



Spring Core -Constructor and Setter Injection



Presented by



## Constructor Injection

Scenario : Employee HAS-A Address.

We can inject the dependency by constructor.

When using constructor injection, setters are not used!

The **<constructor-arg>** sub element of **<bean>** tag is used for constructor injection.

```
<bean id= "lasya" class= "com.mycompany.springcore.setterinjection.Employee">
        <constructor-arg value= "10" type= "int"></constructor-arg>
        <constructor-arg value= "Lasya" type= "String"></constructor-arg>
        </bean>
```





## Setter Injection

Scenario : **Employee HAS-A Address**.

The Address class object will be termed as the **Dependent** object.

The Employee class object will be termed as the **Dependency** 



# Collection Injection - Set

<bean id= "cityBean" class= "com.mycompany.springcore.collectionsinjection.City">





# Collection Injection - List

```
<bean id= "cityBean" class= "com.mycompany.springcore.collectionsinjection.City">
  <!-- java.util.List -->
  property name= "citySet">
    t>
      <value>Bangalore
      <value>Pune</value>
    </list>
  </property>
</bean>
```



### @Autowired

The **@Autowired** annotation allows you to skip configurations for component injection

Component need not be configured for POJO

EX: Without @Autowired

```
<bean id= "countryBean" class= "Country">
  cproperty name= "countryName" value= "India" />
  cproperty name = "capital" ref= "address"/>
  </bean>
  <bean id= "captialBean" class= "Capital">
  cproperty name= "capitalName" value= "New Delhi" />
  </bean>
```

```
public class Country {
    String countryName;
    Capital capital;

public void setCapital(Capital capital) {
    this.capital = capital;
}
```



### @Autowired ...

#### With @AutoWired

```
<context:annotation-config/>
<bean id= "countryBean" class= "Country">
cproperty name= "countryName" value= "India"/>
</bean>
<bean id= "captialBean" class= "Capital">
cproperty name= "capitalName" value= "New Delhi"/>
```

```
public class Country {
    String countryName;
    Capital capital;

@Autowired
public void setCapital(Capital capital) {
    this.capital = capital;
}
```





