**Spring Fundamentals**

# Course Overview

## Course Overview

# Introduction

## Introduction

## What is Spring?

## Update

## The Problem

## Business Focus

## The Solution

## Business Focus Revisited

## How It Works

## Summary

# Architecture and Project Setup

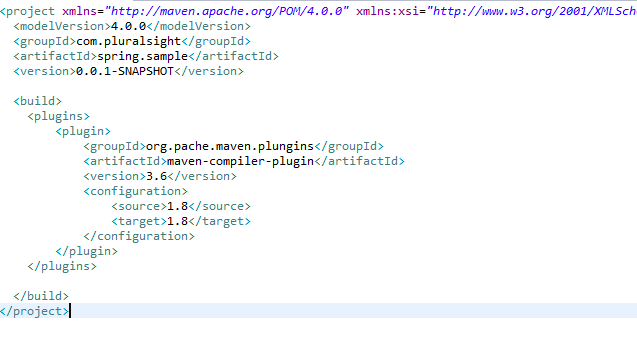
## Sample App Intro

## Architecture

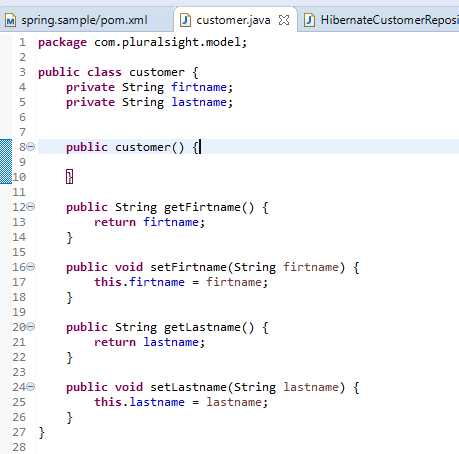
## Prerequisites

## Sample App Setup

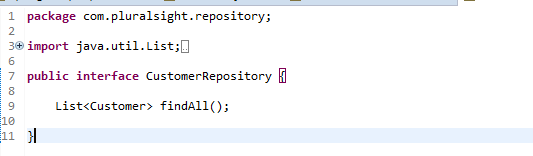
## Sample App pom.xml Demo

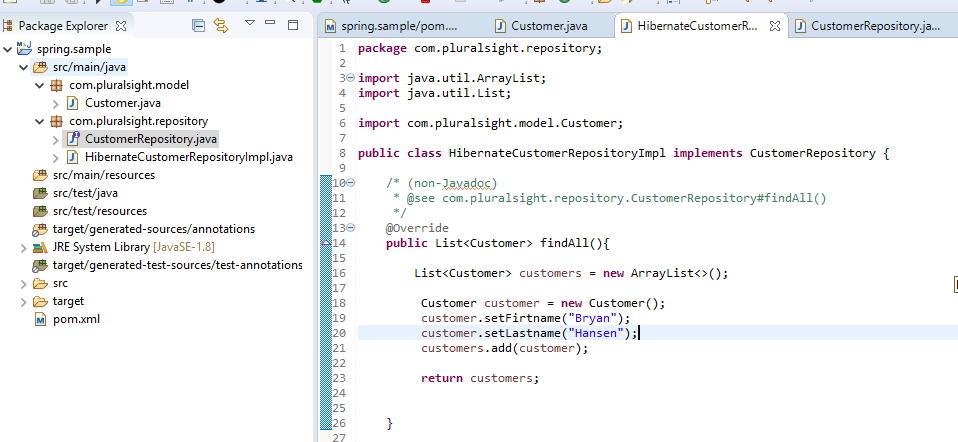


## Sample App Add Model Demo

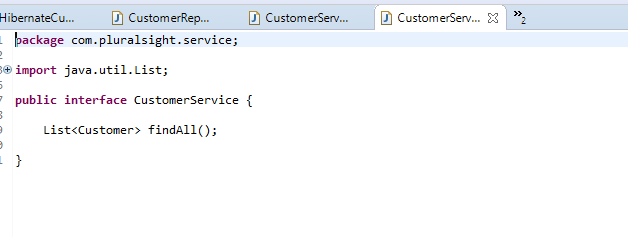


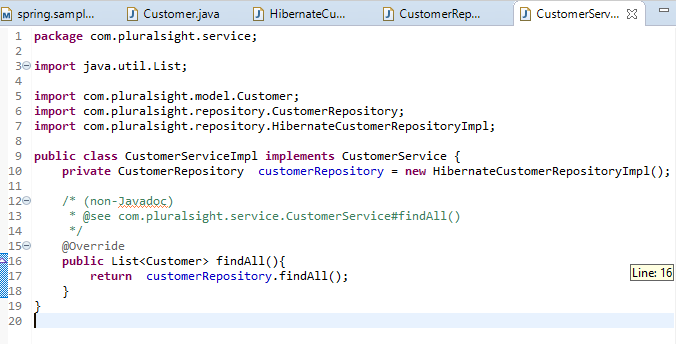
## Sample App Add Repository Demo



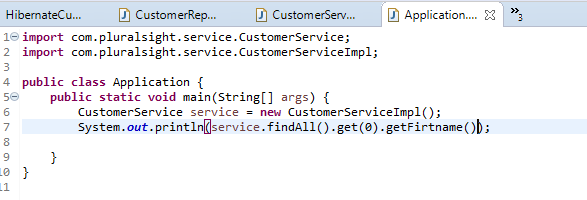


## Sample App Add Service Demo





## Sample App Run Application Demo



## Configuration

## Pain Points Walkthrough Demo

## Spring Download

## Spring Download Maven Demo

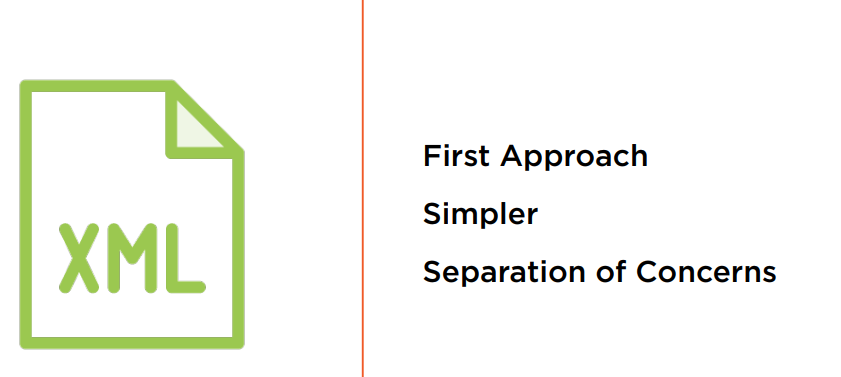


## Summary

# Spring XML Configuration

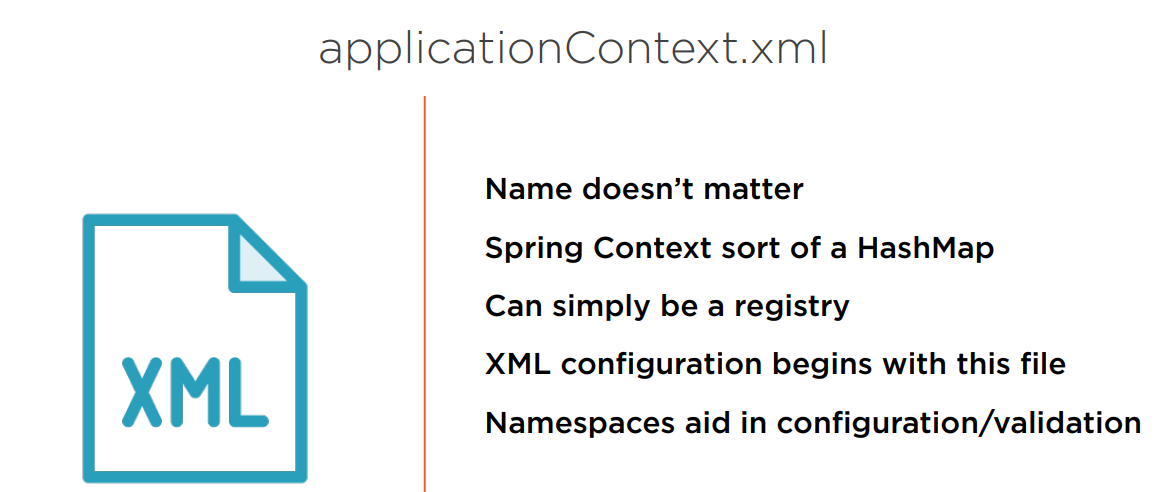
## XML Config Introduction

## Why Use XML?

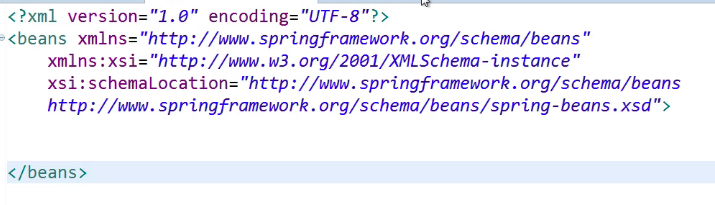


## Copy Demo

## Application Context



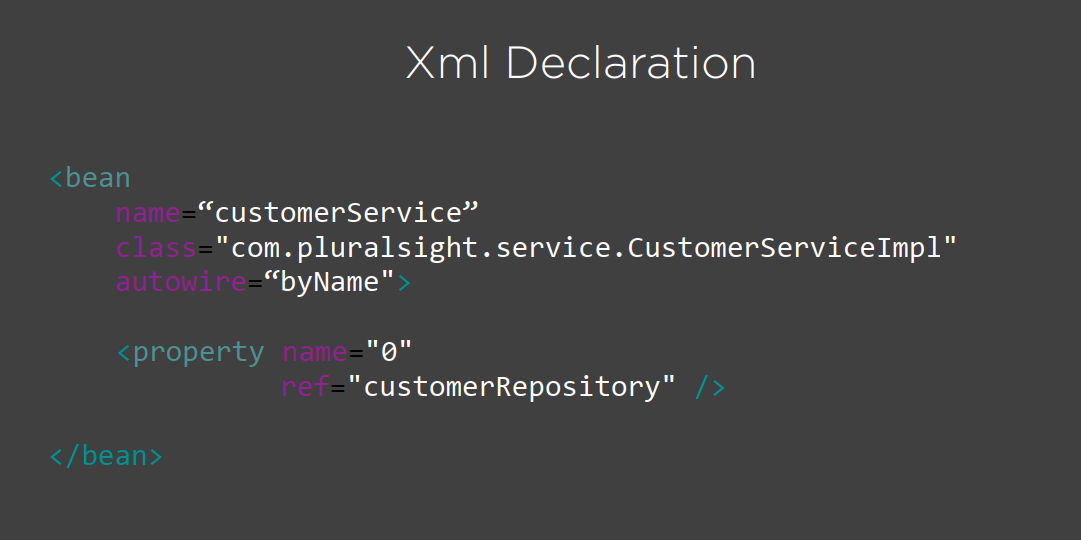
## Application Context Demo

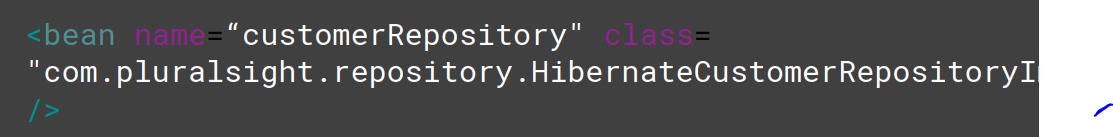


## Namespaces

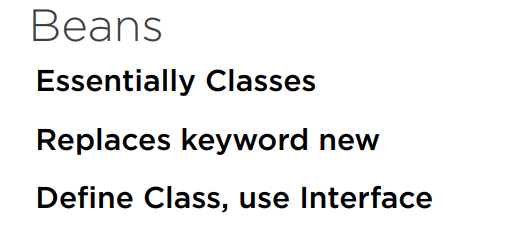


## XML Declaration

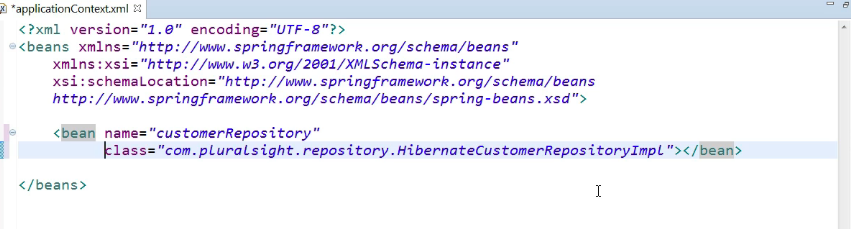




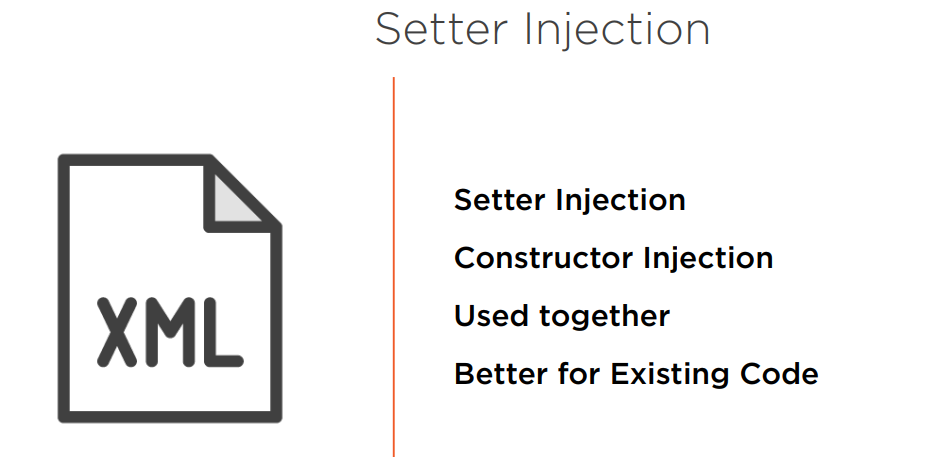
## Beans



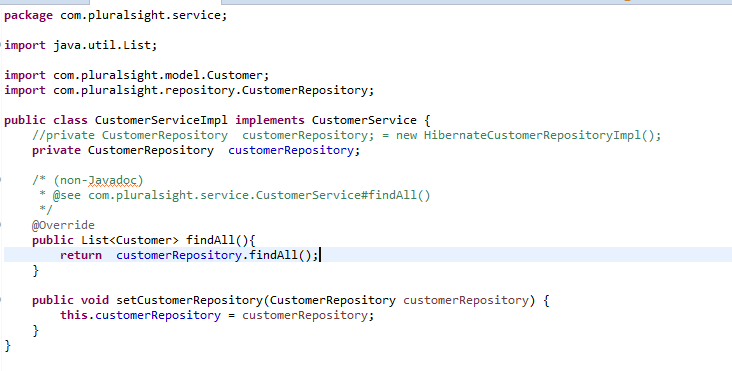
## Bean Demo

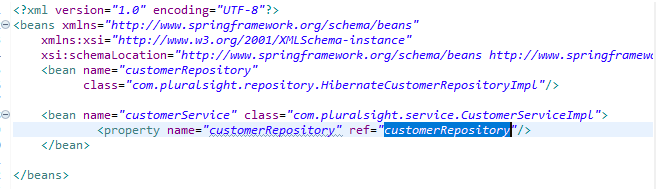


## Setter Injection



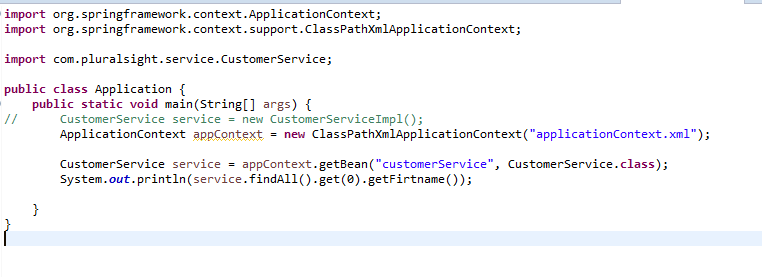
## Setter Injection Demo



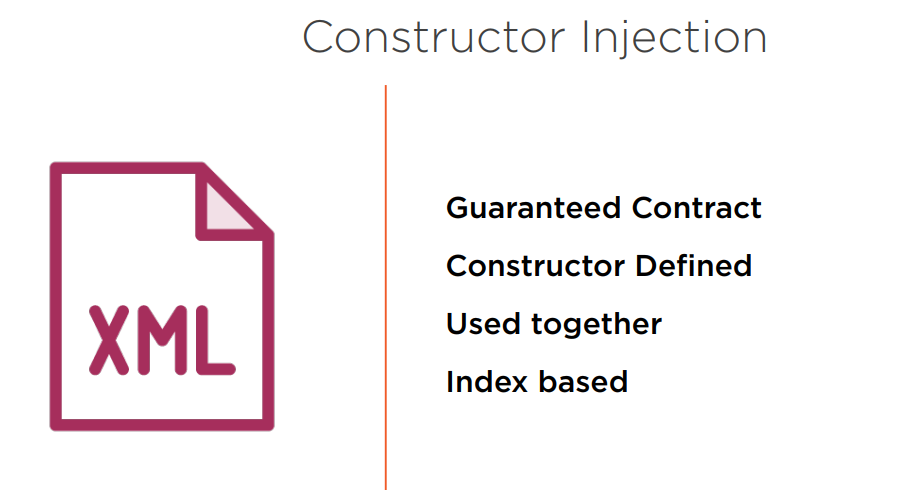


Name interface

Name class implements

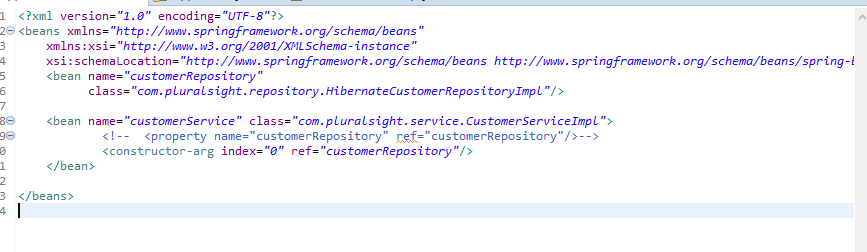


## Constructor Injection

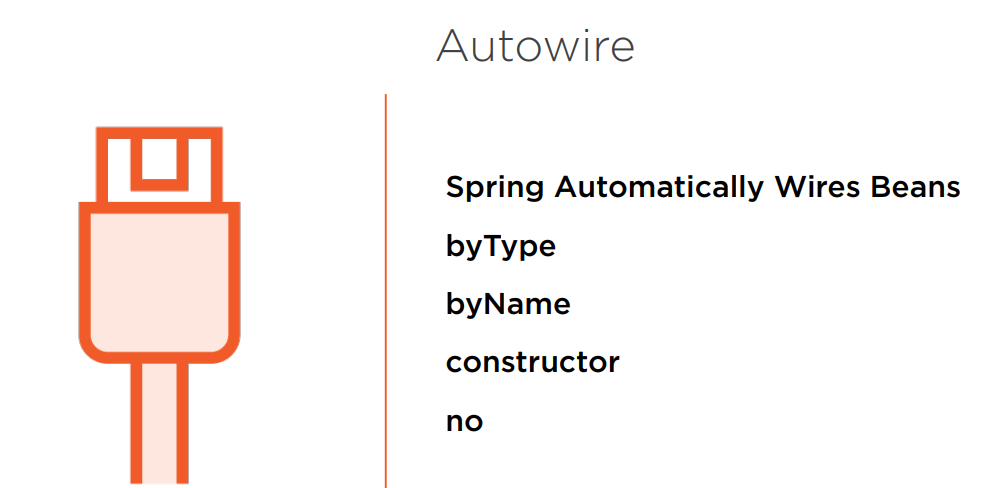


## Constructor Injection Demo

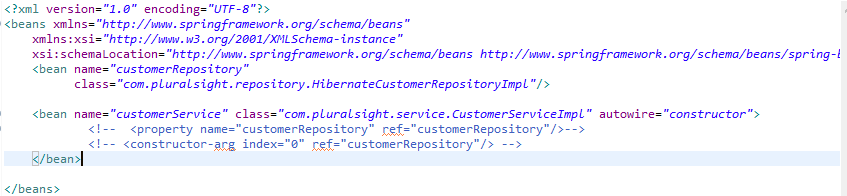




## Autowire

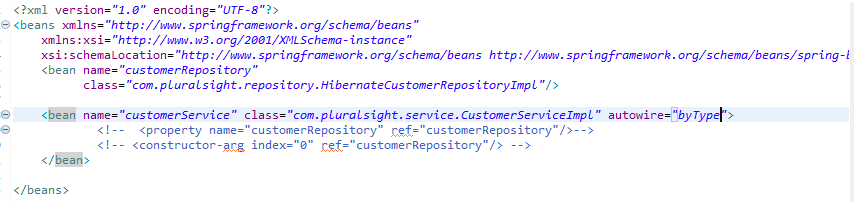


## Autowire by Constructor Demo



## Autowire by Name and Type Demo





If set in serviceImpl the same name in bean repositoryImpl => in bean ServiceImpl can use autowire “byType”, “byName”

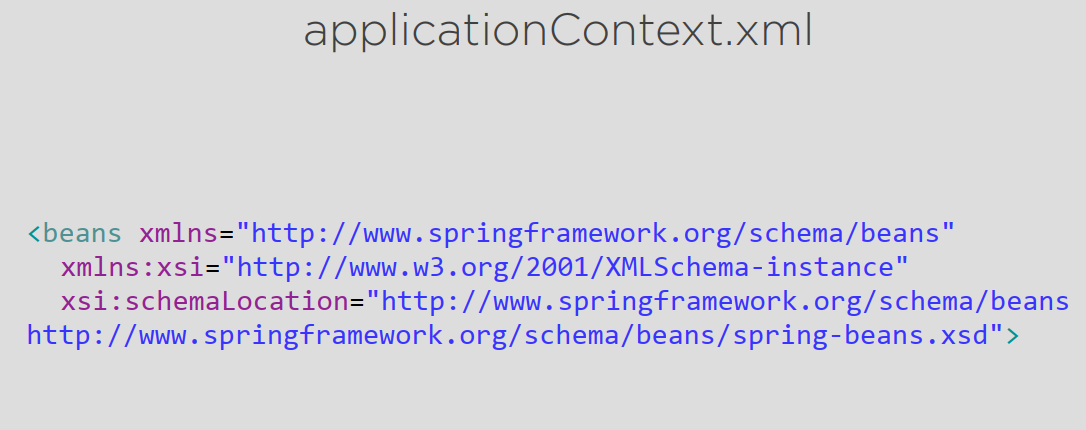
## Summary

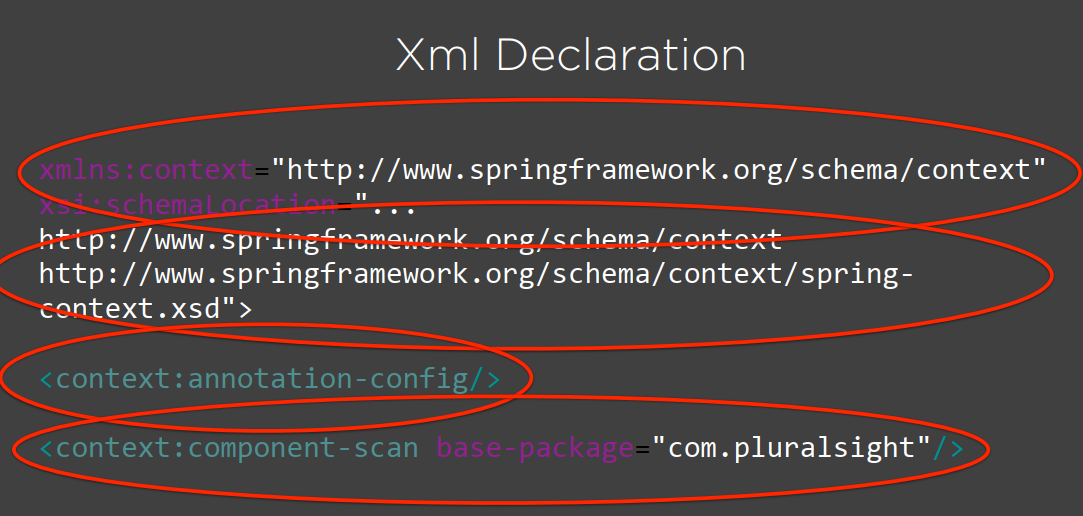
# Spring Annotation Configuration Using XML

## Annotation Config

## Copy Demo

## Application Context

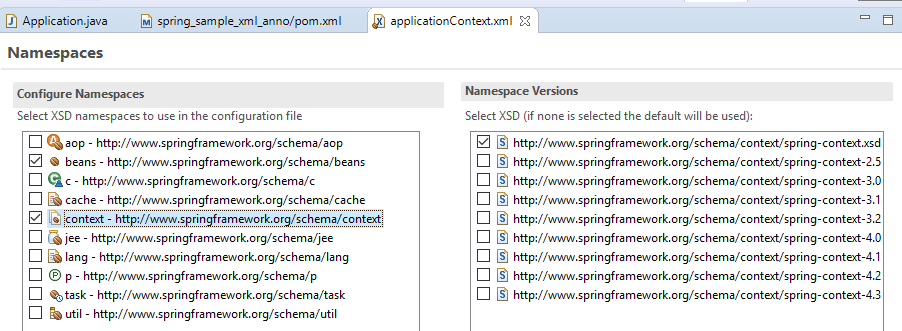


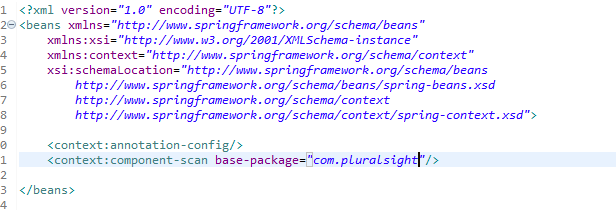


## Application Context Demo

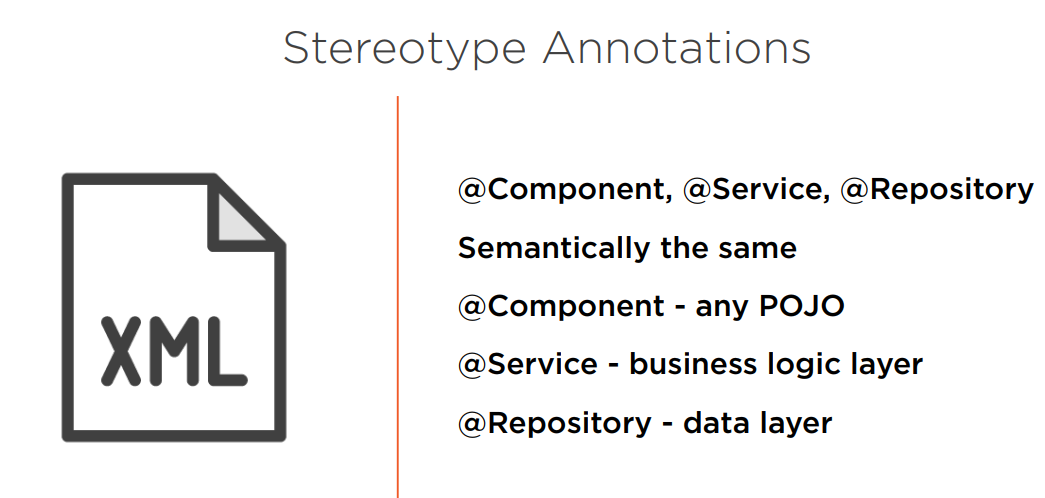
## Component Scanner

## Component Scanner Demo

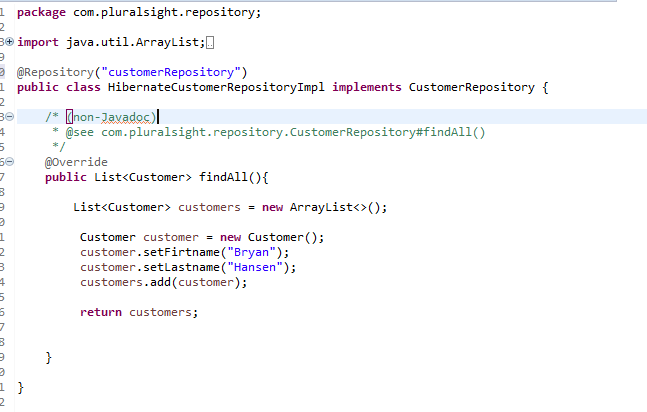


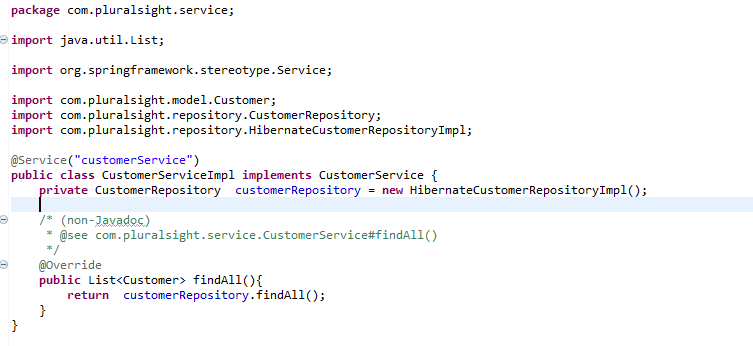


## Stereotype Annotations

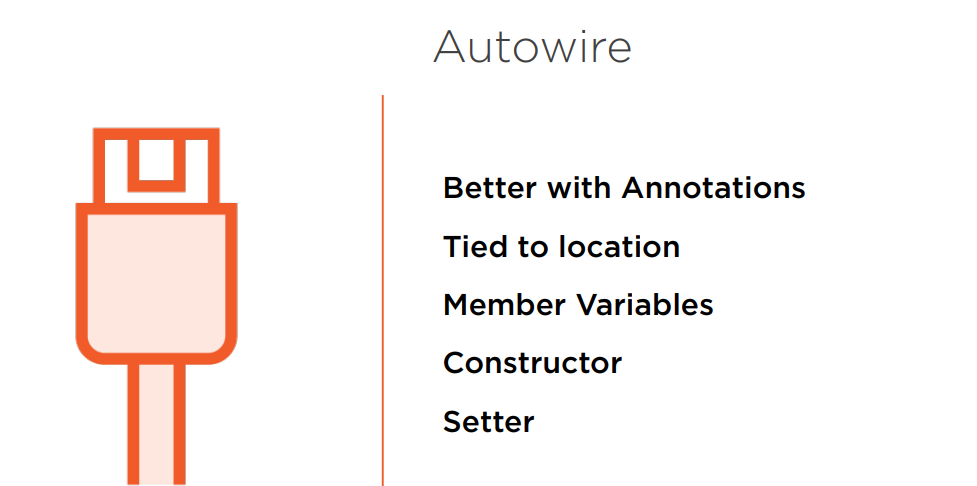


## Stereotype Annotations Demo

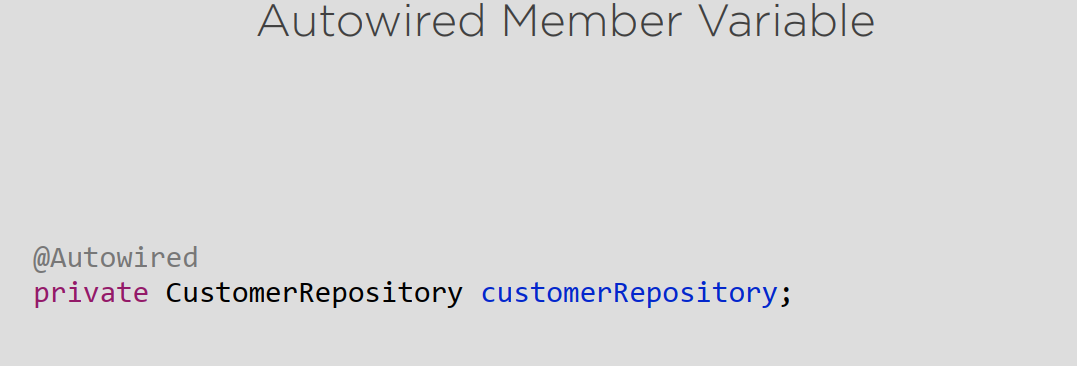




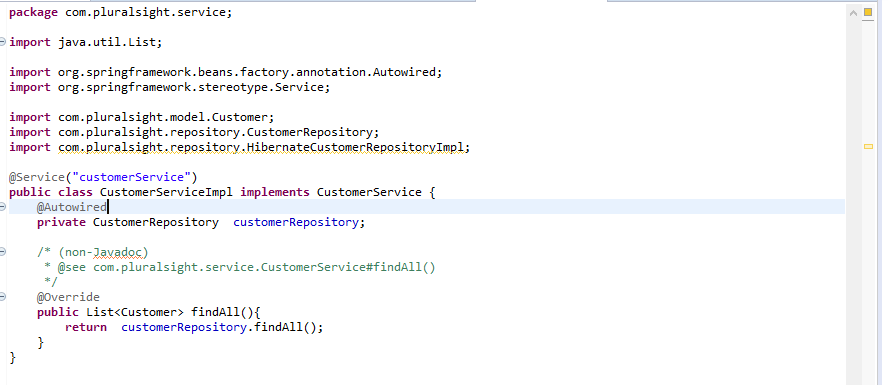
## Autowired

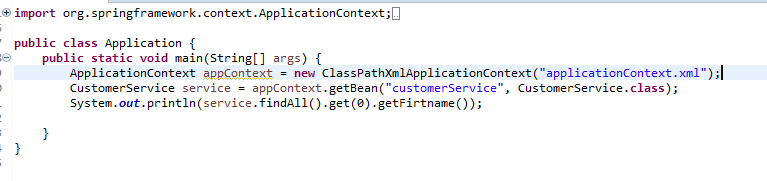


## Autowire Member

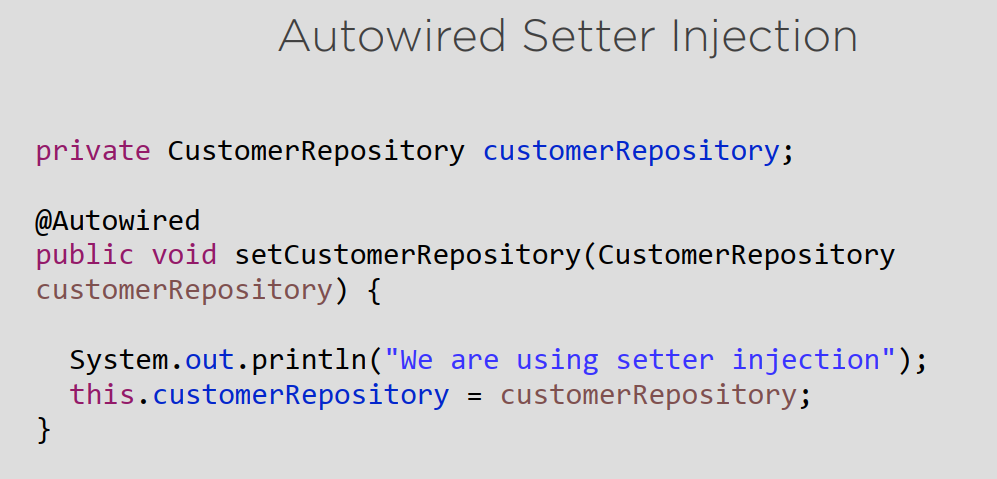


## Member Injection Demo

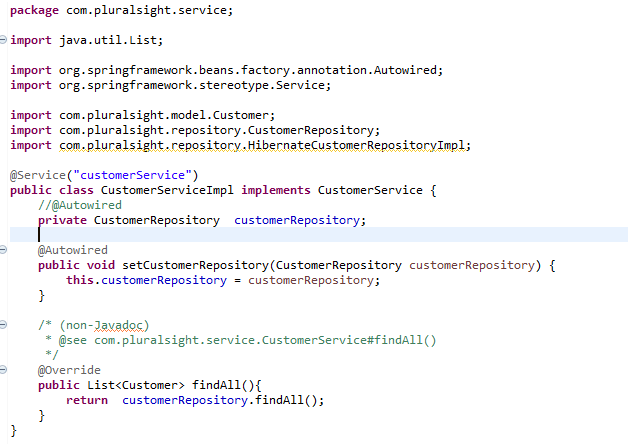




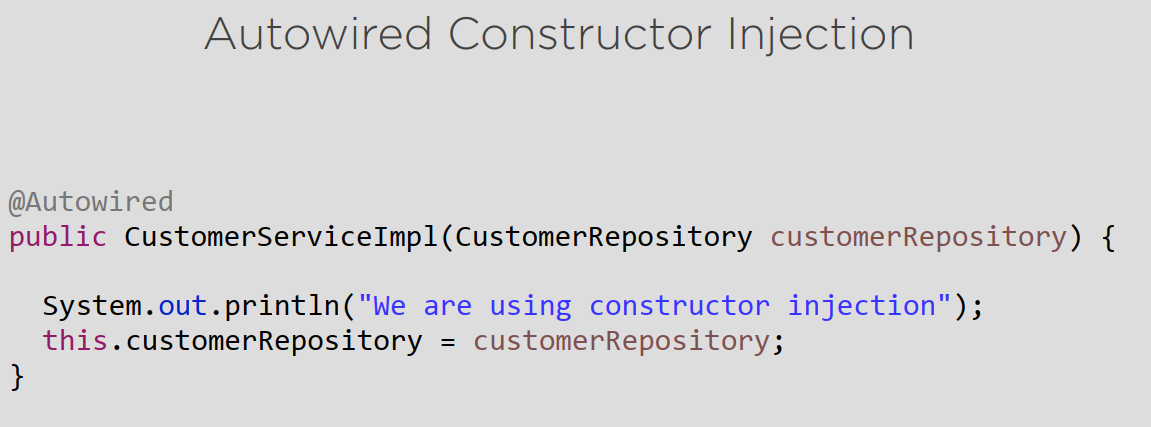
## Setter Injection



## Setter Injection Demo



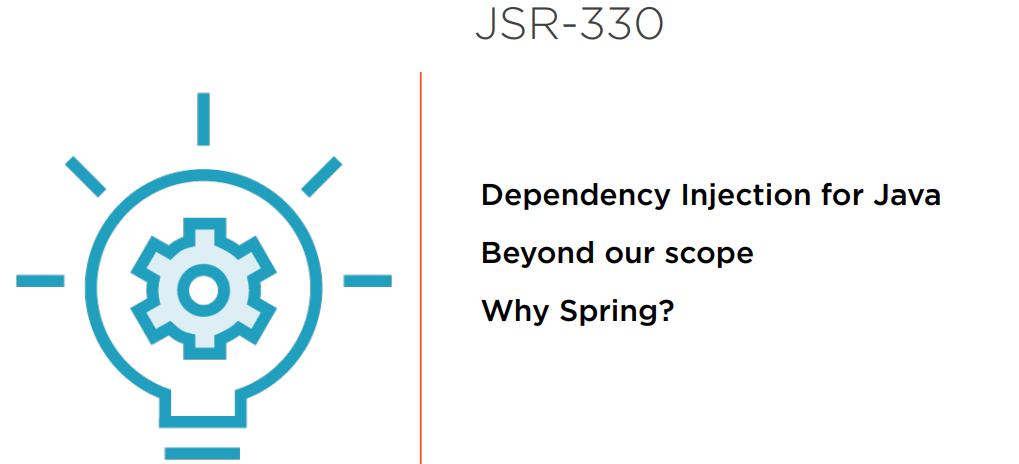
## Constructor Injection



## Constructor Injection Demo



## JSR-330



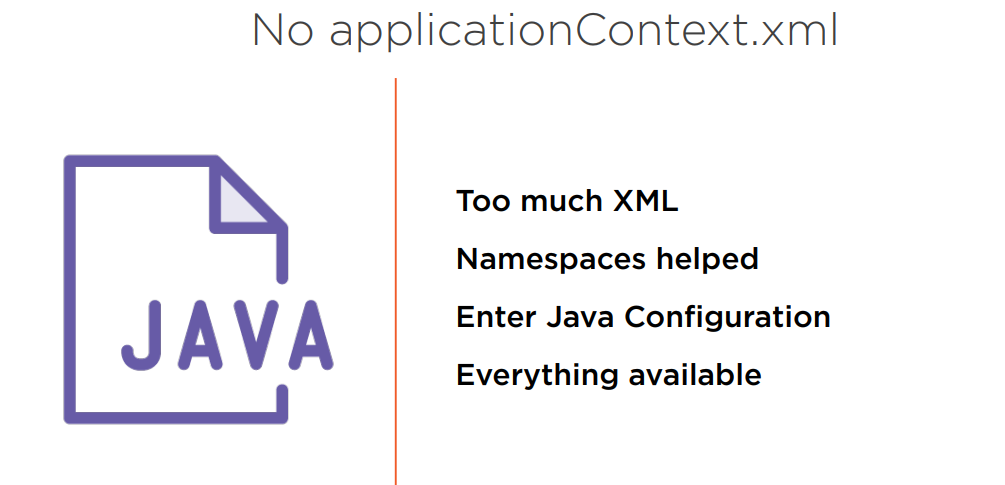
## Summary

# Spring Configuration Using Java

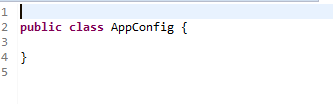
## Java Configuration Introduction

## Copy Demo

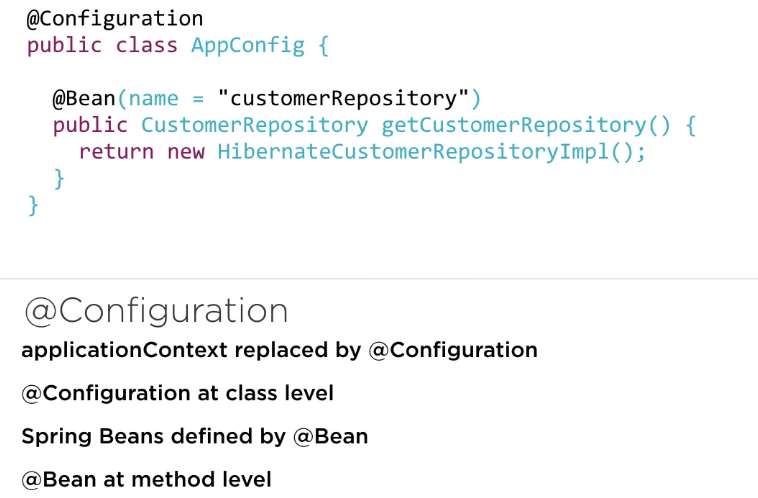
## AppConfig



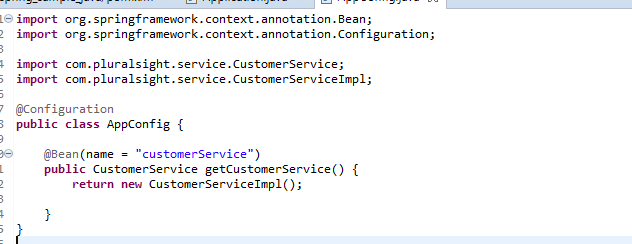
## AppConfig Demo



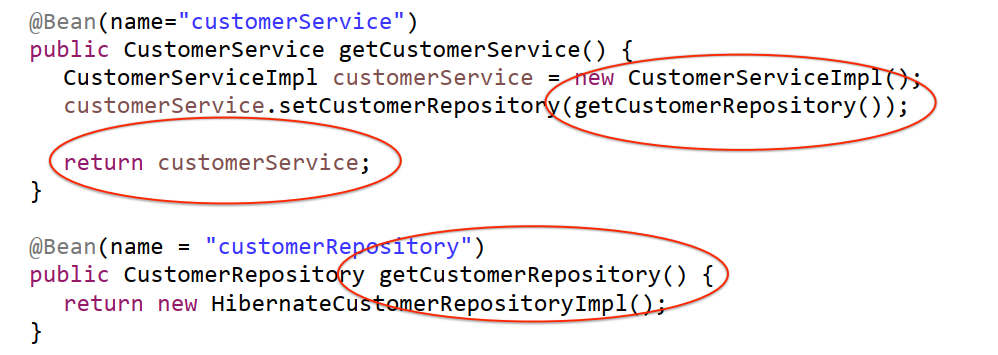
## @Configuration



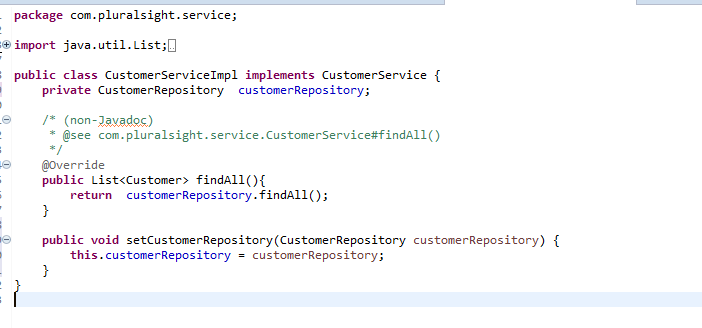
## @Configuration Demo

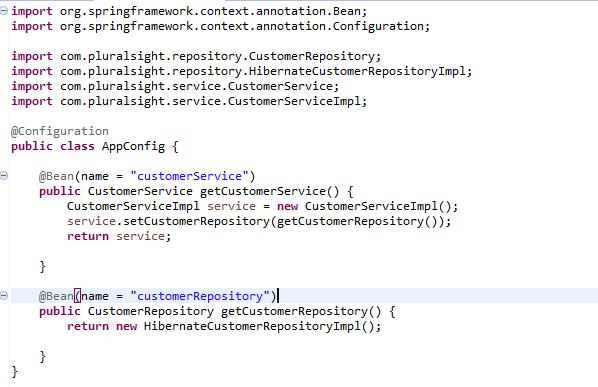


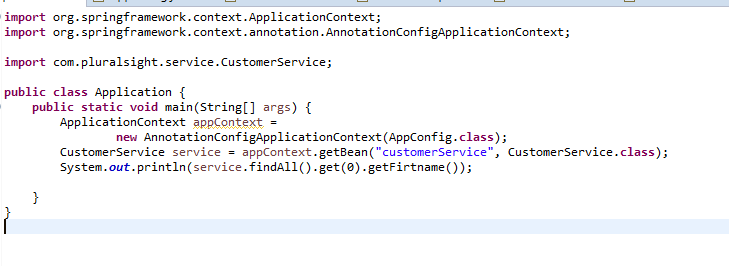
## Setter Injection



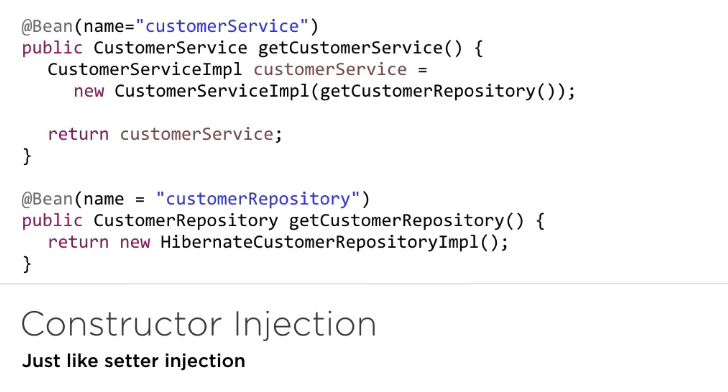
## Setter Injection Demo





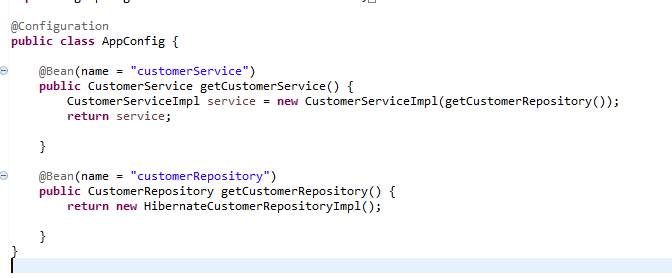


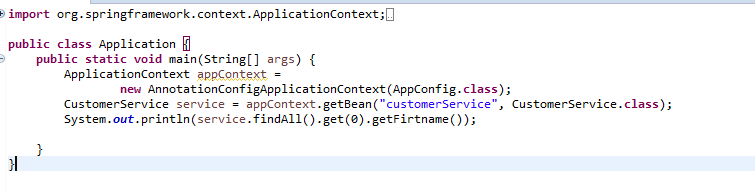
## Constructor Injection



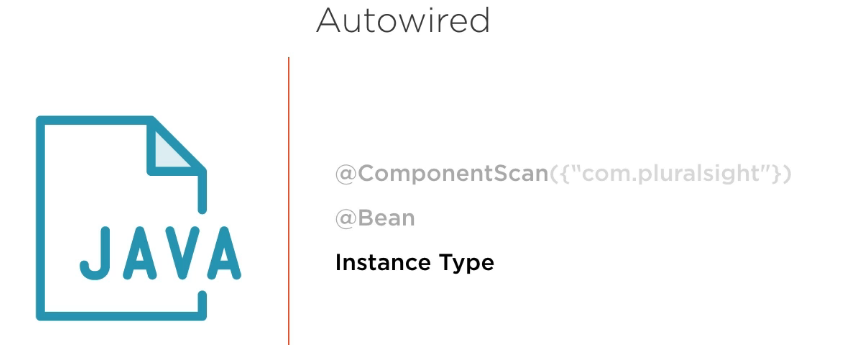
## Constructor Injection Demo



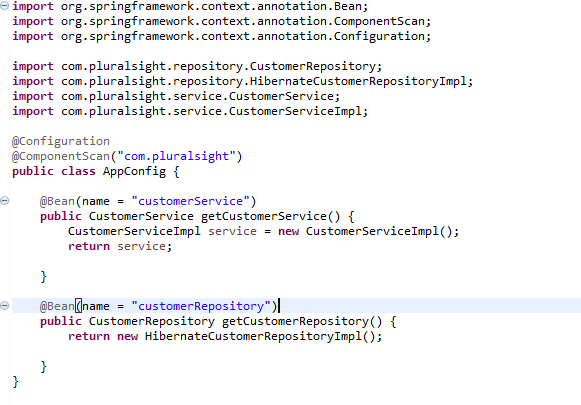




## Autowired



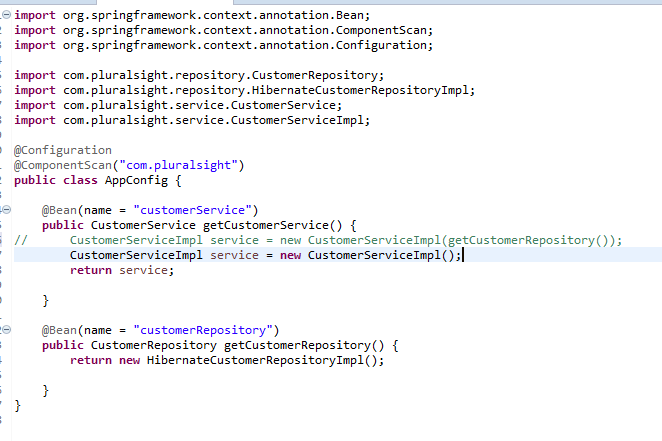
## Autowired Setup Demo

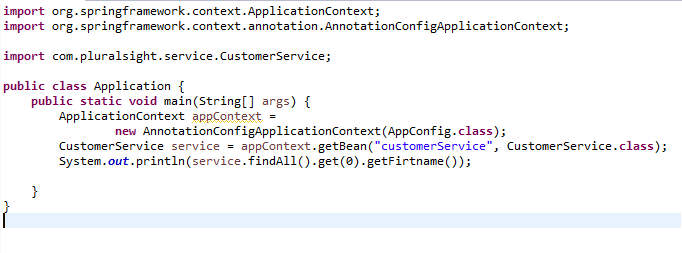


## Autowired Configuration Demo



Can put Autowired before variable, setter injection, contructor injection.

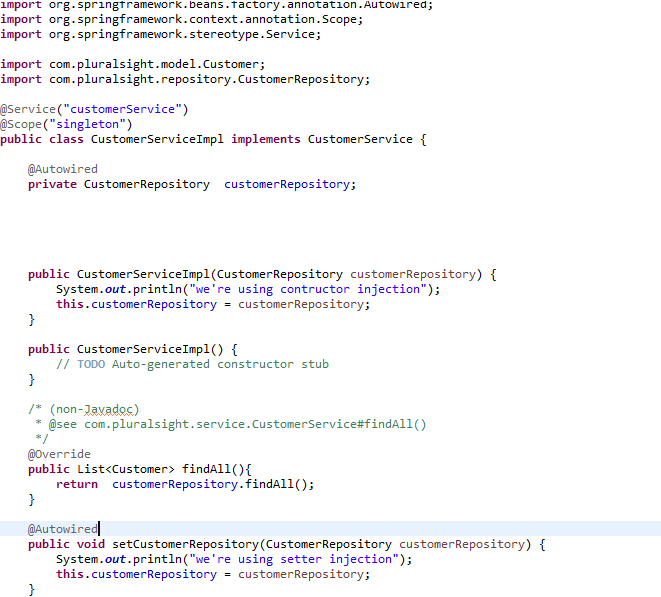




* Autowire





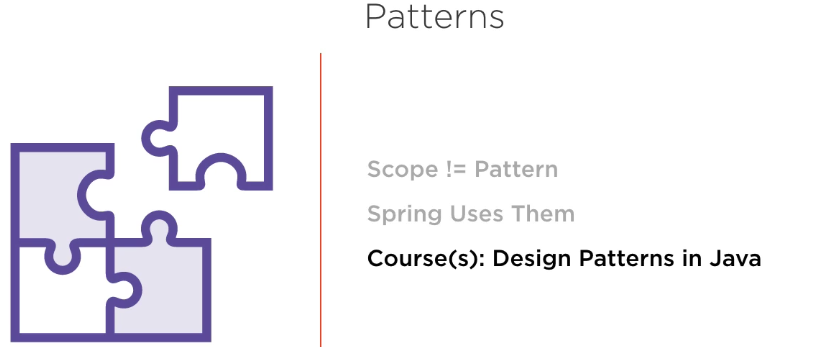


## Summary

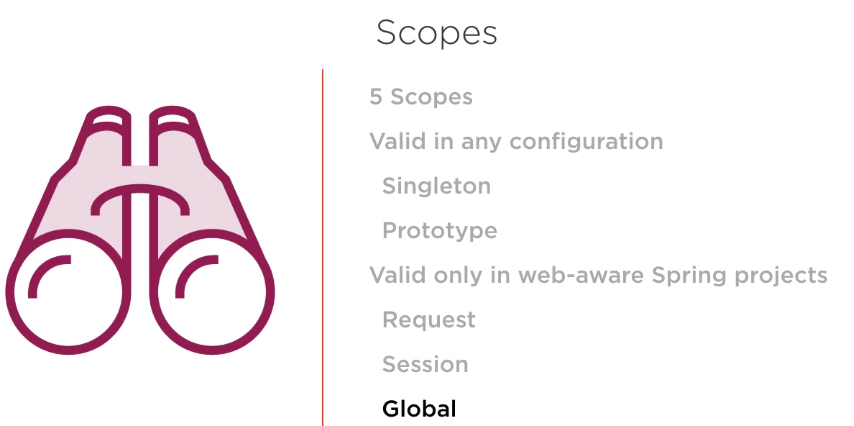
# Bean Scopes

## Bean Scope Introduction

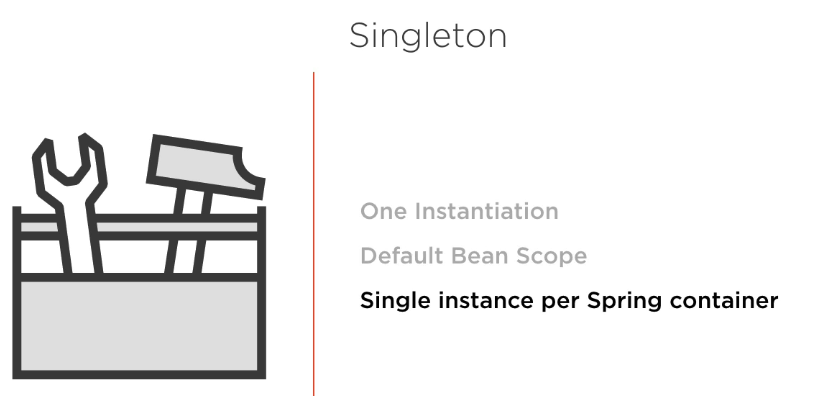
## Patterns



## Scopes



## Singleton



## Singleton Java Config



## Singleton Java Config Demo

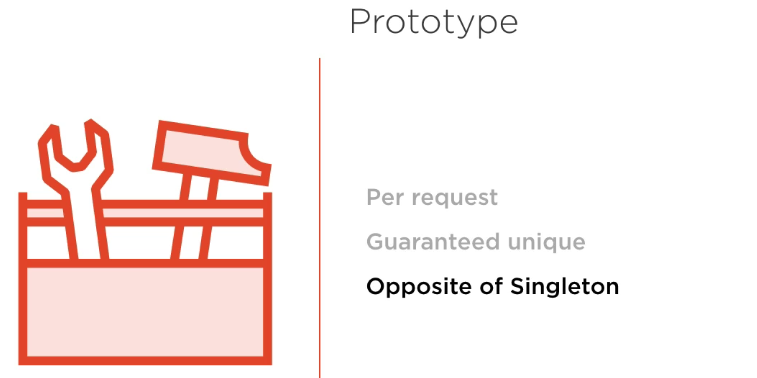
## Singleton Java Config Using a Constant Demo

## Singleton XML Config

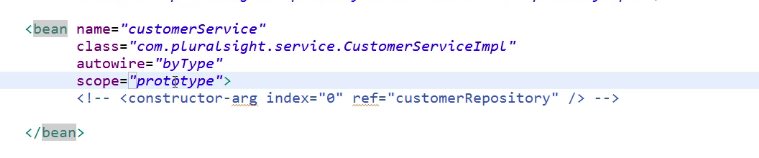


## Singleton XML Config Demo

## Prototype



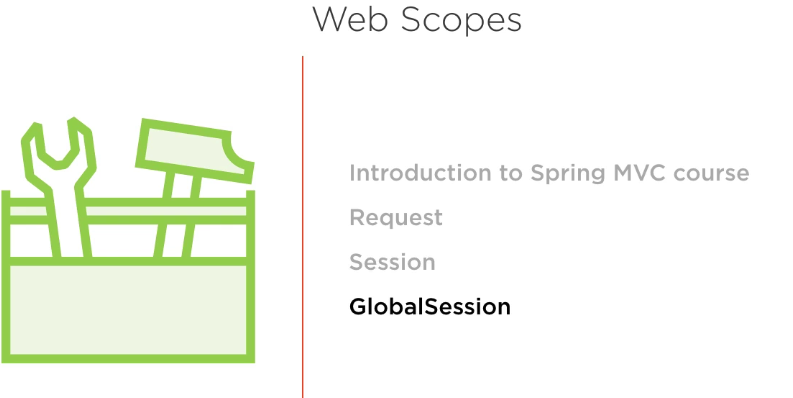
## Prototype XML Config Demo



## Prototype Java Config Demo

## 

## Web Scopes

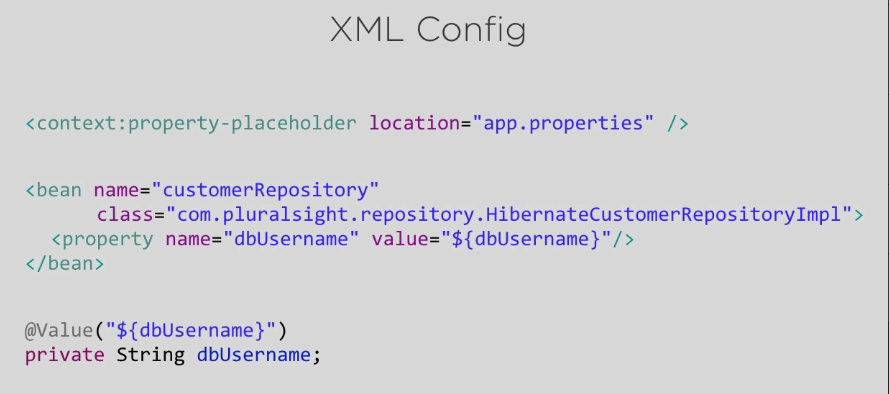


## Summary

# Properties

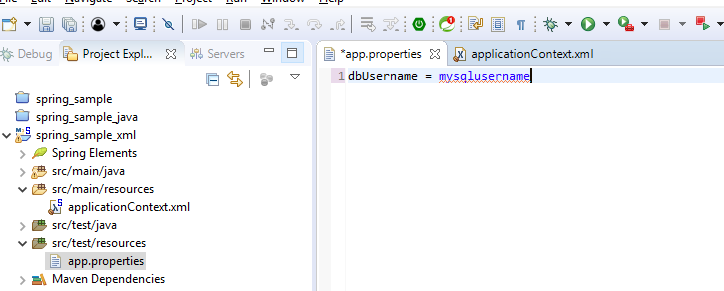
## Properties Introduction

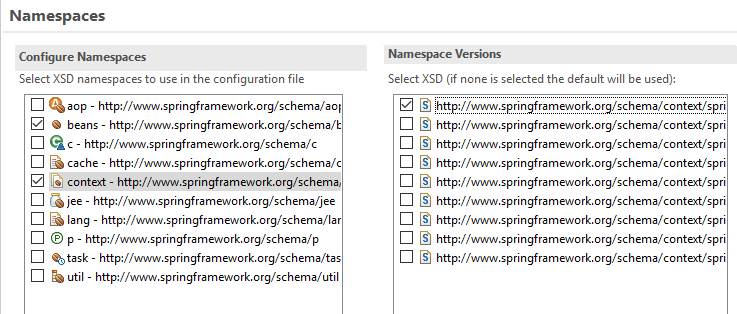
## XML Config



## XML Config Demo

Create app.properties



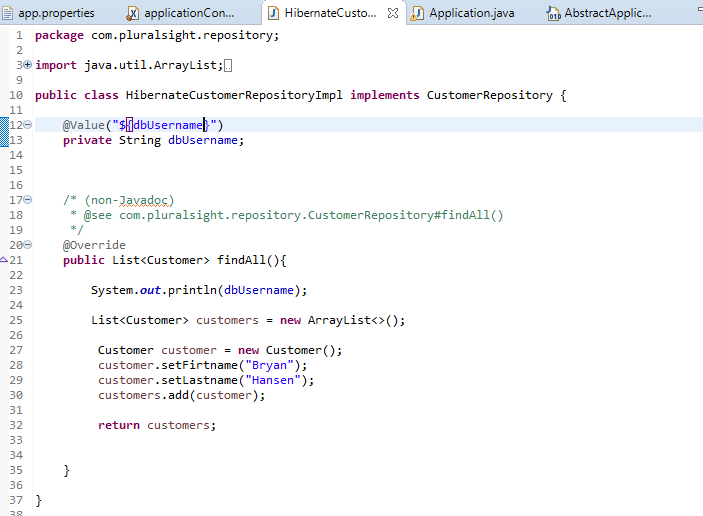






## XML Config Injection Demo

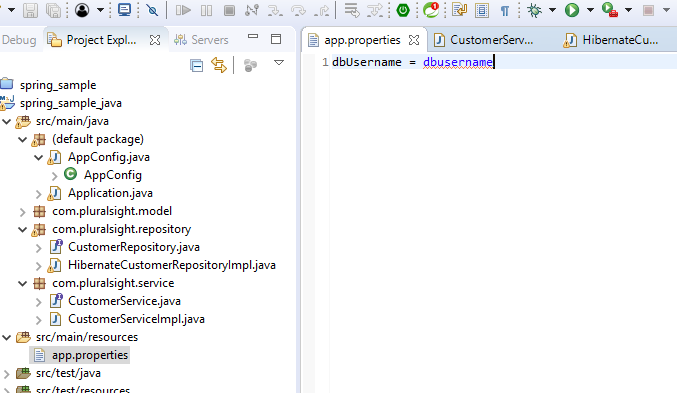


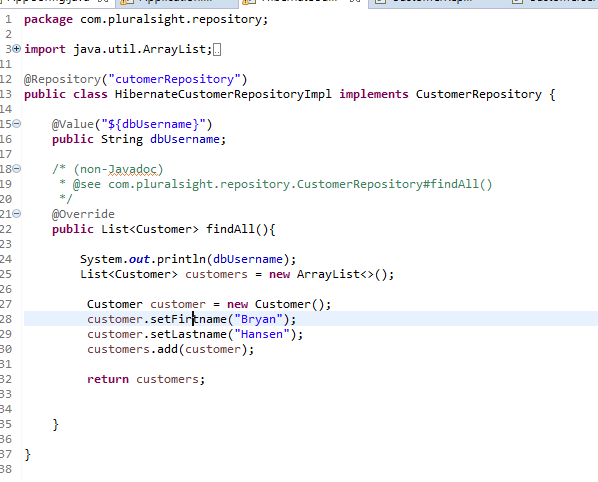
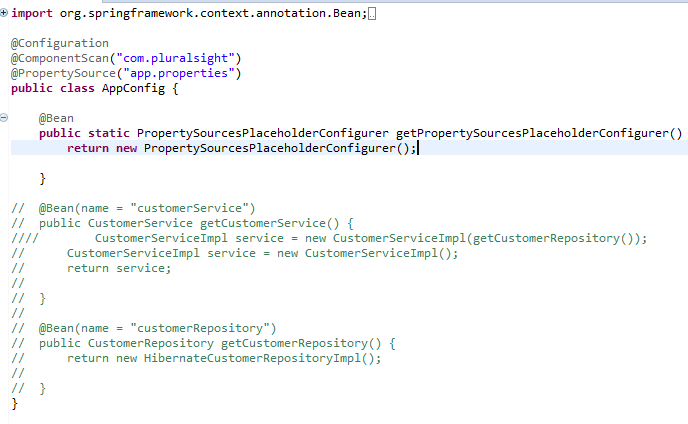


## Java Config



## Java Config Demo





## Summary

# Next

## Next