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Third Year B. Tech., Sem VI 2021-22

Software Engineering Tools Lab

Assignment Submission

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Batch: T2

Assignment: 3

Title of assignment: Module 3 GitHub

What is GitHub desktop? How to install GitHub on local machine? Install GitHub on your local machine and access repository created in question no 1 (add screenshots).

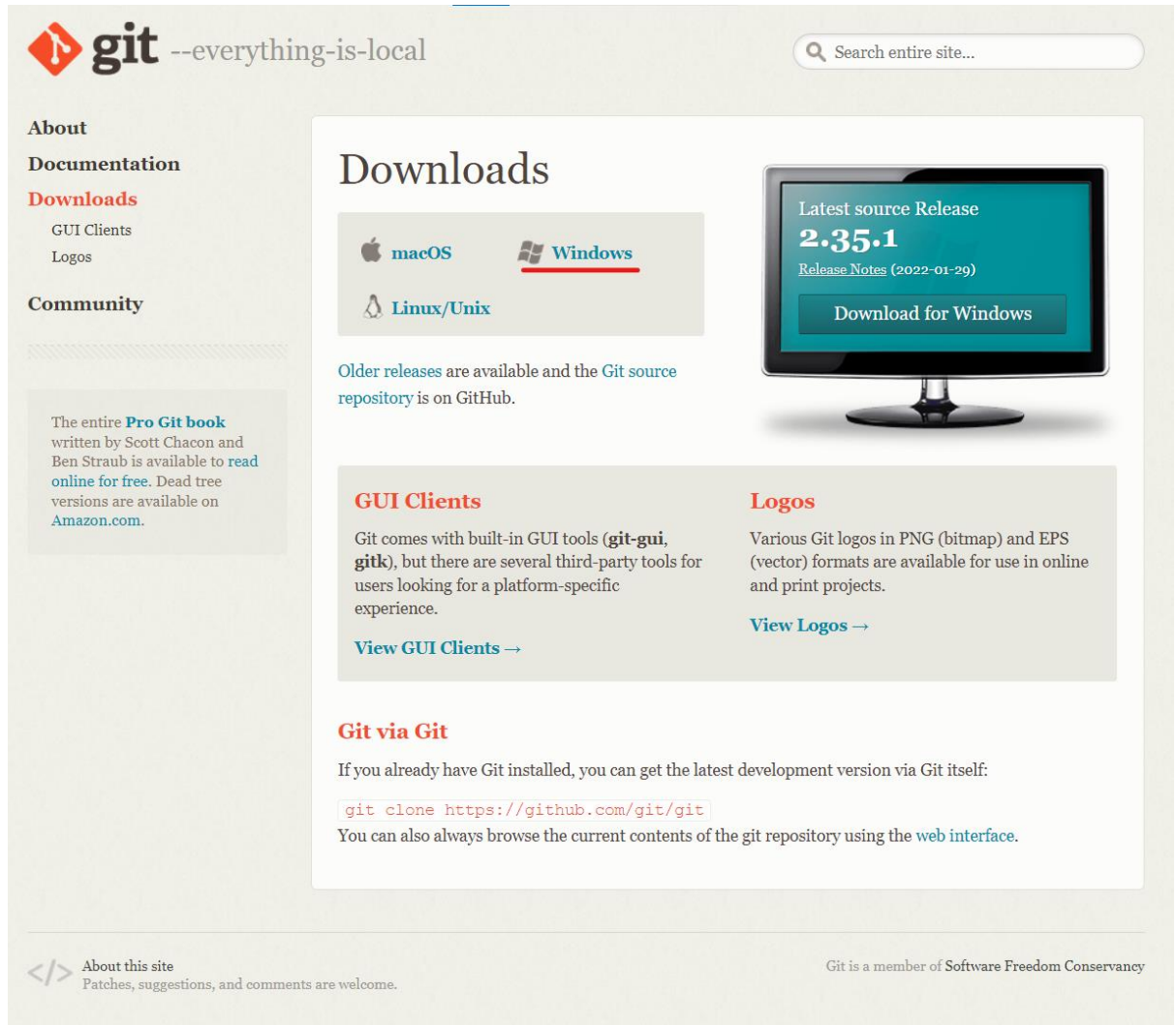
Ans:

GitHub Desktop:

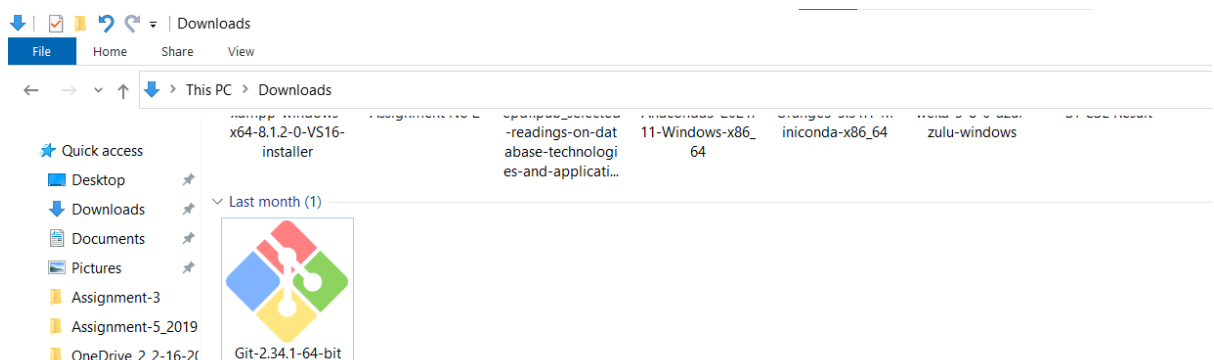
- GitHub Desktop is an application that enables you to interact with GitHub using a GUI instead of the command line or a web browser.
- GitHub Desktop encourages you and your team to collaborate using best practices with Git and GitHub.
- You can use GitHub Desktop to complete most Git commands from your desktop with visual confirmation of changes.
- You can push to, pull from, and clone remote repositories with GitHub Desktop, and use collaborative tools such as attributing commits and creating pull requests.

Installation of GitHub on Local Machine

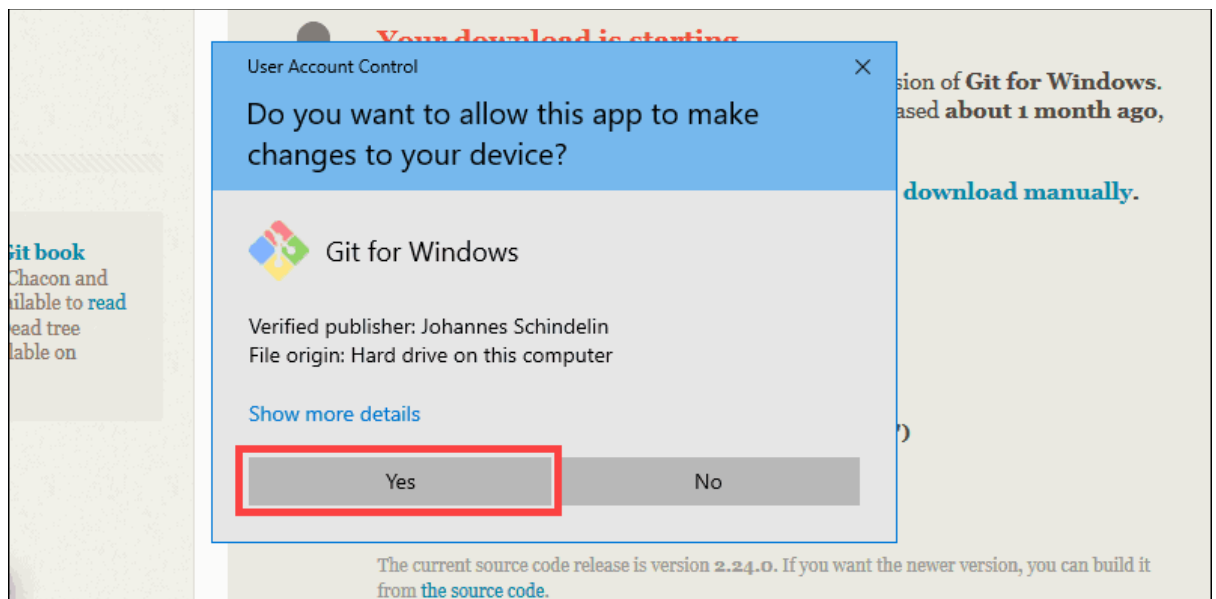
1. Browse to the official Git website: <https://git-scm.com/downloads>
2. Click the download link for Windows and allow the download to complete.



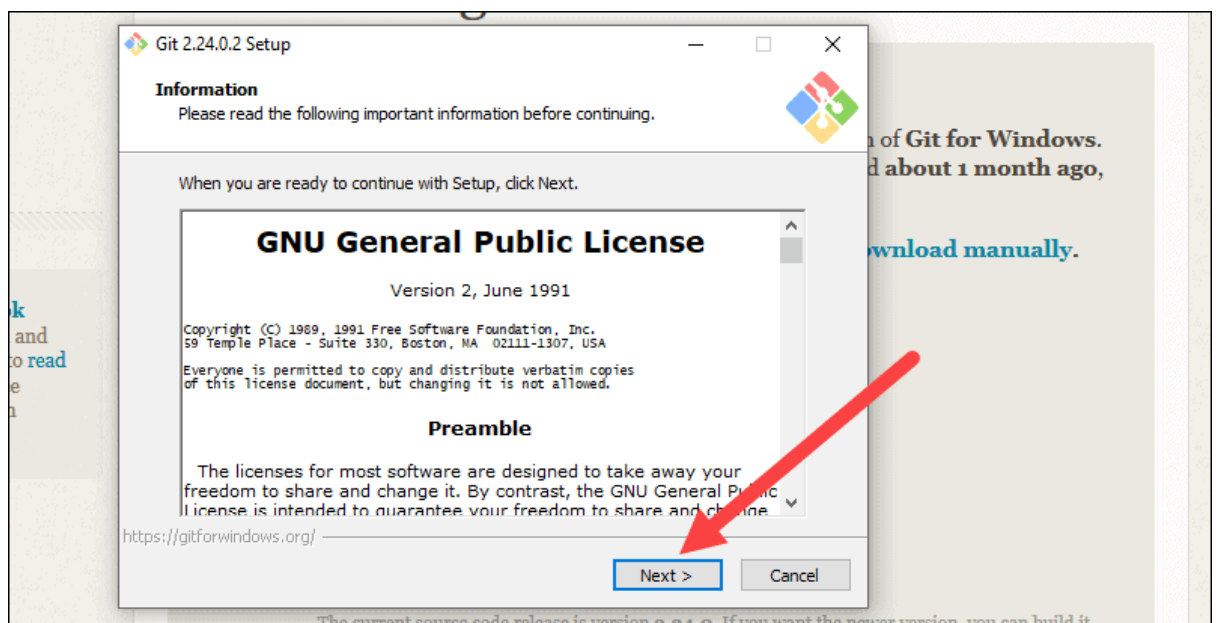
3. Browse to the download location (or use the download shortcut in your browser). Double-click the file to extract and launch the installer.



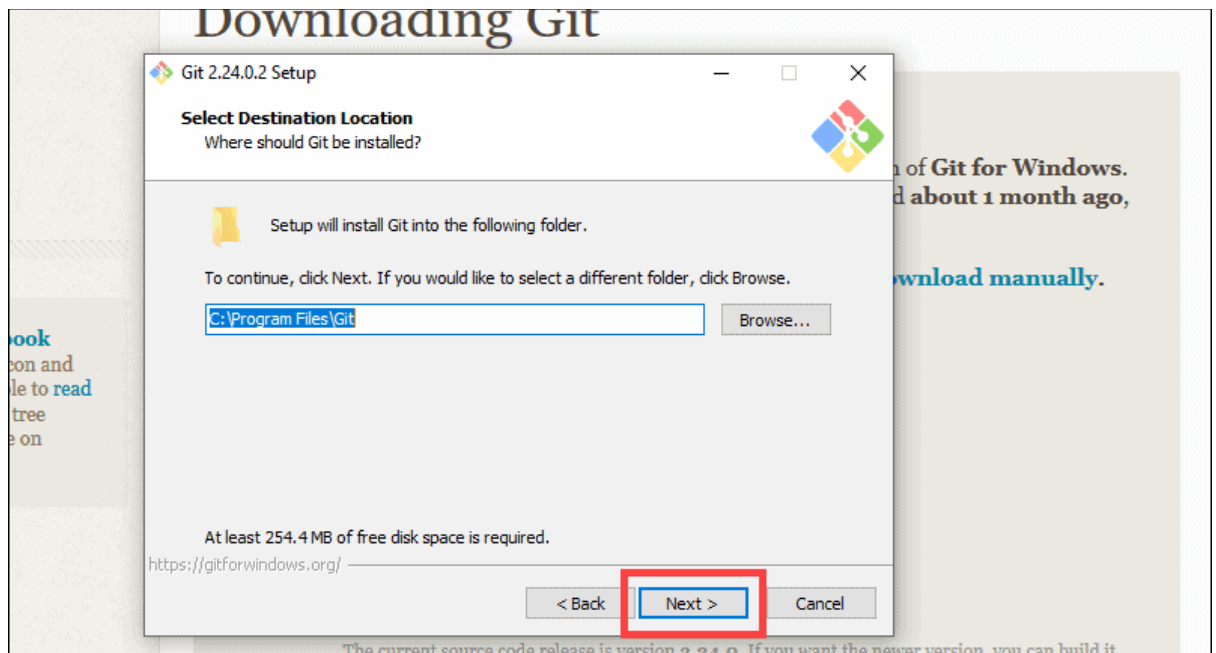
4. Allow the app to make changes to your device by clicking Yes on User Account Control dialog that opens.



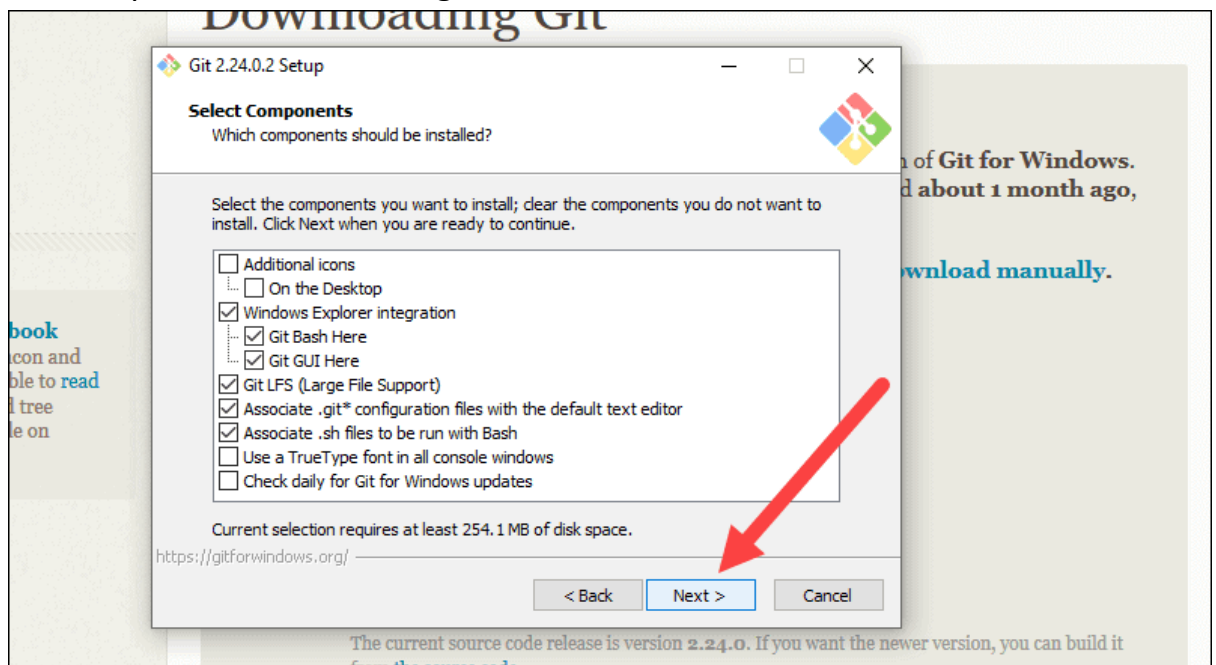
5. Review the GNU (General Public License), and when you are ready to install click Next.



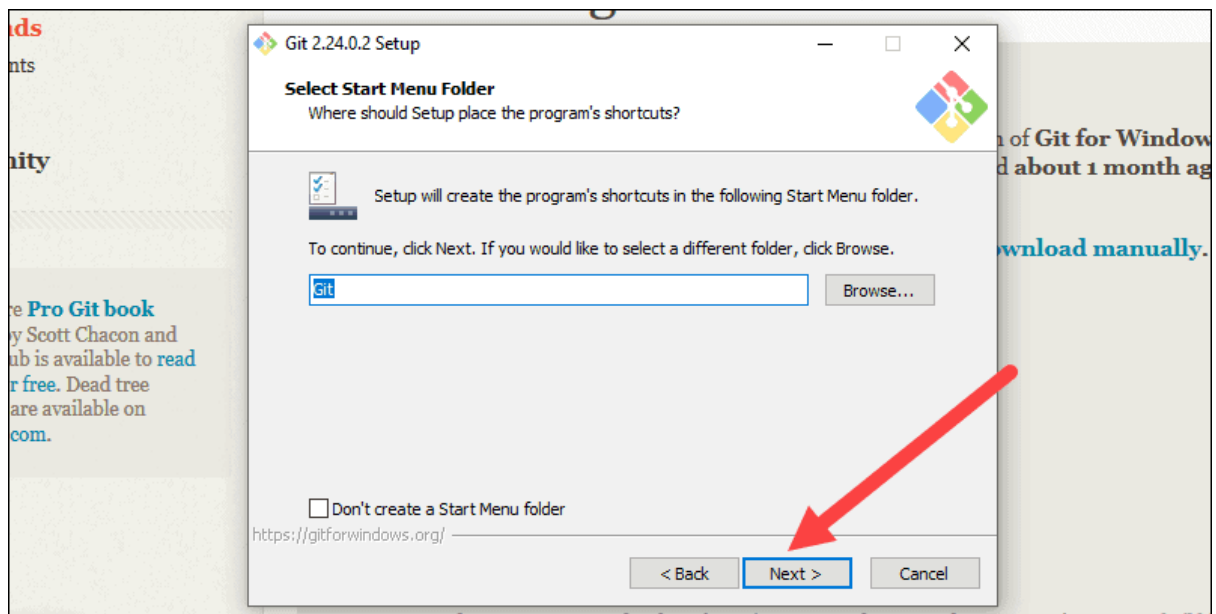
6. The installer will ask you for an installation location. Leave the default, unless you have reason to change it, and click Next.



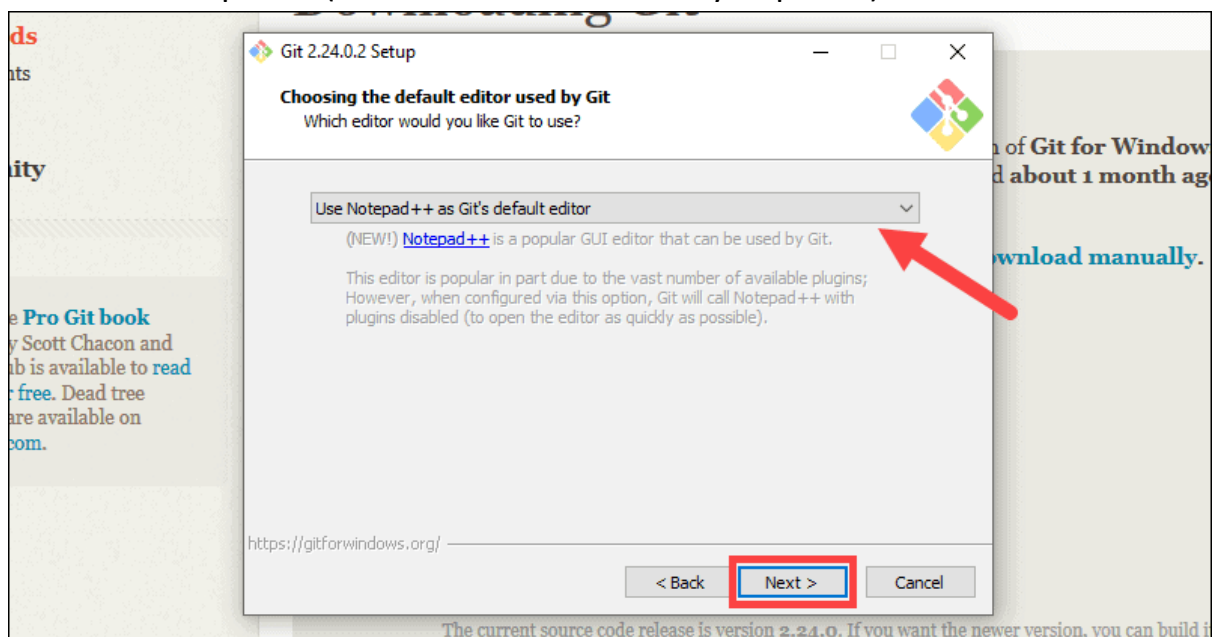
7. A component selection screen will appear. Leave the defaults unless you have a specific need to change them and click Next.



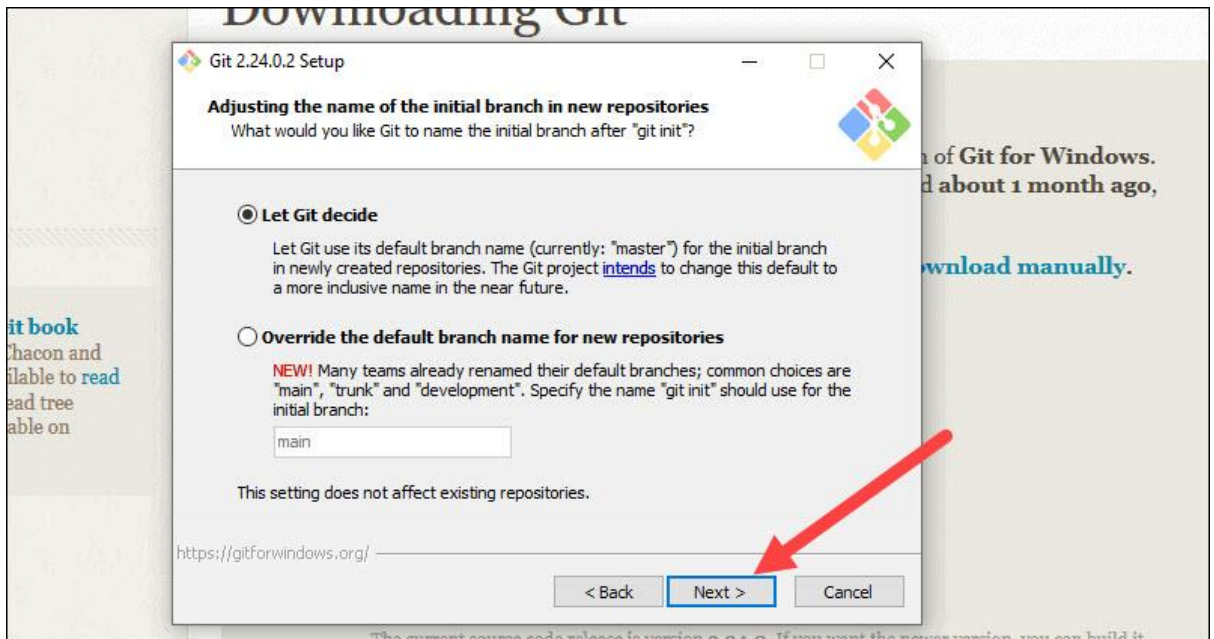
8. The installer will offer to create a start menu folder. Simply click Next.



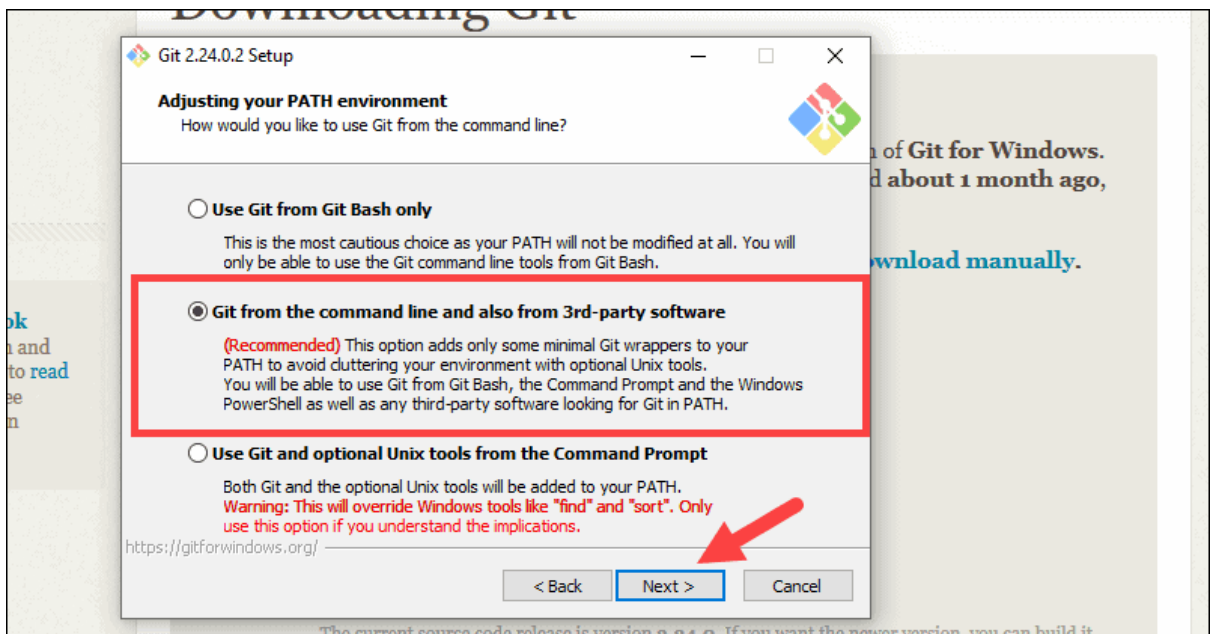
9. Select a text editor you'd like to use with Git. Use the drop-down menu to select Notepad++ (or whichever text editor you prefer) and click Next.



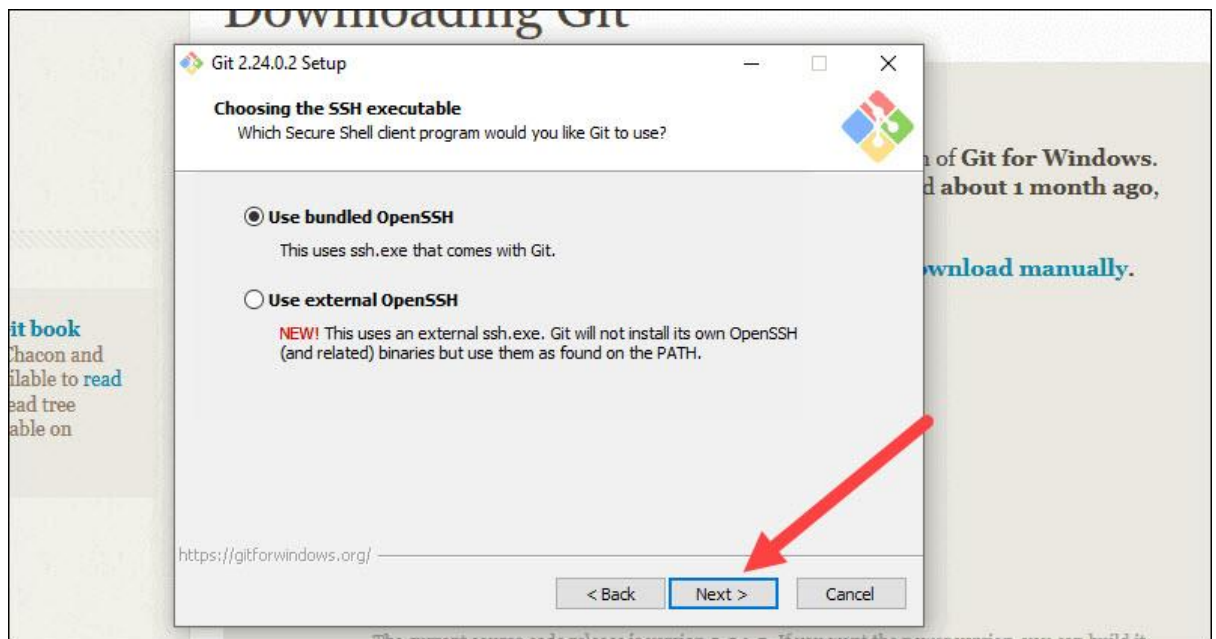
10. The next step allows you to choose a different name for your initial branch. The default is 'master.' Unless you're working in a team that requires a different name, leave the default option and click Next.



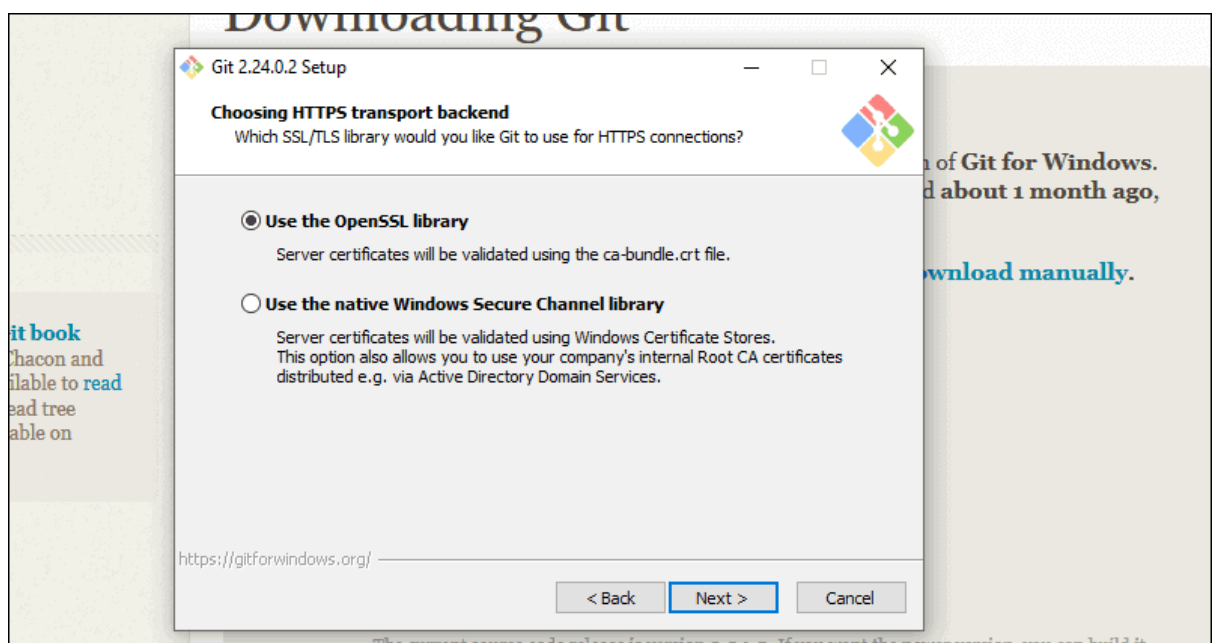
11. This installation step allows you to change the PATH environment. The PATH is the default set of directories included when you run a command from the command line. Leave this on the middle (recommended) selection and click Next.



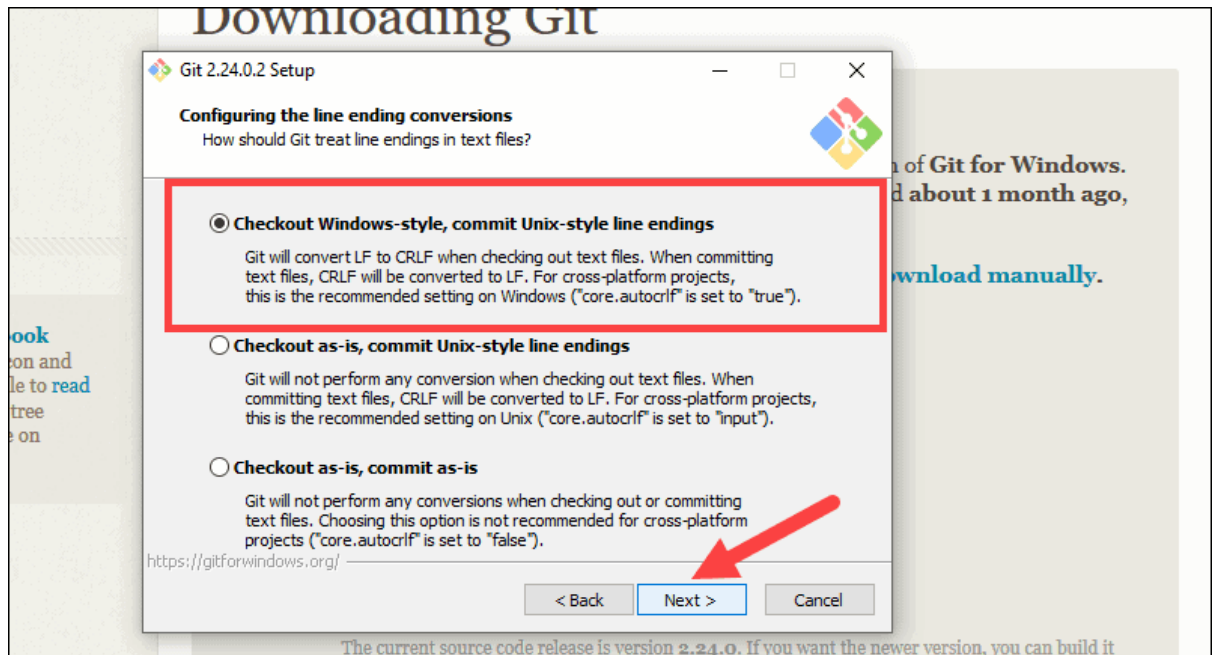
12. The installer now asks which SSH client you want Git to use. Git already comes with its own SSH client, so if you don't need a specific one, leave the default option and click Next.



13. The next option relates to server certificates. Most users should use the default. If you're working in an Active Directory environment, you may need to switch to Windows Store certificates. Click Next.



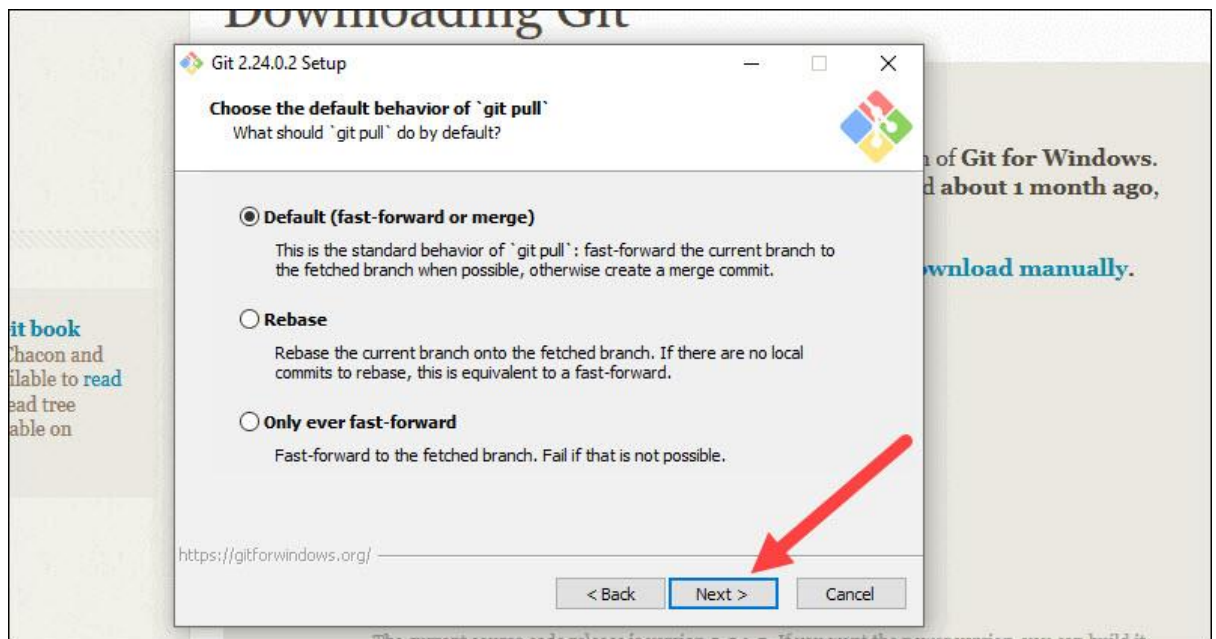
14. The next selection converts line endings. It is recommended that you leave the default selection. This relates to the way data is formatted and changing this option may cause problems. Click Next.



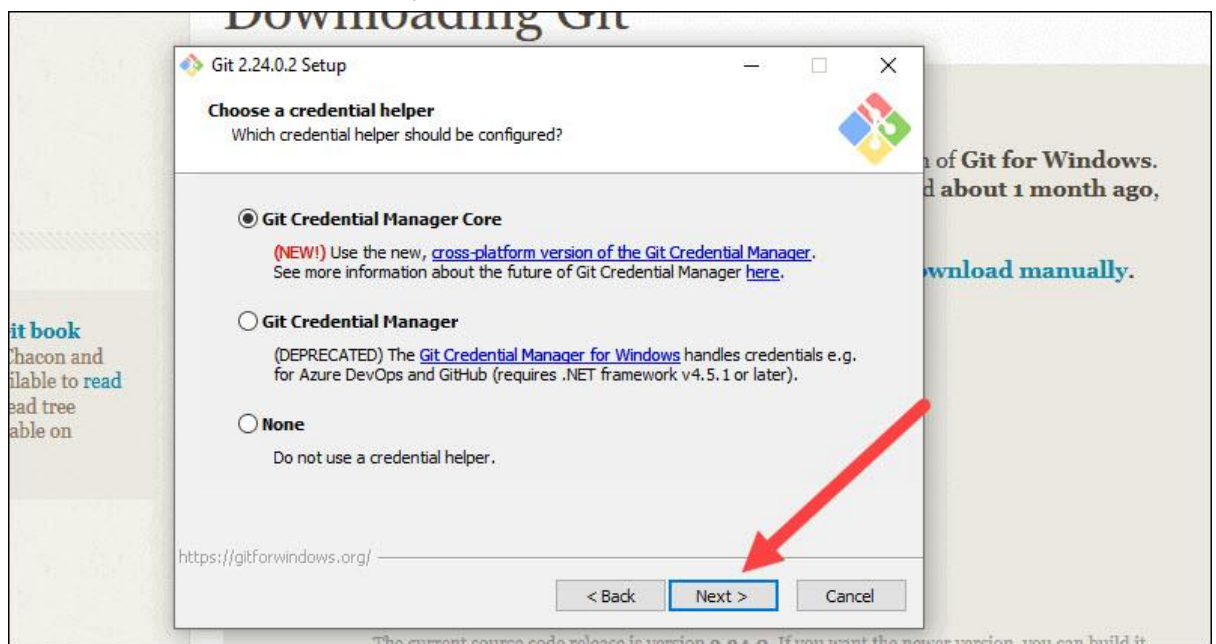
15. Choose the terminal emulator you want to use. The default MinTTY is recommended, for its features. Click Next.



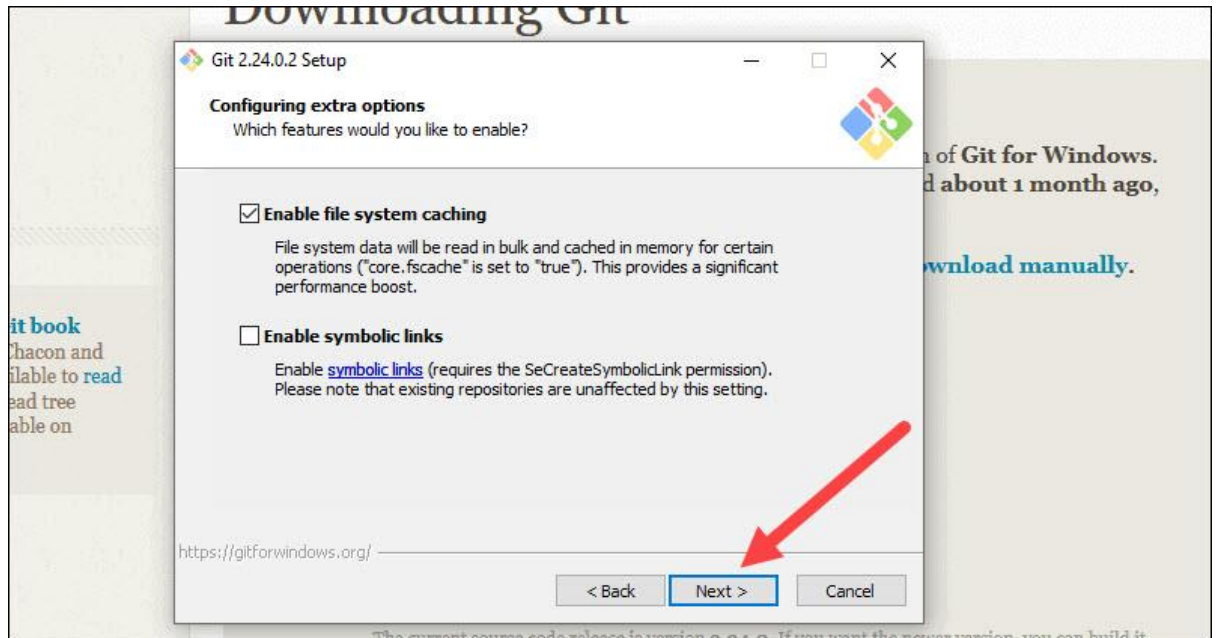
16. The installer now asks what the git pull command should do. The default option is recommended unless you specifically need to change its behaviour. Click Next to continue with the installation.



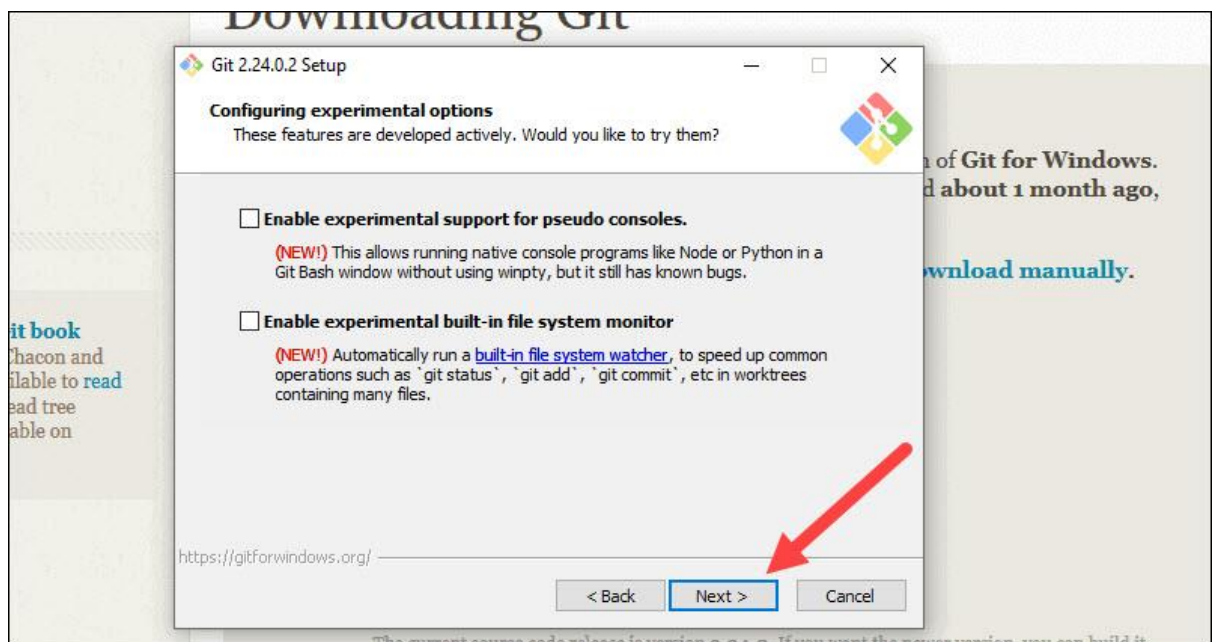
17. Next you should choose which credential helper to use. Git uses credential helpers to fetch or save credentials. Leave the default option as it is the most stable one, and click Next.



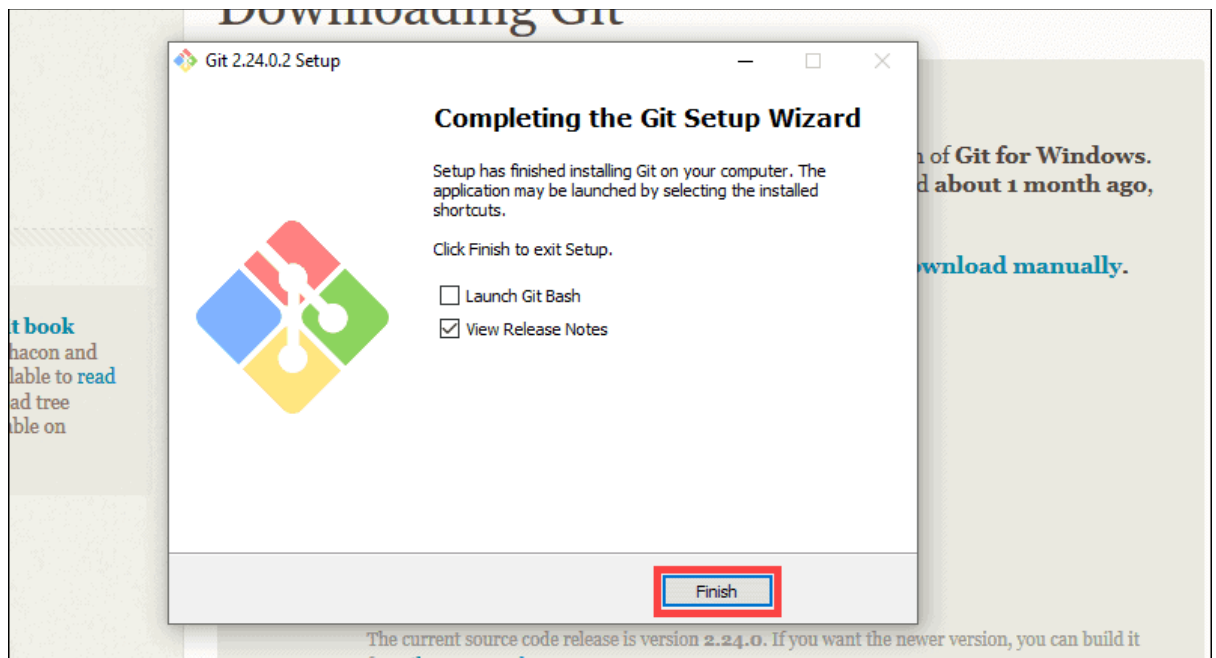
18. The default options are recommended; however, this step allows you to decide which extra option you would like to enable. If you use symbolic links, which are like shortcuts for the command line, tick the box. Click Next.



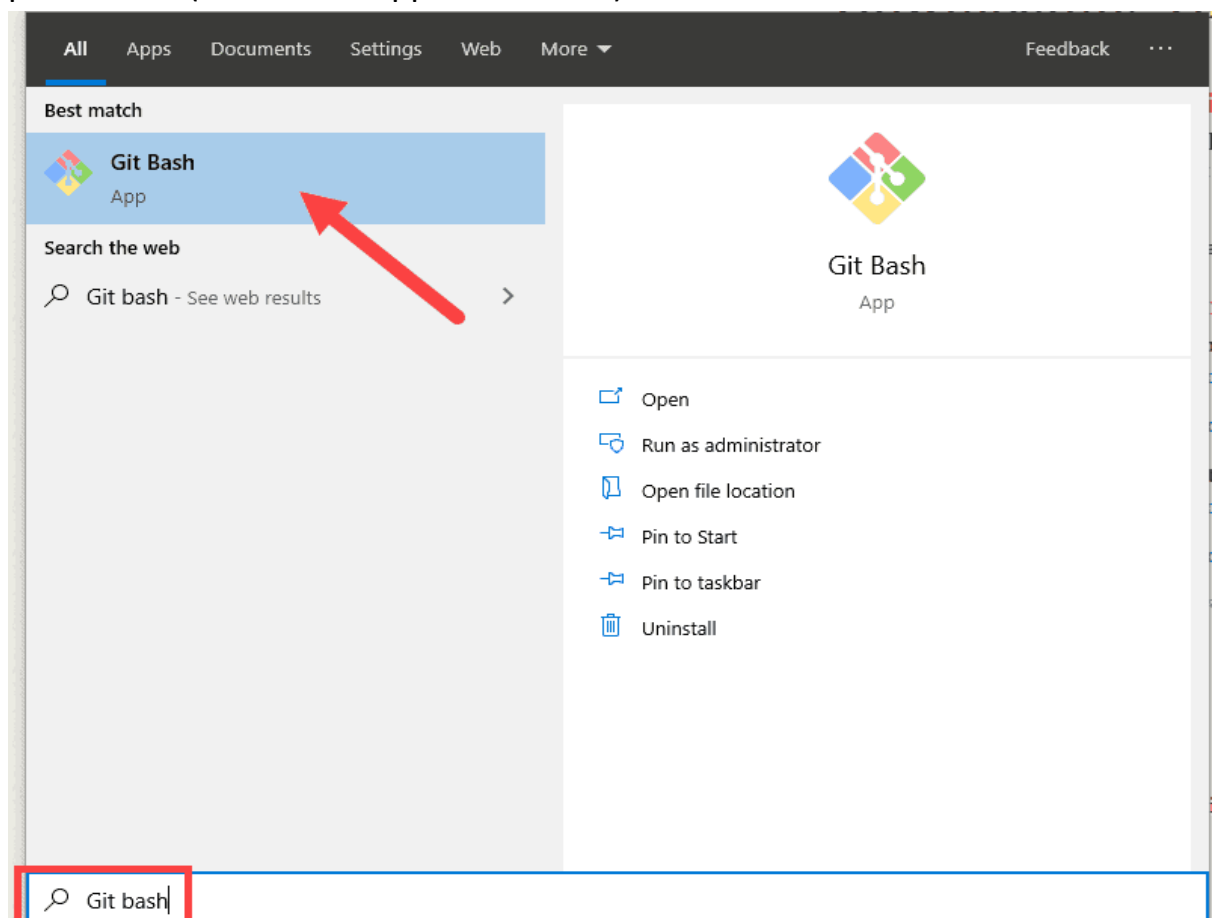
19. Depending on the version of Git you're installing, it may offer to install experimental features. At the time this article was written, the options to include support for pseudo controls and a built-in file system monitor were offered. Unless you are feeling adventurous, leave them unchecked and click Install.



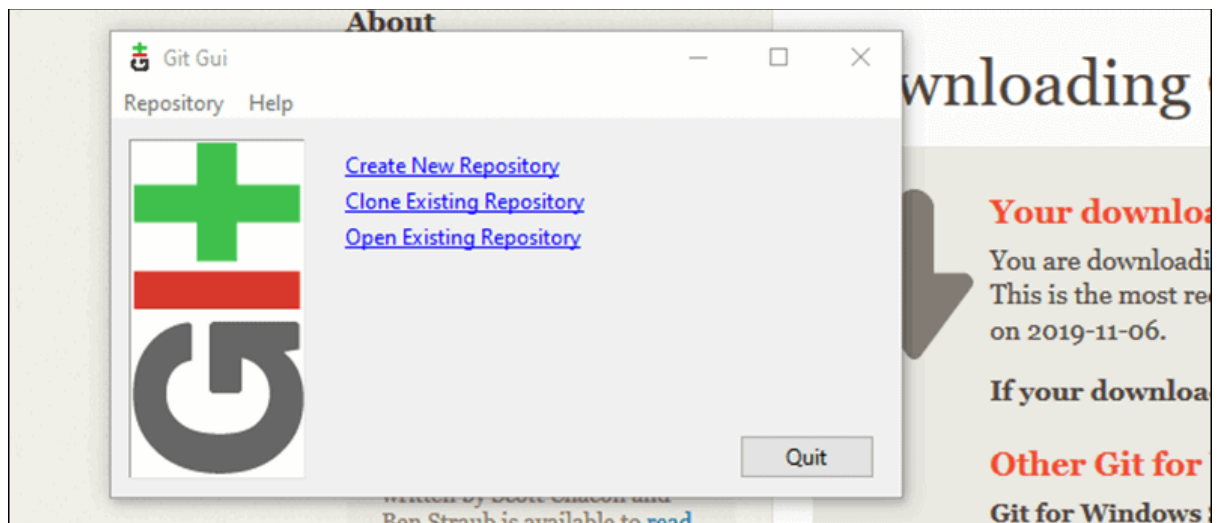
20. Once the installation is complete, tick the boxes to view the Release Notes or Launch Git Bash, then click Finish.



21. To launch Git Bash, open the Windows Start menu, type git bash and press Enter (or click the application icon).

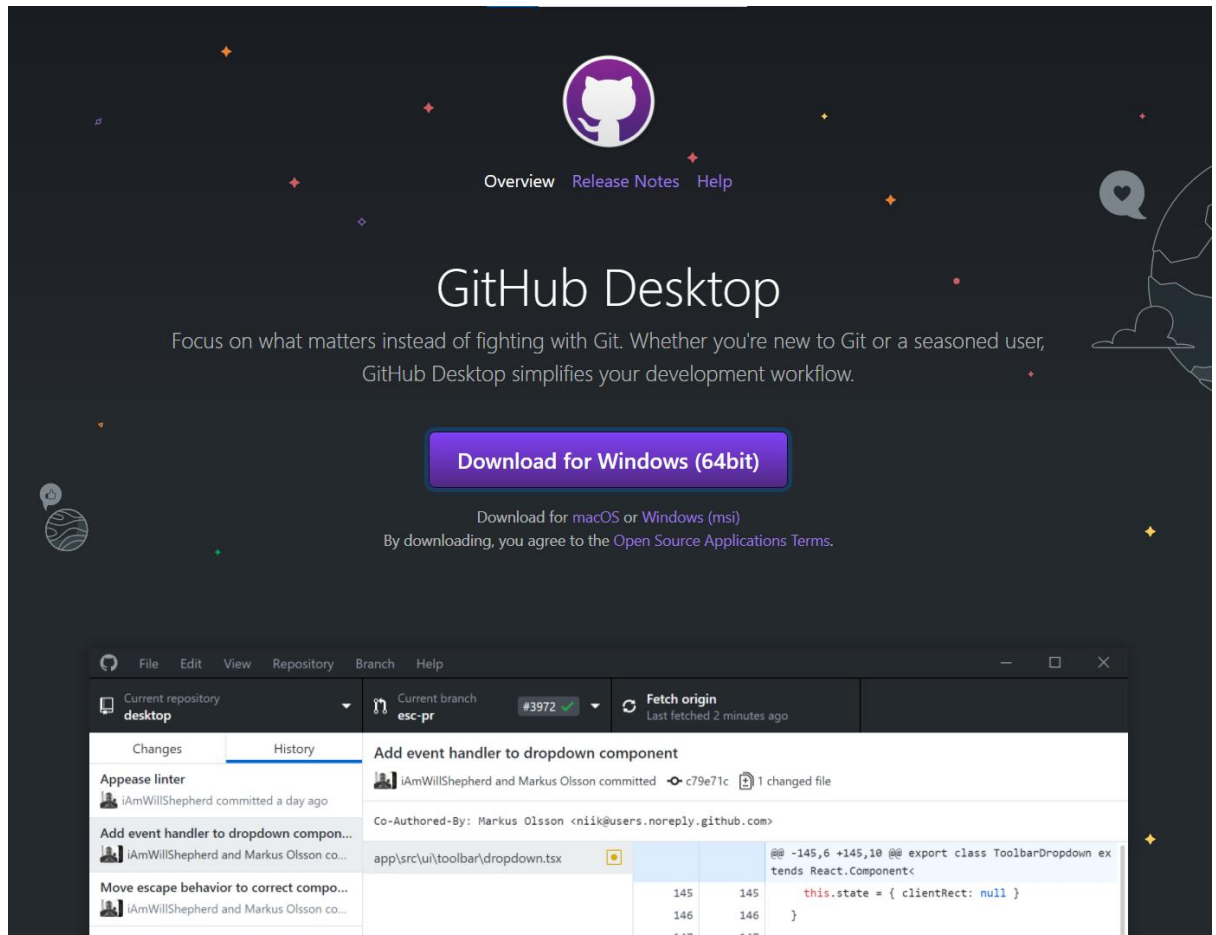


22.To launch Git GUI, open the Windows Start menu, type git gui and press Enter (or click the application icon).

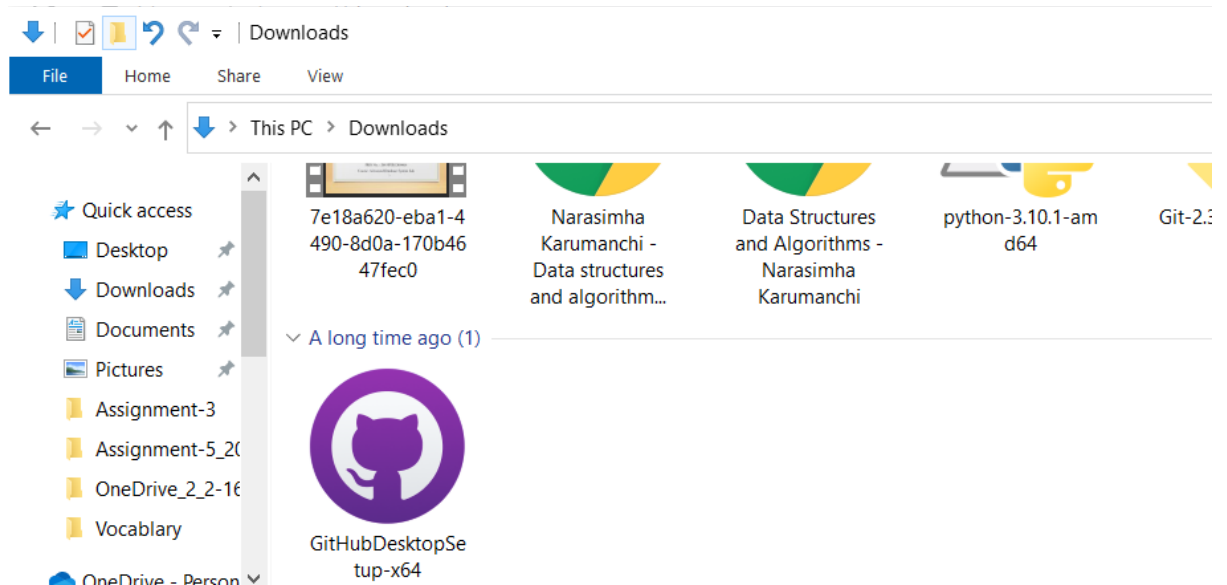


Installation of GitHub Desktop

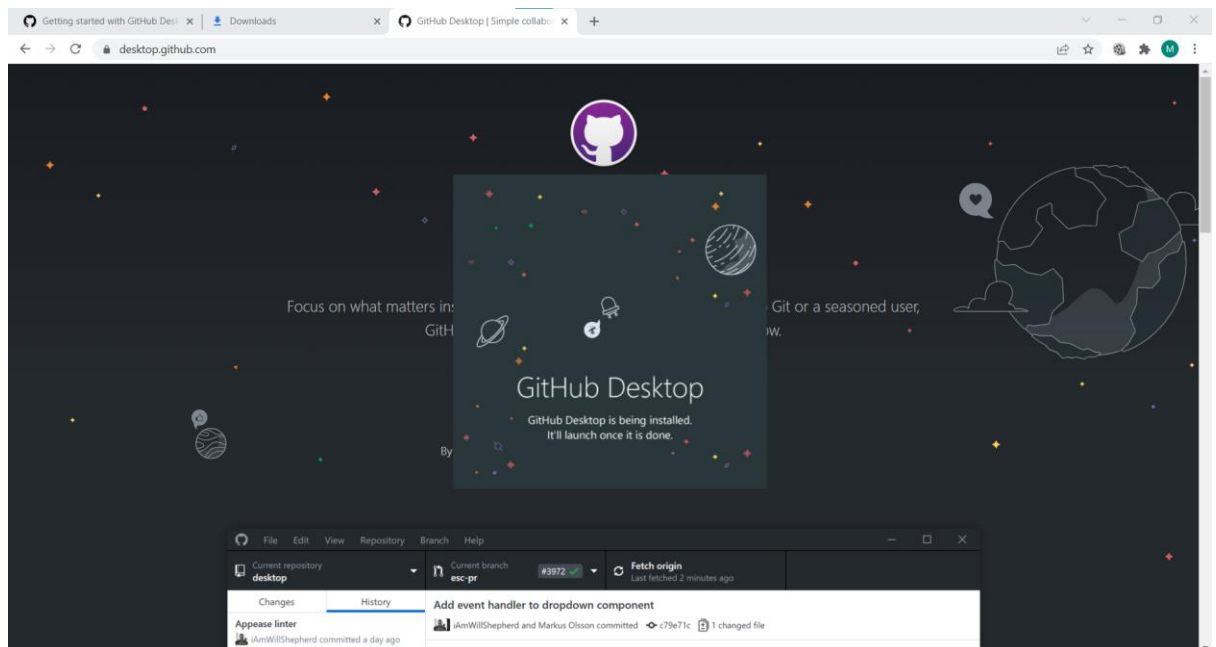
1. Browse to the official Git website: <https://desktop.github.com/>
2. Click the download link for Windows and allow the download to complete.



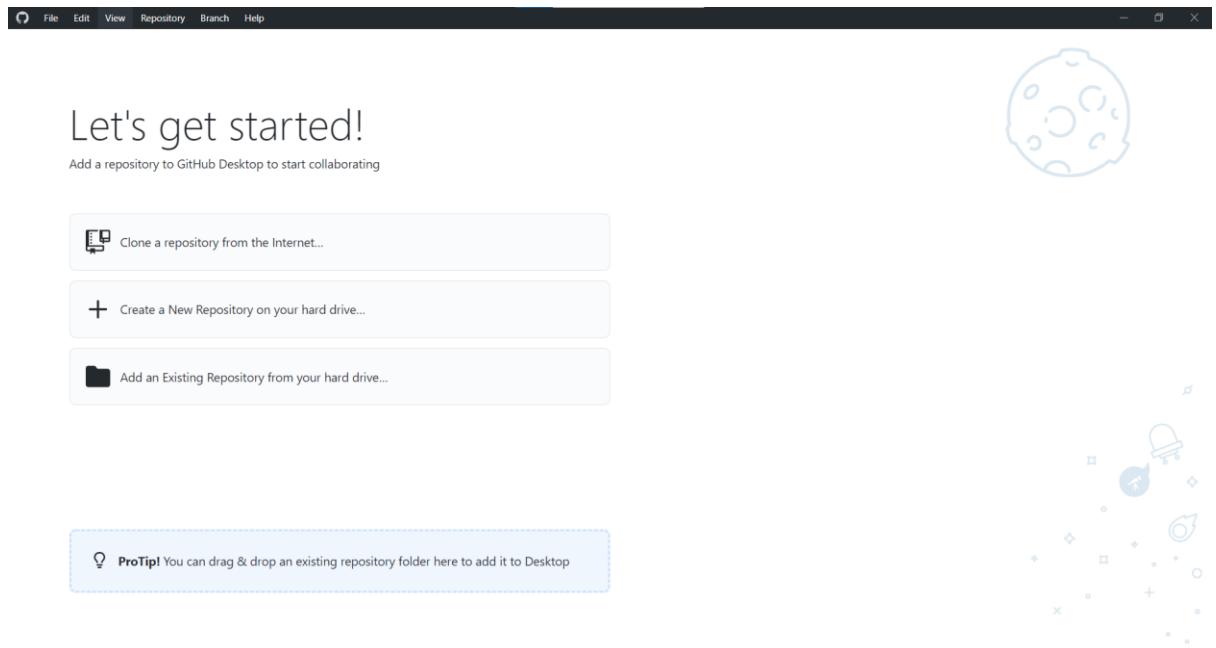
3. Browse to the download location (or use the download shortcut in your browser). Double-click the file to extract and launch the installer.



4. Allow the app to make changes to your device by clicking Yes on User Account Control dialog that opens.



5. Once the installation completes, GitHub Desktop will launch



Access Repository created in Question No. 1

This screenshot shows the GitHub repository page for 'KunalKadam64/SET_LAB'. The repository is public and has 1 commit on the main branch. The README file contains the text 'SET_LAB'.

Repository Details:

- Repository: KunalKadam64/SET_LAB (Public)
- Branch: main (1 branch)
- Tags: 0 tags
- Commits: 1 commit (126887b, now)
- Files: README.md (Initial commit, now)

README Content:

```
SET_LAB
```

Repository Statistics:

- Stars: 0
- Watching: 1
- Forks: 0

Releases: No releases published. [Create a new release](#)

Packages: No packages published. [Publish your first package](#)

This screenshot shows the GitHub repository page for 'KunalKadam64/SET_LAB' after several commits. The repository now has 3 commits on the main branch. The README file contains the text 'SET_LAB'.

Repository Details:

- Repository: KunalKadam64/SET_LAB (Public)
- Branch: main (1 branch)
- Tags: 0 tags
- Commits: 3 commits (cce8a44, now)
- Files: Assignment-1, Assignment-2, README.md

Commit History:

File	Commit Message	Time
Assignment-1	Added Assignment-1	1 minute ago
Assignment-2	Added Assignment-2	now
README.md	Initial commit	6 minutes ago

README Content:

```
SET_LAB
```

Repository Statistics:

- Stars: 0
- Watching: 1
- Forks: 0

Releases: No releases published. [Create a new release](#)

Packages: No packages published. [Publish your first package](#)

Languages: A bar chart showing the distribution of languages in the repository, with a small portion of code in a language other than the default.