

VSCode Setup Java

Thijmen Graat

December 11, 2024

1 Installation guide for Windows

1. Install JDK from here ¹⁾
2. Install VSCode from here²⁾
 - (a) During installation I recommend turning on "Add 'Open with Code' action to Windows Explorer file context menu"
3. After installing those two things, you **can** restart your PC to make sure JDK is installed correctly.
4. Now open 'configuration' screen on windows and search for: 'system variables'
5. Select 'System variables' at the bottom of the pop-up screen and search for the line: "JAVA_HOME" with value: "C:\Program files\Java\jdk-21" at the **second** window. Under 'Systemvariables'. If you installed a newer version of JDK, a newer version can be shown there.
 - (a) **JAVA_HOME does not show correct JDK version** - if you installed version 23 or higher. The directory must show: jdk-23 instead of jdk-21. If you installed jdk-23 but it shows jdk-19 (for example): you can select the JAVA_HOME variable and press "edit". Now in the field: 'value of' you can fill out: C:\Program files\Java\jdk-21
 - (b) **There is no variable JAVA_HOME** - If JAVA_HOME is not shown. Press 'new'.
 - i. *name of*: JAVA_HOME
 - ii. *value of*: C:\Program files\Java\jdk-21 (or in case you installed JAVA somewhere else: you must change the path to that location).
6. Now you **must** restart your system
7. Open a command prompt by selecting the search icon in windows and type: 'cmd'

8. Type 'Java' and press enter.
9. If you see a list of commands. The installation was successful
10. If you see 'internal or external command not found' the installation was **not** successful. Try checking your PATH variables and if you installed JAVA correctly.
11. Now for the extensions you can use in VSCode, these can be found at the download links section. If you install all these extensions. It **should** work. However, it might be that some additional extensions are introduced during the course or that you need other extensions. Try to play with them and run the test code.

2 Download links:

1. Java - <https://www.oracle.com/java/technologies/downloads/>
2. VSCode - <https://code.visualstudio.com/download>

2.1 VSCode extensions:

1. Test Runner for Java - <https://marketplace.visualstudio.com/items?itemName=vscjava.vscode-java-test>
2. Gradle for Java - <https://marketplace.visualstudio.com/items?itemName=vscjava.vscode-gradle>
3. Debugger for Java - <https://marketplace.visualstudio.com/items?itemName=vscjava.vscode-java-debug>
4. Java - <https://marketplace.visualstudio.com/items?itemName=Oracle.oracle-java>
5. Extension Pack for Java - <https://marketplace.visualstudio.com/items?itemName=vscjava.vscode-java-pack>