By Joshua Schell

WHAT IS GIT?

GIT is a **Version Control System (VCS)** for tracking changes in computer files

- Distributed version control
- Coordinates work between multiple developers
- Who made what changes and when
- Revert back at any time
- Local & remote repositories

CONCEPTS OF GIT

- Keeps track of code history
- Takes “snapshots” of your files
- You decide when to take a snapshot by making a “commit”
- You can visit any snapshot at any time
- You can stage files before committing

BASIC COMMANDS

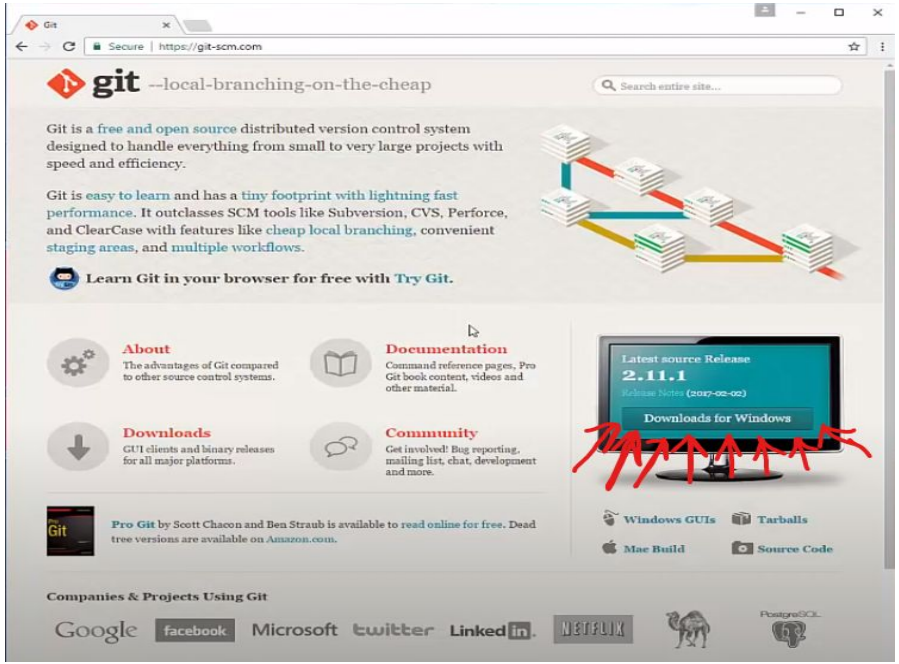
- git init // Initialize Local Git Repo
- git add // Add file(s) to index
- git status // Check status of working tree
- git commit // Commit Changes in index

<u>After the files are COMMITed</u>

- git push // Push to Remote Repository
- git pull // Pull latest from Remote Repository
- git clone // Clone Repository Into A New Directory

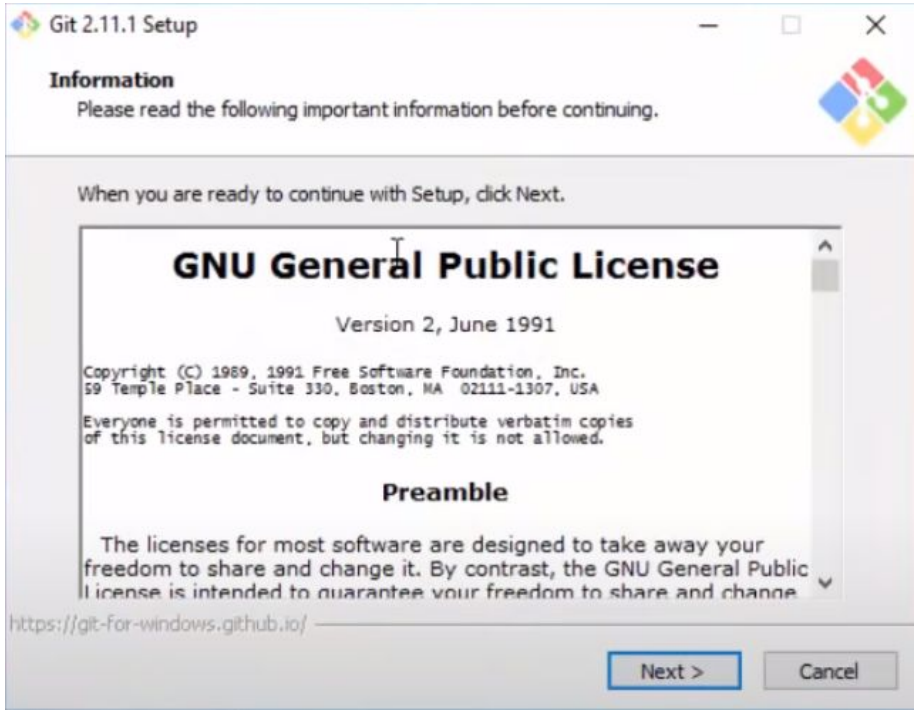
Downloading on Windows

Download git from https://git-scm.com/



Steps When Installing

Press next



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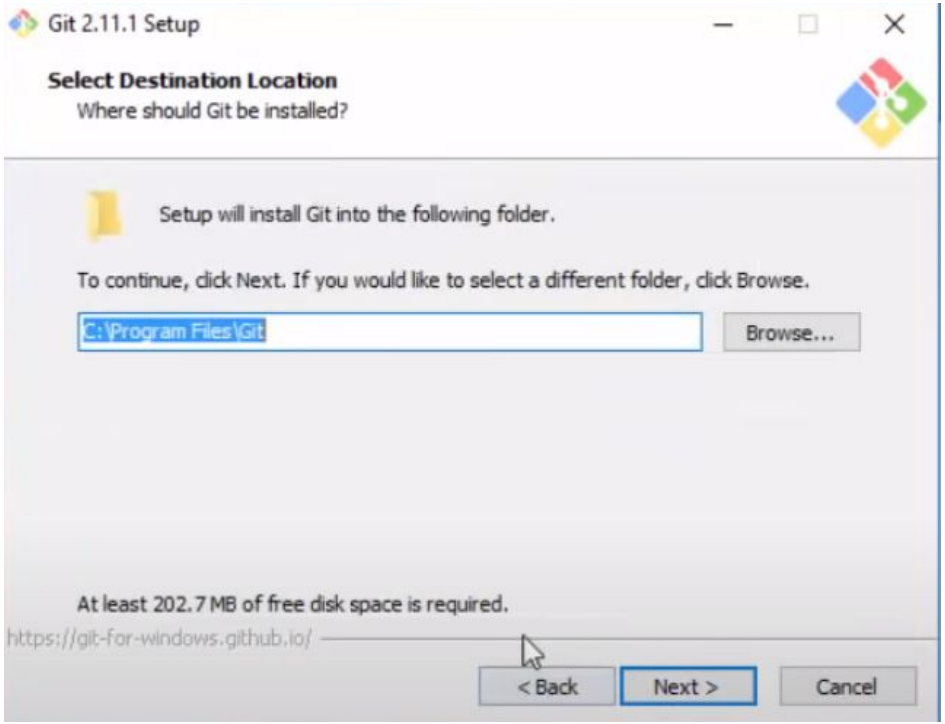
Git 2.11.1 Setup
Select Destination Location
Where should Git be installed?
Setup will install Git into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\Git
Browse...
At least 202.7 MB of free disk space is required.
https://git-for-windows.github.io/
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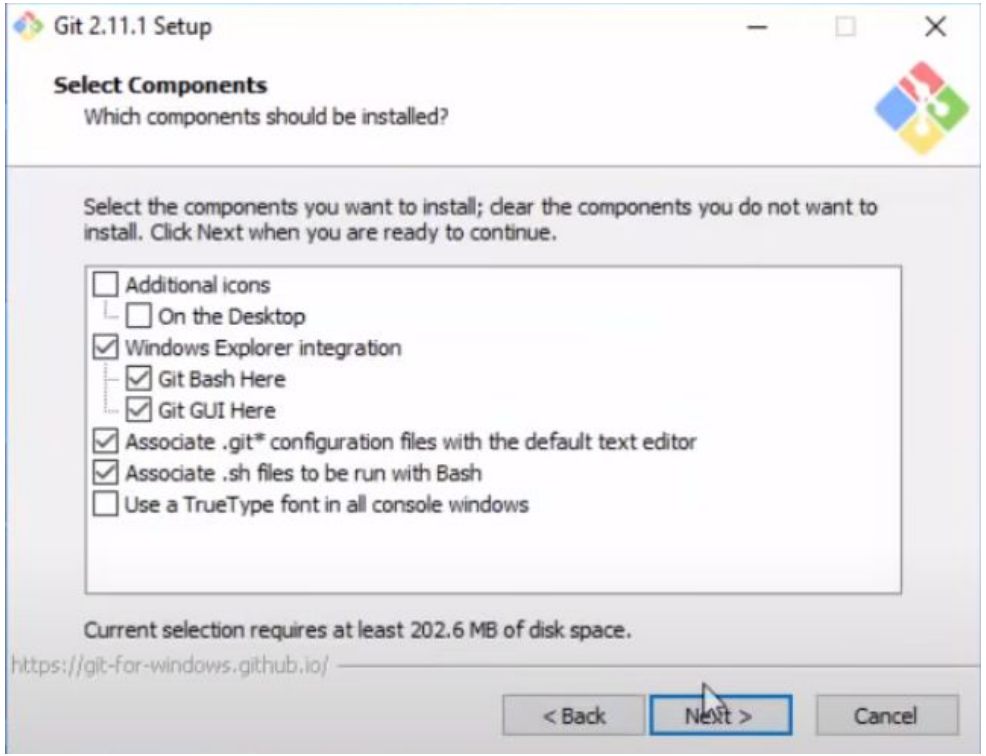
Next >
Cancel

Press next


Git 2.11.1 Setup
Select Components
Which components should be installed?
Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.
Additional icons
On the Desktop
Windows Explorer integration
Git Bash Here
Git GUI Here
Associate .git* configuration files with the default text editor
Associate .sh files to be run with Bash
Use a TrueType font in all console windows
Current selection requires at least 202.6 MB of disk space.
https://git-for-windows.github.io/
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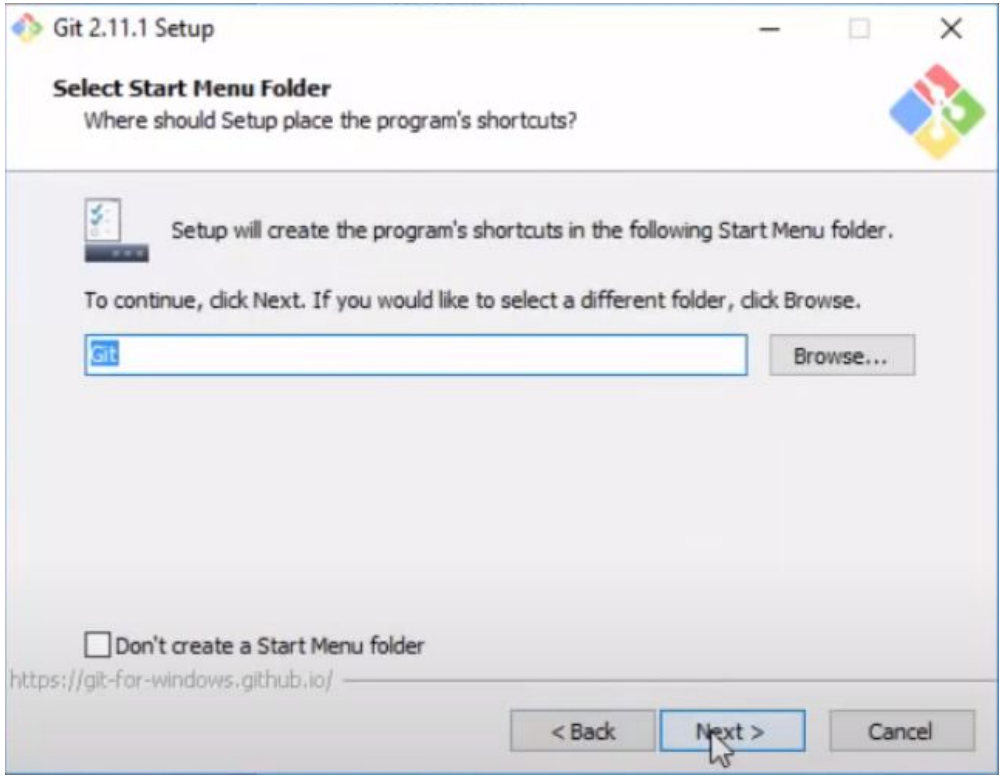
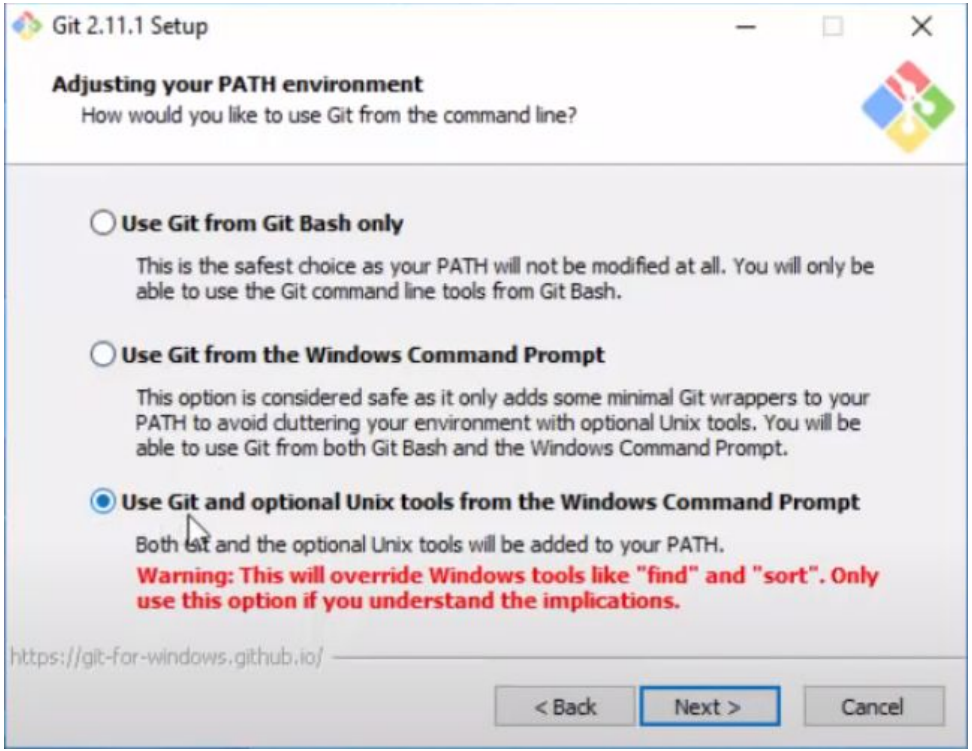
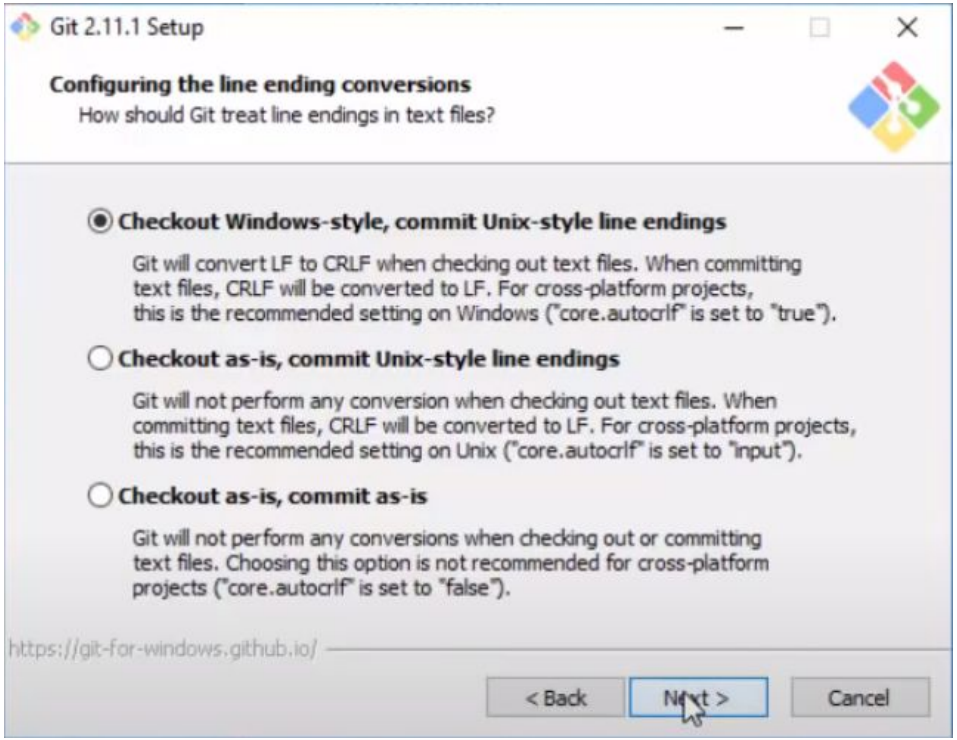

Git 2.11.1 Setup
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
Git
Browse...
Don't create a Start Menu folder
https://git-for-windows.github.io/
< Back
Next >
Cancel

Choose the last option and then press next



Then press next



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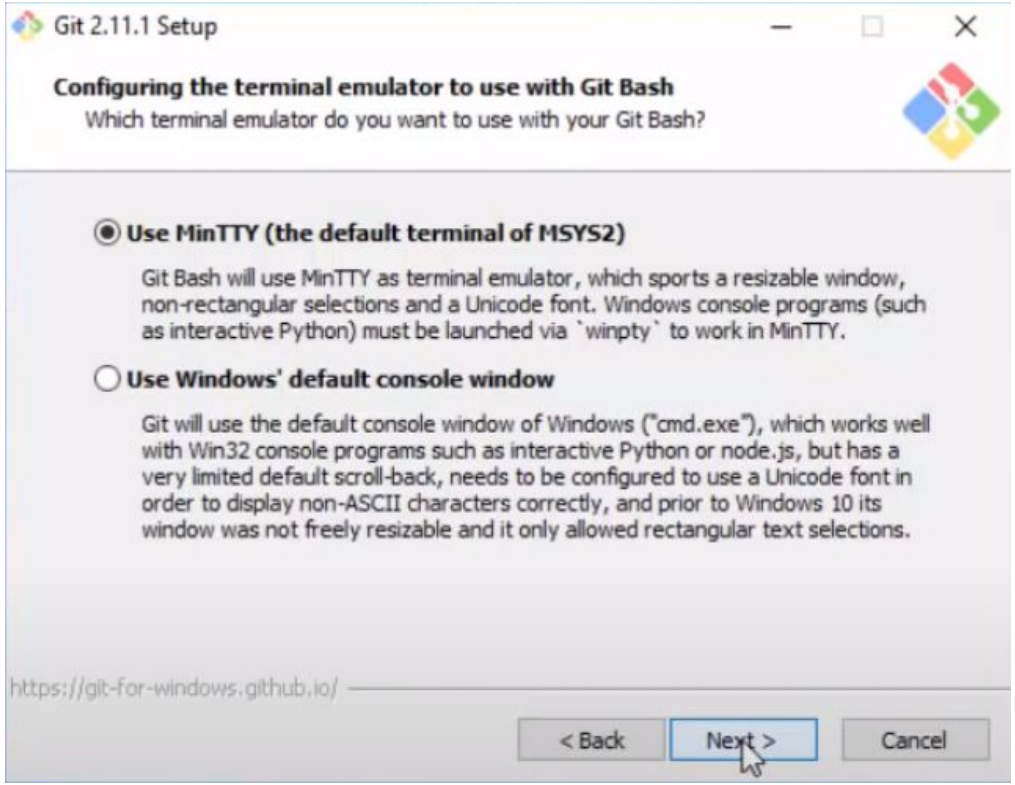
Git 2.11.1 Setup
Configuring the terminal emulator to use with Git Bash
Which terminal emulator do you want to use with your Git Bash?
Use MinTTY (the default terminal of MSYS2)
Git Bash will use MinTTY as terminal emulator, which sports a resizable window, non-rectangular selections and a Unicode font. Windows console programs (such as interactive Python) must be launched via `winpty` to work in MinTTY.
Use Windows' default console window
Git will use the default console window of Windows ("cmd.exe"), which works well with Win32 console programs such as interactive Python or node.js, but has a very limited default scroll-back, needs to be configured to use a Unicode font in order to display non-ASCII characters correctly, and prior to Windows 10 its window was not freely resizable and it only allowed rectangular text selections.
https://git-for-windows.github.io/
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Next >
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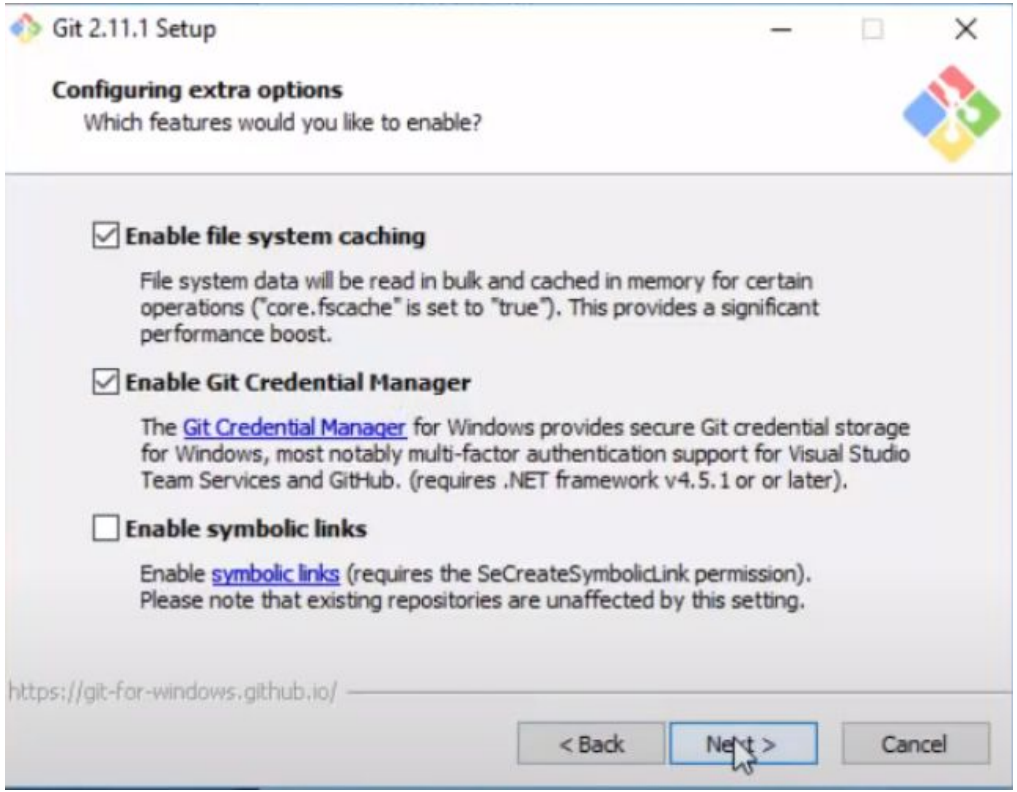
Press next


Git 2.11.1 Setup
Configuring extra options
Which features would you like to enable?
Enable file system caching
File system data will be read in bulk and cached in memory for certain operations ("core.fscache" is set to "true"). This provides a significant performance boost.
Enable Git Credential Manager
The Git Credential Manager for Windows provides secure Git credential storage for Windows, most notably multi-factor authentication support for Visual Studio Team Services and GitHub. (requires .NET framework v4.5.1 or or later).
Enable symbolic links
Enable symbolic links (requires the SeCreateSymbolicLink permission). Please note that existing repositories are unaffected by this setting.
https://git-for-windows.github.io/
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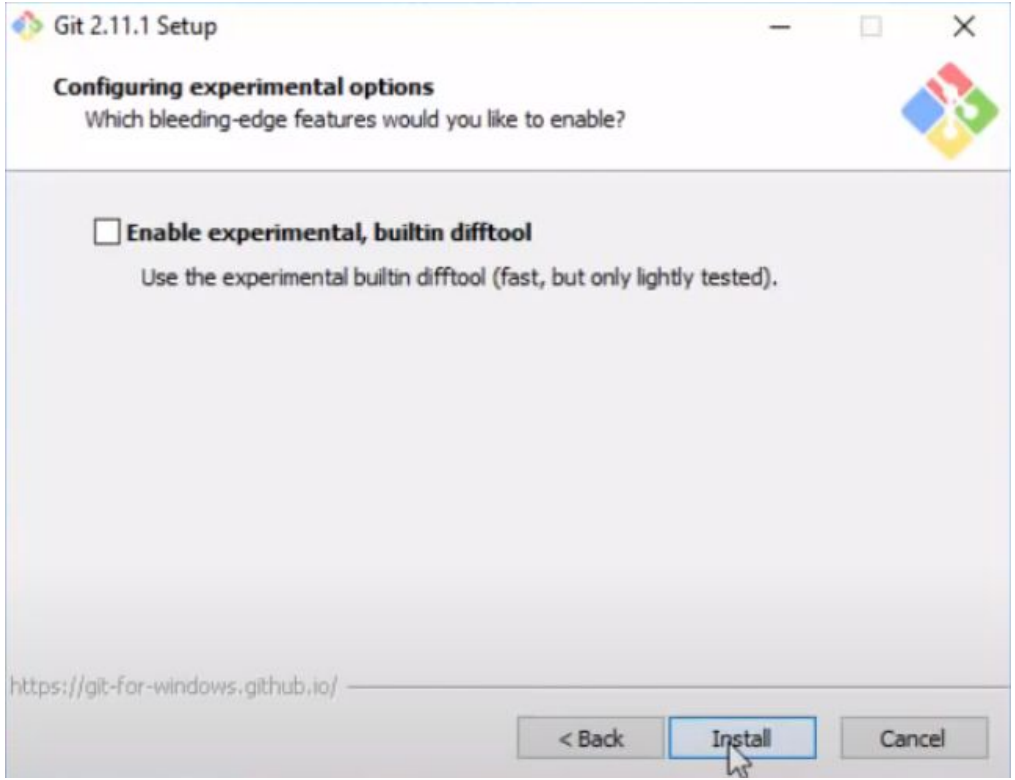
Then press install



Congratulations you Installed Git Bash!!