

DAY-3

Spring Bean Scopes

loading bean definitions

bean instantiation

bean initialization

bean destruction

It has 2 major types/scopes namely

Singleton	Prototype
single instance	many instance
less memory consumption	more memory consumption

```
package com.infotech.model;

public class Message {

    private int messageld;
    private String message;

    public int getMessageld() {
        return messageld;
    }
    public void setMessageld(int messageld) {
        this.messageld = messageld;
    }
    public String getMessage() {
        return message;
    }
    public void setMessage(String message) {
        this.message = message;
    }
}
```

```
}  
}
```

```
package com.infotech.client;
```

```
import org.springframework.context.ApplicationContext;
```

```
import org.springframework.context.support.AbstractApplicationContext;
```

```
import org.springframework.context.support.ClassPathXmlApplicationContext;
```

```
import com.infotech.model.Message;
```

```
public class ClientTest {
```

```
    public static void main(String[] args) {
```

```
        ApplicationContext ctx = new ClassPathXmlApplicationContext("Beans.xml")
```

```
        Message message = ctx.getBean("message", Message.class);
```

```
        message.setMessageld(1001);
```

```
        message.setMessage("Hello!!");
```

```
        System.out.println(message.getMessageld()+"\t"+message.getMessage());
```

```
        Message message1 = ctx.getBean("message", Message.class);
```

```
        System.out.println(message1.getMessageld()+"\t"+message1.getMessage())
```

```
        ((AbstractApplicationContext) ctx).close();
```

```
    }  
}
```

```

<?xml version="1.0" encoding="UTF-8"?>
<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"
  xsi:schemaLocation="http://www.springframework.org/schema/beans
    http://www.springframework.org/schema/beans/spring-beans.xsd
    http://www.springframework.org/schema/context
    http://www.springframework.org/schema/context/spring-context.xsd">

  <bean id="message" class="com.infotech.model.Message" scope="prototype"

</bean>
</beans>

```



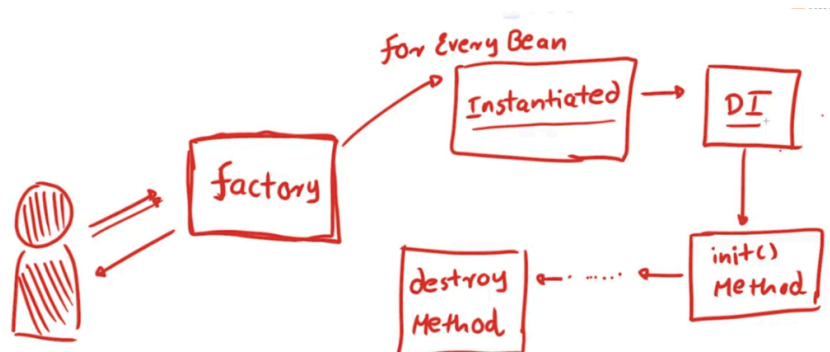
By default the scope value is set to "singleton"

the other types are namely"

request

session

Spring Bean Life-Cycle



difference btw init and destroy methods:

init Method after the bean is created	destroy Method Before the Bean is destroyed
init <u>Your Data</u>	<u>cleanup Bean</u>
singleton	singleton
<u>prototype</u>	⊗