# MasterSpringBoot3&SpringFramework6

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**GIT REPO**: <https://github.com/in28minutes/master-spring-and-spring-boot/tree/main/01-spring>

**IntelliJ REPO**: <https://github.com/ok2073/learn-spring-framework.git>

## Bean methods

A @Bean method is a method that defines a bean in Spring. A bean is an object that is managed by Spring and can be injected into other beans. The @Bean annotation tells Spring that the method should be called when the application starts up, and the returned object should be registered as a bean.

A close-up of a service

Description automatically generated

A computer screen shot of a program

Description automatically generated

A screen shot of a computer program

Description automatically generated

## Record

A close-up of a computer screen

Description automatically generated

## Spring container

A screenshot of a computer

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A close-up of a sign

Description automatically generated

**Spring container** is also calle **Spring context**  or **IOC container**.

There are two kinds of containers:

A close-up of a text

Description automatically generated

A black text on a white background

Description automatically generated

## Pojos vs Java beans vs Spring beans

Every Java class become a **POJO**.

To be a **Java bean** a class must:

* have no argument constructor
* have getters and setters to access to its properties
* implement Serializable interface

Any object managed by Spring is called **Spring Bean**.

## Printing all beans (managed by Spring framework)

A screen shot of a computer code

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## @Primary annotation

The **@Primary** annotation in Spring Boot is used to give higher preference to a bean when there are multiple beans of the same type.

A screen shot of a computer

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## @Qualifier annotation

The @Qualifier annotation in Spring is used to differentiate a bean among multiple beans of the same type. When multiple beans of the same type are present, the @Qualifier annotation is used to specify which bean should be injected. This helps Spring to resolve the ambiguity and know exactly which bean to use for autowiring.

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