



Spring Boot

An introduction

Marianna Corona

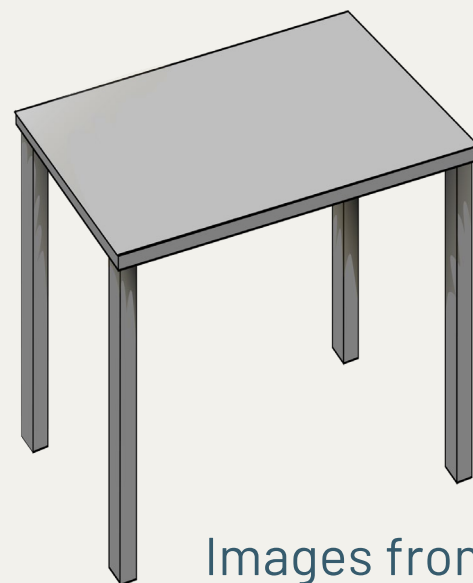
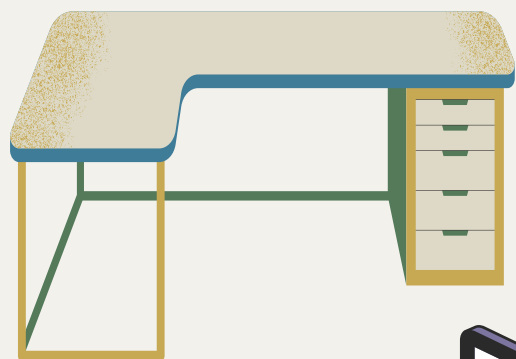


Useful concept: Framework

Single Tools



Framework



Spring Boot

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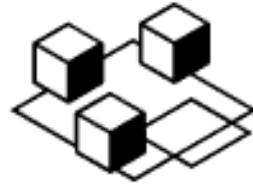
Images from: <https://www.canva.com/>

What is Spring Framework

“Spring is an **open-source** application **framework** that provides infrastructure support for developing Java applications.

Definition from: <https://blogs.sap.com/2023/10/01/build-and-launch-a-simple-spring-boot-appweb-service-on-sap-btp/>

What Spring can do



Microservices

Quickly deliver production-grade features with independently evolvable microservices.



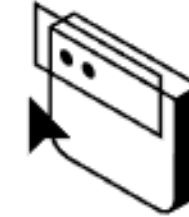
Reactive

Spring's asynchronous, nonblocking architecture means you can get more from your computing resources.



Cloud

Your code, any cloud—we've got you covered. Connect and scale your services, whatever your platform.



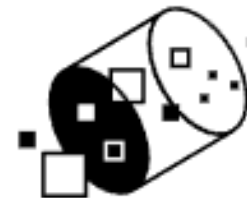
Web apps

Frameworks for fast, secure, and responsive web applications connected to any data store.



Serverless

The ultimate flexibility. Scale up on demand and scale to zero when there's no demand.



Event Driven

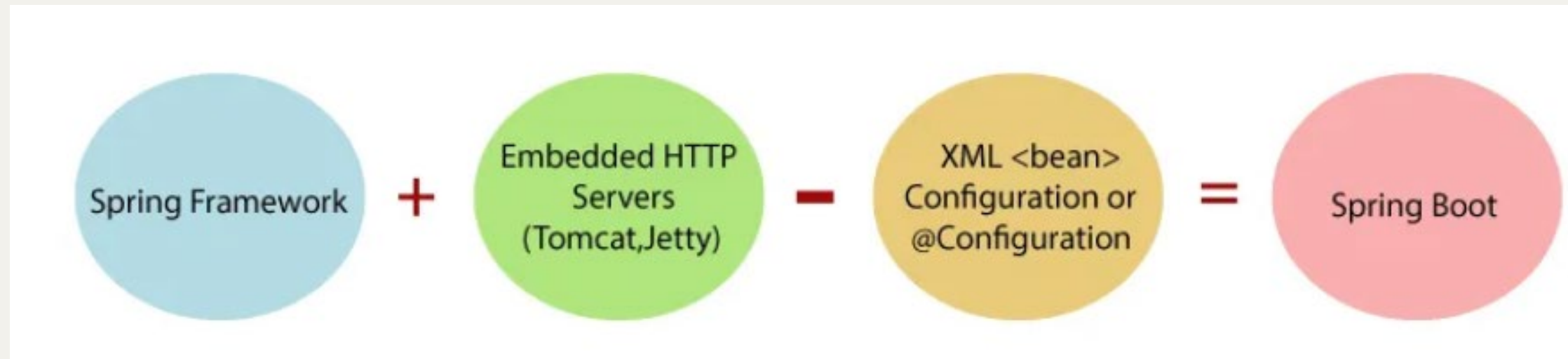
Integrate with your enterprise. React to business events. Act on your streaming data in realtime.



Batch

Automated tasks. Offline processing of data at a time to suit you.

What is Spring Boot



Spring Boot is basically an **extension** of the Spring framework which **eliminates the boilerplate configurations** and provides Java developers with a platform to get started with an **auto configurable production-grade Spring application.**

Definition from: <https://blogs.sap.com/2023/10/01/build-and-launch-a-simple-spring-boot-appweb-service-on-sap-btp/>
Image from: <https://medium.com/the-legend/spring-boot-31097079b349>

Why choose Spring Boot

- Part of the big Spring Ecosystem
- Fast
- Embed Server (Starting App =starting server)
- Good documented

Suggested lecture:

<https://www.interviewbit.com/spring-boot-interview-questions/>

Three ways to use Spring Boot

- Installing Springboot
- Choosing New spring starter project in the IDE
- Opening Spring initializr

start.spring.io

spring initializr

Project

☒ Gradle - Groovy ☐ Gradle - Kotlin ☐ Maven

Language

☒ Java ☐ Kotlin ☐ Groovy

Spring Boot

☐ 3.2.0 (SNAPSHOT) ☐ 3.2.0 (M3) ☒ 3.1.4 ☐ 3.0.12 (SNAPSHOT) ☐ 3.0.11 ☐ 2.7.17 (SNAPSHOT) ☐ 2.7.16

Project Metadata

Group

Artifact

Name

Description

Package name

Packaging ☒ Jar ☐ War

Java ☐ 21 ☒ 17 ☐ 11 ☐ 8

Dependencies ADD ... CTRL + B

No dependency selected

Spring Web

Spring data (JPA)

GENERATE CTRL + G EXPLORE CTRL + SPACE SHARE...



Spring Boot



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Thank you.

Questions?