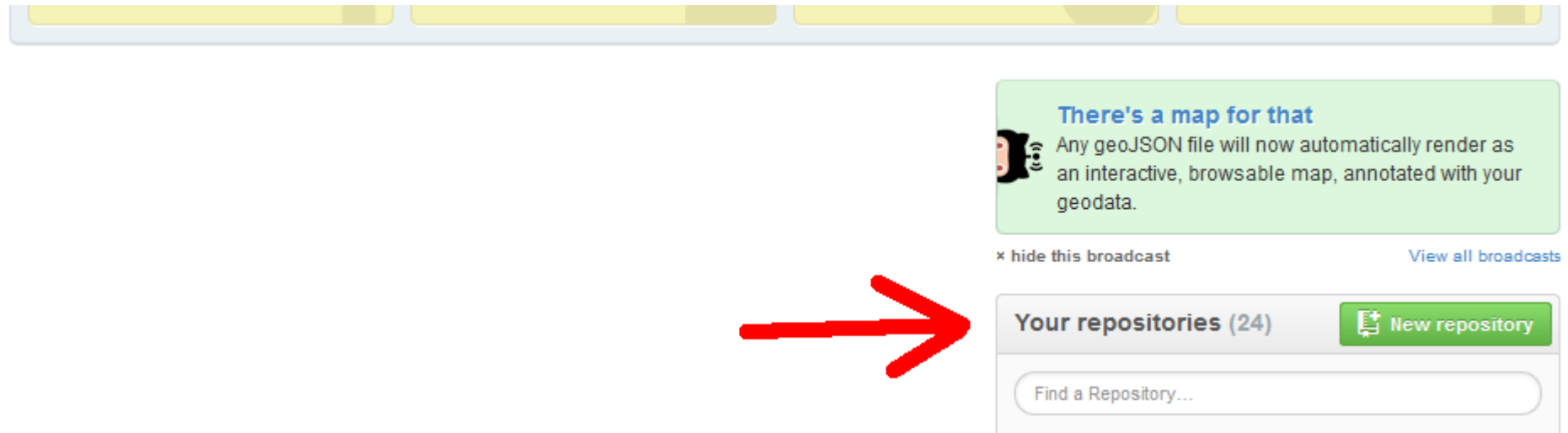


Using Git With GitGui (Available in the labs)

- Creating a new Project Repository
- Sharing the Repository with the instructor(s)
- Downloading Repository from server to harddrive
- Adding new files
- Creating a commit
- Pushing to/Syncing with the server
- Pulling new changes

1. Creating a new Project Repository




- From <https://github.com/>, scroll down until you see the green New repository button under the Your repositories section. Click the button.



1. Creating a new Project Repository

- On the Create a New Repository page, fill out the following:
 - Repository Name: CS201
 - Description: Optional
 - **Select Private** radio button
 - If it asks for a credit card, you haven't been activated as a student account yet. See week 1 slides
 - **Check** Initialize this repository with a README
 - From the dropdown box, select C++ as the language


1. Creating a new Project Repository

 Owner:  rjmfff / Repository name: CS201L 


Great repository names are short and memorable. Need inspiration? How about **hairy-octo-tribble**.

Description (optional)

☐  **Public**
Anyone can see this repository. You choose who can commit.

☒  **Private**
You choose who can see and commit to this repository.

☒ **Initialize this repository with a README**
This will allow you to `git clone` the repository immediately.

Add .gitignore: C++ 

Create repository

1. Creating a new Project Repository

- You will need to create an additional repository if you're in the CS 201 Lab.
 - CS 201
 - CS 201 L

2. Sharing your Repositories

- For CS 201, you will need to share your repository with Rachel.
- For CS 201 L, you will need to share your repository with Imrul and Rachel.

2. Sharing your Repositories

- From your Repository website,
https://github.com/YOUR_USERNAME/CS201
Click on the Settings button.

2. Sharing your Repositories

The screenshot shows a GitHub repository page for 'rjmfff / CS201'. The repository is marked as 'PRIVATE'. At the top, there are buttons for 'Pull Request', 'Unwatch', 'Star' (0), and 'Fork' (0). Below these are tabs for 'Code', 'Network', 'Pull Requests' (0), 'Issues' (0), 'Wiki', 'Graphs', and 'Settings'. A red arrow points to the 'Settings' tab. The 'Code' tab is active, showing a 'No description or homepage.' message. Below this are buttons for 'Clone in Windows', 'ZIP', and 'HTTP/SSH' links. The SSH link is 'https://github.com/rjmfff/CS201.git'. To the right of the links is a 'Read+Write access' button. Below the links are tabs for 'branch: master', 'Files', 'Commits', 'Branches' (1), and 'Tags'. The 'Files' tab is active, showing a list of files: '.gitignore' and 'README.md', both committed 'a minute ago'. The commit is by 'rjmfff' and is the 'Initial commit'. The commit hash is 'ed48ed41ae'. Below the file list is a section for 'README.md'.

PRIVATE rjmfff / CS201

Pull Request Unwatch Star 0 Fork 0

Code Network Pull Requests 0 Issues 0 Wiki Graphs Settings

No description or homepage.

Clone in Windows ZIP HTTP SSH https://github.com/rjmfff/CS201.git Read+Write access

branch: master Files Commits Branches 1 Tags

CS201 / 1 commit

Initial commit

rjmfff authored a minute ago latest commit ed48ed41ae

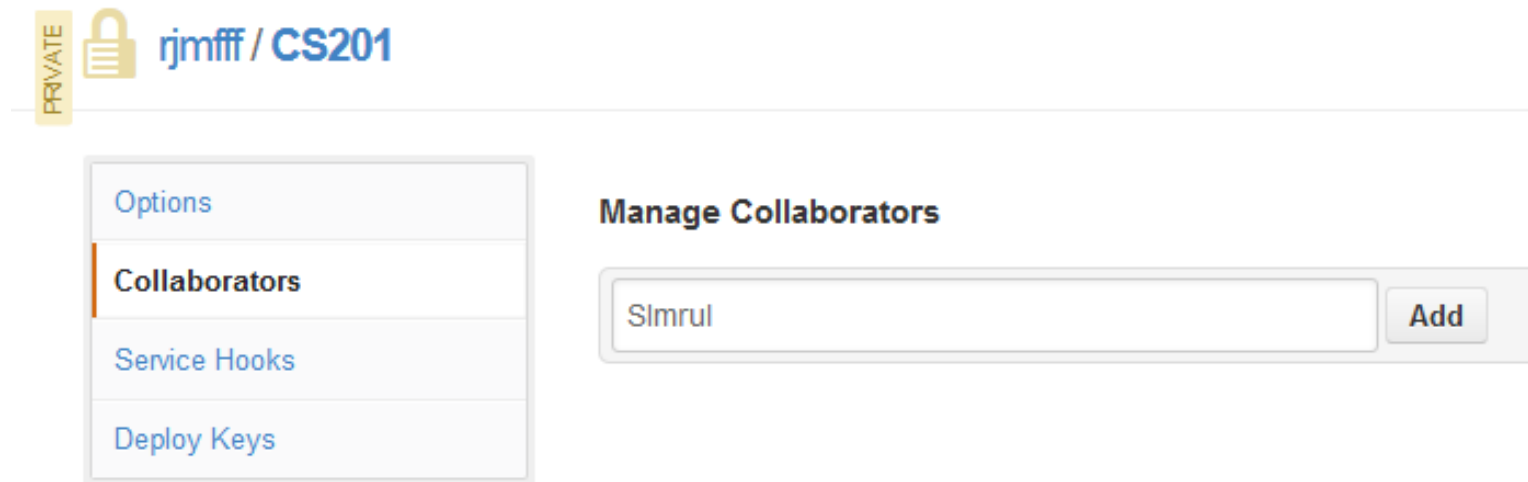
.gitignore	a minute ago	Initial commit [rjmfff]
README.md	a minute ago	Initial commit [rjmfff]

README.md

2. Sharing your Repositories

- From the Settings page, click on the Collaborators tab.
- In the Collaborators tab, enter our IDs:
 - RJMFFF for Rachel (CS 201 and CS 201 L)
 - Simrul for Imrul
 - Usernames are not case-sensitive
- Click on the Add button.

2. Sharing your Repositories



3. Setting up GitGui

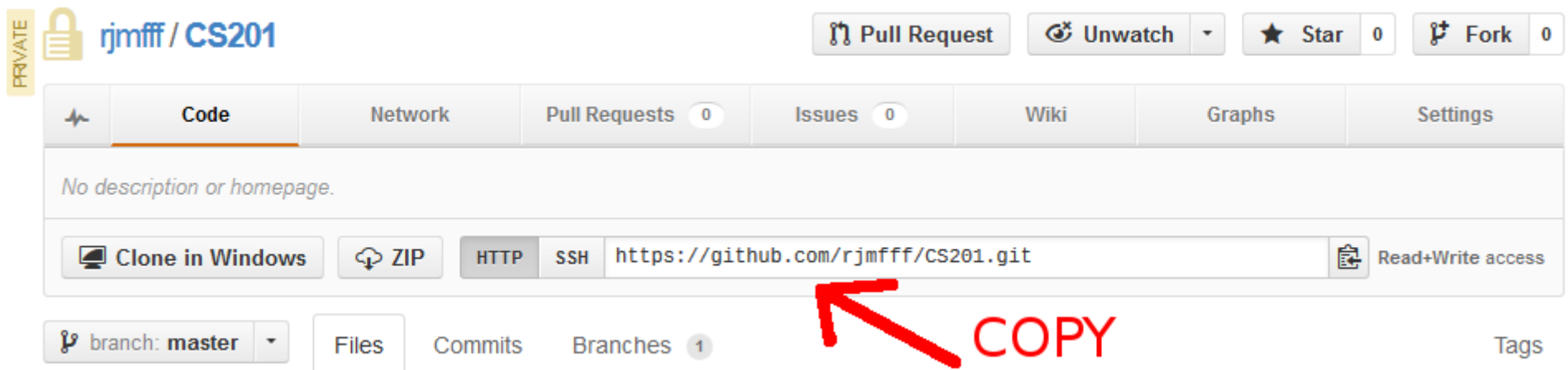
- Install GitGui on your machine, or it will be available on lab computers already.

4. Downloading your Repository

- The repository is currently only on the web server. To add and change files, you need to pull it down to your local machine.
- You will modify files on your harddrive, and when you're done with a change, push them back to the server.

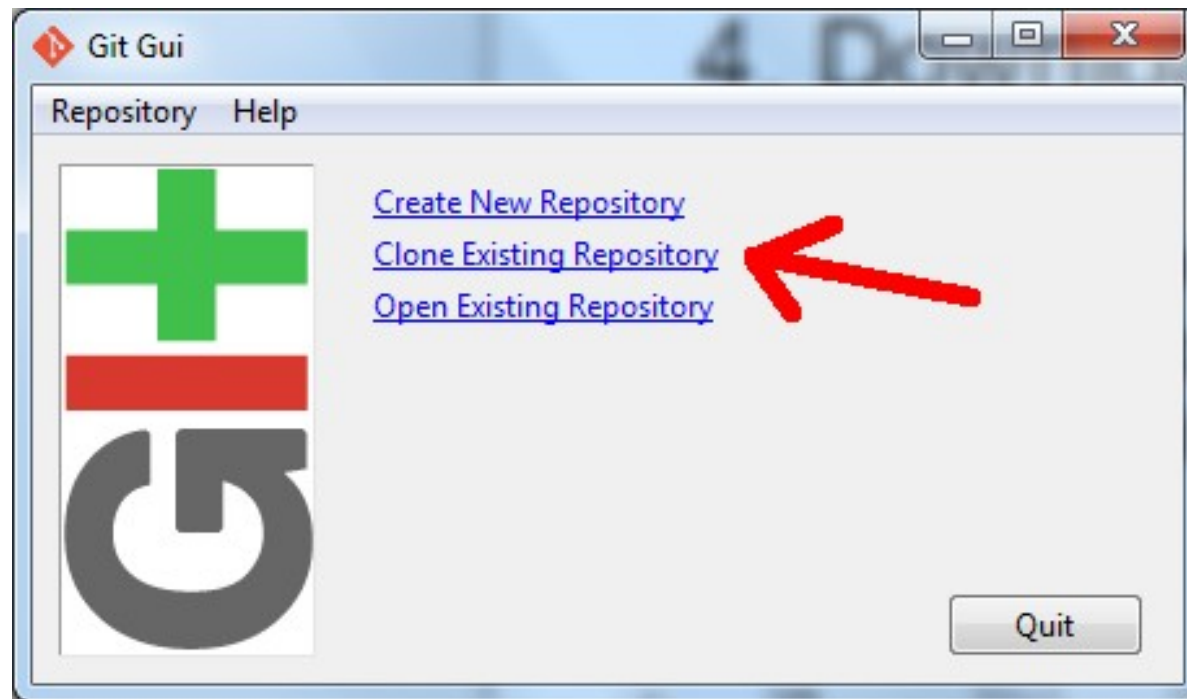
4. Downloading your Repository

- From your Repository website, `https://github.com/YOUR_USERNAME/CS201` highlight the `.git` URL and copy it.



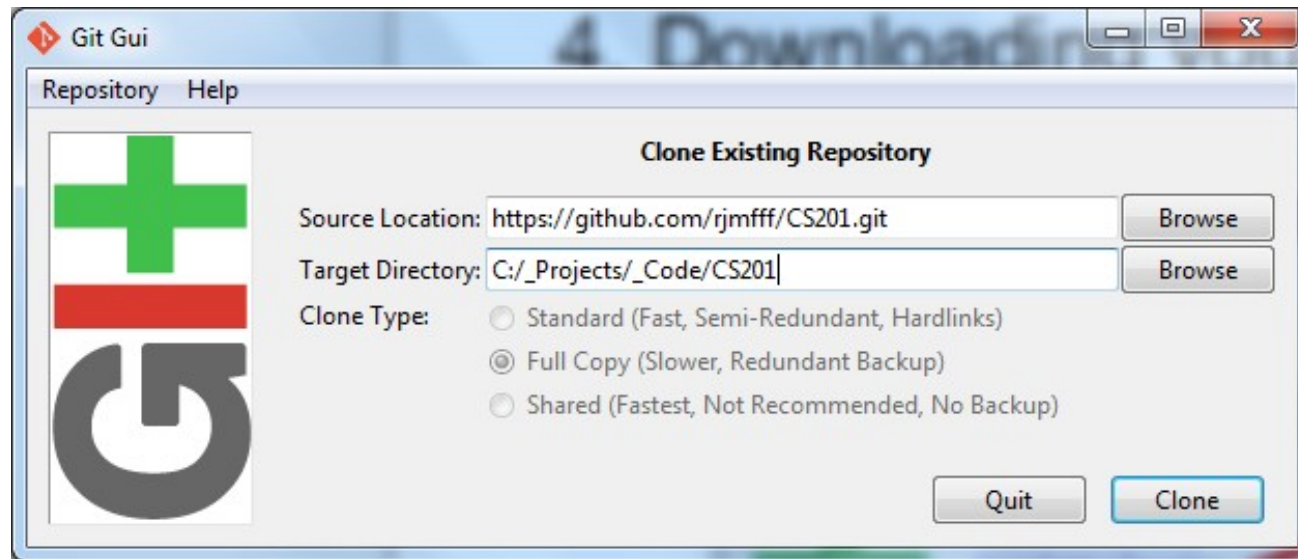
4. Downloading your Repository

- Select the Clone Existing Repository option.



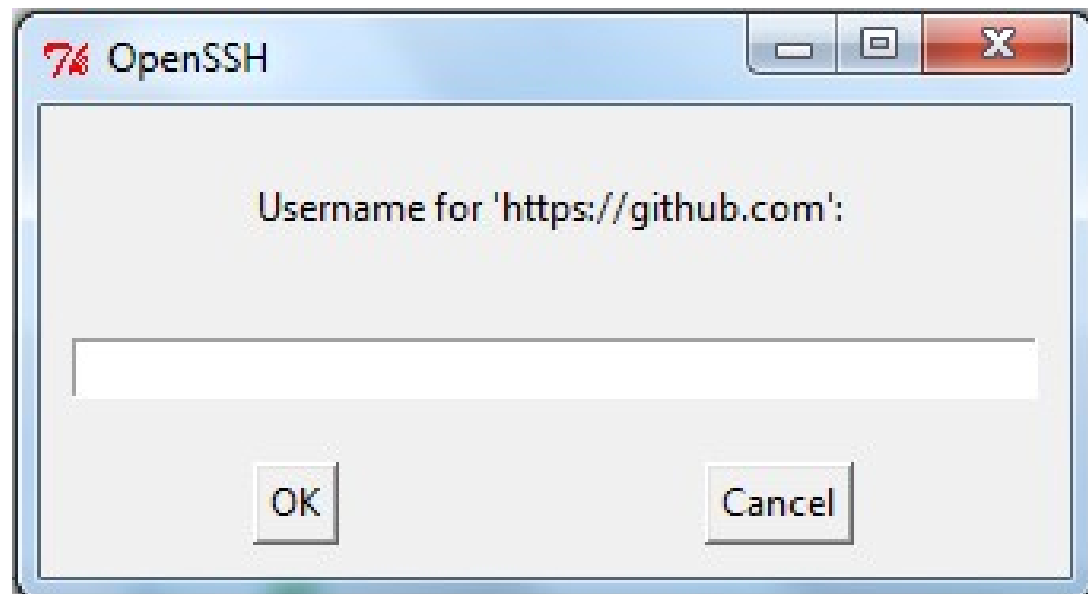
4. Downloading your Repository

- Paste the .git URL into Source Location, and find a place on your harddrive under Target Directory.
- Click Clone.



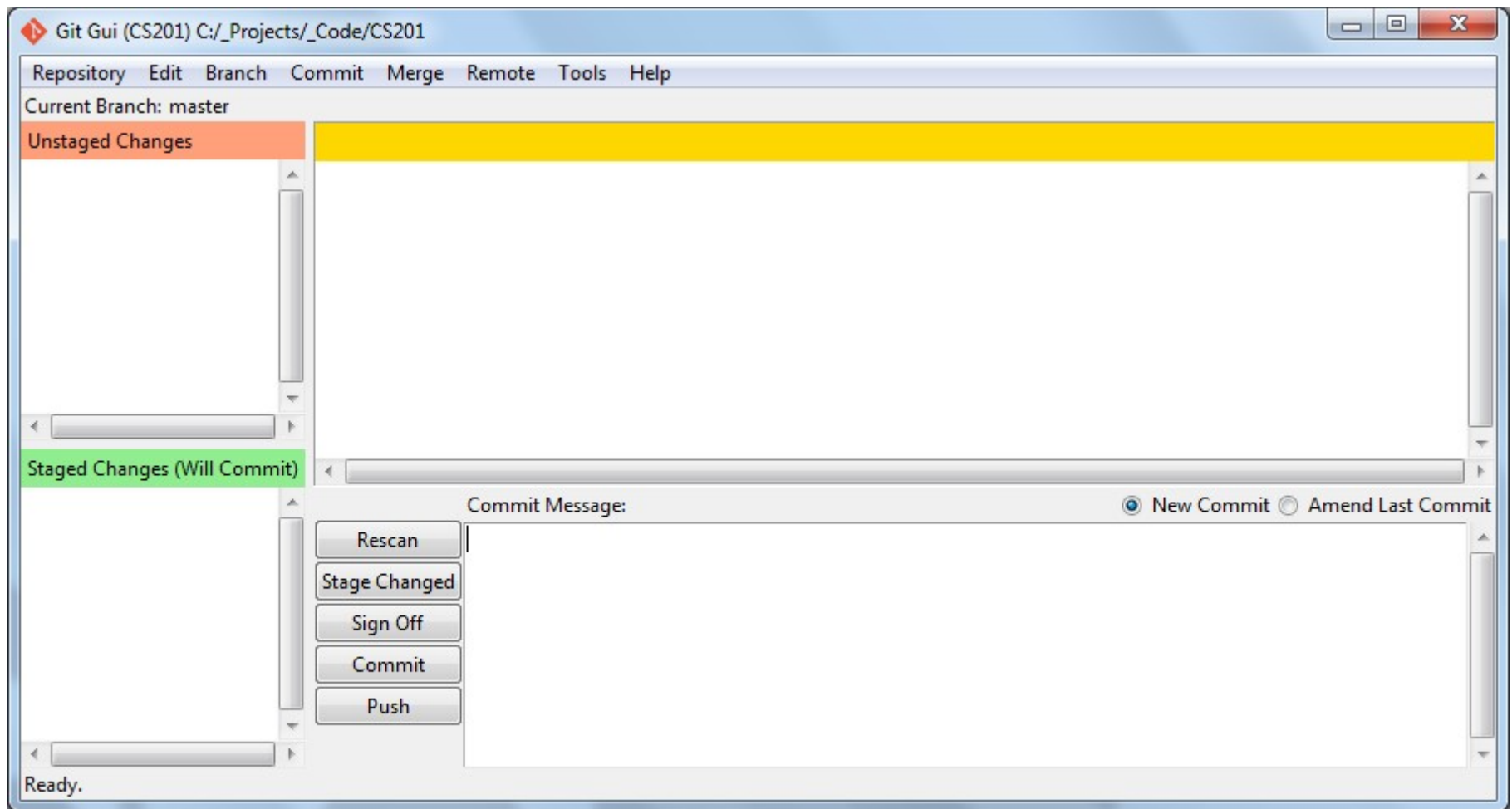
4. Downloading your Repository

- It might ask for your username/password three times during the setup.



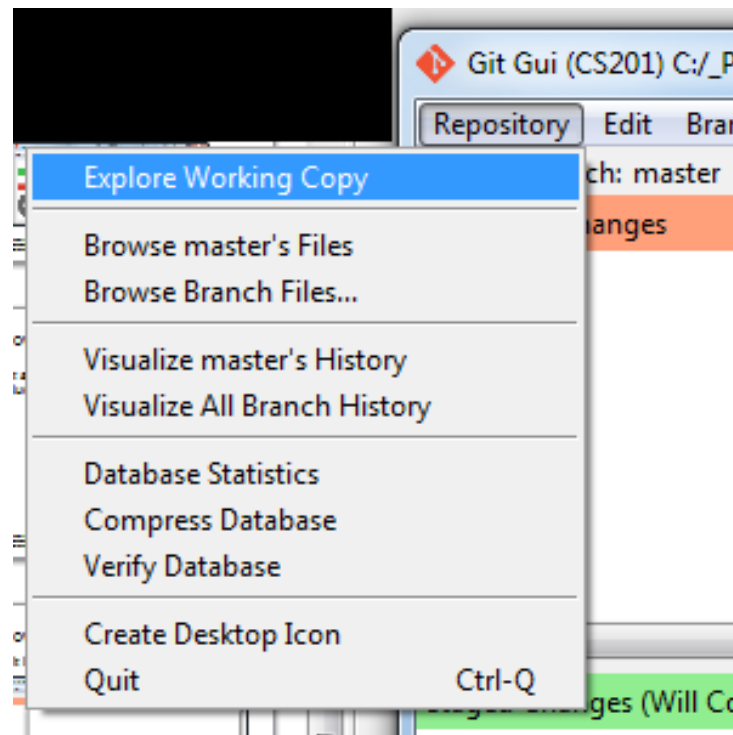
4. Downloading your Repository

- When it is done, you will see the main panel:



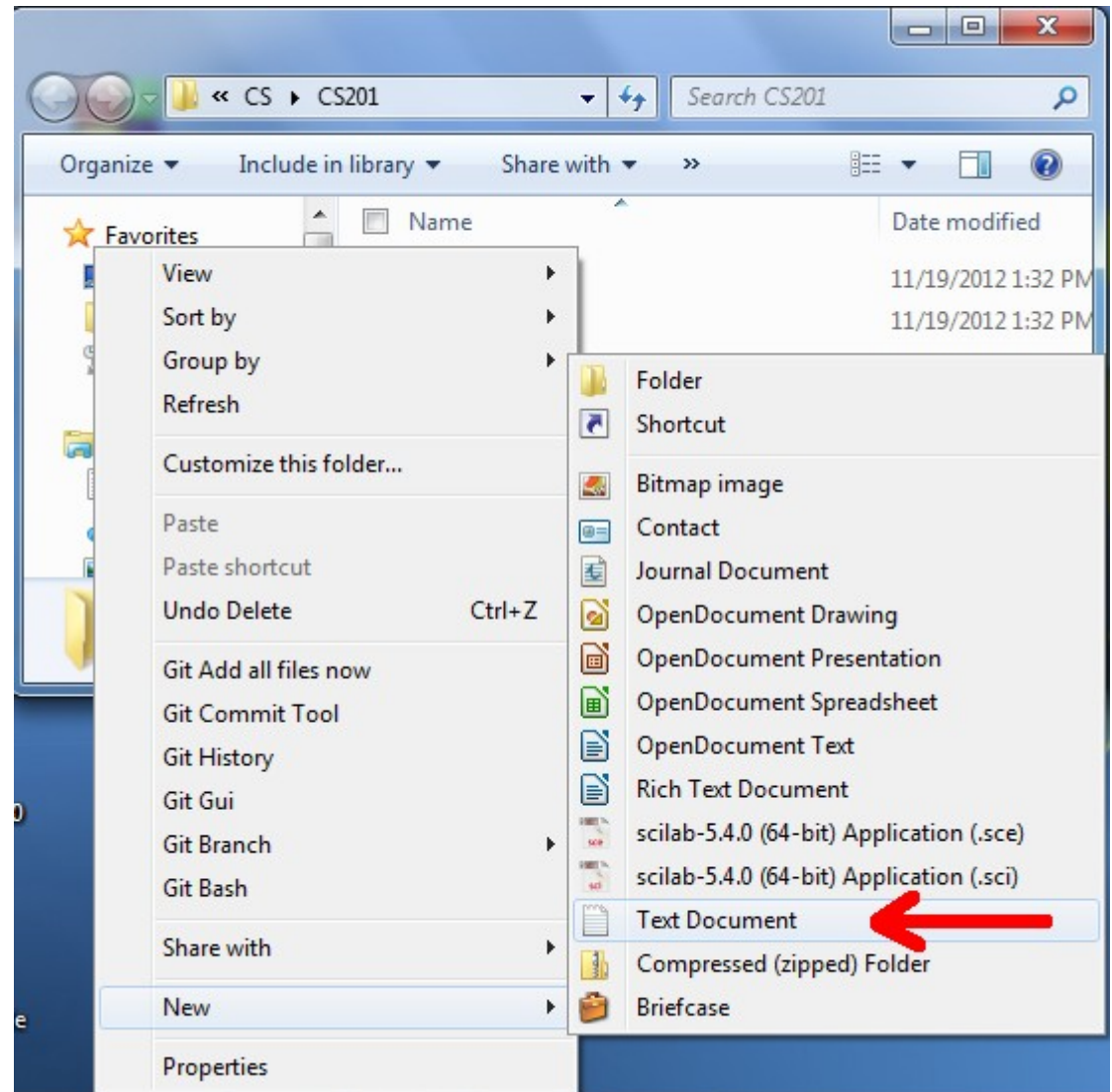
5. Adding a test file

- From the main panel, go to the Repository dropdown menu, and click Explore Working Copy. This will open Windows Explorer.



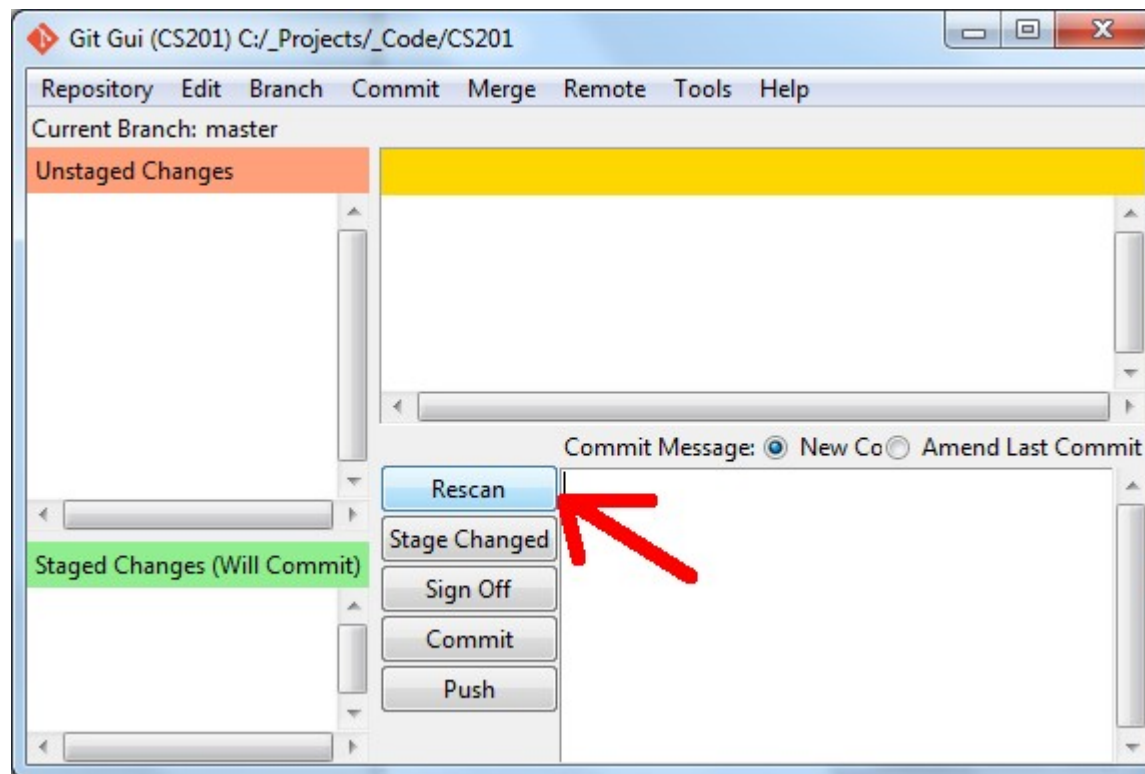
5. Adding a test file

- Create a new text document in the repository folder.

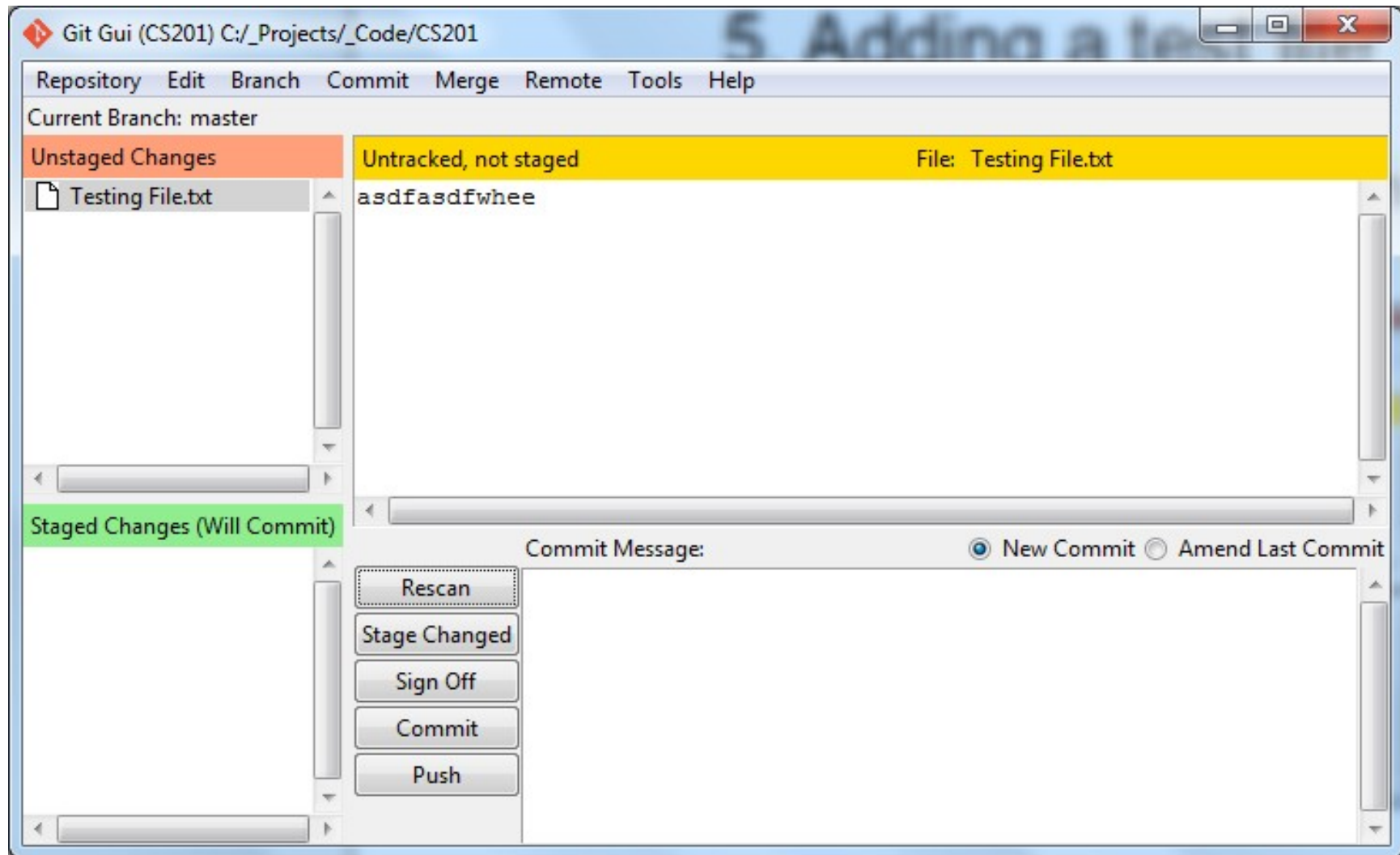


5. Adding a test file

- Click on the Rescan button to refresh our file list view.

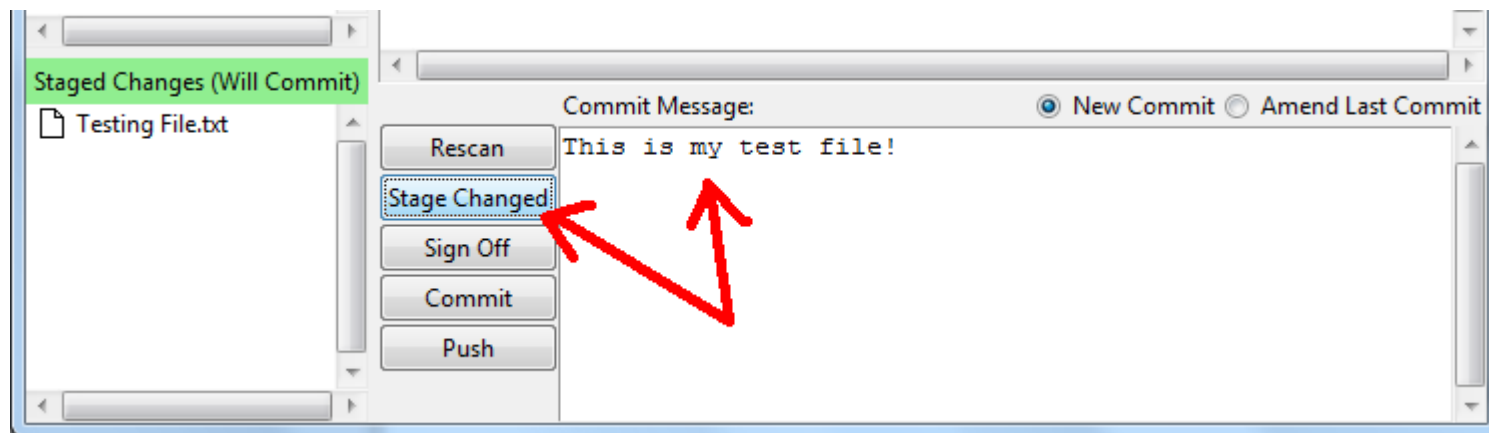


5. Adding a test file



5. Adding a test file

- Click on the Stage Changed button to add our changed files.
- Add a commit message. Usually you should describe what you changed in the code.

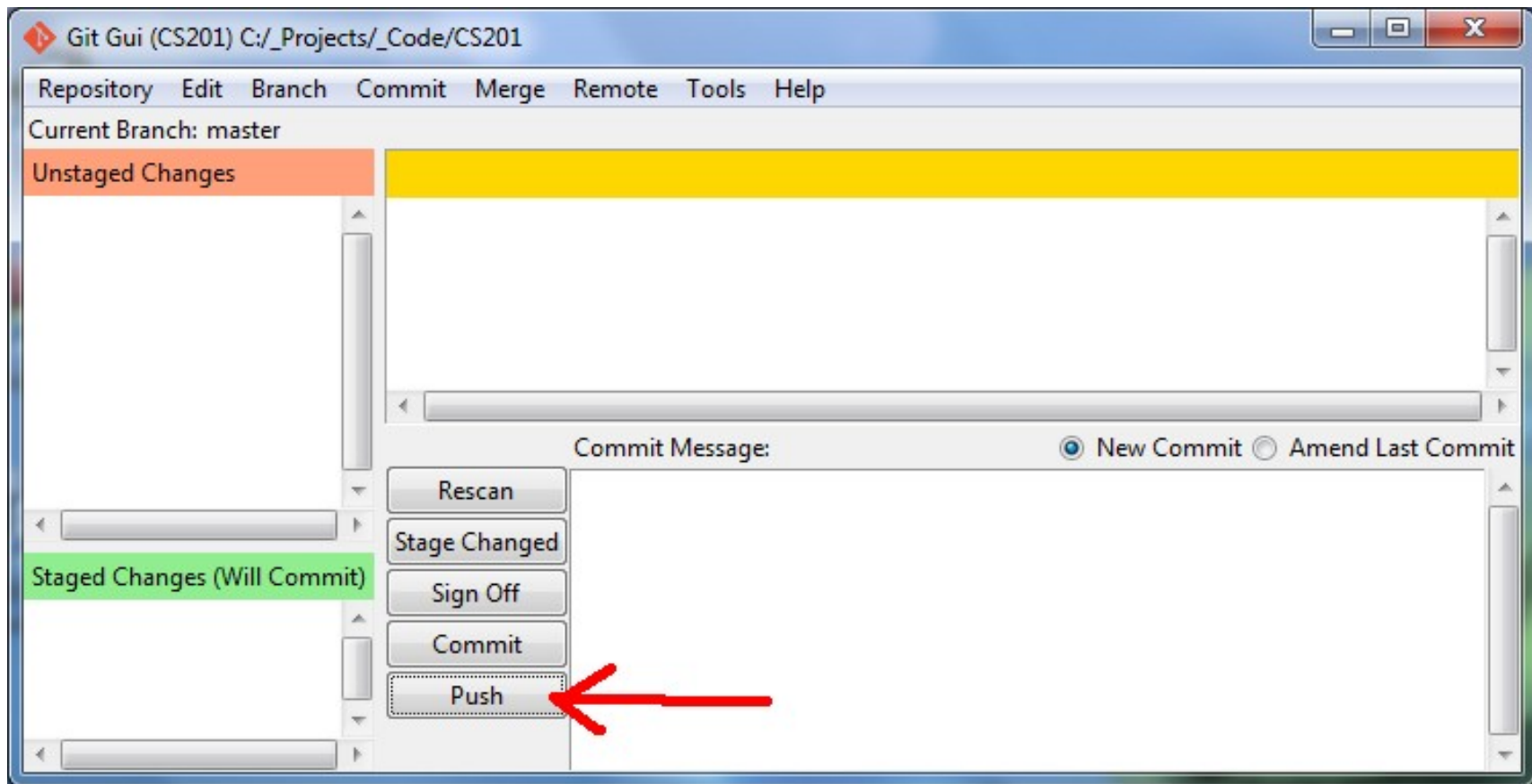


5. Adding a test file

- Click commit and the staged change will go away.
- Committing is a way to keep a snapshot of changes in your code.
- However, our files won't be backed up to the server until we **push** them.

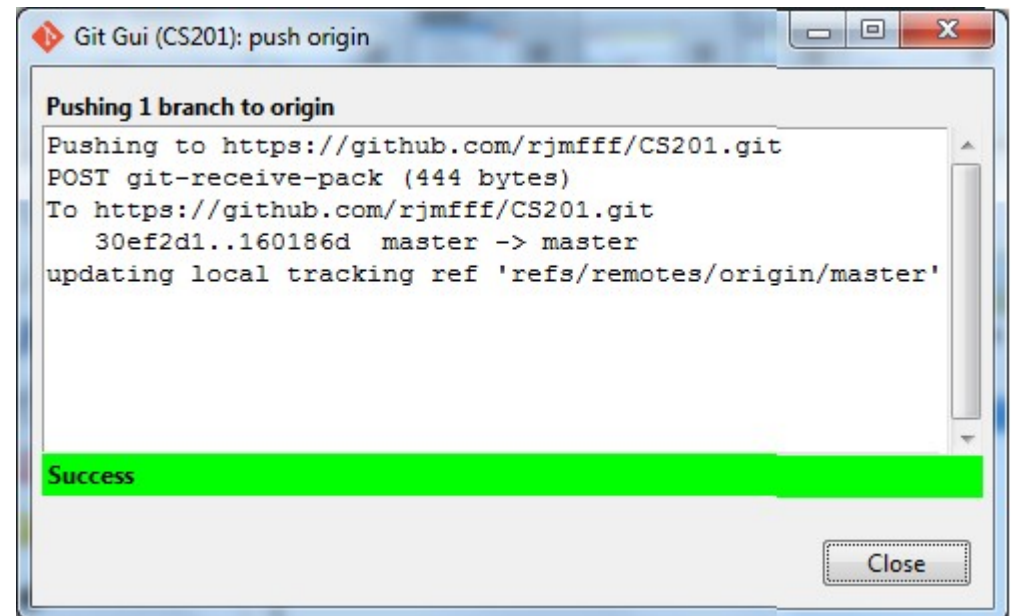
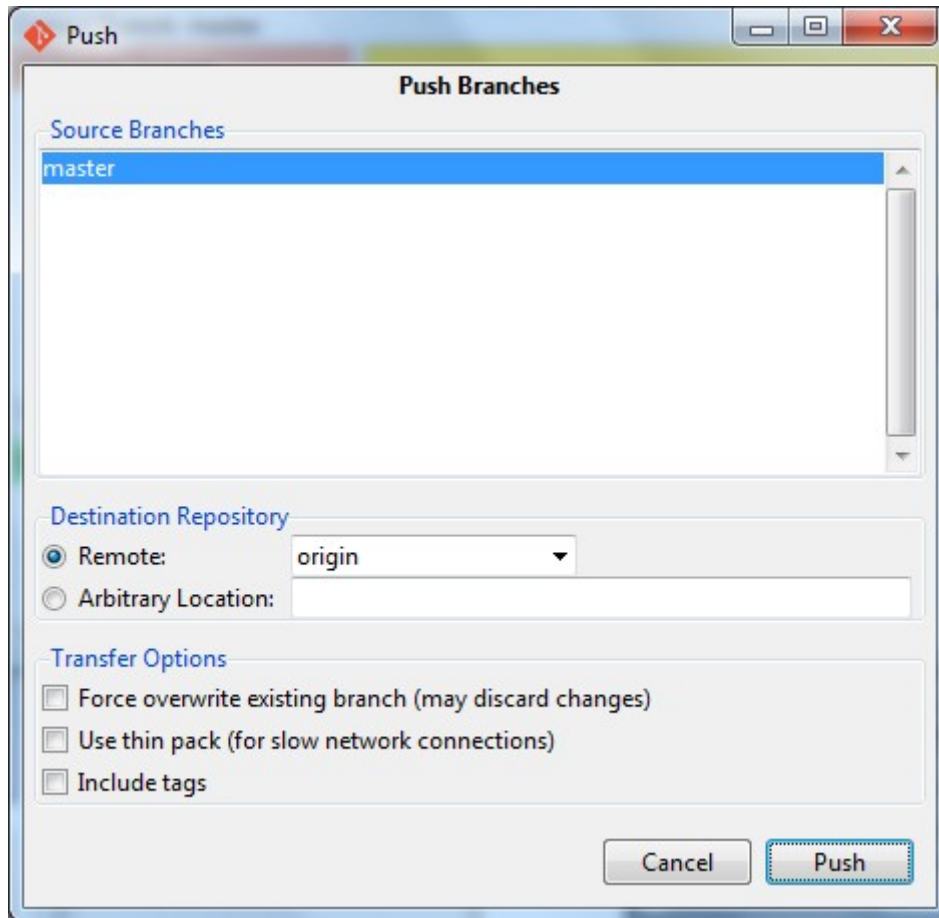
6. Pushing your changes to the server

- Click on the Push button



6. Pushing your changes to the server

- Keep the default settings and click Push.



6. Pushing your changes to the server

- Your changes will now be visible on the webpage.

The screenshot shows the GitHub interface for the repository 'rjmfff / CS201'. At the top, there are buttons for 'Pull Request', 'Unwatch', 'Star' (0), and 'Fork' (0). Below these are tabs for 'Code', 'Network', 'Pull Requests' (0), 'Issues' (0), 'Wiki', 'Graphs', and 'Settings'. The 'Code' tab is selected, showing a 'No description or homepage.' message. Below this are buttons for 'Clone in Windows', 'ZIP', and 'SSH' with the URL 'https://github.com/rjmfff/CS201.git'. A 'Read+Write access' button is also present. The 'branch: master' dropdown is visible. The 'Files' tab is selected, showing a list of files and their commit history. The files listed are '.gitattributes', '.gitignore', 'New Text File.txt', 'README.md', and 'Testing File.txt'. The commit history for each file is shown, including the author, time ago, and the commit message.

CS201 / [+](#) 7 commits

File	Commit Message	Author	Time Ago
.gitattributes	Test Commit [Moosader]	Moosader	4 days ago
.gitignore	Merge? [Moosader]	Moosader	22 minutes ago
New Text File.txt	Created a new test file [Moosader]	Moosader	27 minutes ago
README.md	Initial commit [rjmfff]	rjmfff	an hour ago
Testing File.txt	This is my test file! [Moosader]	Moosader	5 minutes ago