

Install and setup Scala, SBT, IntelliJ IDEA on Windows Step by Step

To install and set up Scala, SBT, and IntelliJ IDEA on Windows, follow these steps:

Step 1: Install Java Development Kit (JDK)

1. **Download JDK:** Go to the Oracle JDK download page <https://www.oracle.com/in/java/technologies/downloads/#jdk22-windows> and download the installer for Windows.
2. **Install JDK:** Run the installer and follow the on-screen instructions to complete the installation.

Step 2: Install Scala

1. **Download Scala:** Go to the Scala download page and download the Scala binaries for Windows.
2. **Install Scala:**
 - Unzip the downloaded Scala archive to a directory of your choice (e.g., C:\scala).
 - Add the bin directory of the Scala installation to your system's PATH environment variable:
 - Right-click on This PC or Computer on your desktop or in File Explorer.
 - Select Properties.
 - Click on Advanced system settings.
 - In the System Properties window, click on the Environment Variables button.
 - In the Environment Variables window, find the Path variable in the System variables section, select it, and click Edit.
 - Click New and add the path to the bin directory of your Scala installation (e.g., C:\scala\bin).
 - Click OK to close all the windows.

Step 3: Install SBT (Scala Build Tool)

1. **Download SBT:** Go to the SBT download page and download the installer for Windows.
2. **Install SBT:** Run the installer and follow the on-screen instructions to complete the installation.
3. **Verify SBT Installation:**
 - Open Command Prompt.
 - Type `sbt sbtVersion` and press Enter. This should display the version of SBT installed.

Step 4: Install IntelliJ IDEA

1. **Download IntelliJ IDEA:** Go to the JetBrains IntelliJ IDEA download page <https://www.jetbrains.com/idea/download/other.html> and download the Community Edition installer for Windows.
2. **Install IntelliJ IDEA:** Run the installer and follow the on-screen instructions to complete the installation.

Step 5: Set Up IntelliJ IDEA for Scala Development

1. **Launch IntelliJ IDEA:** Open IntelliJ IDEA from the Start menu or desktop shortcut.
2. **Install Scala Plugin:**

- Go to File -> Settings (or Ctrl+Alt+S).
 - In the Settings window, go to Plugins.
 - Click on the Marketplace tab and search for Scala.
 - Click Install to install the Scala plugin.
 - Restart IntelliJ IDEA if prompted.
3. **Create a New Scala Project:**
- Go to File -> New -> Project.
 - Select Scala from the list of project types.
 - Select SBT as the build tool.
 - Click Next.
 - Fill in the project details (name, location, etc.) and click Finish.

Step 6: Verify Setup

1. Create a Scala File:
 - Right-click on the src/main/scala directory in the Project view.
 - Select New -> Scala Class.
 - Name the class HelloWorld.
2. Write Scala Code:
 - Open the HelloWorld.scala file and add the following code:

```
object HelloWorld {  
    def main(args: Array[String]): Unit = {  
        println("Hello, world!")  
    }  
}
```
3. Run the Scala Program:
 - Right-click on the HelloWorld object in the editor and select Run 'HelloWorld'.
 - The output Hello, world! should appear in the Run window at the bottom of IntelliJ IDEA.