

IMPORTING ECLIPSE FILES INTO VISUAL STUDIO

1. Go into the eclipse file you want to import
2. Project > properties > location
3. Copy the file path
4. Paste said file path in File Explorer
5. It may change for some reason, if so copy the new file path
6. In visual studio, hit command+shift+p and search for "WPILib eclipse"
7. Click "select an eclipse project"
8. Paste the file path
9. Select the build.properties folder
10. Fill out the rest of the form thingy and pray

INSTALLING JAVA DEVELOPMENT TOOLS FOR FRC IN VSCODE or UPDATING WPILIB SUITE

1. Download the appropriate installer for your Windows installation (64 bit) from GitHub (<https://github.com/wpilibsuite/allwpilib/releases>).
2. Double click on the installer to run it. If you see any Security warnings, click Run (Windows 7) or More Info->Run Anyway (Windows 8+).
3. When it's fully downloaded, unzip the file.
4. Extract the .exe application. Very important. If successful, the icon should switch from light blue to a navy and red "W."
5. Run the application.
6. Choose either to install for All Users on the machine or the Current User. The All Users option requires Admin privileges, but installs in a way that is accessible to all user accounts, the Current User install is only accessible from the account it is installed from.
7. A "selector" window will pop up. If you have VS Code already, click "select existing download" and find your Visual Studio Code launcher. If you do not, click Download.
 1. IMPORTANT: if you are JUST UPDATING IT, do NOT click either of these.
8. Check all the boxes in the installer and click "execute install."
 1. IMPORTANT: if you are JUST UPDATING IT, UNCHECK all the top boxes.
9. A green bar will come up as you install it. Wait for it to complete. If you get an error for Windows followed by the freezing of the green bar, that's an issue. Did you extract the .exe application?
10. There should now be a desktop icon for a WPILib version of Visual Studio. Open it and you're done!
 1. IMPORTANT: if you are JUST UPDATING IT, click YES and YES on the pop ups. Restart VS Code.

UPDATING THE ROBORIO

1. Search for "roborio" in the search bar (bottom right). Open that.
2. Connect to your roboRIO with both the WiFi and the nice blue usb cable.
3. Your roboRIO should be listed under targets. If not, hit rescan. Select it.
4. The latest update should be available from <http://www.ni.com/download/first-robotics-software-2017/7904/en/>
5. Download, extract, and open the installer.
6. Next, next, next, etc until the installer is done. There will be numerous green bars. Just wait.
7. Make sure the box is checked to Run License Manager... then click Next or Finish
8. When it asks you to create a NI User Account, just exit, you're good to go.
9. If you get "RoboRIO Image invalid! RoboRIO: 2019_v13, allowed: [2019_v12]" from attempting to build, see above 'UPDATING WPILIB SUITE'

USING GIT

- git pull: pull from a repository
- git history: view previous versions of the code
- copy ..\2019-robot* . /E
 - dot is command above this one, asterisk is wild card, /E is empties
- git status: tells you about what's ready to be committed, what's tracked, what's staged
- git add: stages for commit (don't generally add gradle or config) (can use -all to add all untracked)
- git remove [name of file]: unknow things
- git commit: upload (use -m "message" for messages)
- git diff: see the differences between two files
- 'Q' to quit pop ups like git diff
- Git log: see list of commmits. Hashes are used to keep track of commits
- Git stash: "take all the uncommitted changes and put them aside" (clean tree)
- Git reset —hard HEAD: get rid of the changes, entirely, and restore it to the most recent state
- Git show [hash]: show the file's differences
- Git checkout [hash]: view the file in editor
- Git branch: show all branches (named timelines), master is main
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TO UPLOAD TO GITHUB

0.5 Do 'cd Desktop/2019' to change directories

1. Do 'git status' to see updated files
2. Do 'git add -all' to stage all listed updated files
3. Do 'git commit -m "add your message here"' to upload to GitHub
4. Do 'git push' to push to GitHub

IF THE CODE WON'T DEPLOY:

If it's looking for things like gradlew, make sure you're working at the right directory.

File > open file > 2019 (yes, at the top directory)