

Installing Teaching.Codes on Linux

This document describes the steps for installing the Teaching.Codes plug-in for Eclipse on Linux as the requirement for CMPE150, CMPE160, etc.

The installation has been significantly simplified by providing a ZIP file that includes Eclipse Oxygen 2 extended with CDT and Teaching.Codes plugins, and the workspace. However, the ZIP file does not include Java 8u181 JDK; you have to download and install it separately.

The configuration of Eclipse has also been modified for your convenience. Therefore, please follow the installation instructions in this document; do not try to install directly from Eclipse.org site.

Stage #1: Install Java 8u181 JDK (not JRE)

Note that you should install Java 8u181 Development Kit (JDK), not Java Runtime Environment (JRE). If you do not install correct distribution, things will not work as they should.

Java 8u181 JDK is available [here](#). Please download and install it.

To verify Java is properly installed, you can open a terminal and run the command below:

```
java -version
```

The output should explicitly state the version as “8.*.*” where you could have any number instead of “*”.

Stage #2: Installing the C Compiler

You might hear from your friends using other operating systems that they need to install the C compiler. Linux distributions typically have GCC compiler pre-installed, so you do not need to do anything for this stage in Linux. Yet, if you want to be sure, type “**gcc -v**” in a terminal to be sure. If it is missing, use your package installer (yum, apt, etc.) to install GCC.

Stage #3: Download and Install the ZIP File

Now that you are sure you have everything ready to install Eclipse and Teaching.Codes, go to <http://programming.cmpe.boun.edu.tr> and download the ZIP file for Linux.

Note that the ZIP file has to be extracted exactly as mentioned. Otherwise, things will not work since components will not be able to find each other. Unzip the file to your home directory as follows:

```
cd ~  
tar xzf Teaching.Codes-Linux.tar.gz
```

You should have realized that you have three directories (`.p2`, `.eclipse`, and `workspace`) created under your home directory. The first two of these directories are hidden; therefore, you should use the command “`ls -a`” to list them.

Stage #4: Run Eclipse and Set Your Workspace

Your workspace should be under your home directory, but every user has a different username, and therefore a different path for his/her home directory. Consequently, the first time you run Eclipse, you will have the workspace at an invalid path. You should fix this for the first time you run Eclipse.

Your Eclipse executable resides in the folder:

```
/home/ YOUR_ACCOUNT_NAME/Teaching.Codes/eclipse/eclipse
```

Run Eclipse and update the workspace path by replacing `YOUR_ACCOUNT_NAME` with your user name.