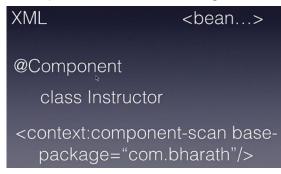
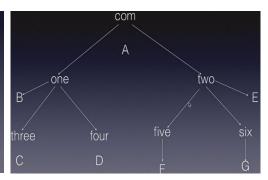
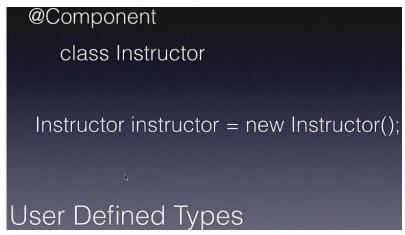
- 1. 소개
- 가. 스프링 프레임워크에서 제공하는 스테레오타입 애노테이션
- 나. 지금까지 오브젝트를 생성하고 의존성 주입을 하기 위해 XML 설정을 사용
- 다. 스테레오타입 애노테이션
- @Component: XML 설정 bean tag와 동일





- 미리 컴파일된 클래스(서드파티)는 접근할 수 없어, 우리가 만든 클래스만 적용 가능



2. 애노테이션을 이용한 오브젝트 생성

```
    ⇒ springcoreadvanced
    → Spring Elements
    → src/main/java
    → com.springcoreadvanced.autowiring
    → com.springcoreadvanced.autowiring.annotation
    → com.springcoreadvanced.autowiring.qualifier
    → com.springcoreadvanced.propertiesplaceholder
    → com.springcoreadvanced.sterotype.annotations
    → Instructor.java
    ✓ config.xml
```

```
Instructor.java
                 🗷 config.xml 🖂
  1 <?xml version="1.0" encoding="UTF-8"?>
  2⊖ <beans xmlns="http://www.springframework.org/schema/beans"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xmlns:context="http://www.springframework.org/schema/context"
        xmlns:p="http://www.springframework.org/schema/p"
        xmlns:c="http://www.springframework.org/schema/c"
        xsi:schemaLocation="http://www.springframework.org/schema/beans
        http://www.springframework.org/schema/beans/spring-beans.xsd
        http://www.springframework.org/schema/context
 10
        http://www.springframework.org/schema/context/spring-context.xsd">
         context:component-scan
 13
            base-package="com.springcoreadvanced.sterotype.annotations" /
 14
                             Context:annotation-config 활성화
15
```

더 이상 필요하지 않음

3. 다른 오브젝트를 이름을 이용하기

```
🛾 Instructor.java 🛭 🖟 config.xml 🔟 Test.java
     package com.springcoreadvanced.sterotype.annotations;
     import org.springframework.stereotype.Component;
     DComponent("inst") 사용자 빈 이름 지정
     public class Instructor
         private int id;
         private String name;
 10
 110
         public int getId() {
             return id;
                                                                        14
                                                                           1 package com.springcoreadvanced.sterotype.annotations;
15⊝
         public void setId(int id) {
             this.id = id;
                                                                           {\tt 3} {\small \texttt{@}} \ import \ org.springframework.context.ApplicationContext; []
17
                                                                          6 public class Test {
 19⊝
         public String getName() {
 20
             return name;
                                                                                 private static ApplicationContext context;
         public void setName(String name) {
                                                                                 public static void main(String[] args) {
             this.name = name;
                                                                                     context = new ClassPathXmlApplicationContext(
                                                                                     "com/springcoreadyanced/sterotype/annotations/config w
Instructor instructor = (Instructor) context.getBean("inst");
 26
 27⊝
         @Override
                                                                                     System. out. println(instructor);
         public String toString() {
             return "Instructor [id=" + id + ", name=" + name
 29
                                                                         16
 30
                                                                         17 }
 31 }
```

4. 스코프 애노테이션 사용

```
package com.springcoreadvanced.sterotype.annotations;
                                                          3⊕ import org.springframework.context.ApplicationContext;
              디폴트 singleton
                                                         6 public class Test {
                                                         8
                                                                 private static ApplicationContext context;
                           prototype
                                                       10⊝
                                                                 public static void main(String[] args) {
                                                        11
                                                                      context = new ClassPathXmlApplicationContext(
                                                                      "com/springcoreadvanced/sterotype/annotations/config.x
Instructor instructor = (Instructor) context.getBean("inst");
@Scope
                                                                      Instructor instructor = (instructor, some
System.out.println(instructor.hashCode());
두 개의 객체 생성
                           request
                                                        15
                                                                      Instructor instructor2 = (Instructor) context.getBean("inst
System.out.println(instructor2.hashCode());
                           session
                                                        10
                           globalsession
                                                       20 }
```

☑ Instructor.java ☑ config.xml

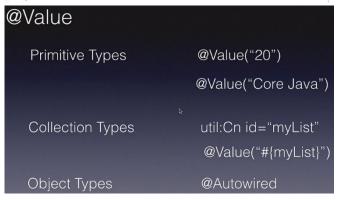
☑ Test.java 

※

```
🚺 Instructor.java 🔀 🔊 config.xml 🕡 Test.java
                                                               Markers Properties
  1 package com.springcoreadvanced.sterotype.annotations;
  3⊖ import org.springframework.context.annotation.Scope;
                                                              <terminated> Test (16) [Java /
  4 import org.springframework.stereotype.Component;
                                                              4월 08, 2023 7:11:11 오
  6 @Component("inst")
                                                              INFO: Refreshing org.sp
    @Scope("prototype")
                                                              4월 08, 2023 7:11:11 오
<u>INFO: Load</u>ing XML bean
    public class Instructor {
                                                              1351478315
         private int id;
                                                              508512860
         private String name;
```

5. 원시타입을 애노테이션 값으로 사용

두 객체의 해시코드 상이 -> 스프링 컨테이너는 두 개의 객체 생성



```
🚺 Instructor.java 🛭 🔊 config.xml
                               Test.java
    package com.springcoreadvanced.sterotype.annotations;
 3 import org.springframework.beans.factory.annotation.Value;
    import org.springframework.context.annotation.Scope;
    import org.springframework.stereotype.Component;
    @Component("inst")
    @Scope("prototype")
 9 public class Instructor {
 10
         ]Value("10")
11⊝
        private int id = 15;
         Walue("woseven")
13⊝
        private String name = "kimht";
14
15
        public int getId() {
    return id;
 16⊖
 17
 18
 19
        public void setId(int id) {
 20⊝
 21
            this.id = id:
 22
 23
        public String getName() {
 24⊝
                                                                 🛃 Markers 🔲 Properties 🚜 Servers 🕻
 25
            return name;
 26
 27
 28⊝
        public void setName(String name) {
                                                                 <terminated> Test (16) [Java Application] C
 29
            this.name = name;
                                                                 4월 08, 2023 11:21:07 오후 org.spi
 30
                                                                 INFO: Refreshing org.springframewo
 31
32⊖
        @Override
                                                                 4월 08, 2023 11:21:07 오후 org.spi
△33
        public String toString() {
                                                                  INFO: Loading XML bean definition:
            return "Instructor [id=" + id + ", name=" + name + "]";
34
                                                                 Instructor [id=10, name=woseven]
 35
                                                                 Instructor [id=10, name=woseven]
36 }
```

- 6. 컬렉션타입을 애노테이션 값으로 사용
- 7. 오브젝트(object) 오토 와이이링(auto-wiring)
- 8. 요약

