

# Spring Scopes and Autowiring

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**Bryan Hansen**

DIRECTOR OF SOFTWARE DEVELOPMENT

@bh5k

# Scopes

**Scope != Pattern**

**Spring uses them**

**Course:  
Design Patterns  
in Java**

# Scopes

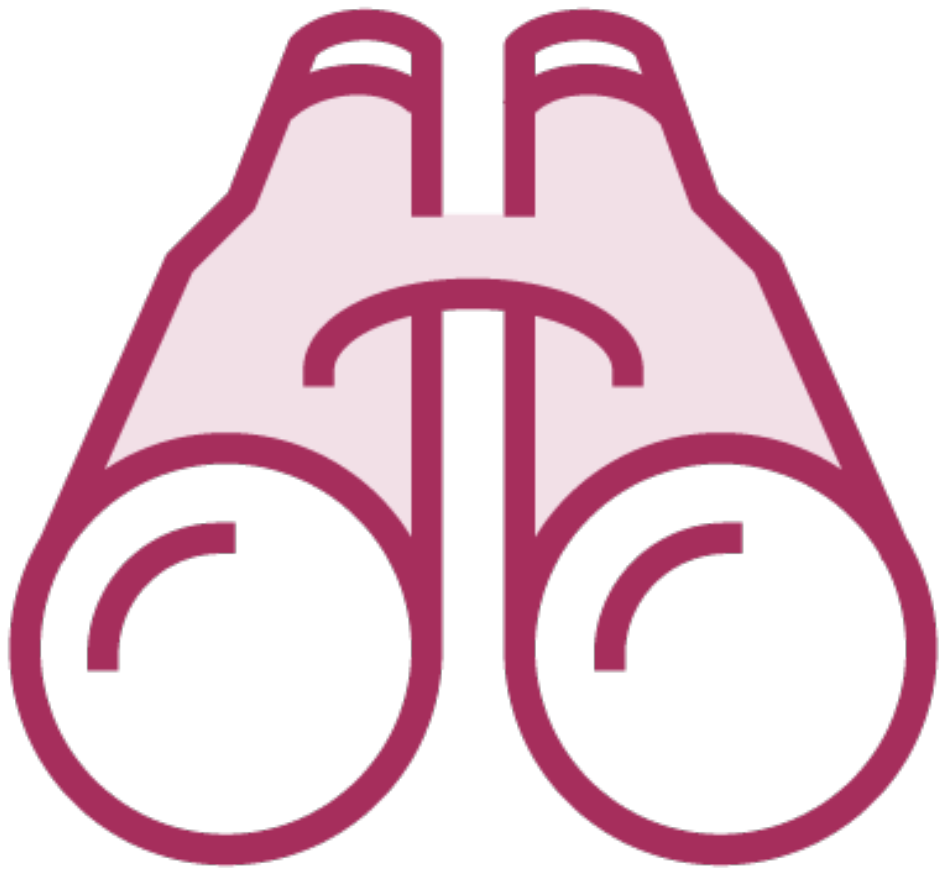
## 5 scopes

**Valid in any configuration**

- Singleton
- Prototype

**Valid only in web-aware Spring projects**

- Request
- Session
- Global



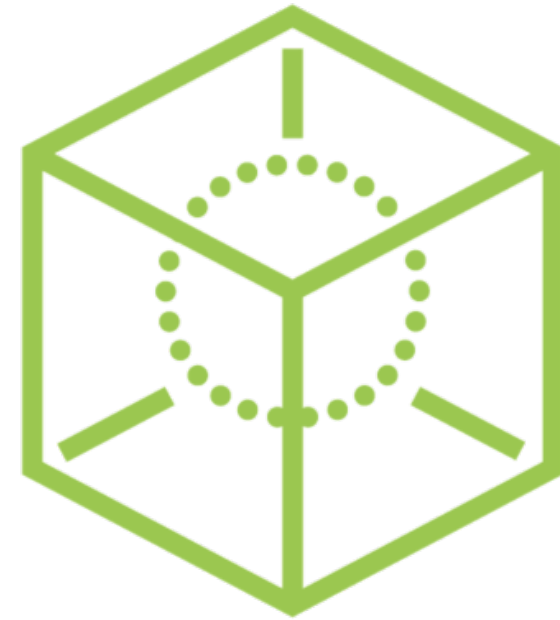
# Singleton



**One instantiation**



**Default bean scope**



**Single instance per  
Spring container**

```
@Service("customerService")
@Scope("singleton")
public class CustomerServiceImpl implements
CustomerService {
```

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## Singleton - Java Config

**@Scope**

**Requires AOP jar**

# Prototype

**Per request**

**Guaranteed unique**

**Opposite of  
Singleton**

```
@Service("customerService")
@Scope("prototype")
public class CustomerServiceImpl implements
CustomerService {
```

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## Prototype - Java Config

**@Scope**

# Web Scopes



**Introduction  
to Spring  
MVC course**



**Request**



**Session**



**GlobalSession**

# Autowired

```
@ComponentScan( {"  
com.pluralsight"})
```

**@Bean**

**By Name**  
**Instance Type**

# Stereotypes

**@Component**

**@Repository**

**@Service**

# Summary

## Scopes

- Singleton
- Prototype

## Web scopes

- Request
- Session
- GlobalSession

## Autowiring