

## Software specifications:

Chapter number	Software required (With version)	Free/Proprietary	Download links to the software	OS required
1	JDK 8	Free	<a href="http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html">http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html</a>	Windows, or Mac OS X, or Linux
2	SBT 0.14	Free	<a href="http://www.scala-sbt.org/download.html">http://www.scala-sbt.org/download.html</a>	Windows, or Mac OS X, or Linux
3	Source Code Editor or IDE	Free	For example, one of: <a href="http://www.sublimetext.com/">http://www.sublimetext.com/</a> <a href="http://www.jetbrains.com/idea/">http://www.jetbrains.com/idea/</a> <a href="http://notepad-plus-plus.org/">http://notepad-plus-plus.org/</a>	Windows, or Mac OS X, or Linux

## Detailed installation steps (software-wise):

The steps should be listed in a way that it prepares the system environment to be able to test the codes of the book:

### JDK:

- a. Download the appropriate version of the JDK 8 for your platform – Windows, Linux, Mac OS X; 32-bit or 64-bit

- b. If running on Windows, run the installer. If running on Mac OS X, open the "dmg" archive to install. If running on Linux, decompress the archive to a directory XYZ, and add the bin subdirectory to the PATH variable:  
`export PATH=XYZ/bin:$PATH`  
# the above only if running on Linux
- c. You should be able to run the java and javac commands in the terminal. Enter javac to see if it is available (you will never invoke it directly, but running it verifies that it is available):  
`javac`

## SBT:

- d. Download the installation file for your platform from <http://www.scala-sbt.org/download.html>. If you are running on Windows, this is the msi installer file. If you are running on Linux or OS X, this is the zip or tar archive file.
- e. Install SBT. If you are running on Windows, simply run the installer file. If you are running on Linux or OS X, unzip the contents of the archive in your home directory.
- f. Open a Command Prompt if you are running on Windows, or a terminal window if you are running on Linux or OS X.
- g. Create an empty directory called scala-concurrency-examples:  
`$ mkdir scala-concurrency-examples`
- h. Change your path to the scala-concurrency-examples directory:  
`$ cd scala-concurrency-examples`
- i. Create a single source code directory for our examples:  
`$ mkdir src/main/scala/org/learningconcurrency/`
- j. Now, use your editor create a build definition file, named build.sbt. This file defines various project properties. Create it in the root directory of the project. Add the following contents to the build definition file (note that the empty lines are mandatory):  
`name := "concurrency-examples"`  
  
`version := "1.0"`  
  
`scalaVersion := "2.11.1"`
- k. Finally, go back to the terminal, and run SBT from the root directory of the project:  
`$ sbt`

- I. SBT will start an interactive shell, which we will use to give SBT various build commands. The compile command compiles all the files in the project. The run command runs the application from the project.
- > run

## **Source Code Editor:**

1. Download and install some source code editor.
2. Open and edit specific file.
3. Save the file before running it in SBT.