

Emacs Support for Java 🚧

Description	Keystroke	Function	Note	
Java Programming Language Support Emacs has built-in support for Java. The java-mode is one of the cc-modes. Emacs 30 and later also provides the tree sitter java-ts-mode. • PEL additional support for Java is activated by pel-use-java customizable user-option. 🚧 This page is a placeholder. It will be filled with more information as I perform more testing with Java code and the various facilities provided by tree-sitter and LSP. See also: • 🔗 Customize Last updated on: 2025-10-09				
Open this PDF file. See also: 🔗 Help/Info	<f11> SPC J <f1> <f12> <f1>	(pel-help-pdf & optional OPEN-WEB-PAGE)	Open the 🔗 I - Java local PDF. If the prefix argument (like C-u or M--) is used, then it opens the remote GitHub hosted raw PDF instead. If the pel-flip-help-pdf-arg user-option is set it's the other way around.	
🔗 Customize PEL Java support	<f11> SPC J <f2> <f12> <f2>	(pel-customize-pel & optional OTHER-WINDOW)	Customize PEL Java support: pel-use-java • If OTHER-WINDOW is non-nil (use C-u), display in another window.	
🔗 Customize Emacs Java support	<f11> SPC J <f3> <f12> <f3>	(pel-customize-library & optional OTHER-WINDOW)	Customize Emacs Java support: java, c • If OTHER-WINDOW is non-nil (use C-u), display in another window.	

Java & Emacs Reference

Java Language	• Java programming language @ Wikipedia • Java Versions @ Wikipedia • Java Editions @ Wikipedia • JRE, Java Runtime Environment @ Wikipedia			
JDK: Java Development Kit	• OpenJDK : Open Java Development Kit • OpenJDK @ Wikipedia • OpenJDK Builds @ Wikipedia • Eclipse Adoptium : Temurin @ Wikipedia • Eclipse Adoptium Temurin @ home		Long Term Support (LTS) versions of JDK: • Java 8 (LTS) • Java 11 (LTS) • Java 17 (LTS) • Java 21 (LTS) • Java 25 (LTS)	
• Install JDK	• Installing on macOS: • with Temurin • with homebrew	• Eclipse Temurin provides a free and open source implementation of the OpenJDK, provides several versions (including 25) and is well trusted. It provides a macOS installer. Several versions can be installed. • On a Apple ARM architecture system, it installs Eclipse Temurin 25+36-LTS to <code>/Library/Java/JavaVirtualMachines/temurin-25.jdk</code> • Executing 'java --version' prints: openjdk 25 2025-09-16 LTS OpenJDK Runtime Environment Temurin-25+36 (build 25+36-LTS) OpenJDK 64-Bit Server VM Temurin-25+36 (build 25+36-LTS, mixed mode, sharing)		
		• Installing on Linux: • Eclipse Temurin also supports Linux. • The installation depends on your Linux distribution. The site provides a tarsal file and instructions to use the various package managers. • Depending on your distribution the package manager provided package may not support the latest JDK version.		
	• Using multiple JDK versions	It is possible to install several JDK inside a system.		
		• Select the JDK to use by setting the JAVA_HOME environment variable to the absolute path of the /Contents/Home sub-directory of the selected JDK directory. • For example, on macOS, set JAVA_HOME to <code>/Library/Java/JavaVirtualMachines/temurin-21.jdk/Contents/Home</code> to select version 21 of Temurin if there are multiple versions installed. If there is only one version that version is used even if there is no JAVA_HOME environment variable set. If there are several versions installed and no JAVA_HOME, <i>it seems</i> that the latest is used.		
Query Java support	Tool from USRHOME	• info-java prints information related to Java environment available to the shell. • use-sdkman activates sdkman in the current shell. You must install sdkman separately.		
Java Build Tools				
• sbt	• sbt - Simple Built Tool • sbt @ Wikipedia • sbt home • sbt @ Github • sbt 1.x Documentation • learning sbt • sbt by example • sbt 2.x Documentation (preliminary as of Oct 2025)	sbt is a built tool that can build Java, Scala and Kotlin projects. It is the de-factor build tool for Scala and its mainly written in Scala with some Java.	Installing sbt • The best way to install sbt is to use the sdkman tool and run the sdk install sbt command. • This requires sdkman properly installed and available in your shell. • The USRHOME system provides a command you can use to inject support of sdkman to your shell without having to modify the startup scripts. USRHOME provides the envfor-sdkman source script that is invoked by the use-sdkman alias. • Once this script is executed, the sdk command becomes available.	