

Installation

Installing Java

The JRE(Java Runtime Environment) is usually already installed on the operating system. But with the JRE one can only run Java programs. To be able to develop programs we need the JDK (Java Development Kit).

The Website <http://www.oracle.com/technetwork/java/javase/downloads/> contains the Java downloads. I suggest installing the **newest JDK version**.

Take note of where the installation directory. We will later need to direct Eclipse to this directory.

The screenshot shows the Oracle Java Platform, Standard Edition download page. It features three main columns: 'Java SE 7u6', 'JDK', and 'JRE'. The 'JDK' column has a 'DOWNLOAD' button with a red arrow pointing to it. Below the buttons are links for 'JDK 7 Docs' and 'JRE 7 Docs', each containing links for 'Installation Instructions', 'ReadMe', and 'ReleaseNotes'. A text box on the left explains that JavaFX 2.2 is bundled with the JDK and provides instructions on how to run or develop Java applications.

Installing Eclipse (incl. e(fx)clipse)

You can also program Java with a simple text editor and the command line. But usually a development environment is used, which is essential for real projects.

We use Eclipse here as it is free and widely used (there are others, of course, such as Netbeans or IntelliJ IDEA).

Eclipse consists of a core program and countless (!) Plugins that can be installed as needed. We use a preconfigured package with Eclipse and the plugins that we need.

Go to <http://efxclipse.org/install.html> and download Eclipse 4.2 SDK as a "Preconfigured distro".

Prefconfigured distro for the lazy

Eclipse 3.7.2

- Eclipse 3.7.2 SDK
- e(fx)clipse 0.1.0
- Xtext 2.3.0
- EGit 2.0.0
- WST-XML 3.3.2
- Subclipse 1.8.9
- Windows-Only: Mercurial 1.9.3 and Mercurial-Hg-Binaries 1.9.3

Win 32bit Win 64bit OS-X 64bit

Linux 32bit Linux 64bit

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Eclipse Configuration

Start Eclipse. Eclipse prompts you for the location where your projects are stored. This place is called a "workspace". One can easily have multiple workspaces.

Close the "Welcome" screen that appears after the start.

Open the Menu *Window / Preferences* and go to *Java / Installed JREs*. Click *Add ...* and select *Standard VM*. Then choose under *JRE Home* the directory where you installed the Java JDK and click *Finish*. Now select *jdk1.7...* as default. Delete the JRE that was previously there. Then click *OK*.

Eclipse Projects

To create a new Eclipse project, select *File / New / Java Project*.

Importing projects

You will get some preconfigured Eclipse projects containing our exercises. These can be imported as follows: *File / Import ... / Existing Projects into Workspace*. If it's a zip file, select archive file and choose the file. Now, one or many projects from the zip file should appear below. Select the desired project and press *Finish*.

Exporting projects

To export an Eclipse project, click with the right mouse button on the project and select *Export ...* Select *Archive File*. Then you may specify the export location and file name.

Installing JavaFX Scene Builder

For developing graphical user interfaces we use the JavaFX Scene Builder.

Download the latest JavaFX Scene Builder under <http://www.oracle.com/technetwork/java/javafx/downloads/> and install it.

JavaFX Scene Builder 1.0

You must accept the **OTN License Agreement** to download JavaFX Scene Builder

☐ **Accept** License Agreement | ☒ **Decline** License Agreement

JavaFX Scene Builder is available for Mac and Windows.

↓ Windows 32-bit (msi)

↓ Windows 64-bit (msi)

↓ Mac OS X (dmg)

↓ Samples

[Installation Instructions](#)

[Third Party License Readme](#)