

# Mobile App Developer Set Up (Windows)

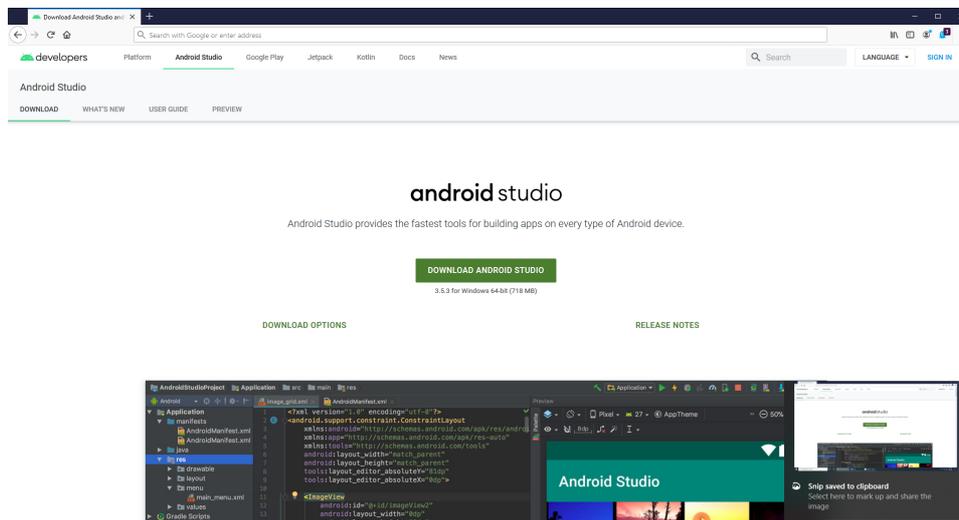
This guide is over-detailed for a reason. Every team member that goes through this set-up should fix any mistakes. The purpose being to speed up onboarding for future team members.

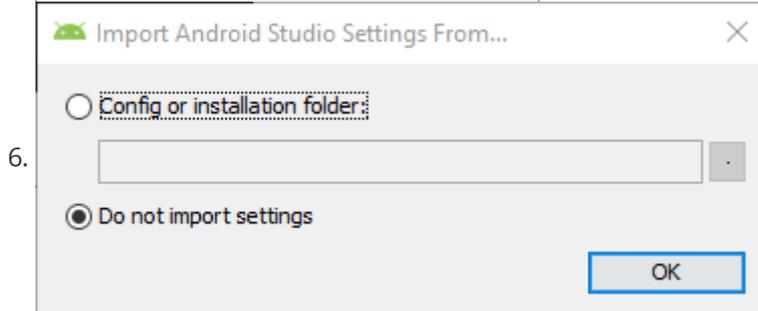
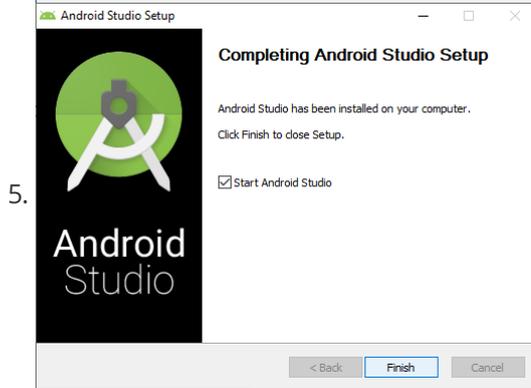
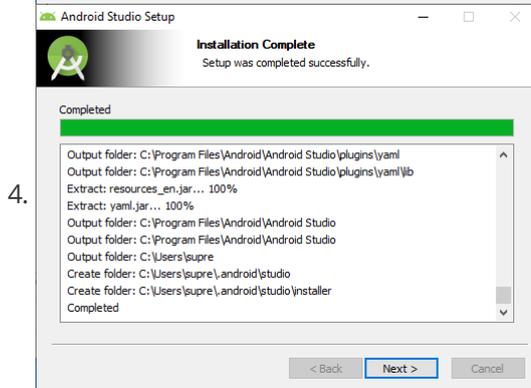
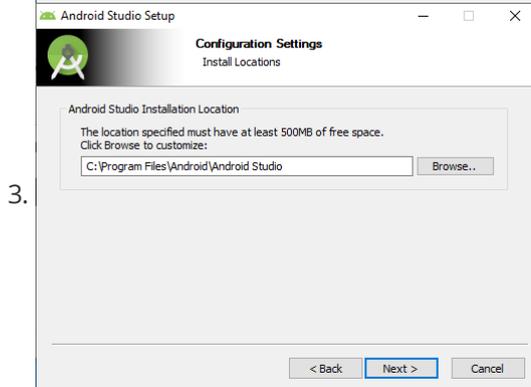
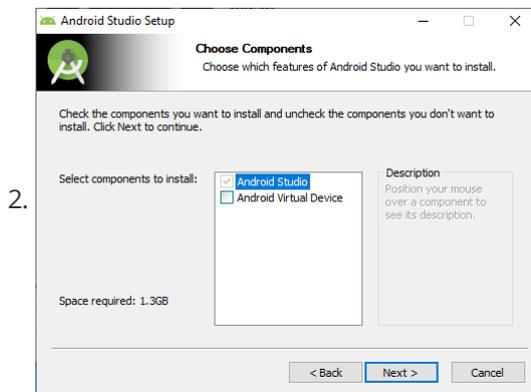
## Mobile App Developer Set Up (Windows)

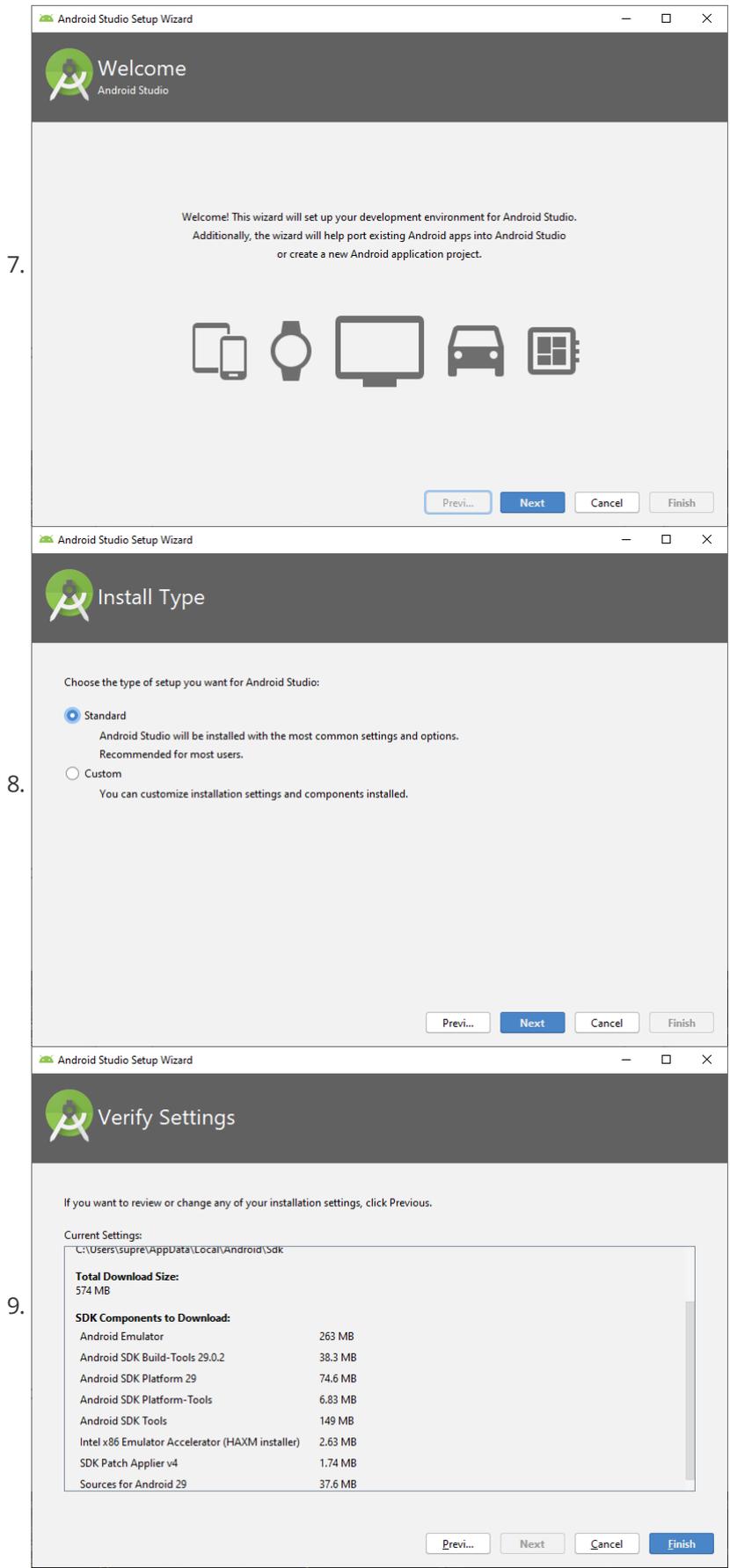
1. Install Android Studio
    - Part 2
    - Part 3 User Environment Variable
    - Part 4 System Variable PATH
  2. Install Visual Studio Code
  3. Install git-scm *WINDOWS ONLY*
  4. bash\_profile
  5. Register GitLab Account
    - Add SSH Key
    - Clone the Repo
  6. Install Node Version Manager
  7. Install JDK
  8. Install JavaScript Frameworks
- 9. run the app in browser**  
**10. Run Mobile App on device**

## 1. Install Android Studio

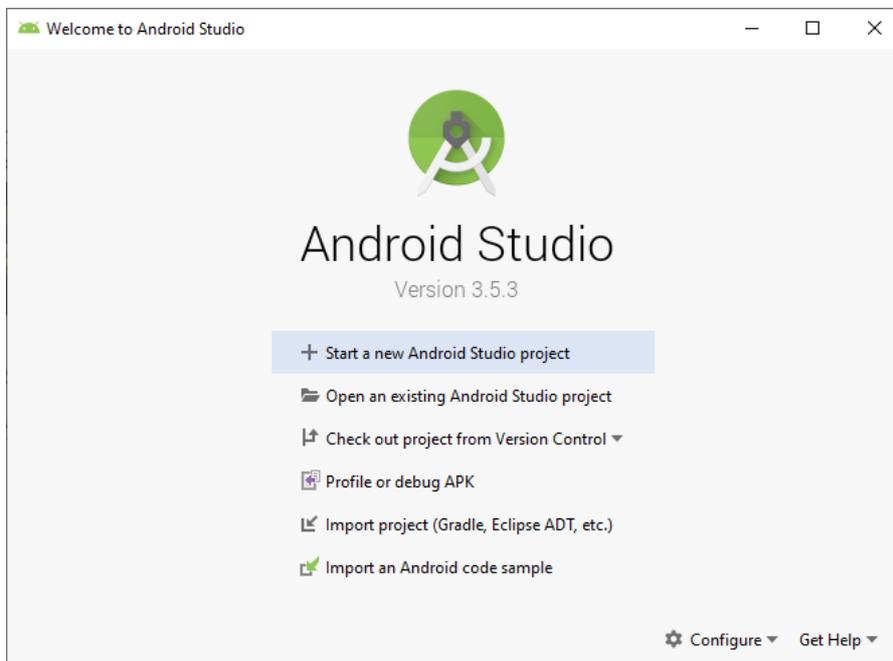
<https://developer.android.com/studio/index.html>







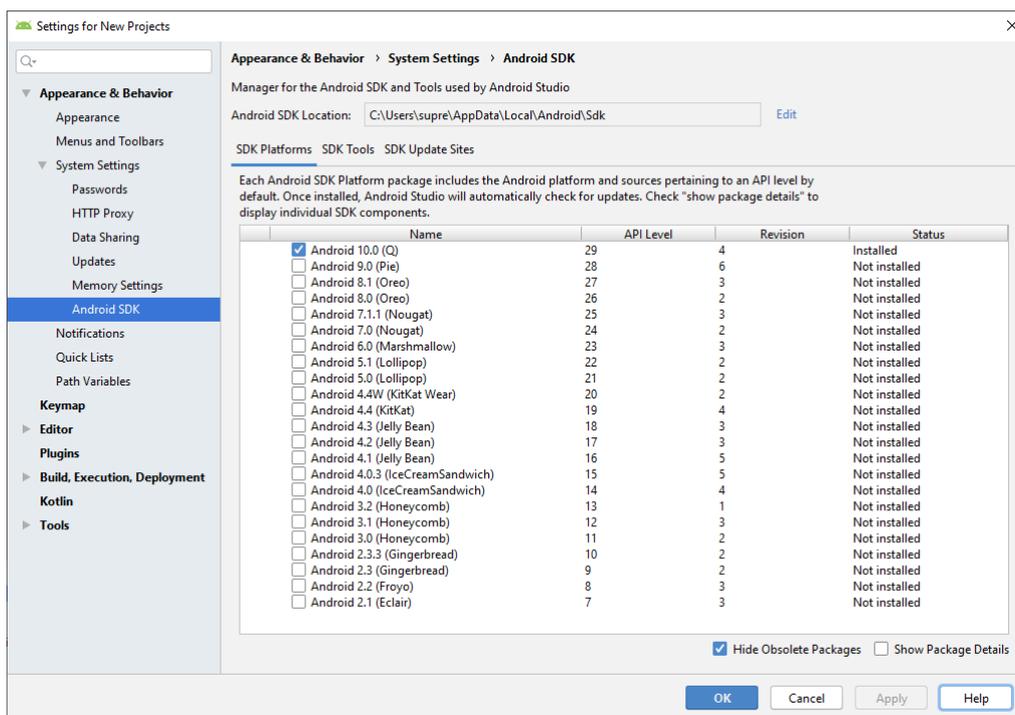
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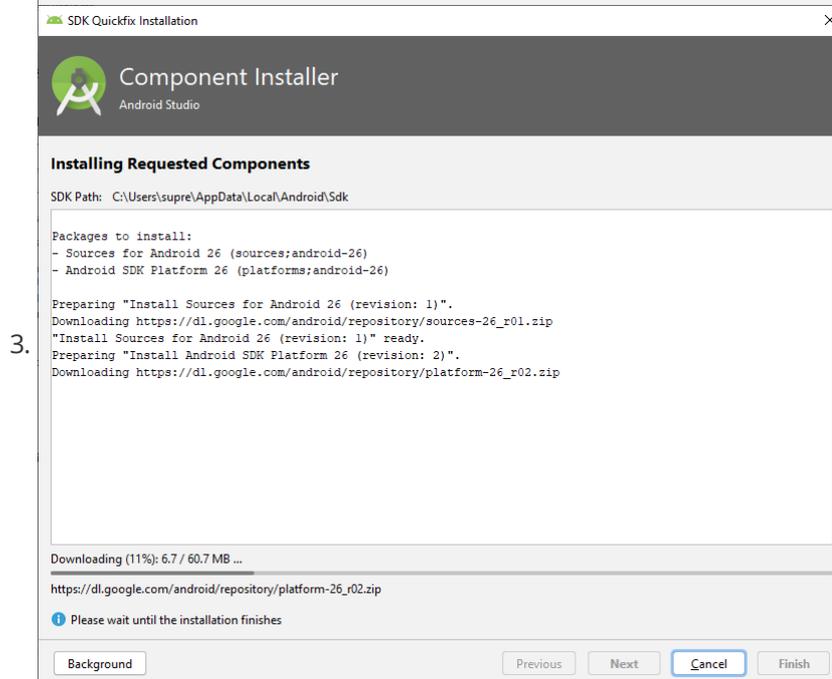
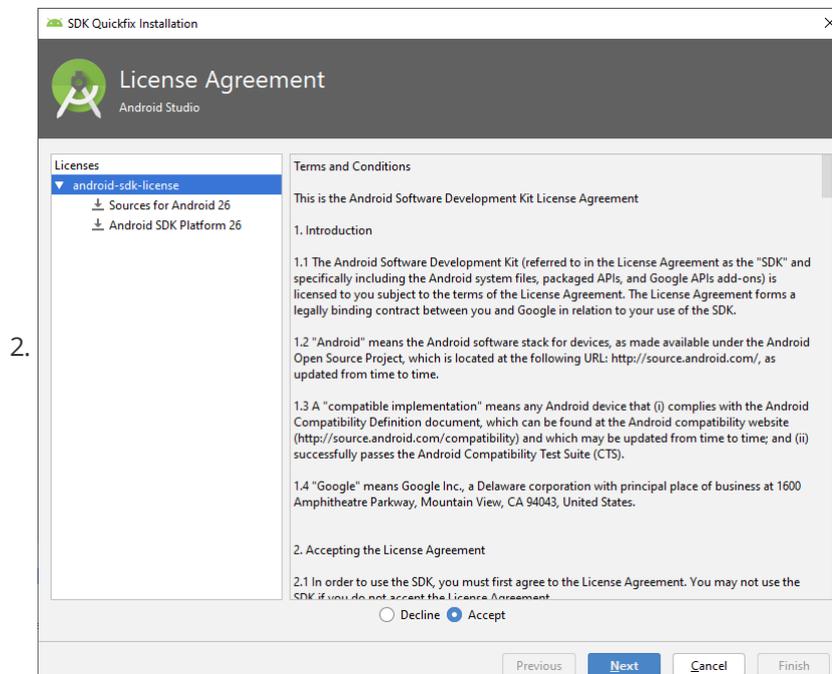


## Part 2

To build this project, accept the SDK license agreements and install the missing components using the **Android Studio SDK Manager**.

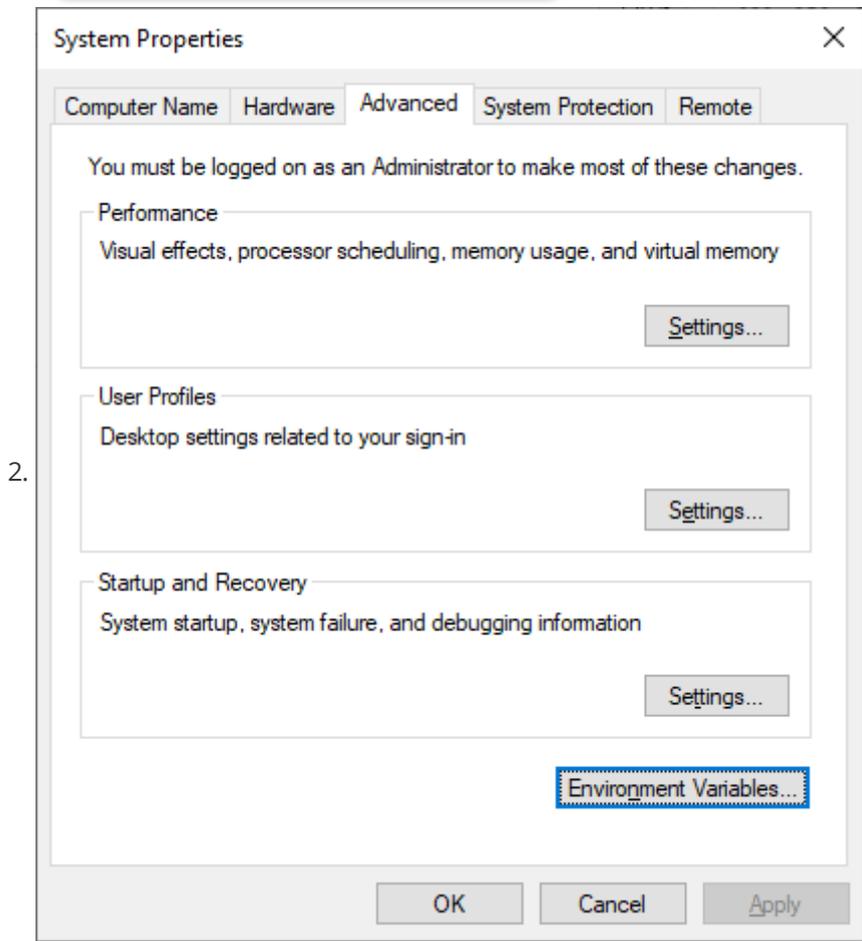
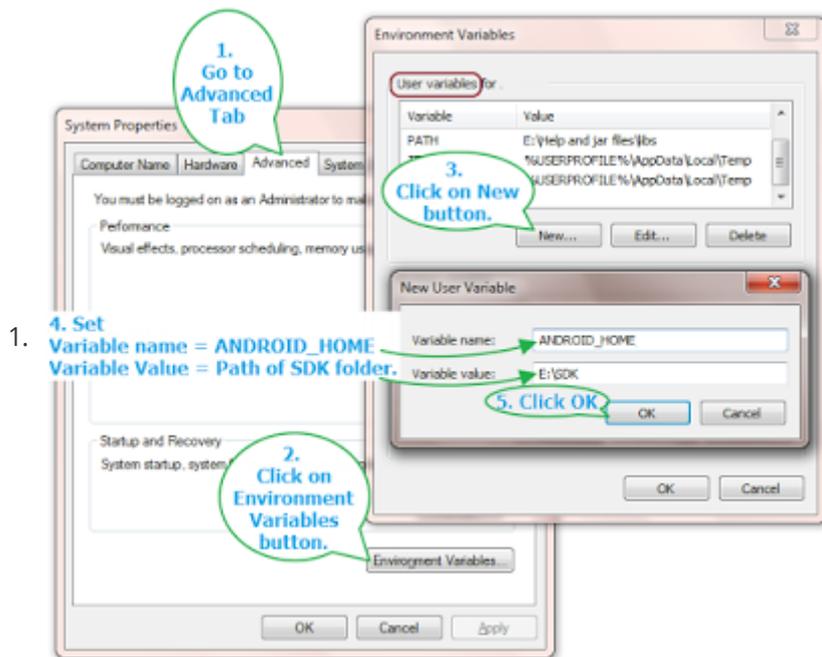
1.

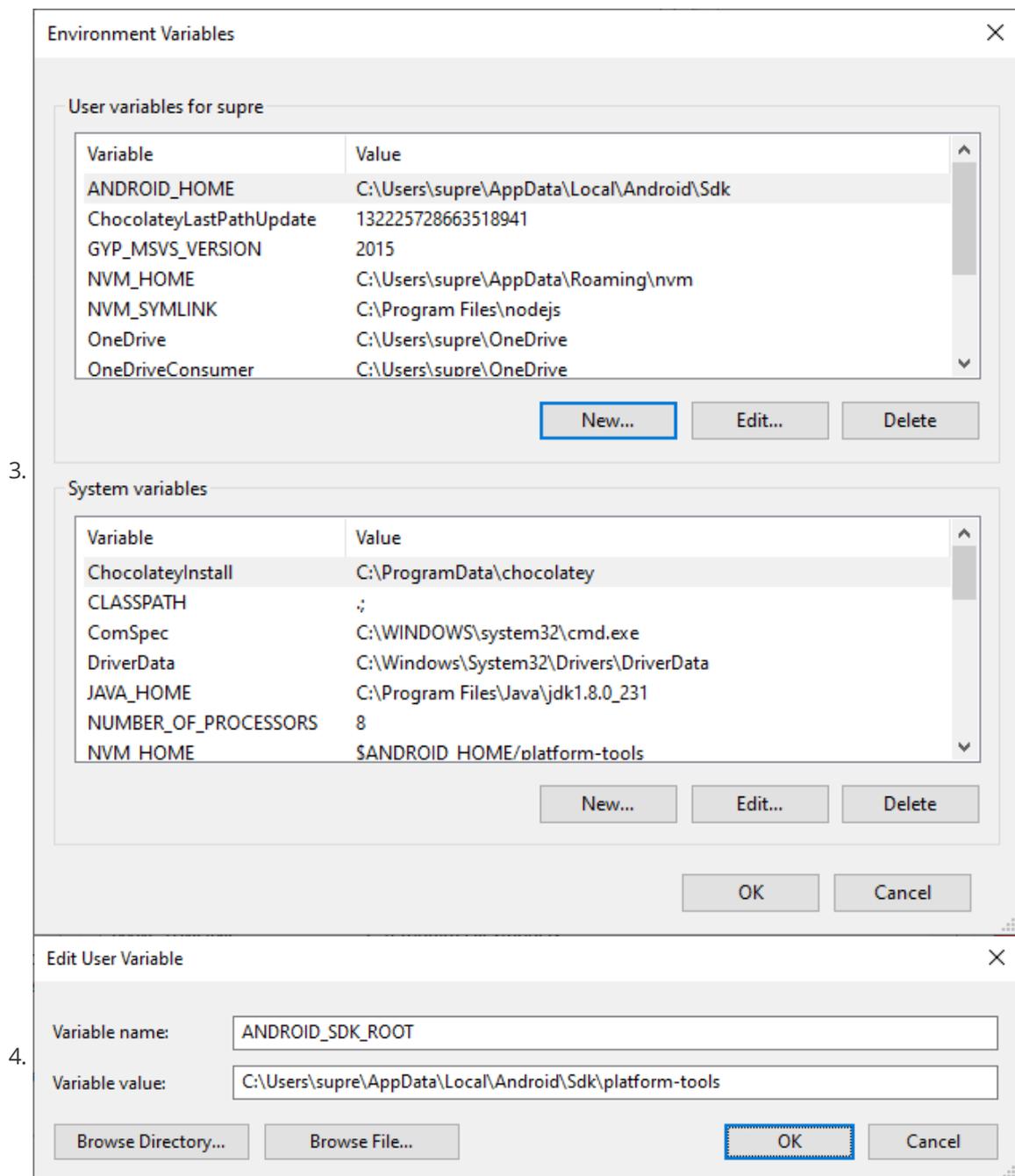




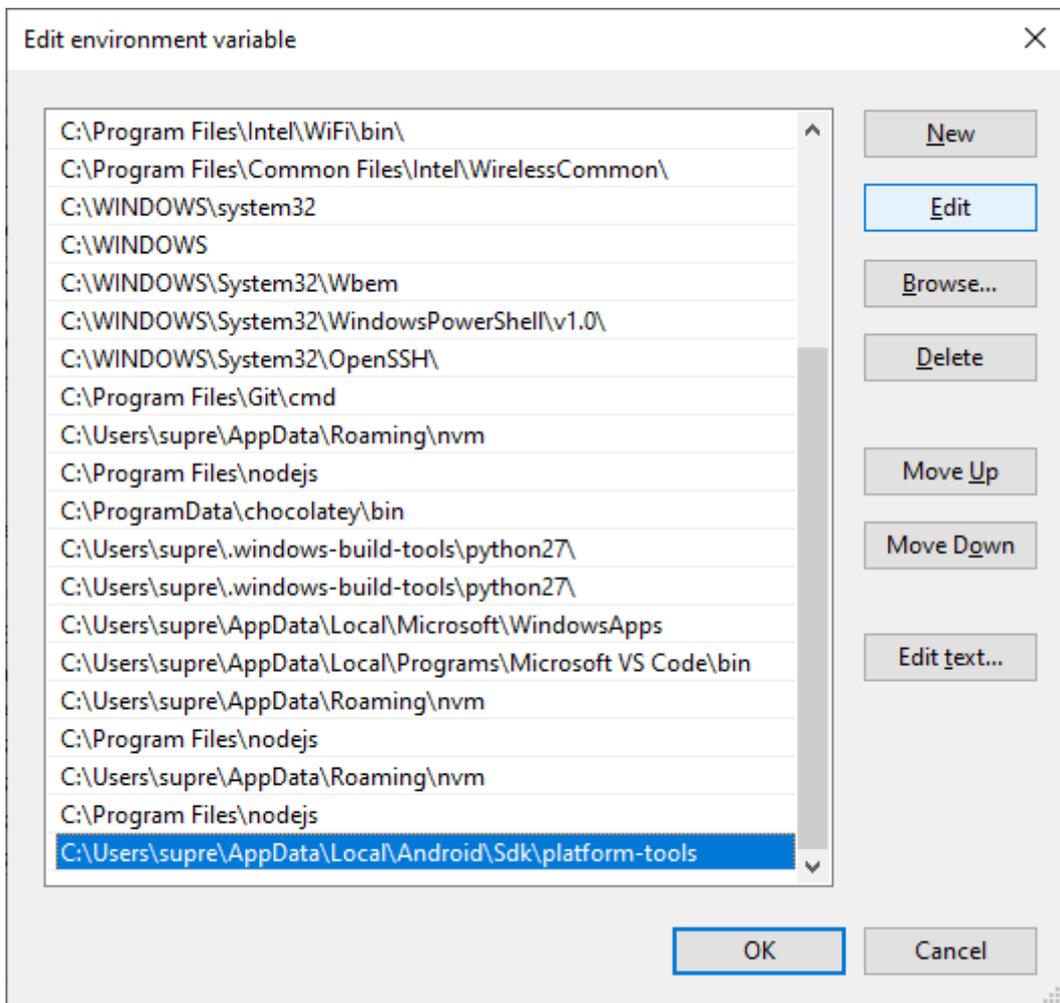
## Part 3 User Environment Variable

this step is confusing it was changed from `ANDROID_HOME` to `ANDROID_SDK_ROOT`



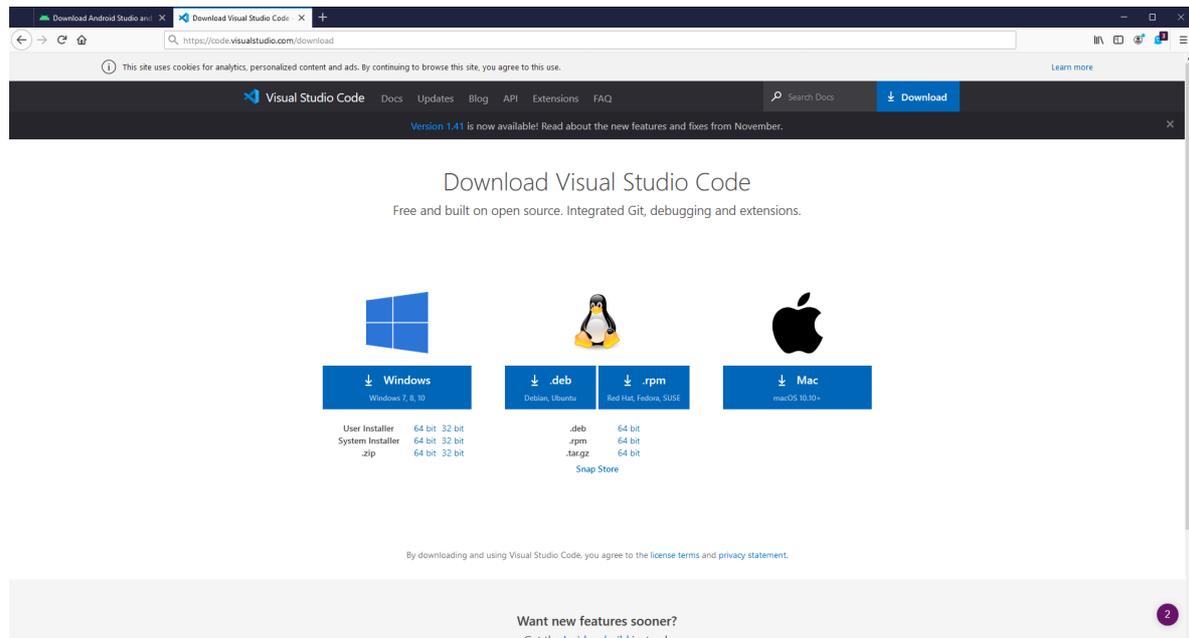


## Part 4 System Variable PATH

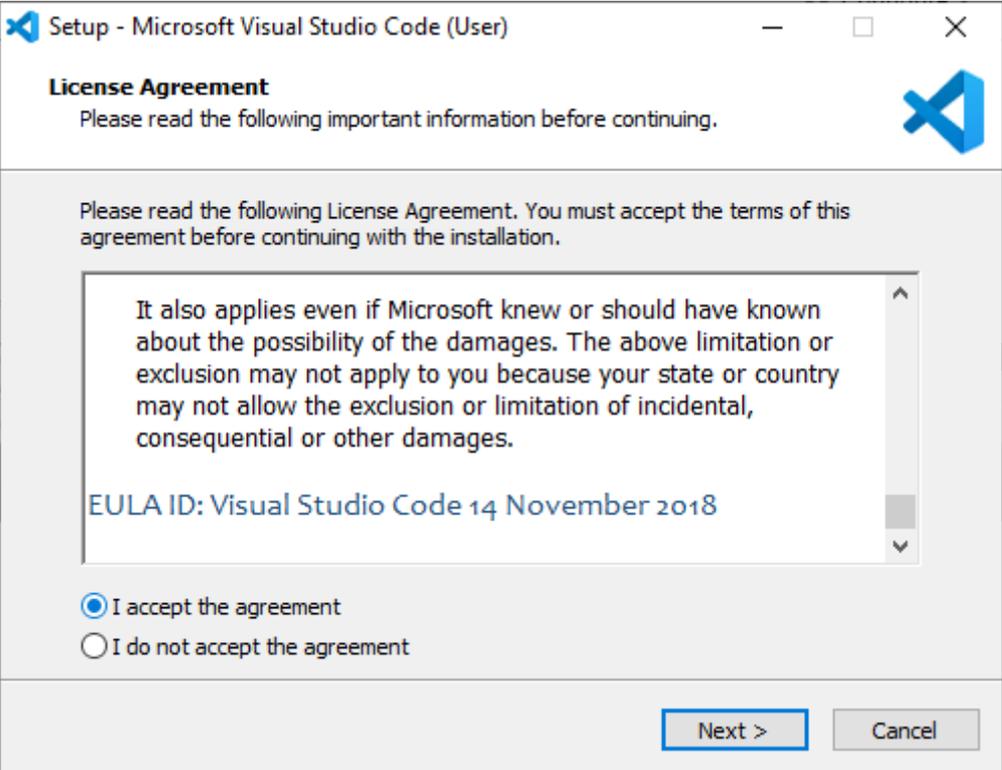


## 2. Install Visual Studio Code

<https://code.visualstudio.com/download>

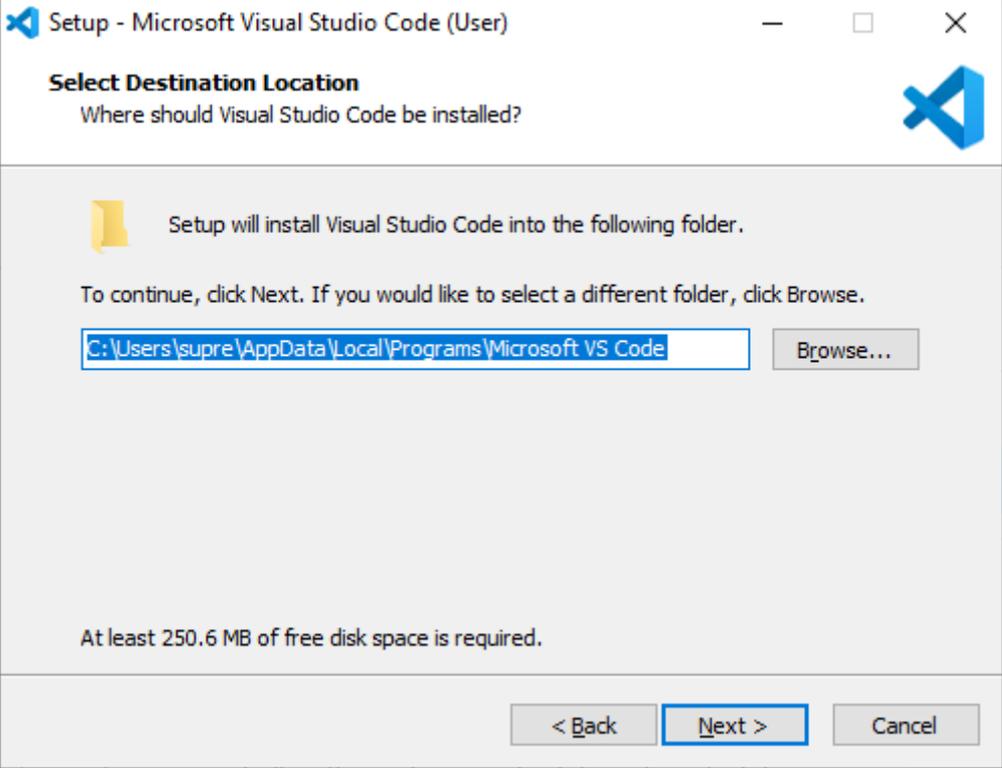


1.



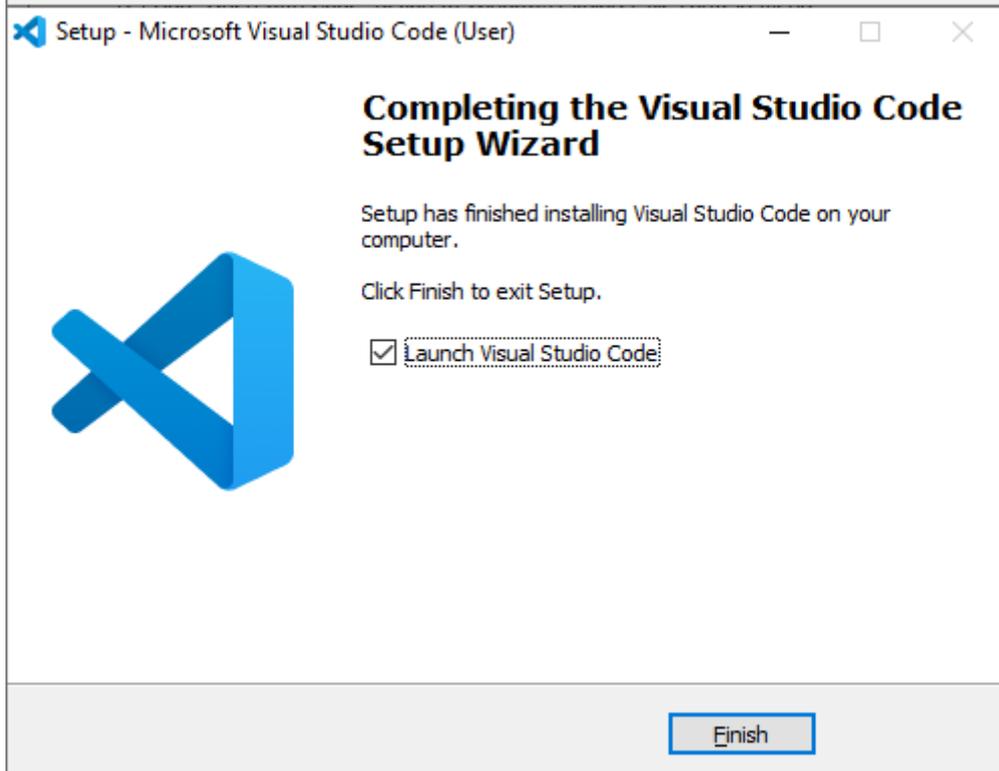
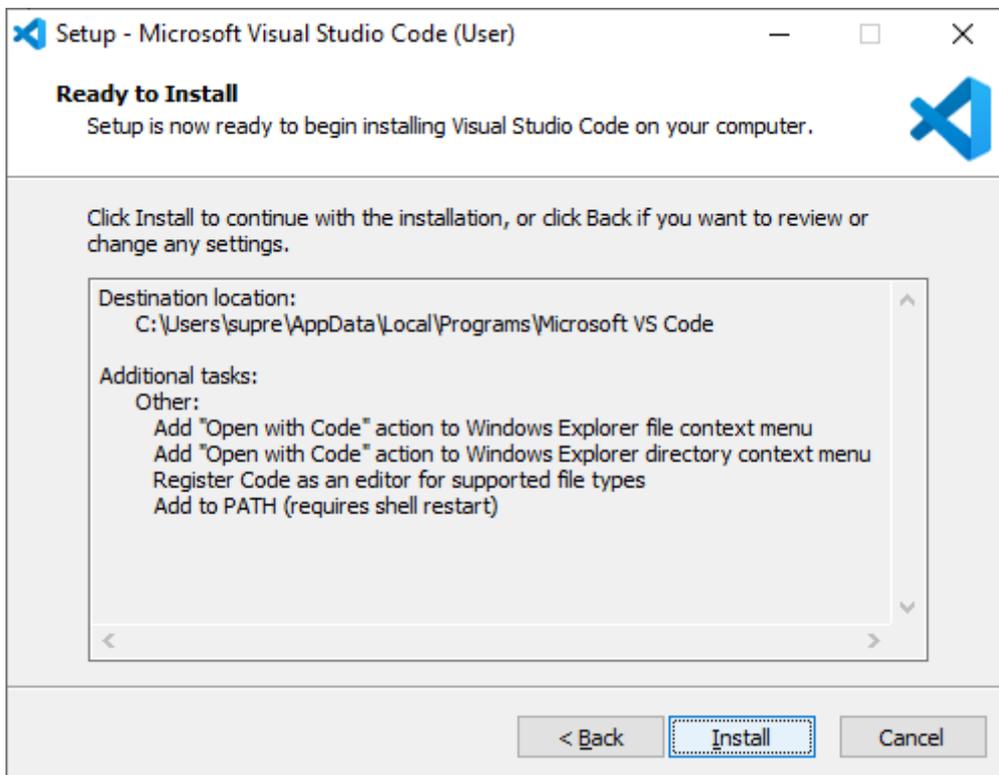
The screenshot shows the 'License Agreement' dialog box for Microsoft Visual Studio Code. The title bar reads 'Setup - Microsoft Visual Studio Code (User)'. The main heading is 'License Agreement' with a sub-heading 'Please read the following important information before continuing.' Below this, there is a scrollable text area containing the license terms, including a disclaimer: 'It also applies even if Microsoft knew or should have known about the possibility of the damages. The above limitation or exclusion may not apply to you because your state or country may not allow the exclusion or limitation of incidental, consequential or other damages.' The EULA ID is 'Visual Studio Code 14 November 2018'. At the bottom, there are two radio buttons: 'I accept the agreement' (which is selected) and 'I do not accept the agreement'. The 'Next >' button is highlighted in blue, and the 'Cancel' button is disabled.

2.

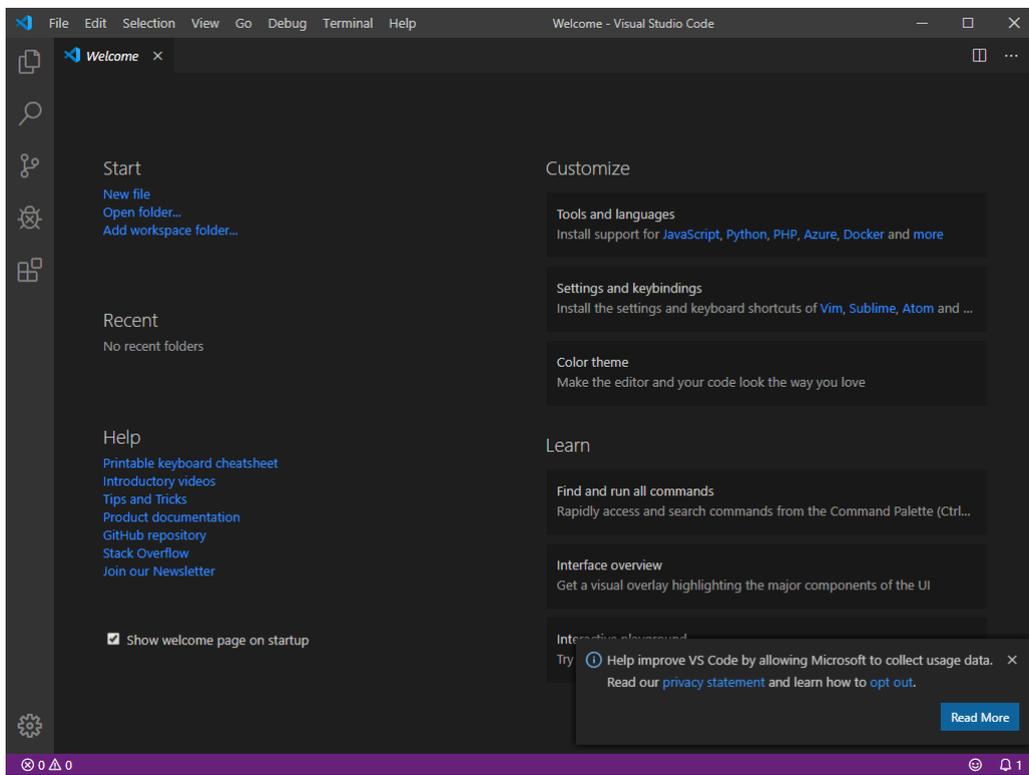


The screenshot shows the 'Select Destination Location' dialog box for Microsoft Visual Studio Code. The title bar reads 'Setup - Microsoft Visual Studio Code (User)'. The main heading is 'Select Destination Location' with a sub-heading 'Where should Visual Studio Code be installed?'. Below this, there is a folder icon and the text 'Setup will install Visual Studio Code into the following folder.' The text 'To continue, click Next. If you would like to select a different folder, click Browse.' is followed by a text box containing the path 'C:\Users\supre\AppData\Local\Programs\Microsoft VS Code' and a 'Browse...' button. At the bottom, there is a note: 'At least 250.6 MB of free disk space is required.' The 'Next >' button is highlighted in blue, and the '< Back' and 'Cancel' buttons are disabled.

3. skipped, put the desktop shortcut icon if you want



**Finished**

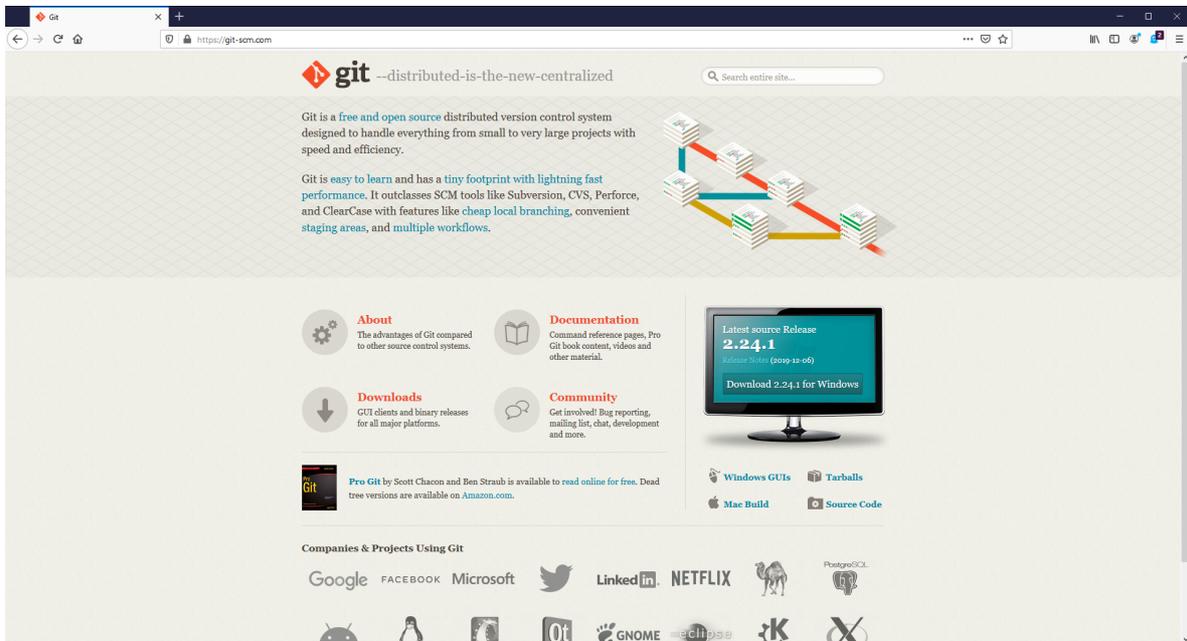


### (Optional) "Run as administrator" by default

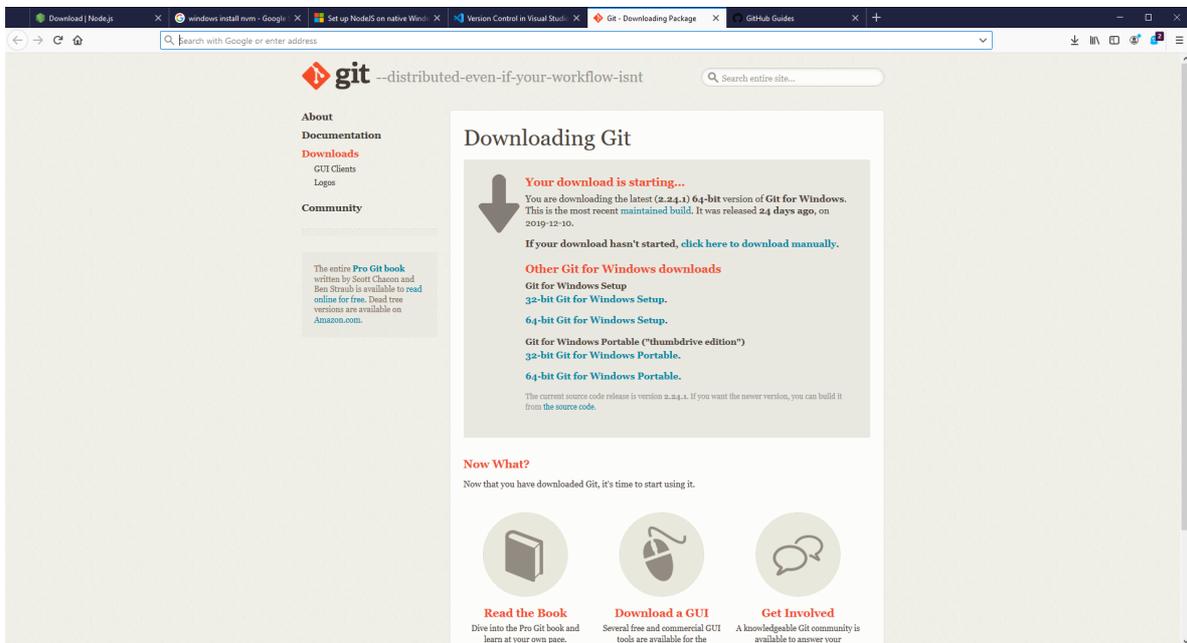
Name	Date modified	Type	Size
api-ms-win-core-sysinfo-l1-1-0.dll	16-Oct-17 2:09 PM	Application extens...	20 KB
api-ms-win-core-timezone-l1-1-0.dll	16-Oct-17 2:04 PM	Application extens...	19 KB
api-ms-win-core-util-l1-1-0.dll	16-Oct-17 2:04 PM	Application extens...	19 KB
api-ms-win-crt-conio-l1-1-0.dll	16-Oct-17 2:09 PM	Application extens...	20 KB
api-ms-win-crt-convert-l1-1-0.dll	16-Oct-17 2:09 PM	Application extens...	23 KB
api-ms-win-crt-environment-l1-1-0.dll	16-Oct-17 2:04 PM	Application extens...	20 KB
api-ms-win-crt-filestream-l1-1-0.dll	16-Oct-17 2:09 PM	Application extens...	21 KB
api-ms-win-crt-heap-l1-1-0.dll	16-Oct-17 2:04 PM	Application extens...	20 KB
api-ms-win-crt-locale-l1-1-0.dll	16-Oct-17 2:04 PM	Application extens...	20 KB
api-ms-win-crt-math-l1-1-0.dll	16-Oct-17 2:04 PM	Application extens...	28 KB
api-ms-win-crt-multibyte-l1-1-0.dll	16-Oct-17 2:04 PM	Application extens...	27 KB
api-ms-win-crt-private-l1-1-0.dll	16-Oct-17 2:05 PM	Application extens...	71 KB
api-ms-win-crt-process-l1-1-0.dll	16-Oct-17 2:04 PM	Application extens...	20 KB
api-ms-win-crt-runtime-l1-1-0.dll	16-Oct-17 2:06 PM	Application extens...	24 KB
api-ms-win-crt-stdio-l1-1-0.dll	16-Oct-17 2:09 PM	Application extens...	25 KB
api-ms-win-crt-string-l1-1-0.dll	16-Oct-17 2:09 PM	Application extens...	25 KB
api-ms-win-crt-time-l1-1-0.dll	16-Oct-17 2:05 PM	Application extens...	22 KB
api-ms-win-crt-utility-l1-1-0.dll	16-Oct-17 2:09 PM	Application extens...	20 KB
blink_image_resources_200_percent.pak	16-Oct-17 2:00 PM	PAK File	25 KB
Code.exe	16-Oct-17 2:09 PM	Application	78,895 KB
Code.VisualElementsManifest.xml	16-Oct-17 2:00 PM	XML File	1 KB
content_resources_200_percent.pak	16-Oct-17 2:00 PM	PAK File	1 KB
content_shell.pak	16-Oct-17 2:00 PM	PAK File	11,736 KB
d3dcompiler_47.dll	16-Oct-17 2:05 PM	Application extens...	4,077 KB
ffmpeg.dll	16-Oct-17 2:05 PM	Application extens...	1,181 KB

## 3. Install git-scm *WINDOWS ONLY*

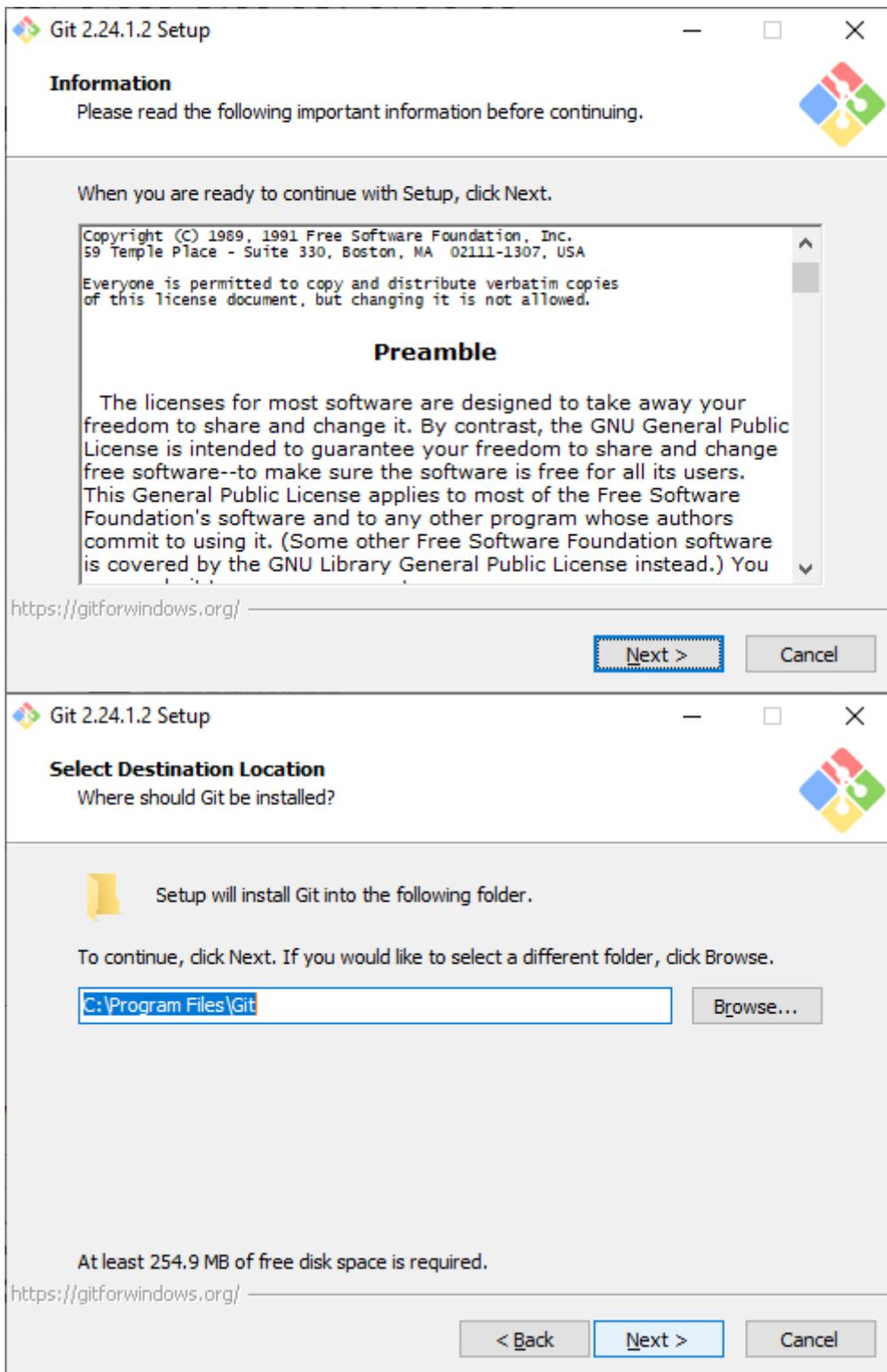
You mostly leave all of the options on the default settings, you can go fast

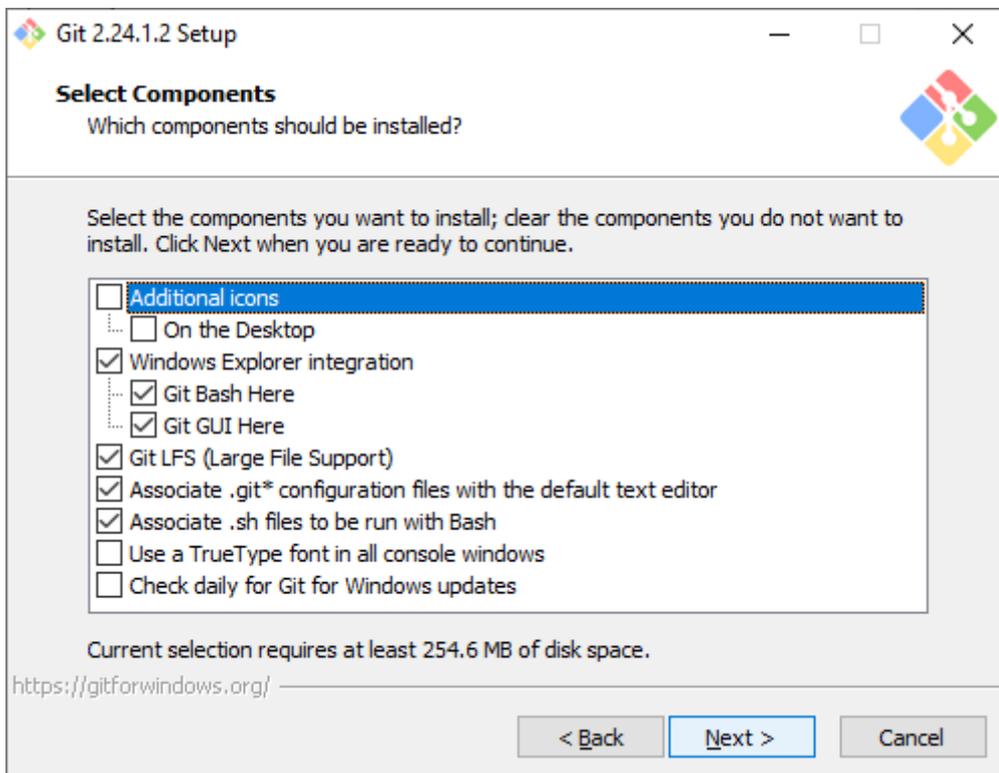


<https://git-scm.com/>



<https://git-scm.com/download/win>



3.  The screenshot shows the 'Select Components' step of the Git 2.24.1.2 installation. The window title is 'Git 2.24.1.2 Setup'. The main heading is 'Select Components' with the question 'Which components should be installed?'. Below this, it says 'Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.' A list of components is shown with checkboxes: 'Additional icons' (unchecked), 'On the Desktop' (unchecked), 'Windows Explorer integration' (checked), 'Git Bash Here' (checked), 'Git GUI Here' (checked), 'Git LFS (Large File Support)' (checked), 'Associate .git\* configuration files with the default text editor' (checked), 'Associate .sh files to be run with Bash' (checked), 'Use a TrueType font in all console windows' (unchecked), and 'Check daily for Git for Windows updates' (unchecked). A note states 'Current selection requires at least 254.6 MB of disk space.' At the bottom, there is a URL 'https://gitforwindows.org/' and three buttons: '< Back', 'Next >', and 'Cancel'.

Git 2.24.1.2 Setup

**Select Components**

Which components should be installed?

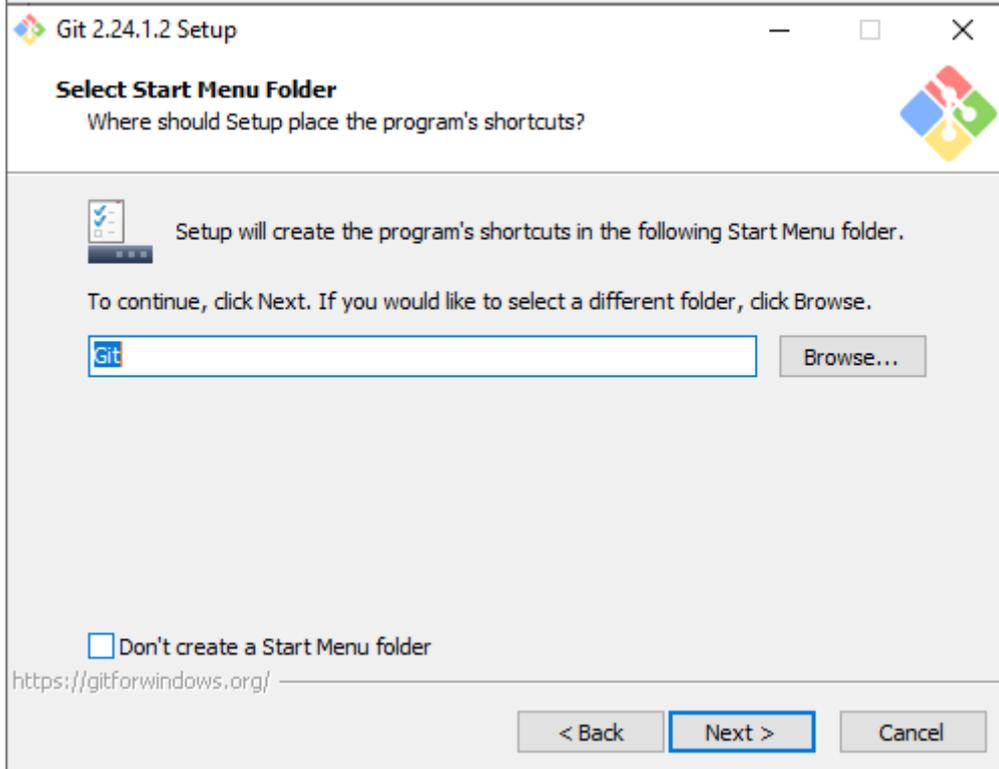
Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.

- Additional icons
  - On the Desktop
- Windows Explorer integration
  - Git Bash Here
  - Git GUI Here
- Git LFS (Large File Support)
- 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
- Check daily for Git for Windows updates

Current selection requires at least 254.6 MB of disk space.

<https://gitforwindows.org/>

< Back   Next >   Cancel

4.  The screenshot shows the 'Select Start Menu Folder' step of the Git 2.24.1.2 installation. The window title is 'Git 2.24.1.2 Setup'. The main heading is 'Select Start Menu Folder' with the question 'Where should Setup place the program's shortcuts?'. Below this, it says 'Setup will create the program's shortcuts in the following Start Menu folder.' followed by a small icon of a Start menu folder. It then says 'To continue, click Next. If you would like to select a different folder, click Browse.' Below this is a text input field containing 'Git' and a 'Browse...' button. At the bottom, there is a checkbox labeled 'Don't create a Start Menu folder' which is unchecked. At the very bottom, there is a URL 'https://gitforwindows.org/' and three buttons: '< Back', 'Next >', and 'Cancel'.

Git 2.24.1.2 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.

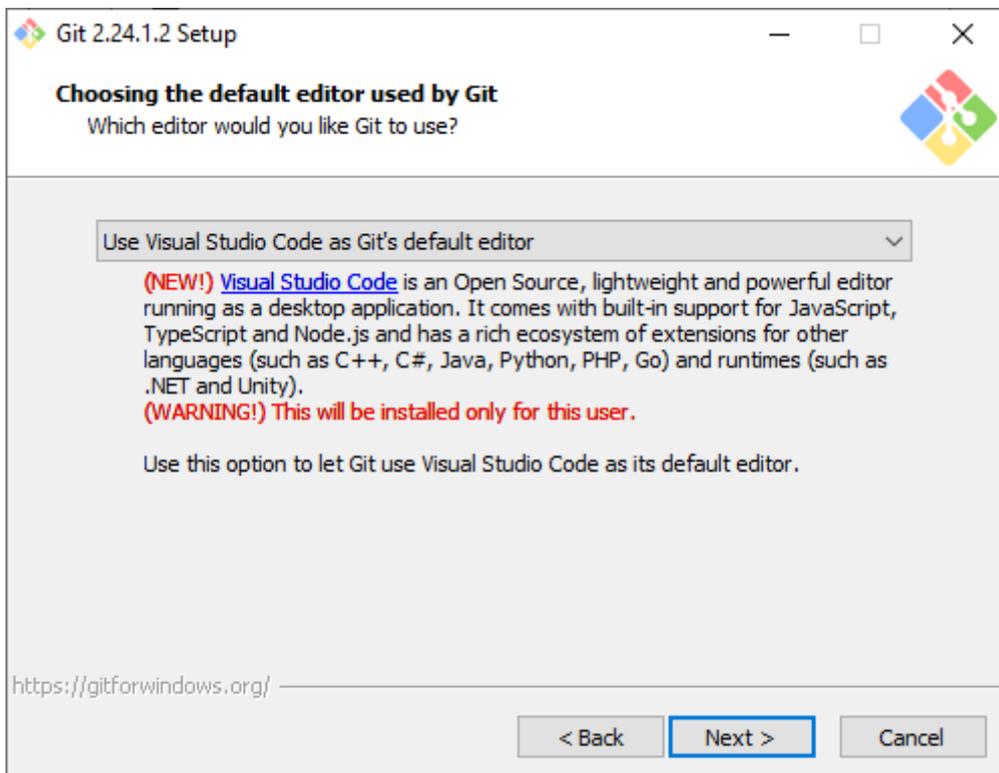
To continue, click Next. If you would like to select a different folder, click Browse.

Git   Browse...

Don't create a Start Menu folder

<https://gitforwindows.org/>

< Back   Next >   Cancel

5.  The screenshot shows the 'Choosing the default editor used by Git' step of the Git 2.24.1.2 installation. The window title is 'Git 2.24.1.2 Setup'. The main heading is 'Choosing the default editor used by Git' with the subtext 'Which editor would you like Git to use?'. A dropdown menu is set to 'Use Visual Studio Code as Git's default editor'. Below this, there is a paragraph describing Visual Studio Code as an Open Source editor with built-in support for JavaScript, TypeScript, and Node.js, and a rich ecosystem of extensions. A warning in red text states: '(WARNING!) This will be installed only for this user.' Below that, it says 'Use this option to let Git use Visual Studio Code as its default editor.' At the bottom, there is a URL 'https://gitforwindows.org/' and three buttons: '< Back', 'Next >', and 'Cancel'.

Use Visual Studio Code as Git's default editor

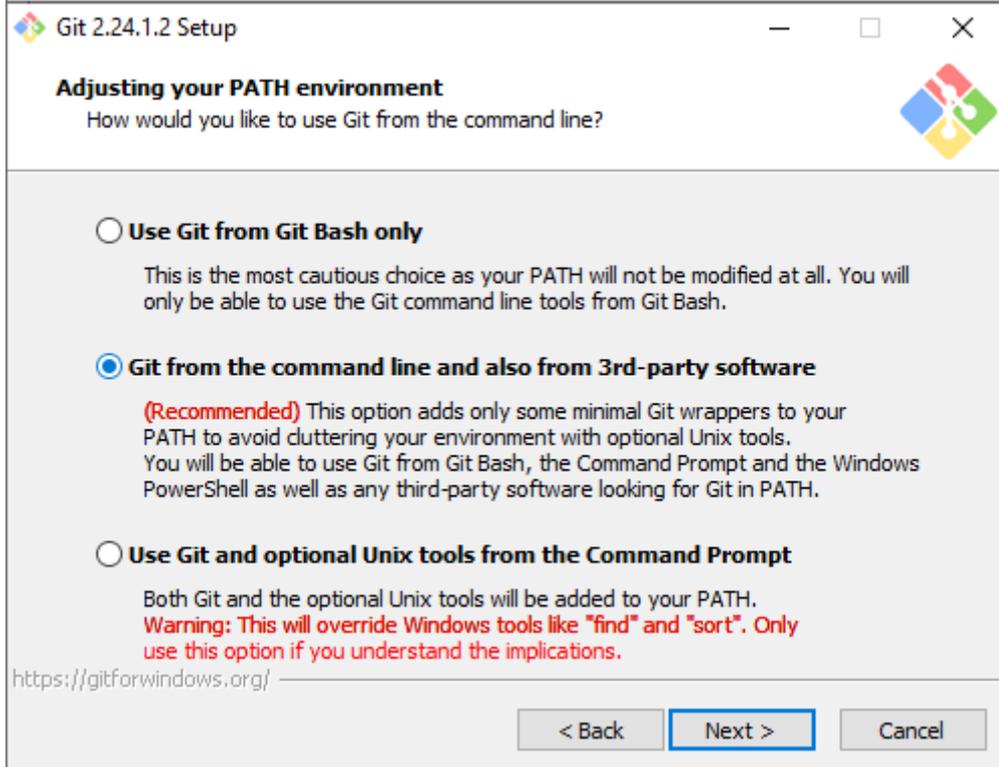
(NEW!) [Visual Studio Code](#) is an Open Source, lightweight and powerful editor running as a desktop application. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages (such as C++, C#, Java, Python, PHP, Go) and runtimes (such as .NET and Unity).

(WARNING!) This will be installed only for this user.

Use this option to let Git use Visual Studio Code as its default editor.

<https://gitforwindows.org/>

< Back   Next >   Cancel

6.  The screenshot shows the 'Adjusting your PATH environment' step of the Git 2.24.1.2 installation. The window title is 'Git 2.24.1.2 Setup'. The main heading is 'Adjusting your PATH environment' with the subtext 'How would you like to use Git from the command line?'. There are three radio button options. The first is 'Use Git from Git Bash only' with the description: 'This is the most cautious choice as your PATH will not be modified at all. You will only be able to use the Git command line tools from Git Bash.' The second is 'Git from the command line and also from 3rd-party software', which is selected. It is marked as '(Recommended)' and has the description: 'This option adds only some minimal Git wrappers to your PATH to avoid cluttering your environment with optional Unix tools. You will be able to use Git from Git Bash, the Command Prompt and the Windows PowerShell as well as any third-party software looking for Git in PATH.' The third is 'Use Git and optional Unix tools from the Command Prompt' with the description: 'Both Git and the optional Unix tools will be added to your PATH. Warning: This will override Windows tools like "find" and "sort". Only use this option if you understand the implications.' At the bottom, there is a URL 'https://gitforwindows.org/' and three buttons: '< Back', 'Next >', and 'Cancel'.

Use Git from Git Bash only

This is the most cautious choice as your PATH will not be modified at all. You will only be able to use the Git command line tools from Git Bash.

Git from the command line and also from 3rd-party software

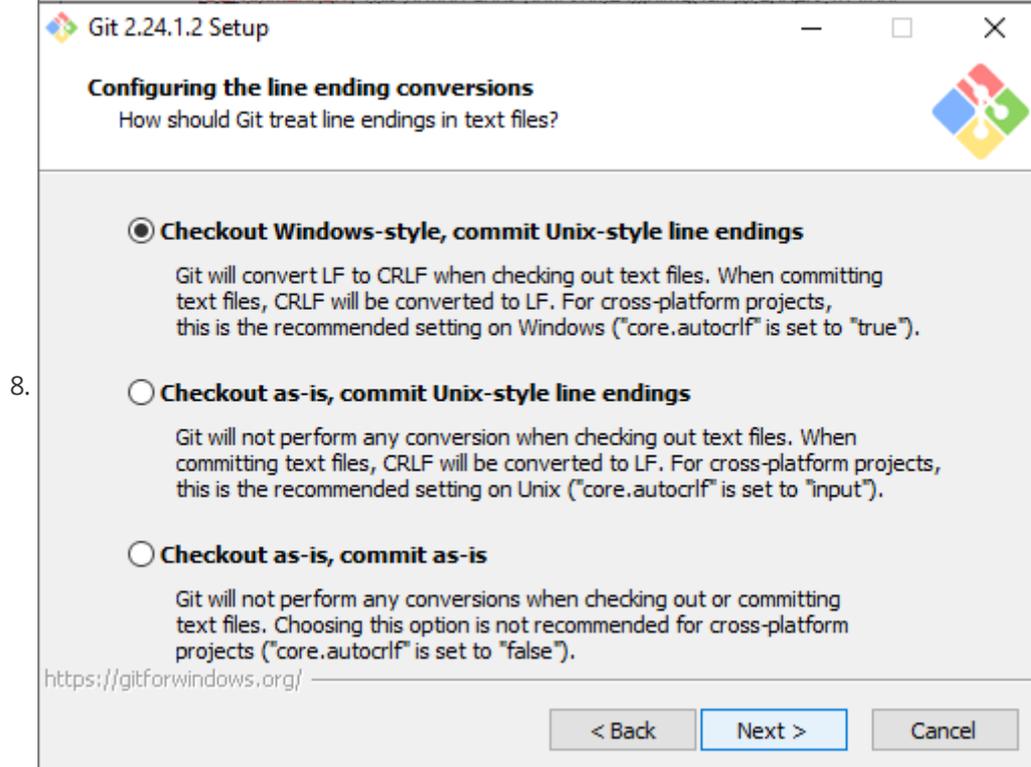
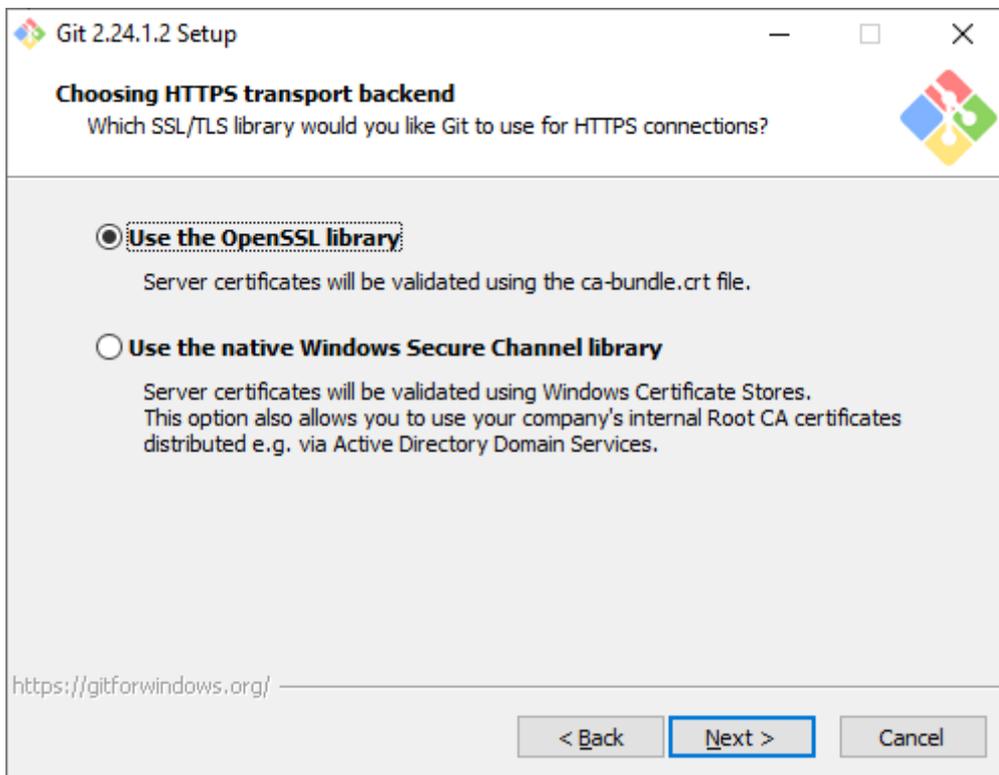
(Recommended) This option adds only some minimal Git wrappers to your PATH to avoid cluttering your environment with optional Unix tools. You will be able to use Git from Git Bash, the Command Prompt and the Windows PowerShell as well as any third-party software looking for Git in PATH.

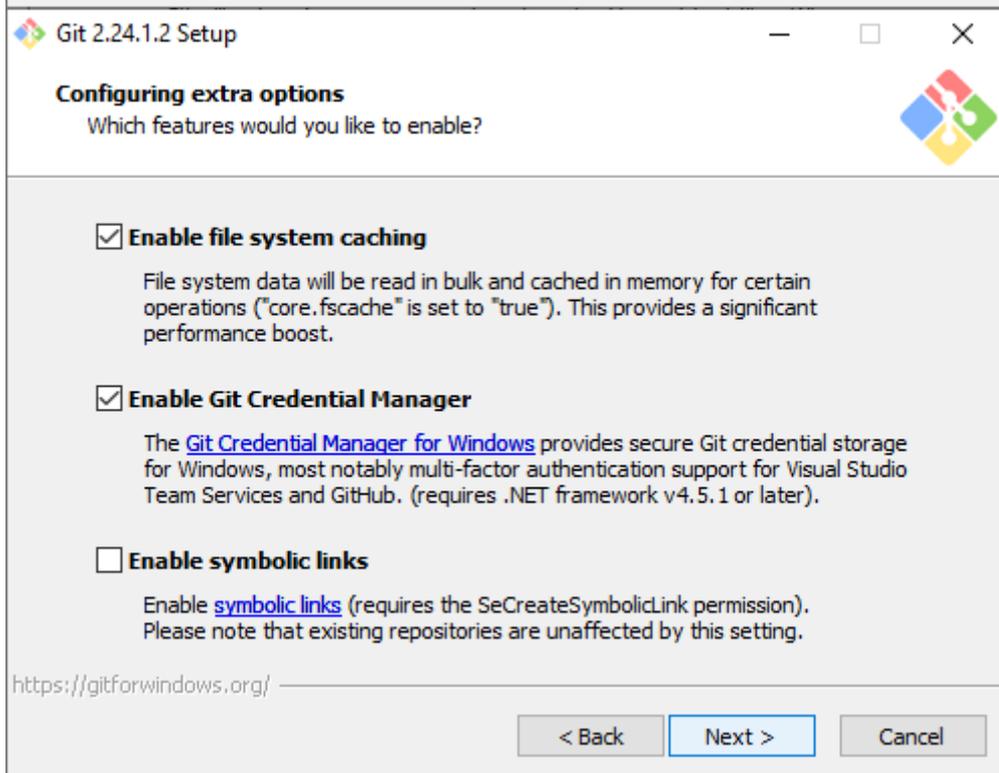
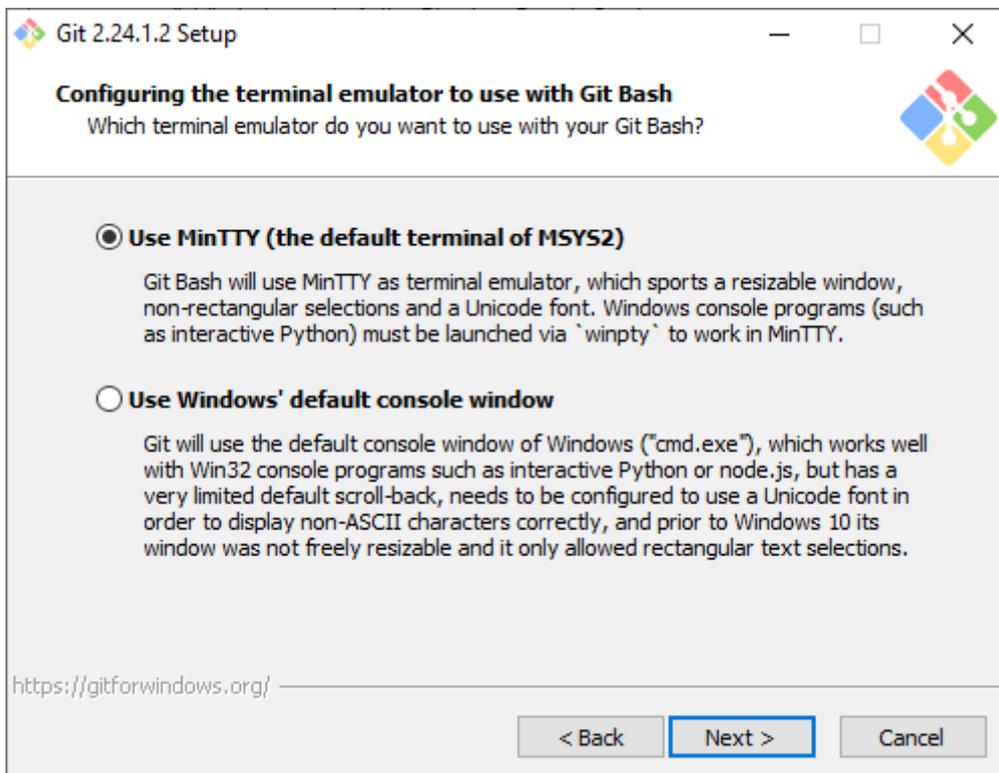
Use Git and optional Unix tools from the Command Prompt

Both Git and the optional Unix tools will be added to your PATH.  
Warning: This will override Windows tools like "find" and "sort". Only use this option if you understand the implications.

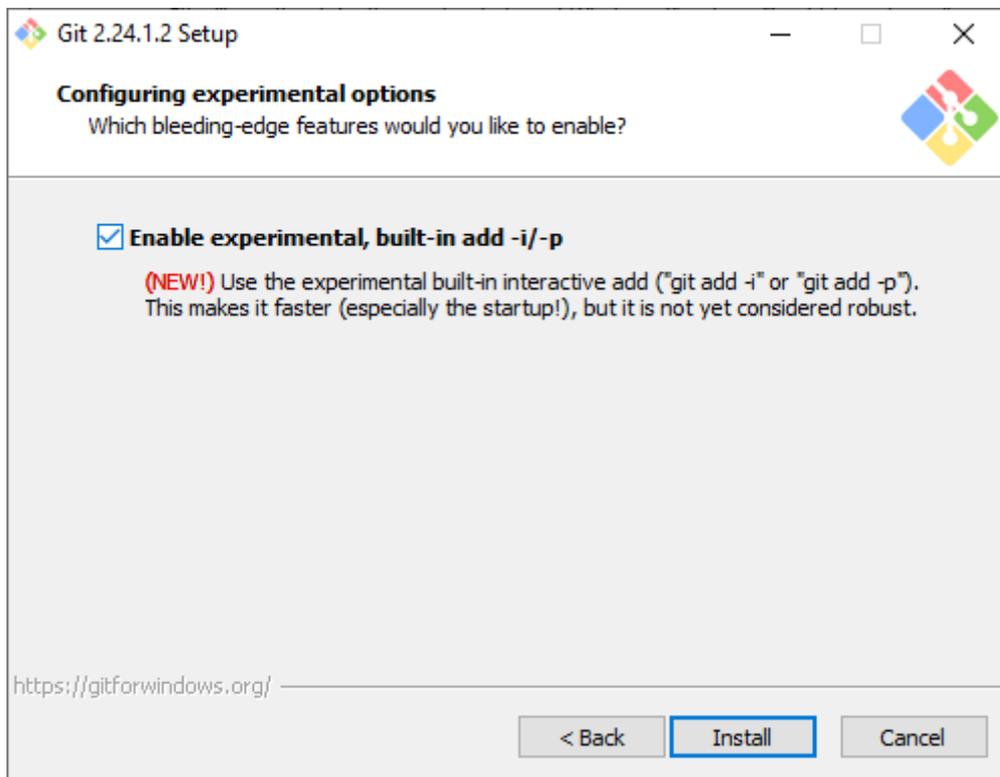
<https://gitforwindows.org/>

< Back   Next >   Cancel

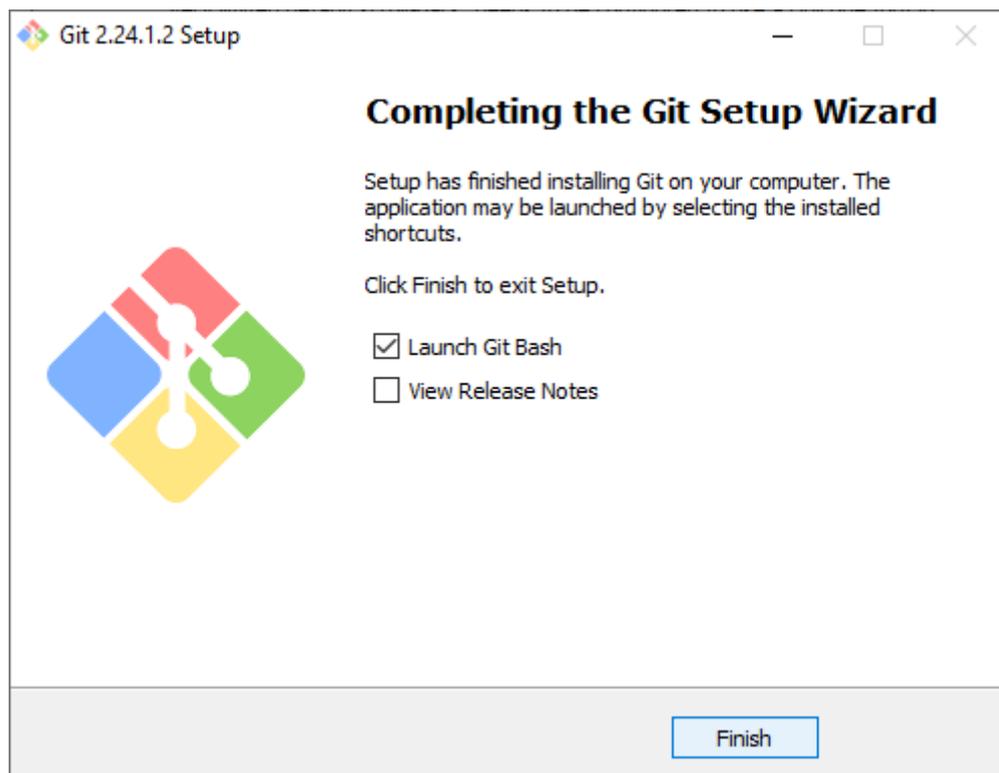




11.



Finished



## 4. bash\_profile

Setting and persisting environment variables in terminal sessions. In `~/.bashrc`, `~/.bash_profile`, or similar shell startup scripts, make the following modifications:

**To open in VS Code**

```
code ~/.bash_profile
```

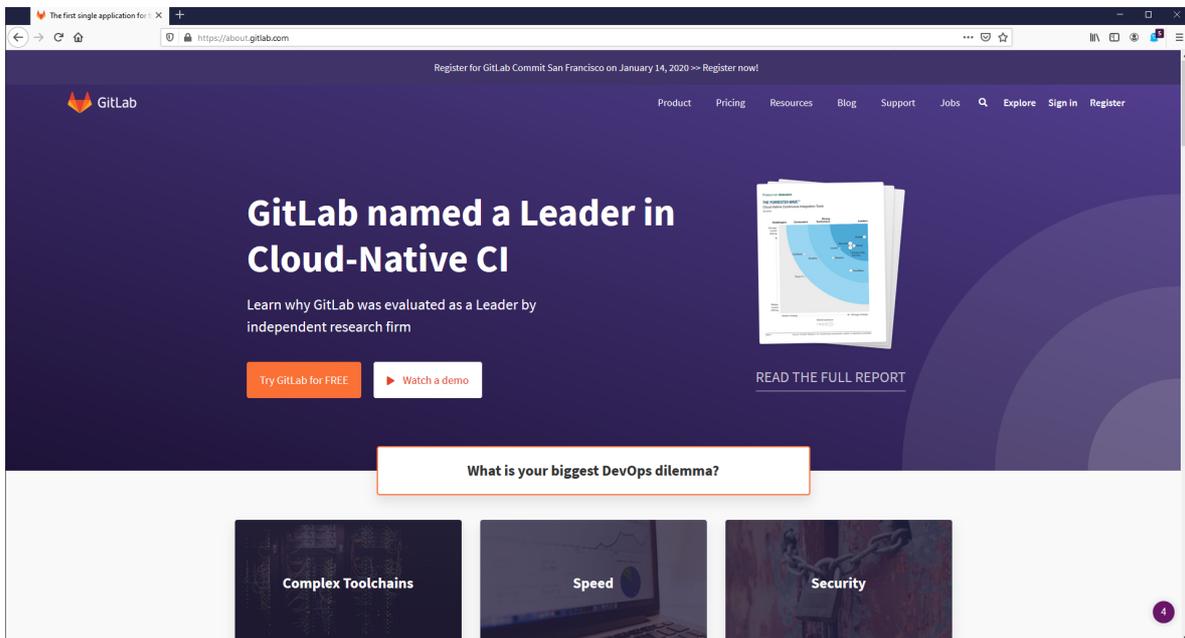
```
export ANDROID_SDK_ROOT=$HOME/Library/Android/sdk

# avdmanager, sdkmanager
export PATH=$PATH:$ANDROID_SDK_ROOT/tools/bin

# adb, logcat
export PATH=$PATH:$ANDROID_SDK_ROOT/platform-tools

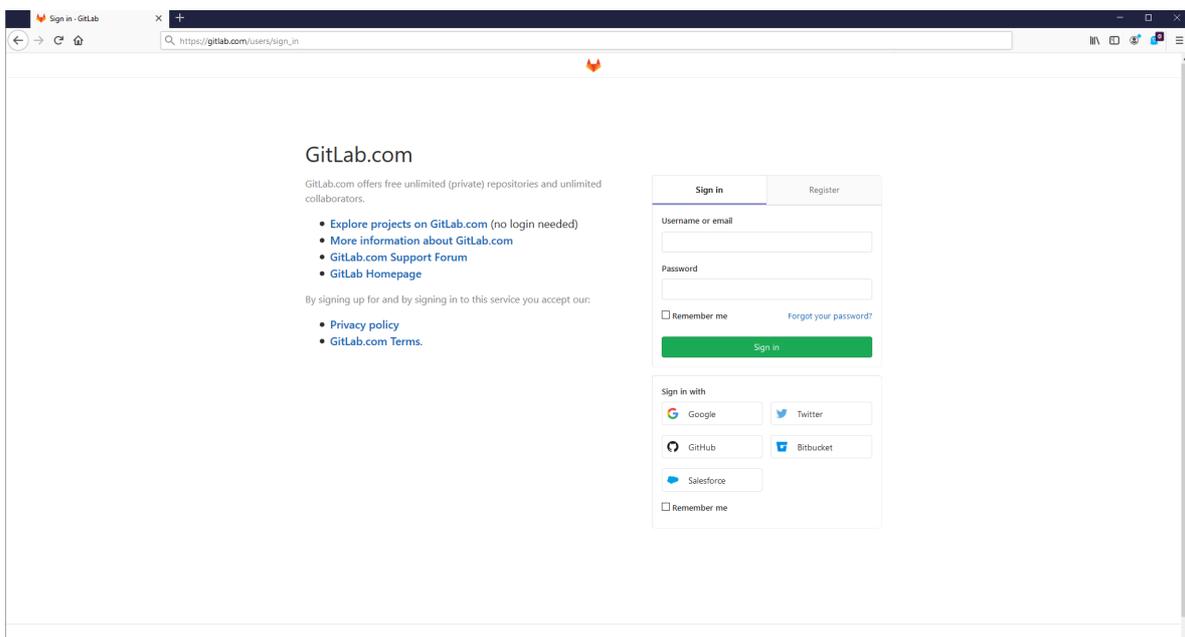
export ANDROID_HOME=$HOME/Android/Sdk
export PATH=$PATH:$ANDROID_HOME/emulator
export PATH=$PATH:$ANDROID_HOME/tools
export PATH=$PATH:$ANDROID_HOME/tools/bin
export PATH=$PATH:$ANDROID_HOME/platform-tools
```

## 5. Register GitLab Account



The screenshot shows the GitLab homepage with a dark purple header. The main content area features a large headline: "GitLab named a Leader in Cloud-Native CI". Below this, there is a sub-headline: "Learn why GitLab was evaluated as a Leader by independent research firm". There are two buttons: "Try GitLab for FREE" and "Watch a demo". To the right, there is a "READ THE FULL REPORT" link. Below the main content, there is a section titled "What is your biggest DevOps dilemma?" with three cards: "Complex Toolchains", "Speed", and "Security".

[https://gitlab.com/users/sign\\_in](https://gitlab.com/users/sign_in)



The screenshot shows the GitLab sign-in page. The page has a white background with the GitLab logo at the top. The main heading is "GitLab.com". Below this, there is a sub-heading: "GitLab.com offers free unlimited (private) repositories and unlimited collaborators." There are three bullet points: "Explore projects on GitLab.com (no login needed)", "More information about GitLab.com", and "GitLab.com Support Forum". Below this, there is a section titled "By signing up for and by signing in to this service you accept our:" with two bullet points: "Privacy policy" and "GitLab.com Terms". On the right side, there is a sign-in form with fields for "Username or email" and "Password". There are checkboxes for "Remember me" and a link for "Forgot your password?". Below the form, there is a "Sign in" button. At the bottom, there is a "Sign in with" section with buttons for Google, Twitter, GitHub, Bitbucket, and Salesforce. There is also a "Remember me" checkbox.

## Add SSH Key

<https://gitlab.com/help/ssh/README#generating-a-new-ssh-key-pair>

## Clone the Repo

1. `ctrl+j` to open terminal
2. `cd ../../..`
3. `mkdir` create a new folder with this command
4. `git clone` download a copy of the source code

## 6. Install Node Version Manager

---

<https://github.com/coreybutler/nvm-windows/releases>

<https://docs.microsoft.com/en-us/windows/nodejs/setup-on-windows>

1. Open the [windows-nvm repository](#) in your internet browser and select the **Download Now** link.
2. Download the **nvm-setup.zip** file for the most recent release.
3. Once downloaded, open the zip file, then open the **nvm-setup.exe** file.
4. The Setup-NVM-for-Windows installation wizard will walk you through the setup steps, including choosing the directory where both `nvm-windows` and `Node.js` will be installed.
5. Once the installation is complete. Open PowerShell and try using `windows-nvm` to list which versions of Node are currently installed (should be none at this point): `nvm ls`
6. Install the latest stable LTS release of Node.js `nvm list available`
7. then installing the LTS version number with: `nvm install` (replacing ``` with the number, ie: `nvm install 10.16.3``).

## 7. Install JDK

---

```
choco install jdk8
```

## 8. Install JavaScript Frameworks

---

```
npm i -g @angular/cli cordova ionic cordova-res native-run windows-build-tools  
npm config set python python2.7
```

## 9. run the app in browser

---

```
ionic serve --lab
```

## 10. Run Mobile App on device

---

`ionic cordova platform add android` just the first time to set up the android app then plug your phone to the computer.

```
ionic cordova build android
```

Check that your phone is connected by running `adb devices`

run `ionic cordova run android --device` to load the app onto the phone