

# Spring Tools |4

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### Prerequisite

- Install Java JDK
- Set Environments; PATH, ...

```
// 설치 후 shell에서 자바 버전 확인
$ java -version

// change directory @mac
$ cd /Library/Java/JavaVirtualMachines/

// JAVA_HOME path 설정
// Shell이 bash인 경우 path 설정
$ vi ~/.bash_profile

// 환경 변수 설정 후 jdk 버전 확인
$ java -version
```

```
export
JAVA_HOME=/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home
```

### for Eclipse

#### Settings

1. Download jar file
2. Unpack jar file
3. Executable Folder; <jar filename folder>/contents
4. Edit **SpringToolSuite4.ini** file
  - -vm; specify javaw.exe with full path
  - -javaagent; add lonbok.jar with full path
  - ? -Dosgi.requiredJavaVersion; 1.8? 11?

```
◦
  -startup
  plugins/org.eclipse.equinox.launcher_1.5.700.v20200207-2156.jar
  --launcher.library
  plugins/org.eclipse.equinox.launcher.win32.win32.x86_64_1.1.1200.v
  20200508-1552
  -product
  org.springframework.boot.ide.branding.sts4
```

```
--launcher.defaultAction  
openFile  
-vm  
C:/.../java-1.8.0-openjdk-1.8.0.212-1/bin/javaw.exe  
-vmargs  
-Dosgi.requiredJavaVersion=1.8  
-Dosgi.dataAreaRequiresExplicitInit=true  
-Xms256m  
-Xmx2048m  
--add-modules=ALL-SYSTEM  
-javaagent:C:\...\lombok.jar
```

## Open Project

1. Open Workspace
2. Import Project(Package Explorer)
3. Select Project Type(Gradle | Maven)
4. Browse Project Root Directory
5. Check Imported Packages in Package Explorer
6. STS4; [Window] → [Show View] → [Project Explorer]
7. Change Text File Encoding; [Preferences] → [General > Workspace] →
  - Text file encoding; Other: **UTF-8**
  - New text file line delimiter; Other: **Unix**

## Run

- [Boot Dashboard]
  - select a package & run

## Lombok

[Project Lombok](#)

- [\[Lombok\] 롬복 설치 및 STS\(eclipse\) 연동하기](#)

## for Visual Studio Code

### Install Extensions

- Extension Pack for Java by Microsoft
- ~~Spring Boot Tools by Pivotal~~ Spring Boot Extension Pack by Pivotal

## Create Project

- Command Palette (⌘ + ⇧ + P, Ctrl+Shift+P); spring initializr
  1. Choose One(Add Starters/Create a Gradle Project/Create a Maven Project)
  2. Specify Spring Boot version;
  3. Specify project language; Java / Kotlin / Groovy
  4. Input Group Id; com.example
  5. Input Artifact Id; demo
  6. Specify packaging type; Jar / War
  7. Specify Java version; 11/ 17 / 8
  8. Search for dependencies;
    - **Spring Boot DevTools** (\*)
    - **Spring Web** (\*)
  9. Choose Directory to make a project

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