

# Spring Scopes and Autowiring



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@bh5k

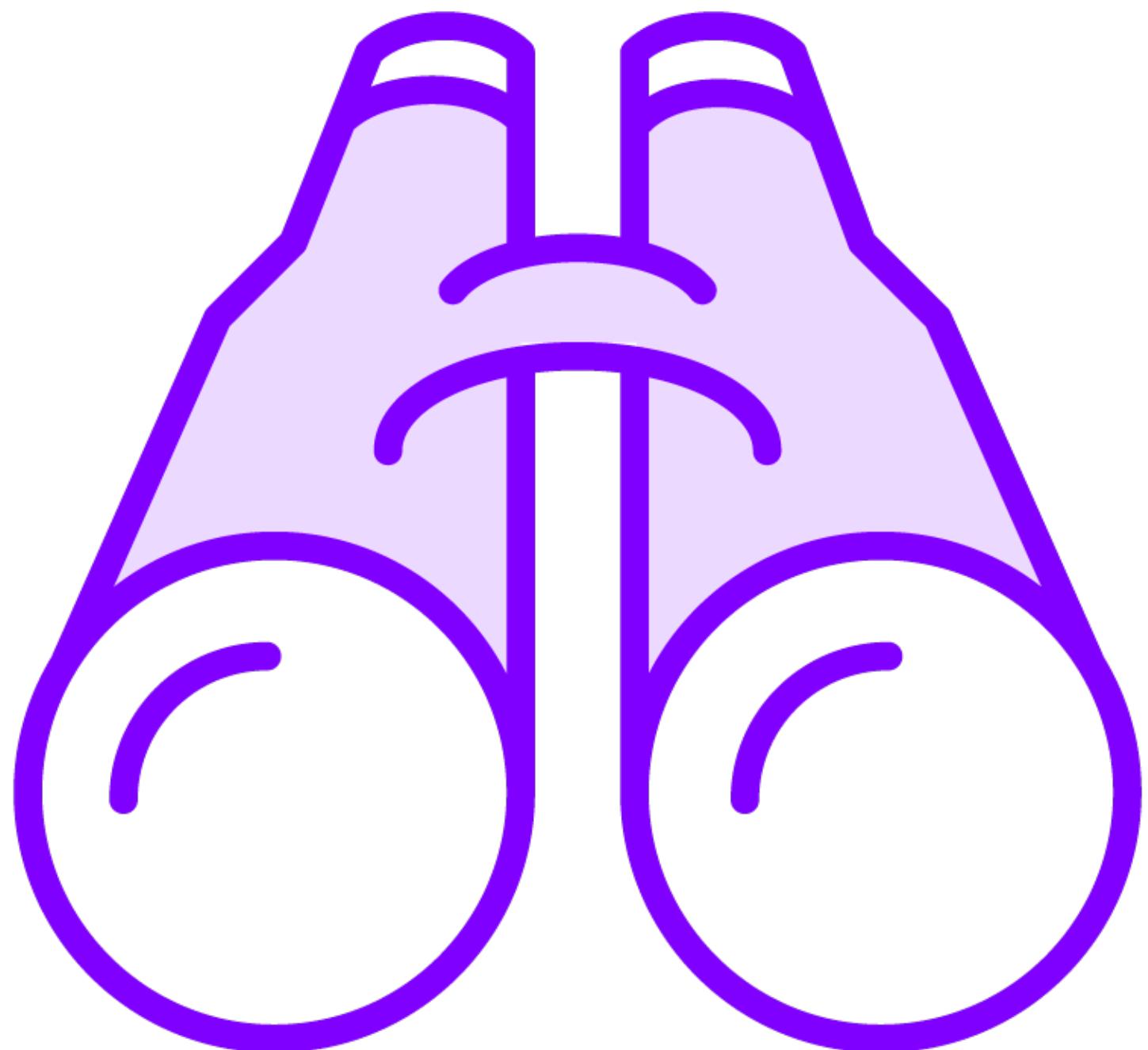
# Scopes

**Scope != Pattern**

**Spring uses them**

**Course:  
Design Patterns in  
Java**

# Scopes



## 5 Scopes

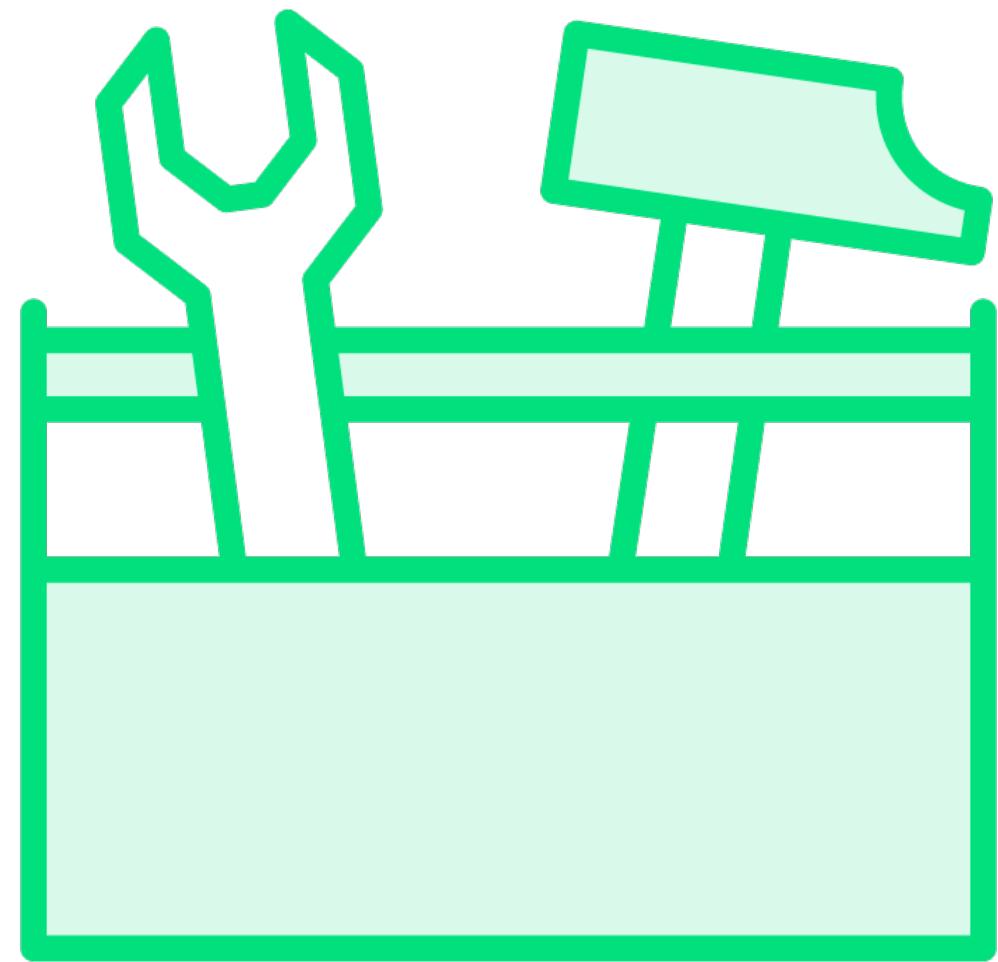
Valid in any configuration

- Singleton
- Prototype

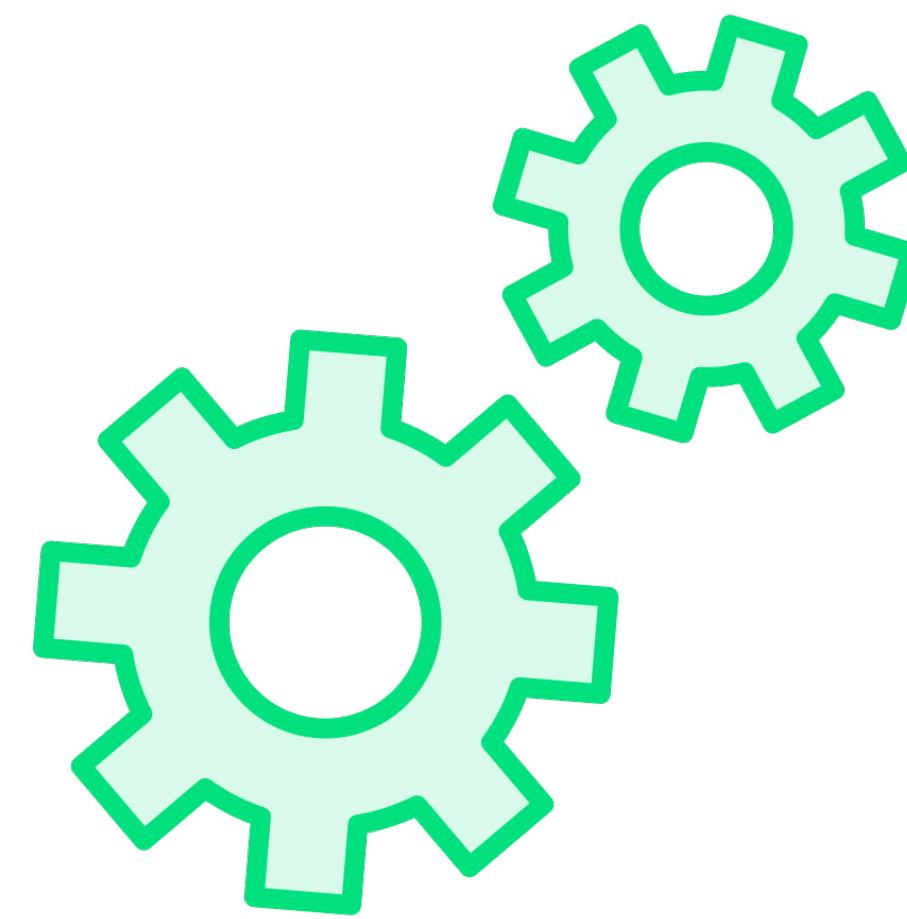
Valid only in web-aware Spring projects

- Request
- Session
- Global

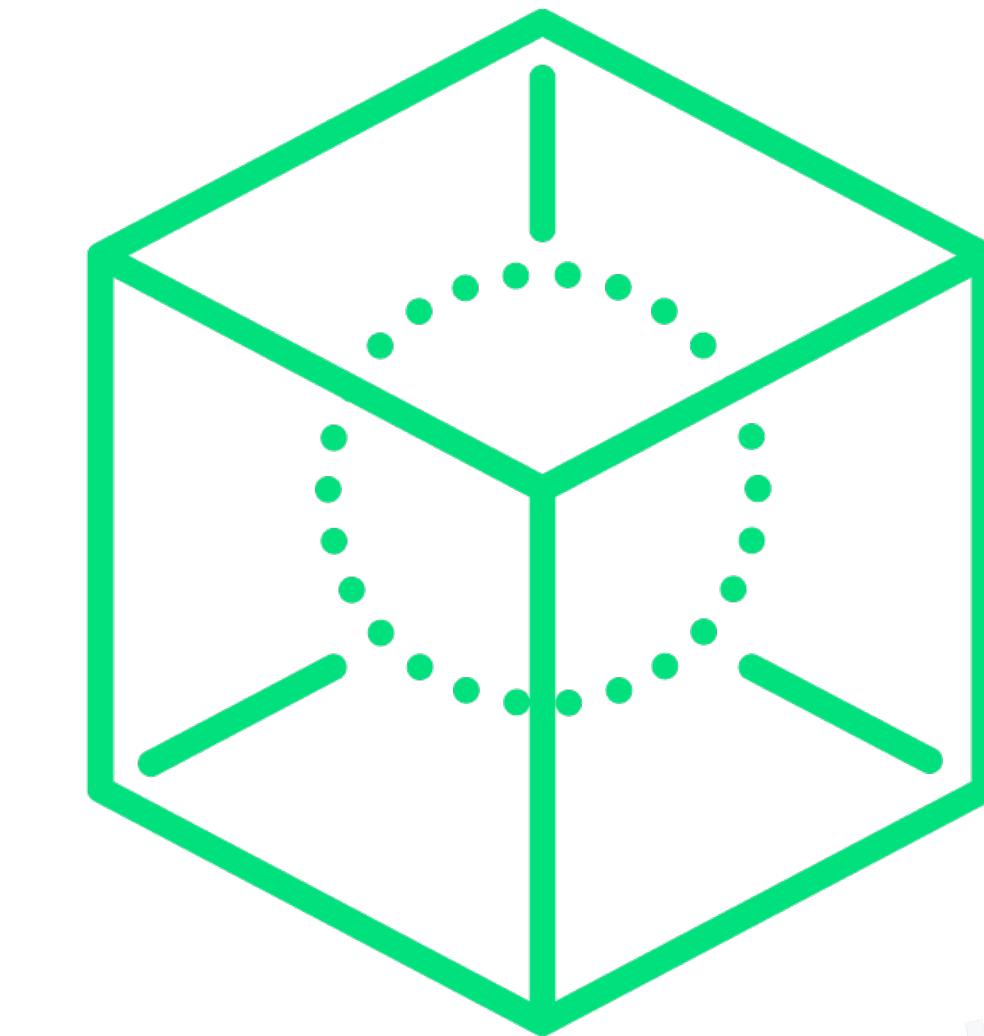
# Singleton



One instantiation



Default bean scope



Single instance per  
Spring container

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

## **Singleton - Java Config**

**@Scope**  
**Requires AOP jar**

# Prototype

Per Request

Guaranteed Unique

Opposite of  
Singleton

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

## Prototype - Java Config

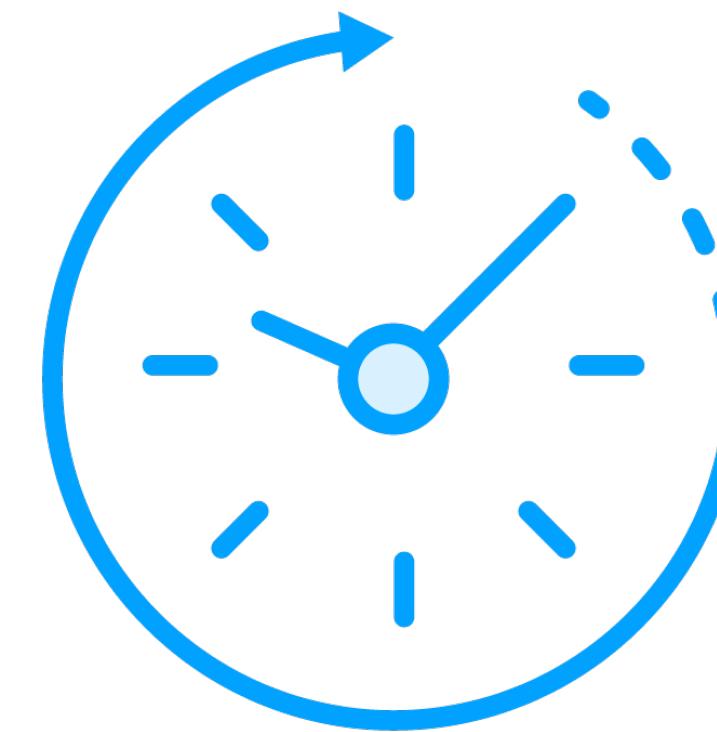
# Web Scopes



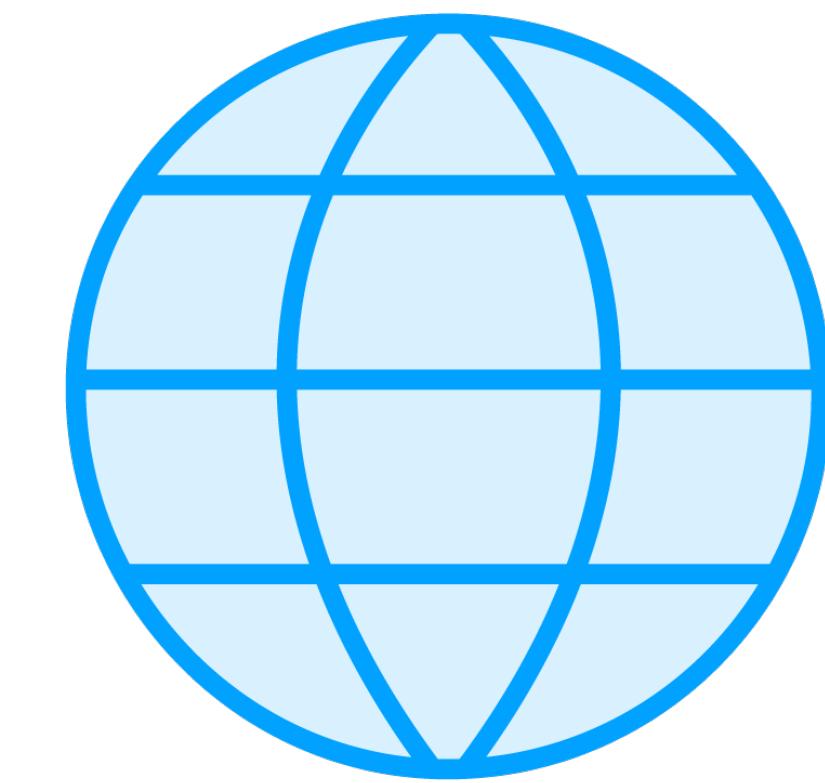
**Spring Web  
Fundamentals**



**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