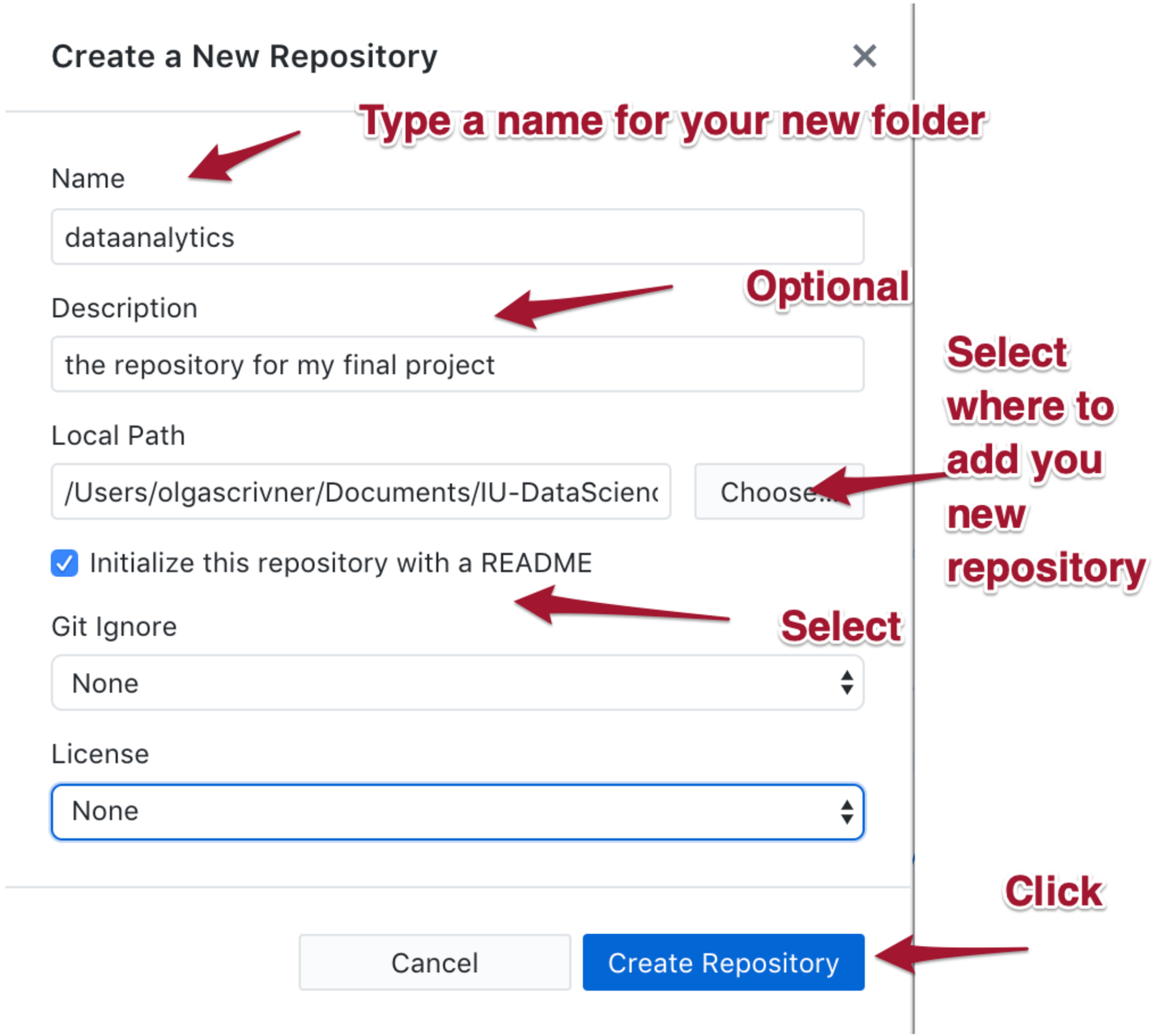


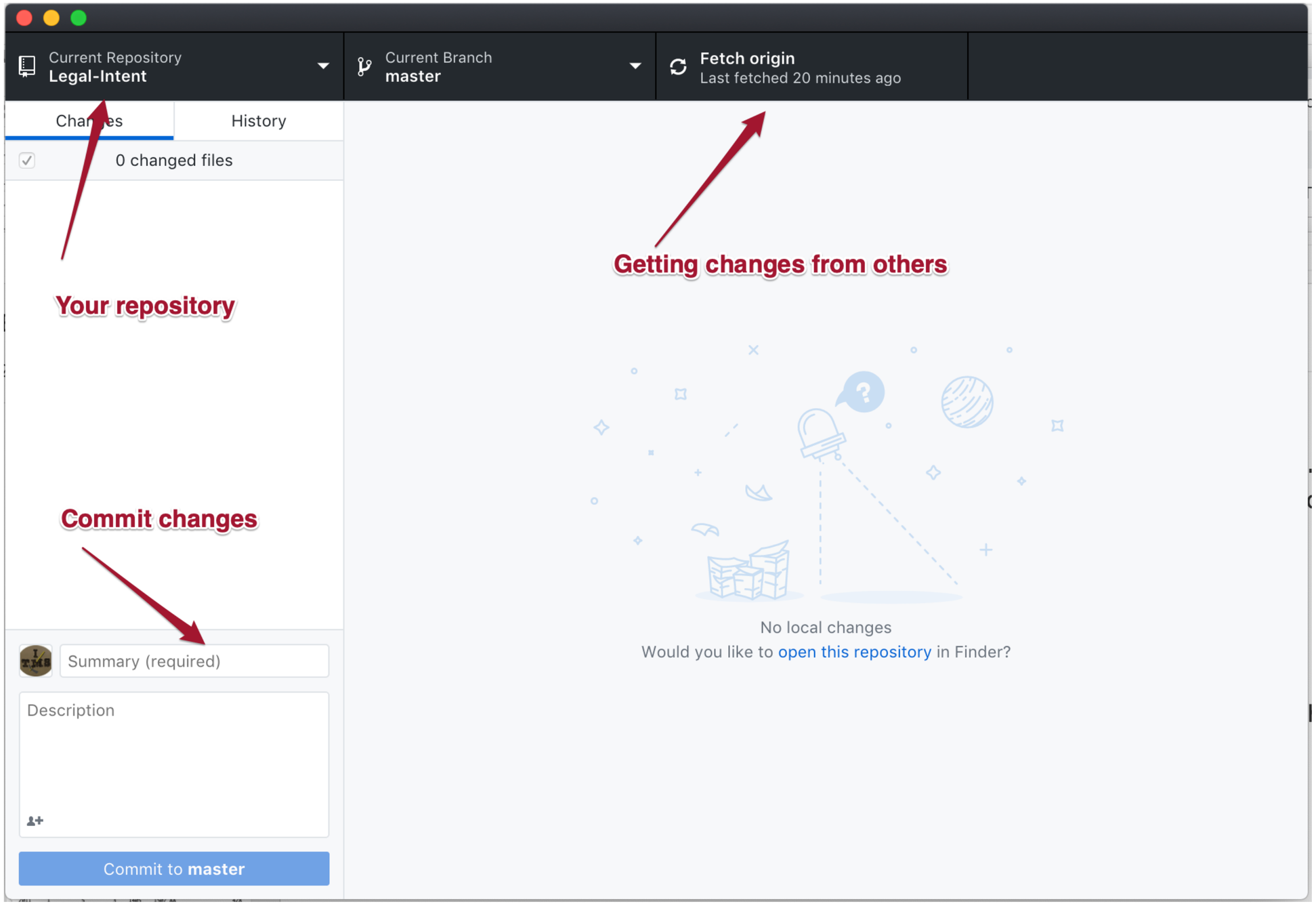
Create a New Repository

Step 1: File > New Repository



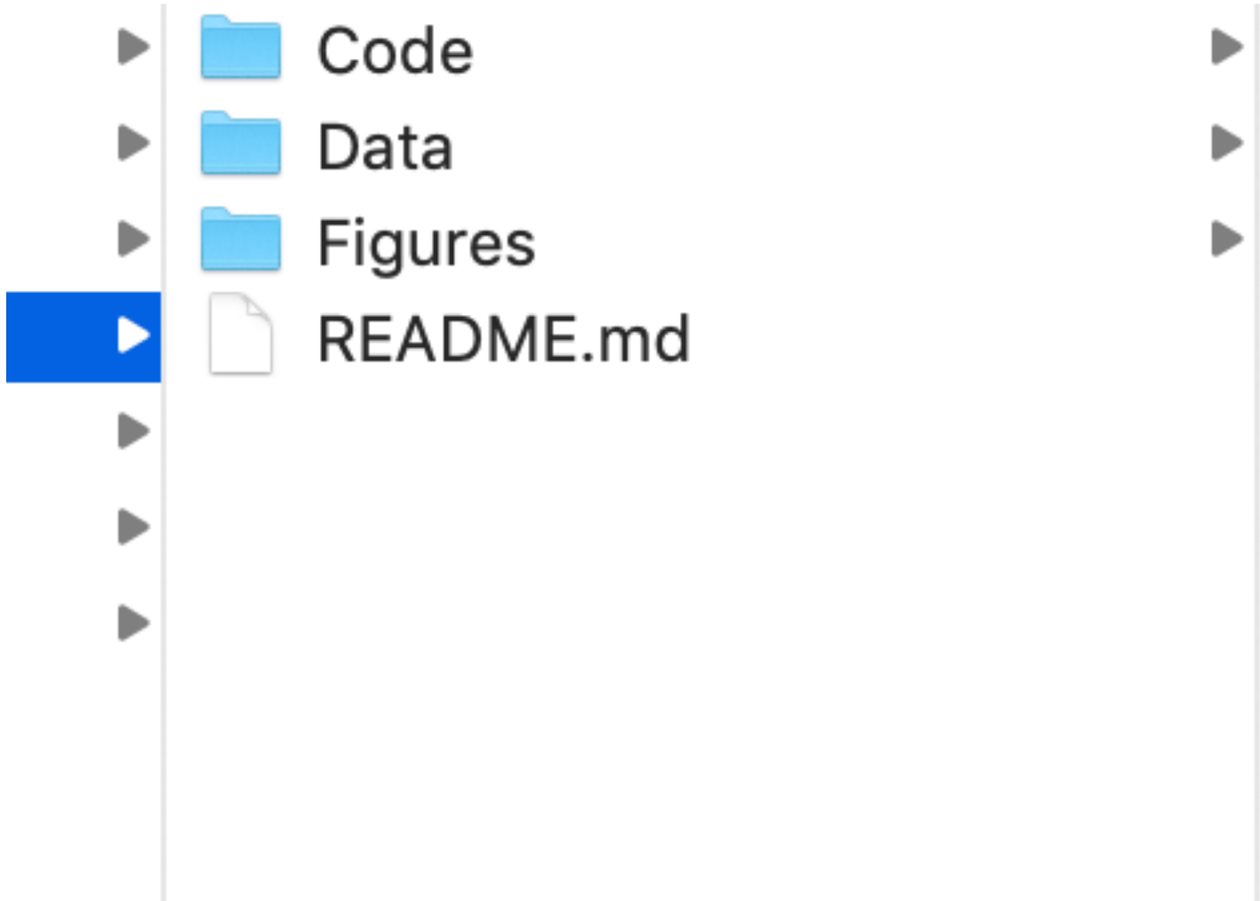
Step 2: Create a New Repository





Layout of your GitHUb Desktop

Step 3: You can add subfolders to your local repository, for example Code, Data, Project etc



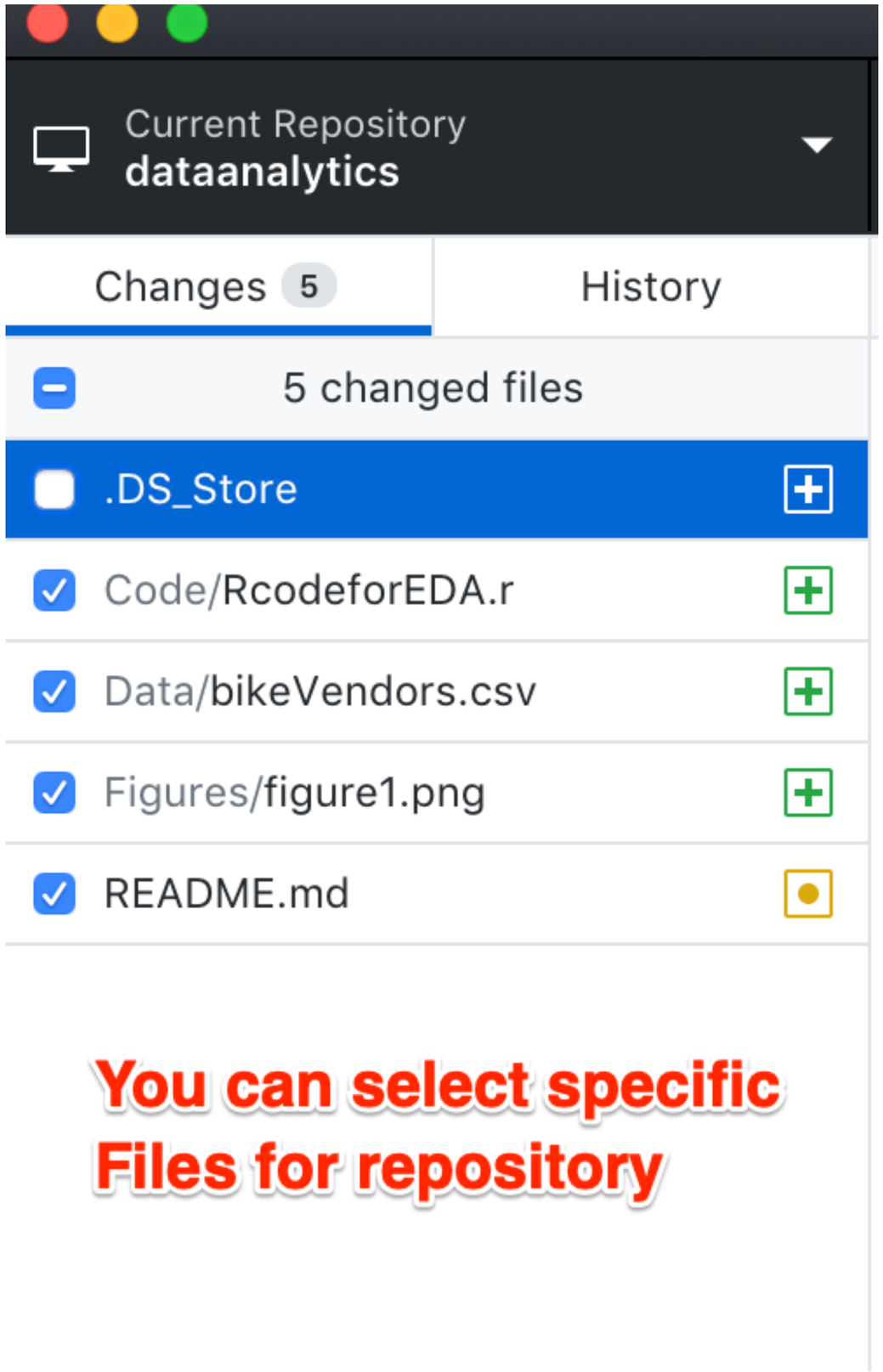
Note: Empty folders will not be shown in a remote GitHub reposity

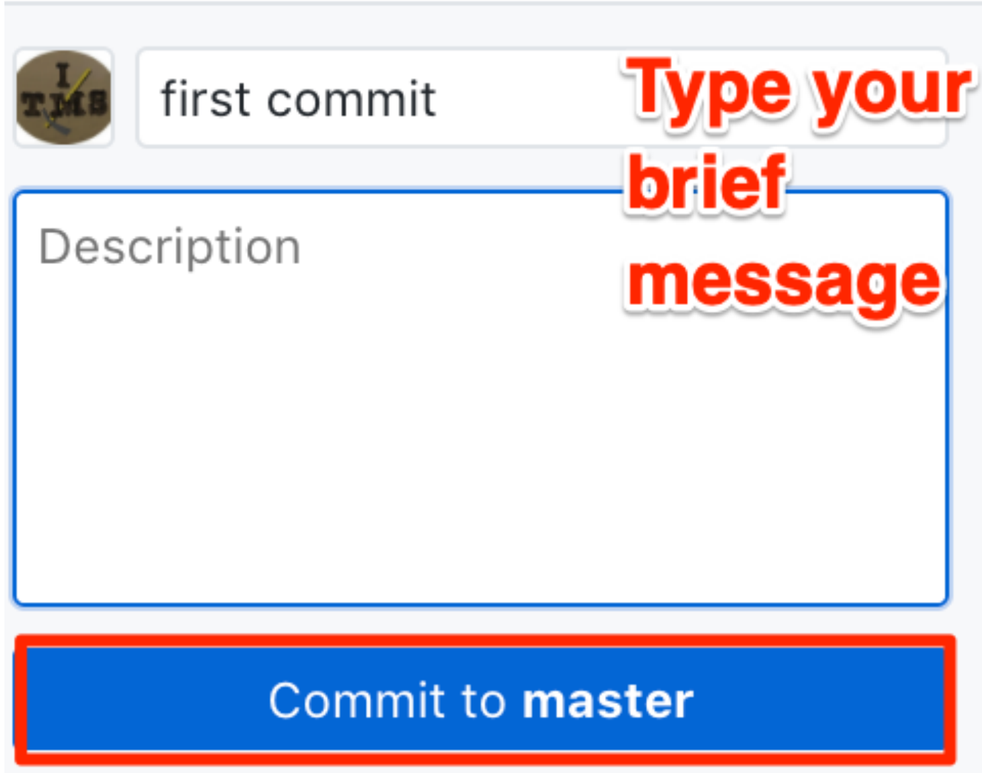
Step 4: Add description to your Repository > Open README.md (use any text editor). Add a brief description (You can modify it later)

README.md — Edited

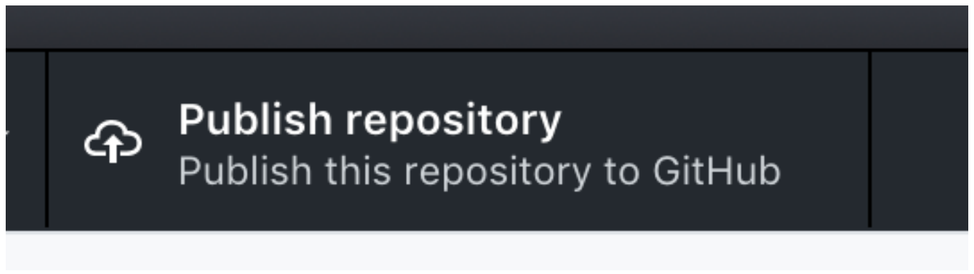
```
# Final Project repository

This repository is a collection of code and figures used in the final project.

## Data Description

- Dataset name
- Source
- Number of rows and observation

## Analysis
```

Step 5: Select and Commit




first commit
Type your brief message
Description
Commit to master

Step 6: Publish



Check your online Repository (GitHub my repositories)

2 commits | 1 branch | 0 releases | 1 contributor

Branch: master | New pull request | Create new file | Upload files | Find file | Clone or download

obscrivn first commit — Latest commit a25aaa2 4 minutes ago

Code	first commit	4 minutes ago
Data	first commit	4 minutes ago
Figures	first commit	4 minutes ago
.gitattributes	Initial commit	5 hours ago
README.md	first commit	4 minutes ago

README.md

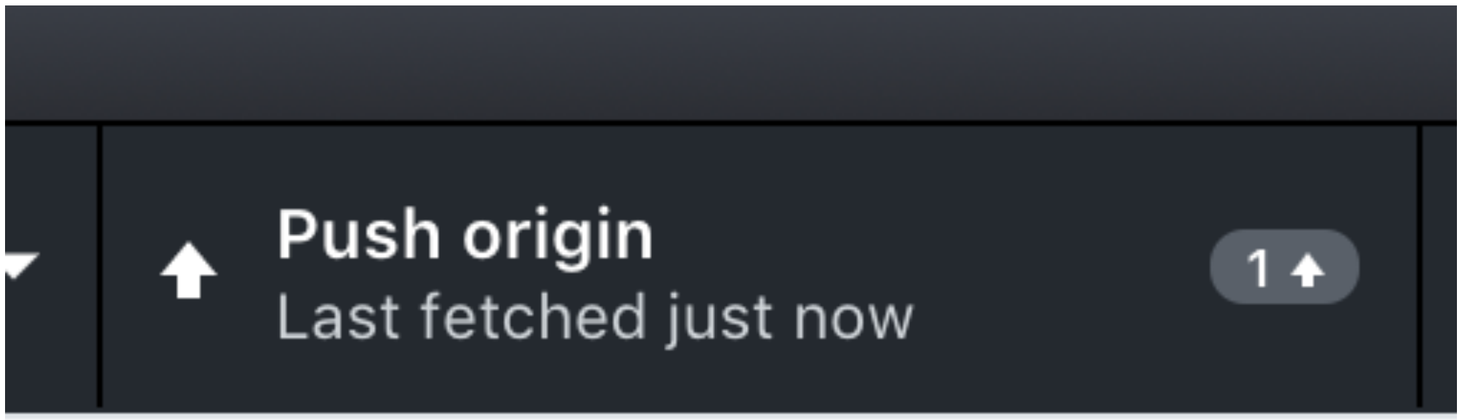
Final Project repository

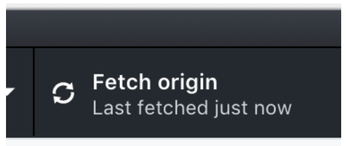
This repository is a collection of code and figures used in the final project.

Data Description

- Dataset name
- Source
- Number of rows and observation

Once it is published, you will be using **Push** to send to a remote GitHub repository and **Fetch** to syncronize your local files with the remote repository (if changes are made online).





Cloning Remote Repository

When you need to save a remote repository locally, clone it and select Open in Desktop.