



FIRE: THE FIRST-YEAR INNOVATION & RESEARCH EXPERIENCE

SUSTAINABILITY ANALYTICS

How to edit R scripts from a GitHub repository
in your local computer with Windows OS

Preferred Computer Specs

- At least 8GB RAM of memory
- At least 2GB of storage

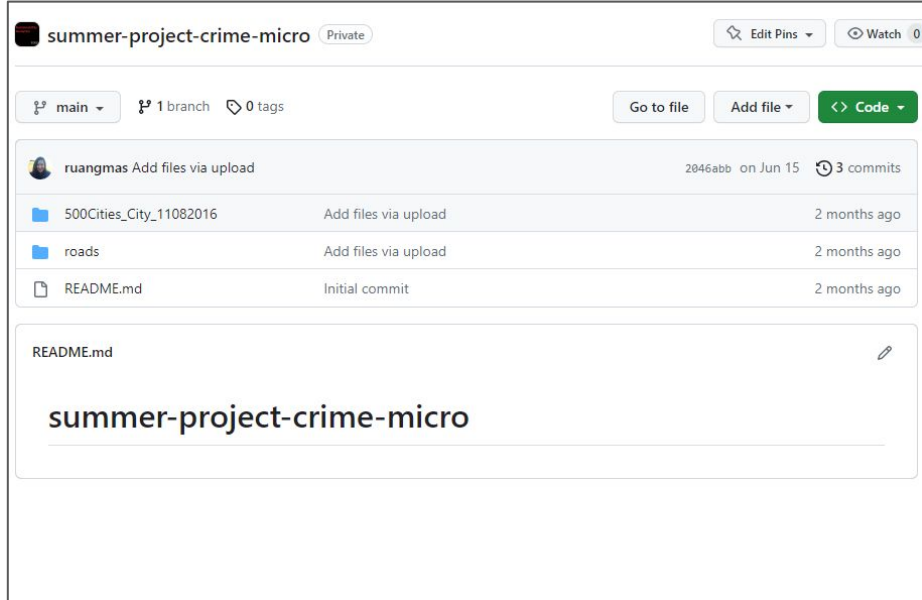
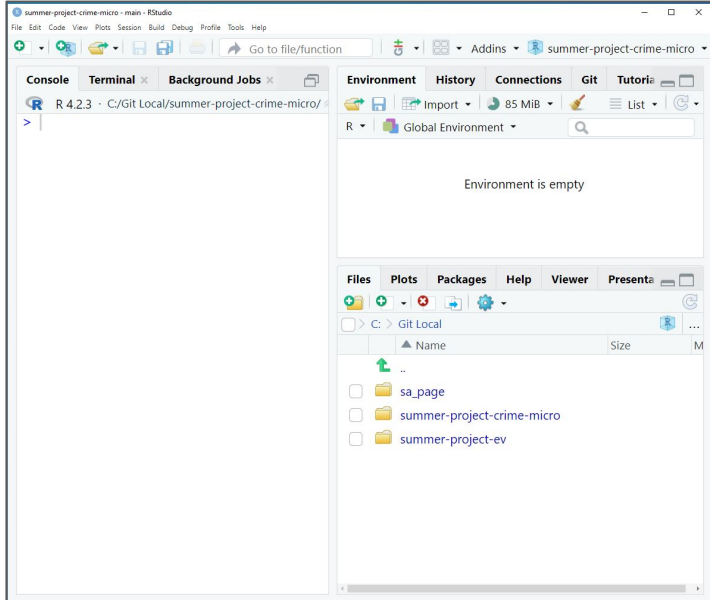
Methods and Required Installations

- Method 1: Use the Git version control functions embedded in RStudio
 - Install [R and RStudio](#)

- Method 2: Use GitHub Desktop to synchronize files
 - Install [R and RStudio](#)
 - Install [GitHub Desktop](#)

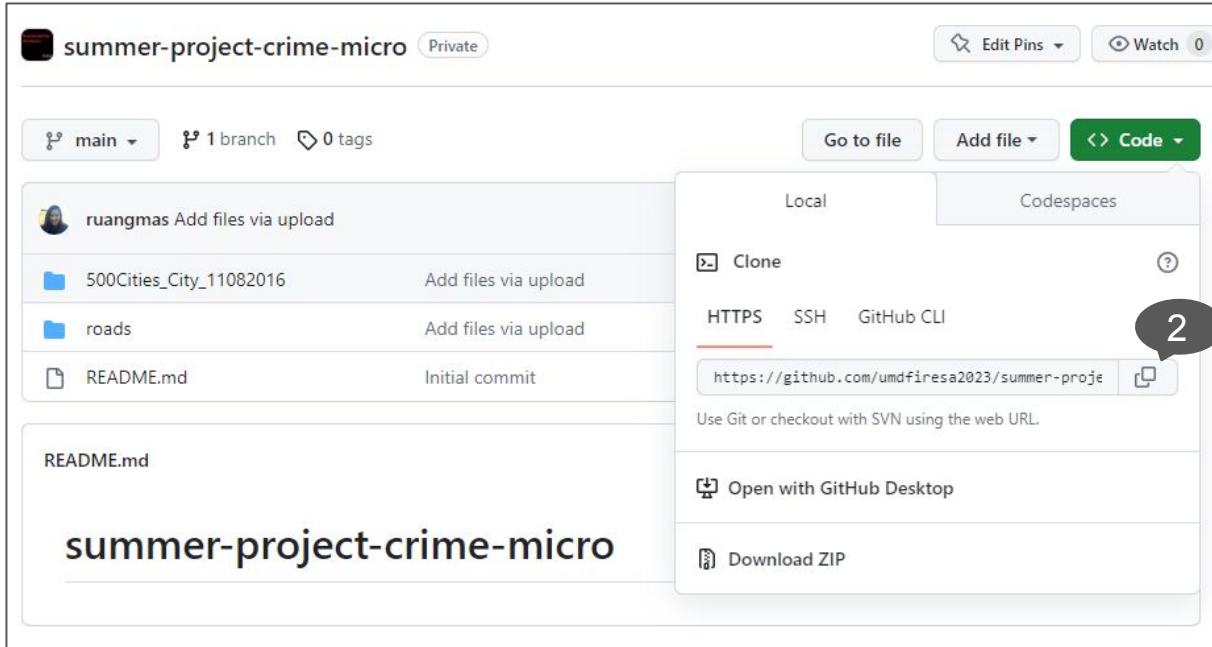
Method 1

Step 1: Open RStudio and the website that contains the repository that you would like to clone in GitHub



Method 1

Step 2: Copy the repository's HTTPS



The screenshot shows the GitHub interface for a repository named "summer-project-crime-micro". The repository is private and has 1 branch (main) and 0 tags. The "Code" button is highlighted, and the dropdown menu is open, showing the "Local" and "Codespaces" tabs. The "Clone" option is selected, and the "HTTPS" method is chosen. The URL "https://github.com/umdfiresa2023/summer-proje" is displayed in a text box, and a callout bubble with the number "2" is positioned over it. The "Open with GitHub Desktop" and "Download ZIP" options are also visible in the dropdown menu.

summer-project-crime-micro Private

Edit Pins Watch 0

main 1 branch 0 tags

Go to file Add file <> Code

Local Codespaces

Clone ?

HTTPS SSH GitHub CLI

https://github.com/umdfiresa2023/summer-proje

Use Git or checkout with SVN using the web URL.

Open with GitHub Desktop

Download ZIP

ruangmas Add files via upload

500Cities_City_11082016 Add files via upload

roads Add files via upload

README.md Initial commit

README.md

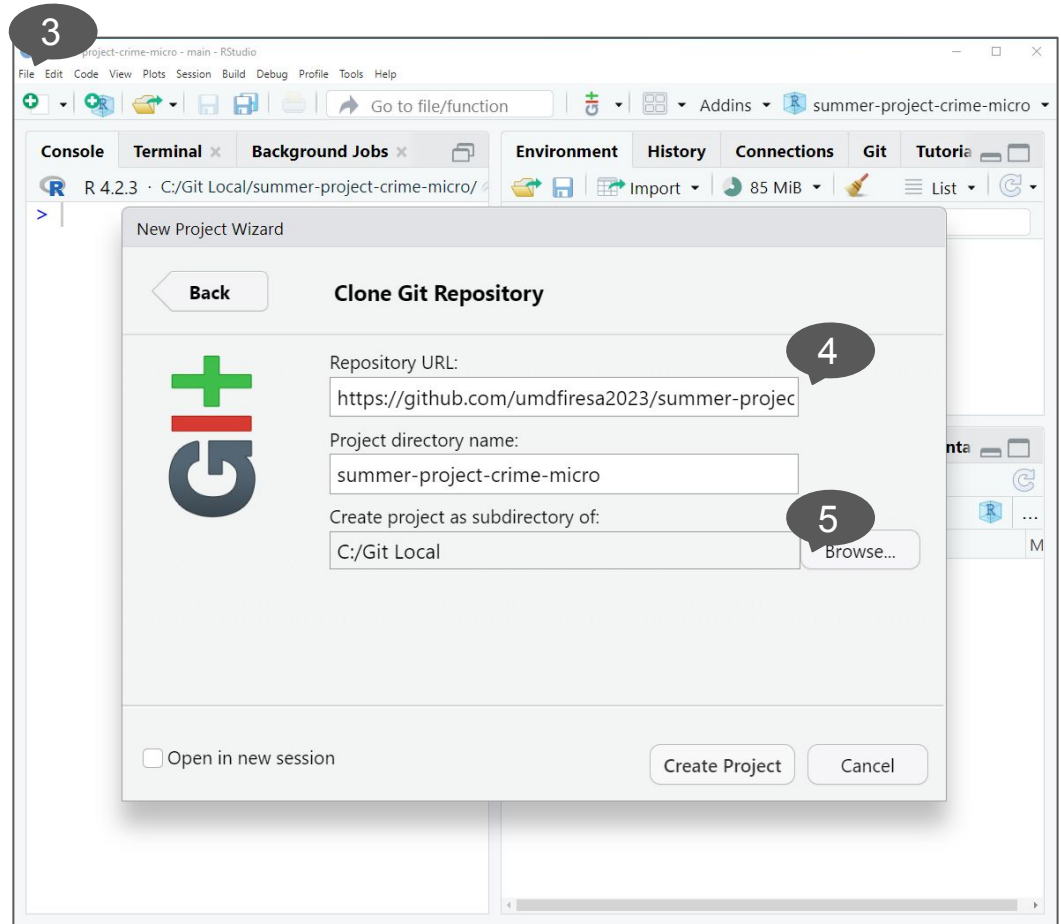
summer-project-crime-micro

Method 1

Step 3: In RStudio, go to File>New Project>Version Control>Git

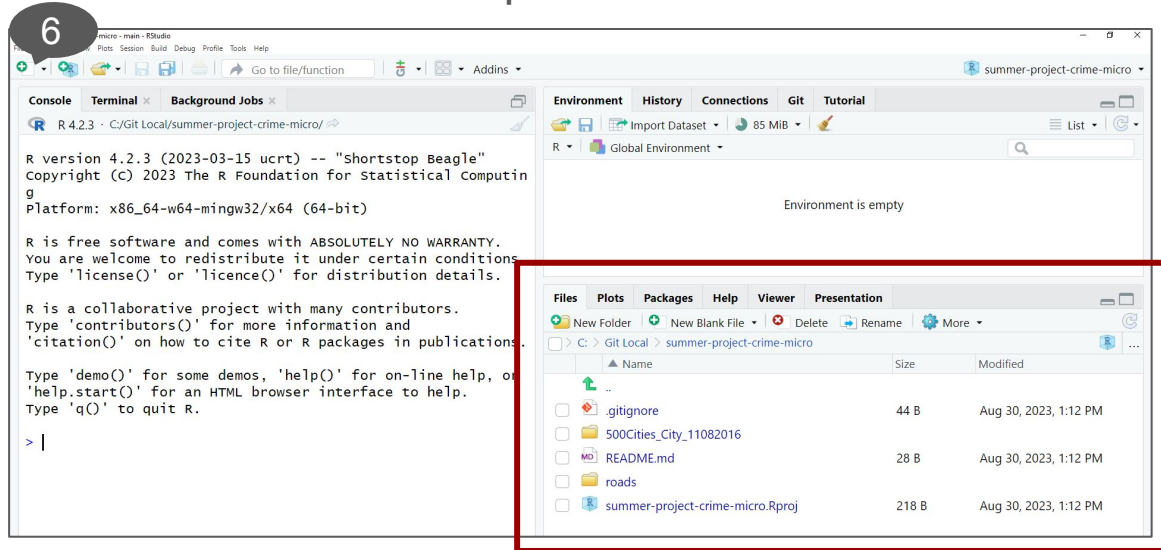
Step 4: Paste the HTTPS URL from Step 2

Step 5: Choose a location in your computer where you would like to save your files. Click **Create Project**.



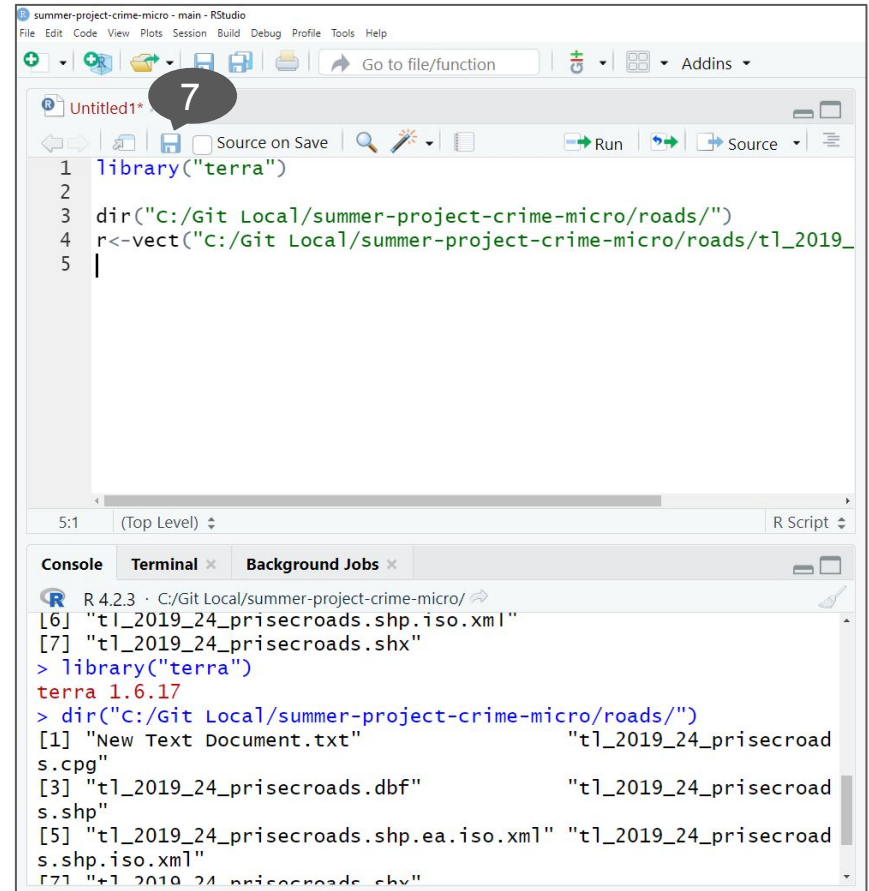
Method 1

- All the files from your GitHub repository should now be in your local computer. If the cloning did not work, you can try Method 2.
- Step 6: You can click on an existing .R or .Rmd file to edit it or click on the **New File** button to write a new script



Method 1

- Step 7: Once you have made some edits that you would like to save, click the Save button. Follow the steps directed by RStudio to save the file in your local repository folder.



```
summer-project-crime-micro - main - RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
Untitled1*
Source on Save
Run
Source
1 library("terra")
2
3 dir("c:/Git Local/summer-project-crime-micro/roads/")
4 r<-vect("c:/Git Local/summer-project-crime-micro/roads/t1_2019_
5 |

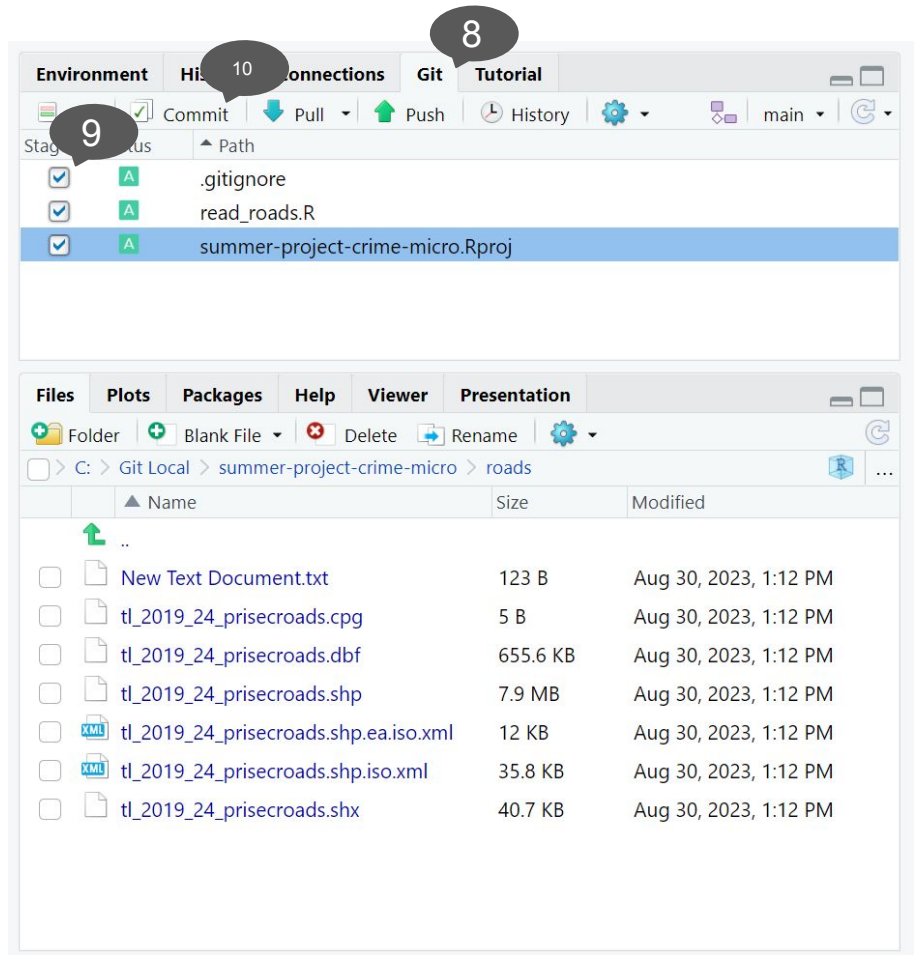
5:1 (Top Level) R Script
Console Terminal Background Jobs
R 4.2.3 · C:/Git Local/summer-project-crime-micro/
[6] "t1_2019_24_prisecroads.shp.iso.xml"
[7] "t1_2019_24_prisecroads.shx"
> library("terra")
terra 1.6.17
> dir("c:/Git Local/summer-project-crime-micro/roads/")
[1] "New Text Document.txt" "t1_2019_24_prisecroad
s.cpg"
[3] "t1_2019_24_prisecroads.dbf" "t1_2019_24_prisecroad
s.shp"
[5] "t1_2019_24_prisecroads.shp.ea.iso.xml" "t1_2019_24_prisecroad
s.shp.iso.xml"
[7] "t1_2019_24_prisecroads.shx"
```


Method 1

Step 8: To push the files back into GitHub, go to the Git tab.

Step 9: To add the files, check on each file.

Step 10: Click Commit.

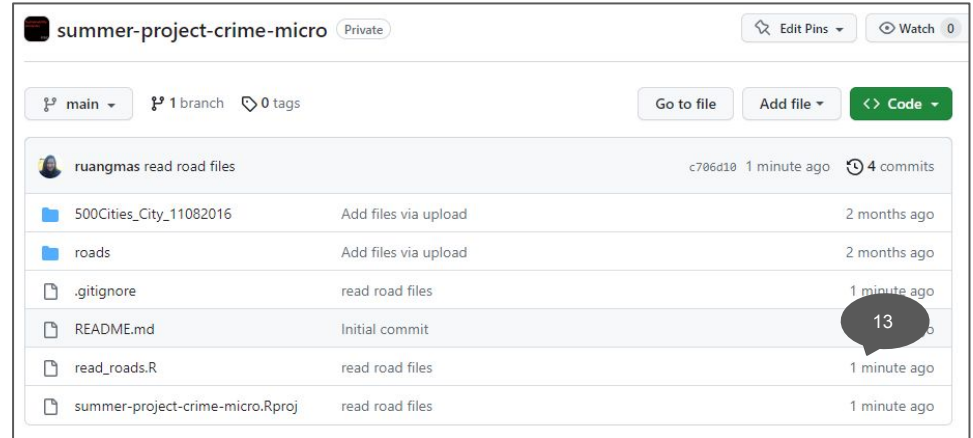
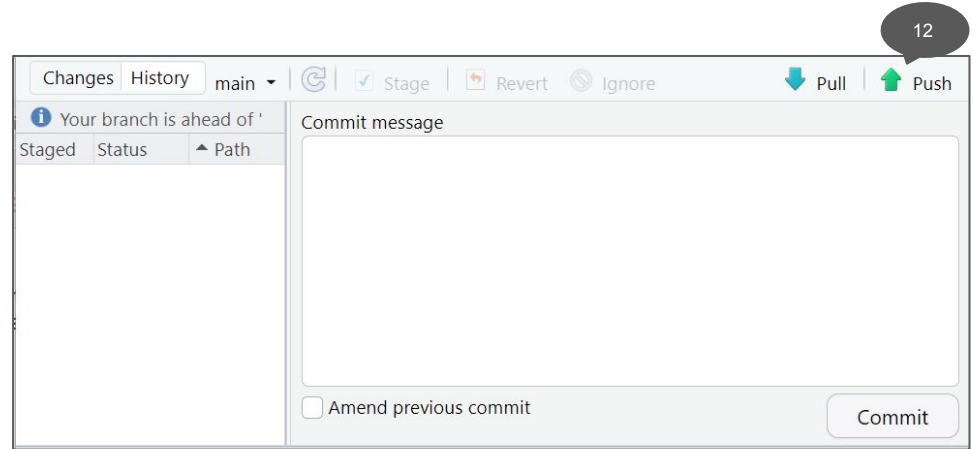


Method 1

Step 11: Write a commit message and click Commit. Afterward, click Close.

Step 12: Click Push.

Step 13: Go back to your GitHub repository on your web browser to check that the repository has been updated.

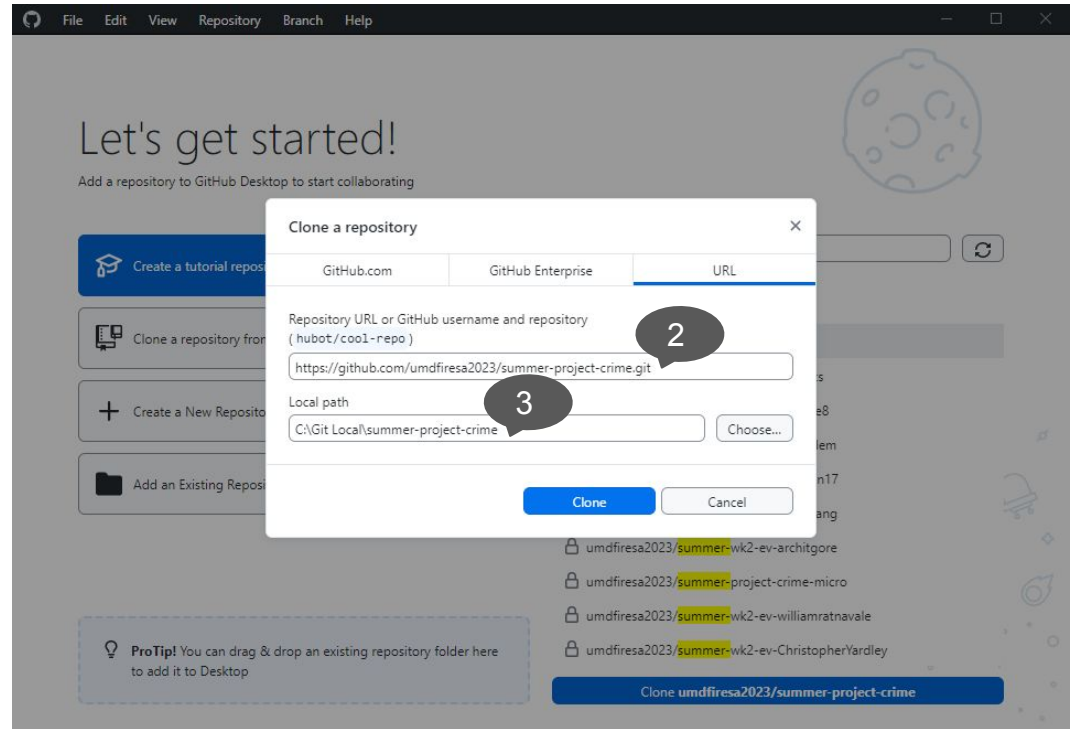


Method 2: To update any files, not just in RStudio

Step 1: Open GitHub desktop and follow their instructions to sign in.

Step 2: Choose a repository that you would like to clone to your local computer.

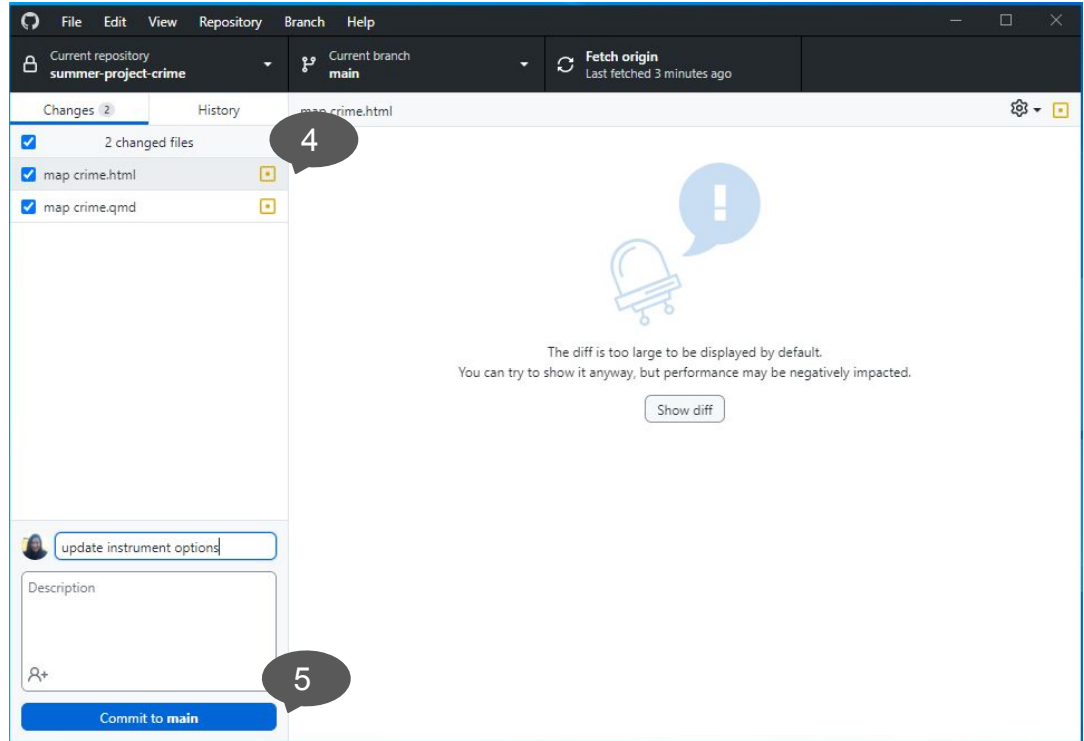
Step 3: Choose a location in your computer where you would like to save your files.



Method 2: To update any files, not just in RStudio

Step 4: Once changes have been made and saved to your local folder, the change will show up in GitHub desktop.

Step 5: To push the repository back, simply type a commit message and click **Commit to main**.



Method 2: To update any files, not just in RStudio

Step 6: Click **Push origin** to update the changes in the online repository.

Step 7: To make sure that your local repository is synchronized with with updated online repositories (in case your collaborator has updated the online repository also), click **Fetch origin**.

