Installing Eclipse and Java

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Compiled on Sunday 24th June, 2018 at 16:33

Abstract

This document contains instructions to set up the necessary integrated development environment (IDE) for FRC programming. There are three steps:

- 1. Install the correct Java SE Development Kit (JDK)
- 2. Install Eclipse IDE
- 3. Install the correct plugin for code deployment.

A guide could be found online at https://wpilib.screenstepslive.com/s/4485/m/13503/1/599679-installing-eclipse-c-java

Install JDK

- 1. Download the most recent JDK from Oracle's website.
 - As of the time of writing, Java 9 is not supported by FRC tools the latest supported version can be found here
- 2. Make sure that you select the correct version for your operating system, e.g., *.exe for Windows, *.dmg for Mac OSX, and *.tar.gz for Linux
- 3. Double click on the downloaded file to start the installer
- 4. Install the JDK by following the installation instructions

Install (or Update) Eclipse

1. Go to http://first.wpi.edu/FRC/roborio/release/eclipse/

- 2. Click on the corresponding installer, 32 bit or 64 bit (if you don't know the version of OS present, choose the 32 bit installer)
- 3. Download the installer to a known location (ex. Downloads or Desktop)
- 4. Execute the installer file
- 5. Select Eclipse IDE for Java Developers
- 6. Confirm install location and select preferred shortcut locations
- 7. Accept EULA
- 8. Launch Eclipse Oxygen and set up preferences, line numbers are highly recommended

Install the WPILib Plugin for Eclipse

- 1. Open Eclipse
- 2. Go to Window Preferences, it should pop up a new window
- 3. Go to Java Installed JREs and press "Add"
- 4. Click "Standard VM", and find the folder that you installed JDK 8u171, and select it to be the JRE home folder.
- 5. Click "Finish", and now you have Java for deploying code onto the robot.
- 6. Now we will install the WPILib plugin for java
- 7. Go to Help Install new software
- 8. Type http://first.wpi.edu/FRC/roborio/release/eclipse/ into the "Work with: " text box, and then press "Add"
- 9. In the consequencing pop-up, put in "wpilibj" as the name
- 10. Expand the WPILib Robot Development option, and check the Robot Java Development
- 11. Click "Next", and then accept the terms of the license agreement to complete the installation
- 12. Now you are set up to test code for the Robot!