

Spring and Spring Boot Framework



Building Web Application With Spring Boot
First Steps

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Spring vs Spring Boot

Spring Framework

Spring framework provides comprehensive infrastructure support for developing Java applications

Spring Boot

- Spring Boot is basically an extension of the Spring framework which eliminated the boilerplate configurations required for setting up a Spring application
- Spring Boot offers a fast way to build applications
- With Spring Boot you can focus more on business features and less on infrastructure
- Spring Boot doesn't generate code or make edits to your files. Instead, when you start up your application, Spring Boot dynamically wires up beans and settings and applies them to your application context
- Spring Boot is simply an extension of Spring itself to make the development, testing, and deployment more convenient

Spring vs Spring Boot

Spring Framework

```
<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-web</artifactId>
  <version>5.1.0.RELEASE</version>
</dependency>
<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-webmvc</artifactId>
  <version>5.1.0.RELEASE</version>
</dependency>
```

Spring Boot

```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-web</artifactId>
  <version>2.0.5.RELEASE</version>
</dependency>
```

More Examples: <https://www.baeldung.com/spring-vs-spring-boot>

Spring Boot Guides

<https://spring.io/guides>

Spring Initializer

<https://start.spring.io/>

Spring Boot Maven Plugin

- It collects all the jars on the classpath and builds a single, runnable "über-jar", which makes it more convenient to execute and transport your service.
- It searches for the public static void main() method to flag as a runnable class.
- It provides a built-in dependency resolver that sets the version number to match [Spring Boot dependencies](#). You can override any version you wish, but it will default to Boot's chosen set of versions.

Spring Boot Maven Plugin

- `spring-boot:build-info`
- `spring-boot:help`
- `spring-boot:repackage`
- `spring-boot:run`
- `spring-boot:start`
- `spring-boot:stop`

Building an Application with Spring Boot

<https://spring.io/guides/gs/spring-boot/>

Building a RESTful Web Service

<https://spring.io/guides/gs/rest-service/>

Spring Dev Tools

- Live Reload
 - <https://docs.spring.io/spring-boot/docs/current/reference/html/using-boot-devtools.html>
- Tutorial
 - <https://www.romaniancoder.com/spring-boot-live-reload-with-intellij/>
 - <https://stackoverflow.com/questions/28415695/how-do-you-set-a-value-in-the-intellij-registry>

Postman Team Workspace

References

- <https://dzone.com/articles/understanding-the-basics-of-spring-vs-spring-boot#targetText=Spring%20Boot,involvement%20in%20developing%20an%20application.>
- <https://spring.io/guides/gs/spring-boot/>
- <https://www.baeldung.com/spring-vs-spring-boot>
- <https://docs.spring.io/spring-boot/docs/current/reference/html/howto-spring-mvc.html>
- <https://docs.spring.io/spring-boot/docs/current/reference/html/common-application-properties.html>
- <https://dzone.com/articles/what-is-spring-boot>