

FRC Java Supplement 1

Setup

Java JDK, Netbeans, FRC Plugins

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What is the JDK and JRE

- JDK = Java Development Kit
 - Java Compiler
 - Java Library
 - Other applications for writing Java Programs
- JRE = Java Runtime Environment
 - Java Virtual Machine
 - Needed to run Java Programs
 - Included in JDK

What is Netbeans

- Netbeans is an IDE
 - Makes writing programs easier
 - Syntax highlighting
 - Error checking
 - Auto-fill in
 - Numerous debugging features
 - Used to develop FRC Robot Java Programs



Installing the JDK and Netbeans

- Windows and Mac

- <http://www.oracle.com/technetwork/java/javase/downloads/index.html>
- Hit square with Netbeans in it
- Read and accept the license agreement
- Hit download link for Windows or Mac
- After download install like any other program

- Linux

- Search Native Package Manager for Netbeans first
 - Otherwise download/install Linux version with above instructions

What are the FRC Plugins

- Addition Java Library for the FRC Competition
- Provides Classes for dealing with common components
- Handles all wireless communications
- Built in safety system (Watch Dog)

Install FRC Plugins

- Startup Netbeans
- Go to Tools then hit Plugins
- Go to Settings tab and hit add
- Type FRC Java as name
- Type <http://first.wpi.edu/FRC/java/netbeans/update/updates.xml> as URL
- Go to Avalible Plugins tab and hit Check for Updates
- Find/Select all plugins with FRC Java under category
 - Currently 6 – 2012
- Hit install, when installation is finished restart Netbeans

FRC Plugin Configuration

- Go to Tools and hit Options
- Hit Miscellaneous and then the FRC Configuration tab
- Insert Team Number
- Hit Ok
- You are NOW ready to go!

