

Bean Scopes with Annotations



Bean Scopes

- Scope refers to the lifecycle of a bean
- How long does the bean live?
- How many instances are created?
- How is the bean shared?

Default Scope

Default scope is singleton

Refresher: What Is a Singleton?

- Spring Container creates only one instance of the bean, by default
- It is cached in memory
- All requests for the bean
 - will return a SHARED reference to the SAME bean

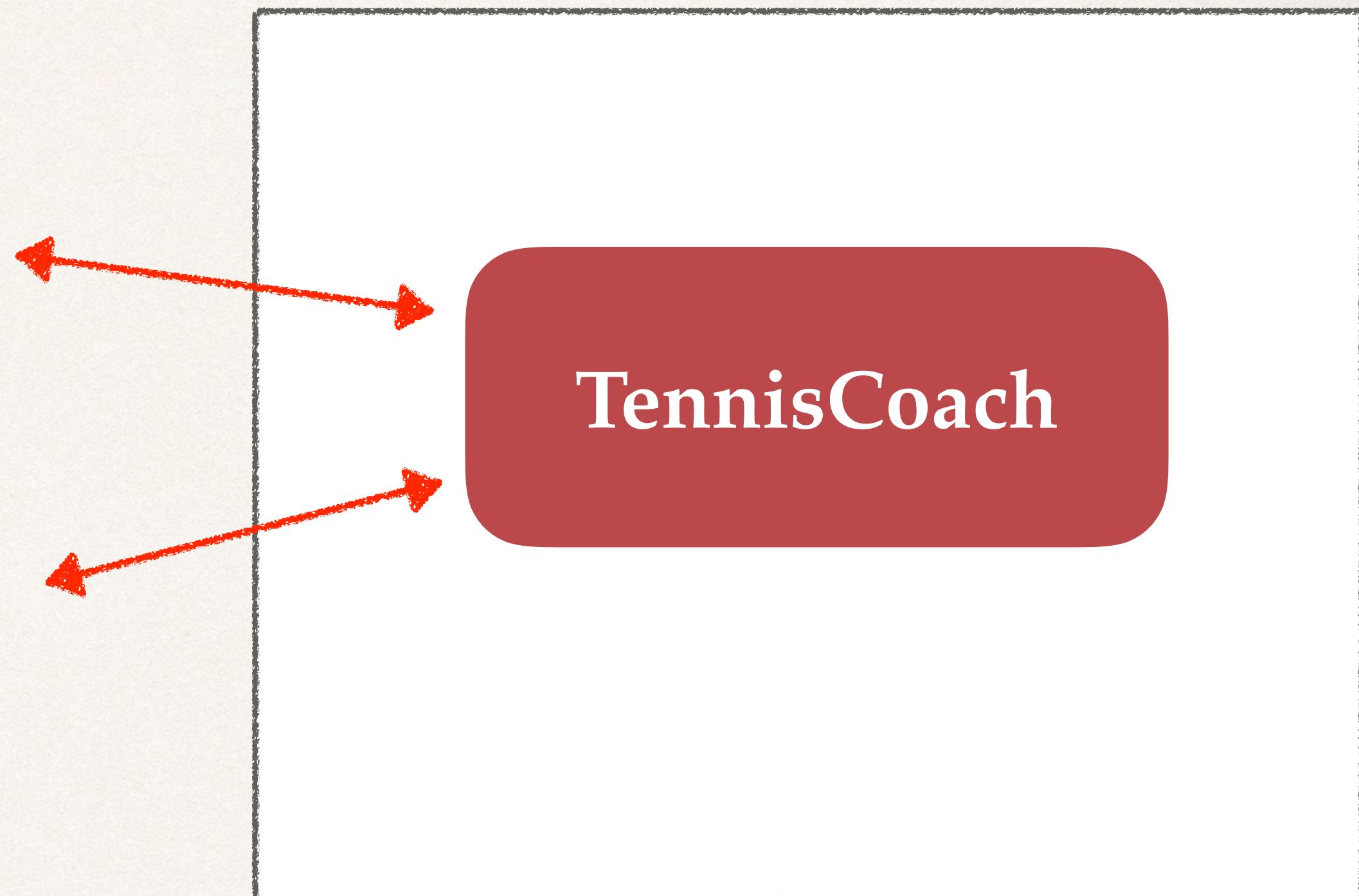
What is a Singleton?

Spring

```
Coach theCoach = context.getBean("tennisCoach", Coach.class);
```

...

```
Coach alphaCoach = context.getBean("tennisCoach", Coach.class);
```



Explicitly Specify Bean Scope

```
@Component  
@Scope("singleton")  
public class TennisCoach implements Coach {  
  
...  
  
}
```

Additional Spring Bean Scopes

Scope	Description
singleton	Create a single shared instance of the bean. Default scope.
prototype	Creates a new bean instance for each container request.
request	Scoped to an HTTP web request. Only used for web apps.
session	Scoped to an HTTP web session. Only used for web apps.
global-session	Scoped to a global HTTP web session. Only used for web apps.

Prototype Scope Example

Prototype scope: new object for each request

```
@Component  
@Scope("prototype")  
public class TennisCoach implements Coach {  
  
    ...  
  
}
```

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