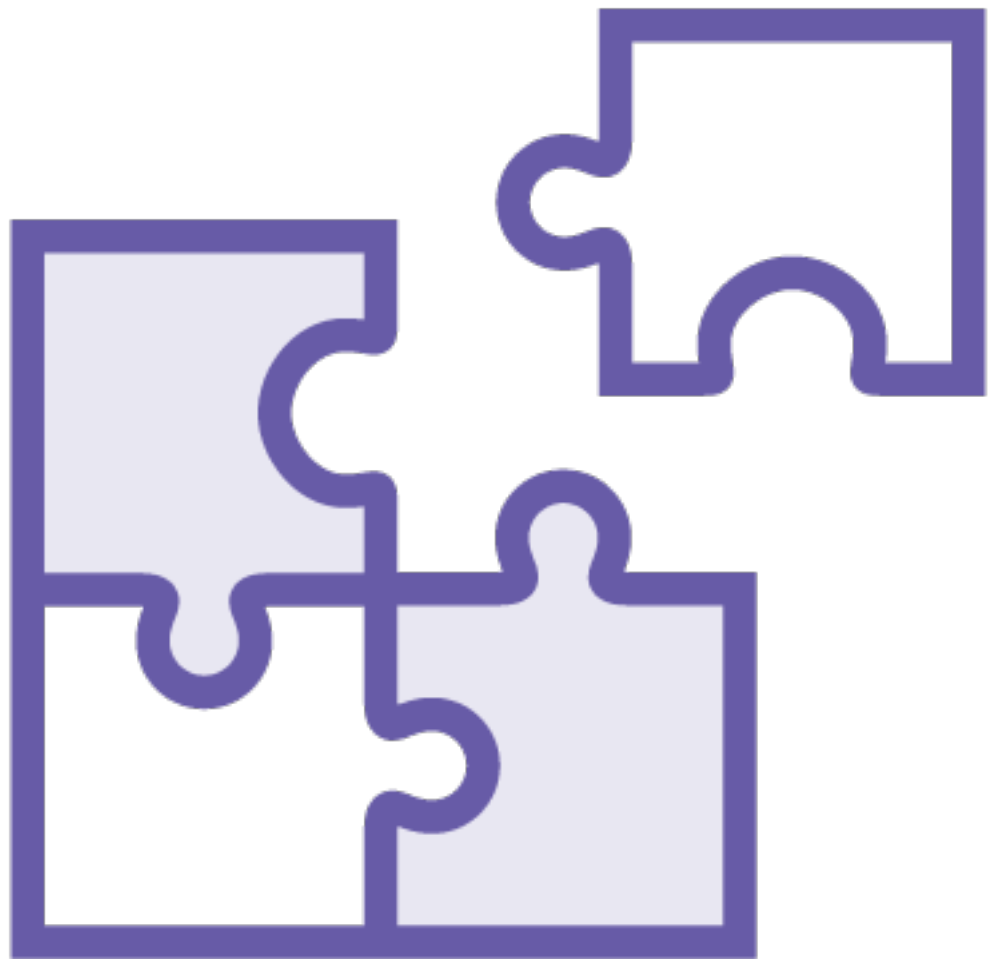# Bean Scopes

Bryan Hansen
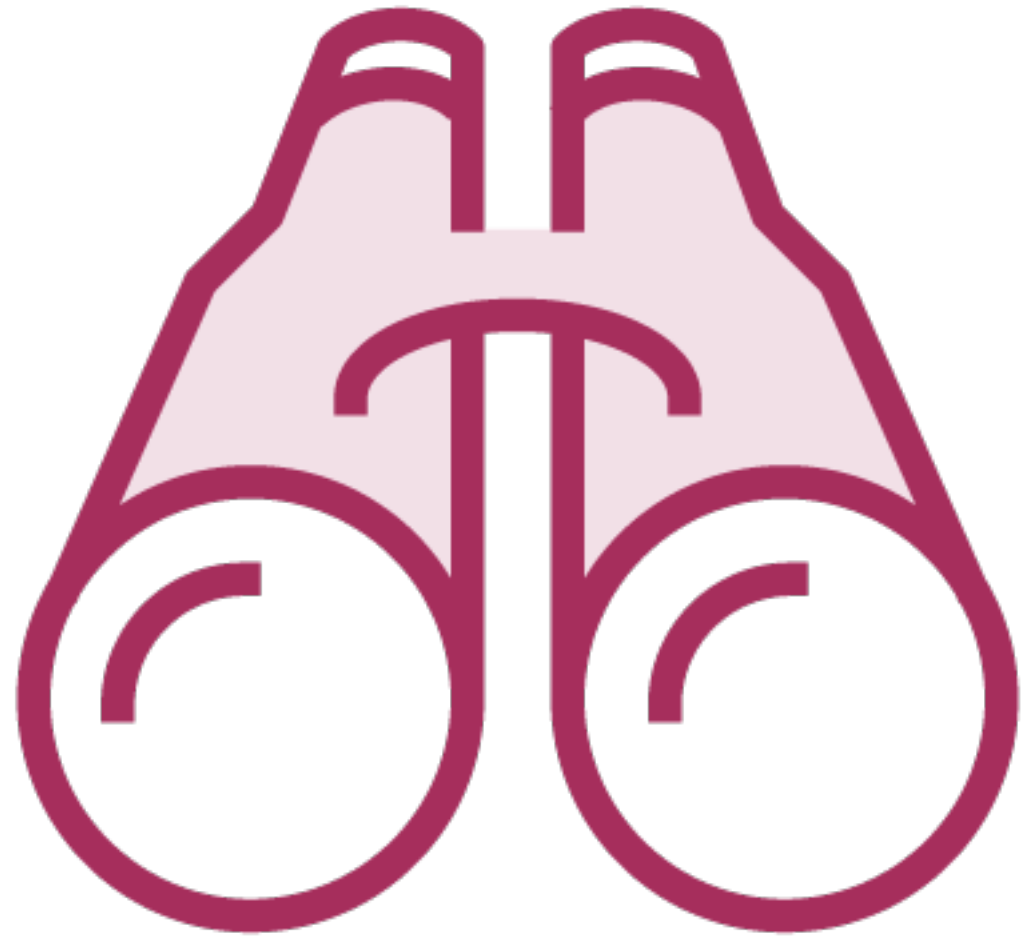DIRECTOR OF SOFTWARE DEVELOPMENT
@bh5k

Patterns

Scope != Pattern

Spring Uses Them

Course(s): 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

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

Singleton - Java Config

@Scope

Requires AOP jar

```xml
<bean name="customerService"
      class="com.pluralsight.service.CustomerServiceImpl"
      autowire="byType"
      scope="singleton">
```

Singleton - XML Config

scope="singleton"

Prototype

- Per request
- Guaranteed unique
- Opposite of Singleton

Web Scopes

Introduction to Spring MVC course

Request

Session

GlobalSession

Summary

Scopes

- **Singleton**

- **Prototype**

Web Scopes

- **Request**

- **Session**

- **GlobalSession**