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Spring Core Reference – Cheatsheet

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Factory

=====

```
BeanFactory factory = new XmlBeanFactory(new FileSystemResource(fileName));  
factory.getBean(beanName);
```

```
ApplicationContext context = new ClassPathXmlApplicationContext(fileName);  
context.getBean(beanName);
```

Property

=====

By Value

```
<bean id="beanName" class="org.abcd.efg.AClass">  
<property name="name" value="Rasesh"/>  
</bean>
```

By Reference

```
<bean id="beanName" class="org.abcd.efg.AClass">  
<property name="name" ref="anotherBeanName"/>  
</bean>
```

Constructor

=====

```
<bean id="beanName" class="org.abcd.efg.AClass">  
<constructor-arg index="0" value="Rasesh"/>  
<constructor-arg index="1" ref="anotherBeanName"/>  
</bean>
```

Collections

=====

```
<bean id="beanName" class="org.abcd.efg.AClass">
<property name="names" >
<list>
<ref bean="beanName"/>
<ref bean="anotherBeanName"/>
</list>
</property>
</bean>
```

Autowiring by tags

=====

ByName

```
<bean id="beanName" class="org.abcd.efg.AClass" autowire="byName">
</bean>
```

Here, it will search for the beans with the same name as member variables in AClass and autowire them.

ByType

```
<bean id="beanName" class="org.abcd.efg.AClass" autowire="byType">
</bean>
```

Here, it will try and match the data type of beans and member variables in AClass. If there are multiple beans of same data type, this won't work.

Constructor

```
<bean id="beanName" class="org.abcd.efg.AClass" autowire="constructor">
</bean>
```

This is autowire by Type, but this will set the member variables through constructor instead of setters.

Bean Scopes

=====

Singleton, Prototype

Annotations

=====

@Required

Adding Required annotation to setter will fail when it initializes the bean if the value is null instead of a later NPE when it is referenced.

```
<bean
class="org.springframework.beans.factory.annotation.RequiredAnnotationBeanPostProcessor" />
```

This bean will take care of the process mentioned above.

@Autowired

This works same as auto-wiring by type falling back to auto-wiring by name. If still not found, **qualifier** can be used.

```
<bean id=".....">
<qualifier value="qualifierString"/>
...
</bean>
```

`<context:annotation-config/>` can be used to avoid adding bean post processor for each annotation.

This along with **@Qualifier("qualifierString")** will be able to auto wire the bean.

```
<bean
class="org.springframework.beans.factory.annotation.AutowiredAnnotationBeanPostProcessor"
/>
```

@Resource

This can be used for dependency injection by name. **@Resource(name="beanName")** will wire the bean with specified name.

If name is not specified, it will do auto-wiring by name.

@PostConstruct and **@PreDestroy** can be used for init method and destroy method with `context.registerShutdownHook()`.

@Component

This can be used to avoid xml configuration and spring will create a bean named as the class's name. This can only handle singleton bean.

```
<context:component-scan base-package="org.abcd.efg"/>
```

@Service, @Controller, @Repository

component-scan tag will pick this up as well. These map to MVC data model.

MessageSource to get text from property files

```
=====
```

```
<bean id="messageSource"
class="org.springframework.context.support.ResourceBundleMessageSource">
<property name="basenames">
<list>
<value>mymessages</value>
</list>
</property>
</bean>
```

```
context.getMessage("greeting", null, //message parameter
"Default greeting", null //Locale
);
```

OR

```
MessageSource messageSource = context.getBean("messageSource");
messageSource.getMessage("greeting", null, //message parameter
"Default greeting", null //Locale
);
```

parameter ex:

```
drawing.point=Circle: Point is: ({0}, {1})
```

```
context.getMessage("drawing.point", new Object[] {"val1", "val2"}, "Default point msg", null)
```

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