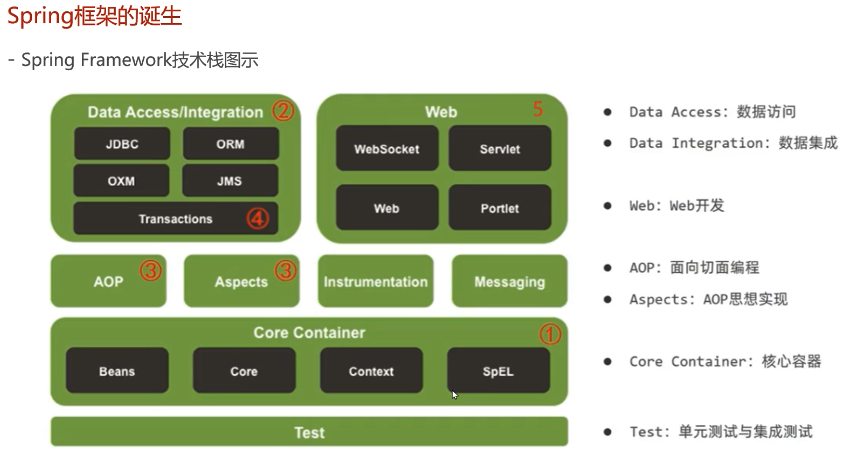
Spring Framework Crash Course

Demo Based SpringBoot

# Intro

## Spring-Framework

<https://spring.io/projects/spring-framework>



## Build Tool

[Maven](https://mvnrepository.com/artifact/org.springframework/spring-context/5.3.18)/Gradle

(Artifact repo -> “set me up” for .m2 settings, etc.)

## Start Project

### Maven->pom.xml

For manual create project using below for quick start.

|  |
| --- |
| <dependency>  <groupId>org.springframework</groupId>  <artifactId>spring-context</artifactId>  </dependency> |

### Spring initializr

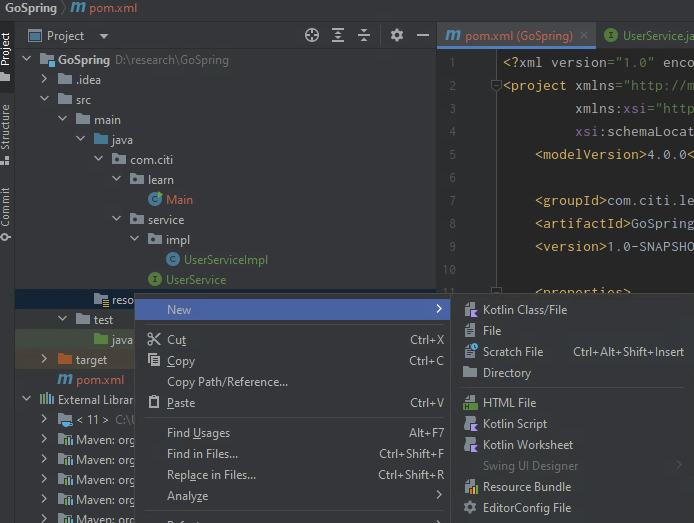
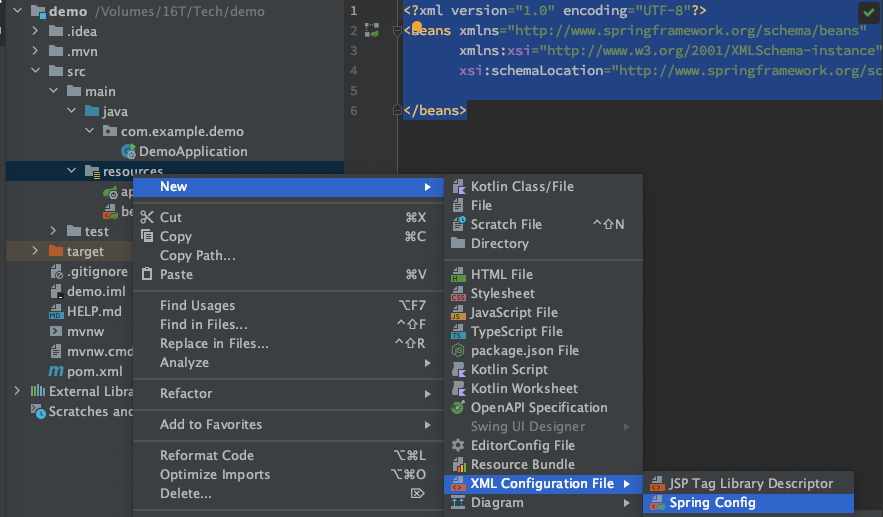
<https://start.spring.io/>



## IDE - IntelliJ

### Ultimate VS Community

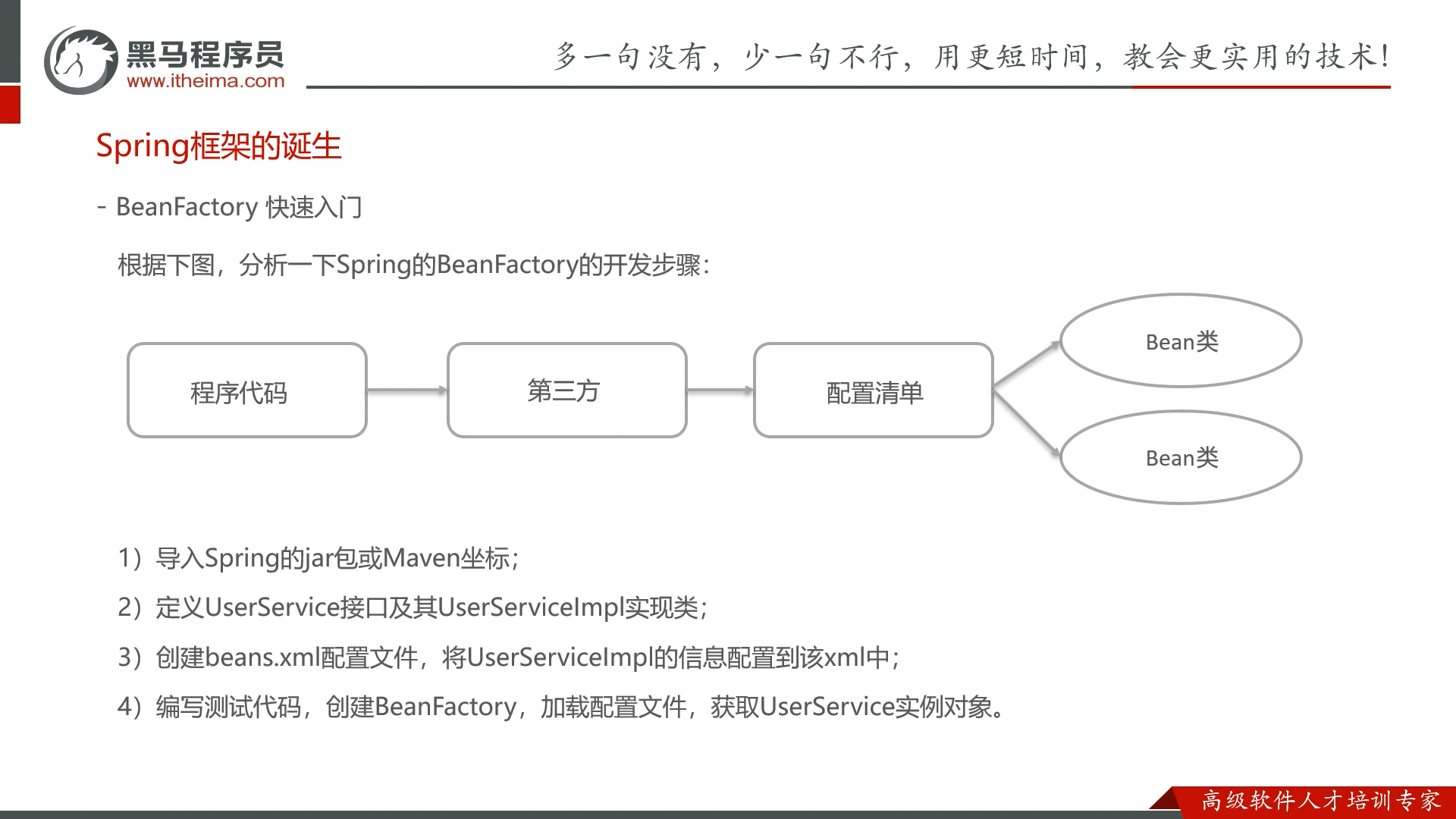
auto recognizes Spring



|  |
| --- |
| <?xml version="1.0" encoding="UTF-8"?>  <beans xmlns="http://www.springframework.org/schema/beans"  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans.xsd">  </beans> |

# XML-Bean

### **BeanFactory**



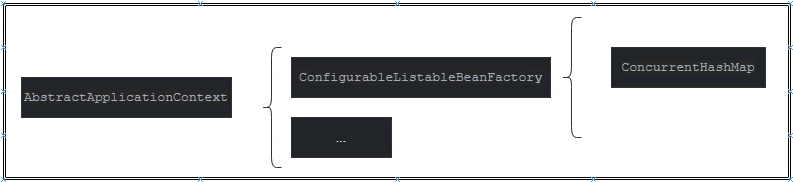


Spring源码底层封装,并不直接使用

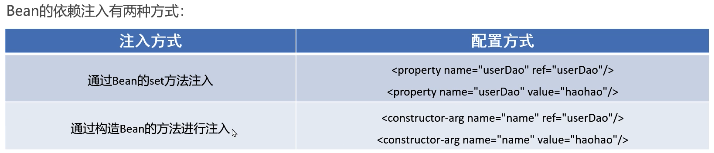
See code “XMLBeanNativeFactory”

### ApplicationContext

Spring Container (Encapsuled BeanFactory)







### XML Attibutes

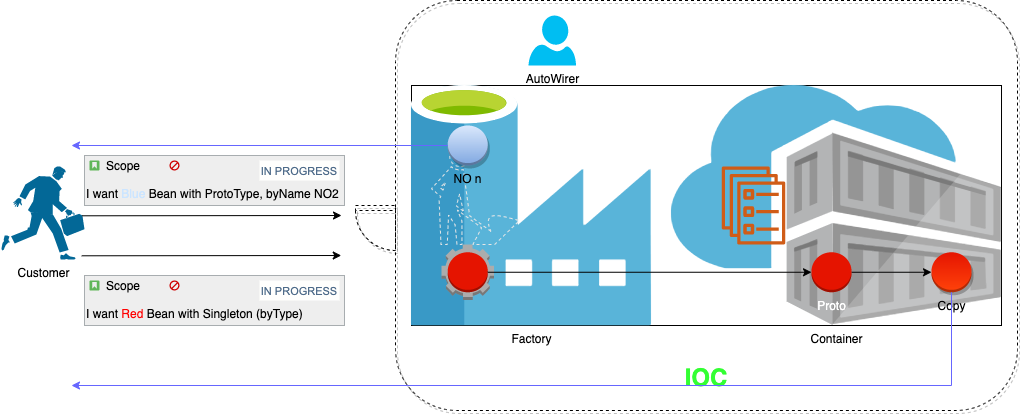


#### Scope Profile Lazy Depends-on or Primary

Scope for example:

Prototype VS Singleton

Note the Singleton default to ByName



# XML VS Annotation

|  |  |  |
| --- | --- | --- |
| XML | Annotation | Attribute(MEF) |
| scope=“singleton” | @Scope(“singleton”)  Note: prototype disable method-level | [PartCreationPolicy(CreationPolicy.Shared)] |
| Method-level: factory-method=“” | @Bean |  |
| Beans.xml: <bean xxx ></bean> | @Component / @Configuration | [Export(typeof(Interface))] |
| primary=“true” | @Primary |  |
| lazy-init=“true” | @Lazy | Lazy<T> |
| depends-on= “pojo” | @Import … | [Import] or [ImportingConstructor] or [ImportMany()] |

# Annotation

Annotation-ImportResource

Annotation-@Component @Configuration @Repository