

Virtual Robot – Detailed Installation Instructions

I. If you don't already have Java Development Kit Version 8 (JDK 8) installed on your system, you need it.

Open a browser and navigate to:

<https://www.oracle.com/java/technologies/javase/javase-jdk8-downloads.html>

Download the appropriate JDK8 installer for your system (e.g., Windows x64). Unfortunately, Oracle now requires that you create an account for this (you will be prompted to do so), but it is free.

Run the installer (e.g., jdk-8u251-windows-x64.exe) that you have downloaded. This will install JDK8 on your system. You'll be prompted for the location that you want this installed to. By accepting the default, the path to the JDK8 on my system is: C:\Program Files\Java\jdk1.8.0_192. You should find something similar.

II. If you don't already have IntelliJ IDEA on your system, you'll need to install it.

Open a browser and navigate to:

<https://www.jetbrains.com/idea/download/#section=windows>

Click to download the .exe for the free Community edition of IntelliJ IDEA. For example, this might be named idealC-2020.1.2.exe. Run this .exe files to install IntelliJ IDEA.

III. Download the Virtual Robot application.

Open a browser and navigate to:

https://github.com/Beta8397/virtual_robot

Click the green button ("Clone") on the right and select the "Download Zip" option. You'll find the .zip folder in your downloads directory: virtual_robot-master.zip.

Right-click the zip folder and select "Extract all...". Extract to the folder of your choice. You'll wind up with an unzipped folder, for example: C:\Users\Me\Downloads\virtual_robot-master.

Within this folder, you should find a single directory: virtual_robot-master. That is the project folder. So for example, the path to the project folder might be:

C:\Users\Me\Downloads\virtual_robot-master\virtual_robot-master

IV. Run the IntelliJ IDEA application.

If it is the first time you have run it, accept the defaults.

Click "Open", and navigate to your project folder, virtual_robot-master. Note that if you have

unzipped into a folder named virtual_robot-master, then you will have another folder named virtual_robot-master nested within it. The project folder is the inner one.

Click "OK", and the project will open.

V. Click the green arrowhead to run the virtual_robot app.

You may get an error that says you need to "specify the SDK" (meaning the JDK). If so, go to

File --> Project Structure

and select "Project".

Under "Project SDK" select "New...", then "JDK". This opens the "Select Home Directory for JDK" dialog. In this dialog, navigate to the location of your JDK8, for example

C:\Program Files\jdk1.8.0_192

Select the appropriate directory and click OK.

Now, in the "Project Structure" dialog, click "Apply", then "OK".

Now you should be able run the app by clicking the green arrowhead.

VI. Now you are ready to write and test your own op modes.