

用代码学习Spring : IoC、 AOP PDF转换可能丢失图片或格式
，建议阅读原文

https://www.100test.com/kao_ti2020/182/2021_2022_E7_94_A8_E4_BB_A3_E7_A0_81_E5_c104_182515.htm 1

从<http://www.springframework.org>下载Spring2 用eclipse新建Java项目3 建立我们的业务方法接口

```
public interface BusinessObject {  
    public void doSomething(). public void doAnotherThing().}import  
org.apache.commons.logging.Log.import  
org.apache.commons.logging.LogFactory.public interface  
BusinessObject { public void doSomething(). public void  
doAnotherThing().}import  
org.apache.commons.logging.Log.import  
org.apache.commons.logging.LogFactory.
```

4 实现业务方法，注意这是的setWords使用了依赖注入，所谓依赖注入就是把配置文件中的字符串什么的在程序运行时“自动”放到我们的程序中来。如果不是这样，我们就只能在代码中固化这些东西，从而违背了面向对象的依赖倒置原则，还有一种满足依赖倒置的方法，即依赖查询，这就是所谓的factory模式，即在代码中请求某种抽象的东西，然后根据配置得到它，但这种办法向对于依赖注入多了对环境的依赖，且代码冗余，EJB的JNDI查询就属于这种。另外我们的Spring配置文件是以bean为核心的，就是我们写的一个类，在XML中描述它的名称、位置和涵盖的内容、关系。

```
public class BusinessObjectImpl  
implements BusinessObject { private String words. public void  
setWords(String words){ this.words = words. } public void  
doSomething() { Log log = LogFactory.getLog(this.getClass()).
```

```
log.info(words). } public void doAnotherThing() { Log log =  
LogFactory.getLog(this.getClass()). log.info("Another thing").  
}}public class BusinessObjectImpl implements BusinessObject {  
private String words. public void setWords(String words){  
this.words = words. } public void doSomething() { Log log =  
LogFactory.getLog(this.getClass()). log.info(words). } public void  
doAnotherThing() { Log log = LogFactory.getLog(this.getClass()).  
log.info("Another thing"). }}5 建立一个运行方法类，从配置文  
件spring-beans.xml中读入bo这个类的定义，然后实例化一个  
对象import
```

```
org.springframework.beans.factory.xml.XmlBeanFactory.import  
org.springframework.core.io.ClassPathResource.public class Main {  
public static void main(String[] args){ XmlBeanFactory xbf = new  
XmlBeanFactory(new ClassPathResource("spring-beans.xml")).  
BusinessObject bo = (BusinessObject)xbf.getBean("bo").  
bo.doSomething(). bo.doAnotherThing(). }}import  
org.springframework.beans.factory.xml.XmlBeanFactory.import  
org.springframework.core.io.ClassPathResource.public class Main {  
public static void main(String[] args){ XmlBeanFactory xbf = new  
XmlBeanFactory(new ClassPathResource("spring-beans.xml")).  
BusinessObject bo = (BusinessObject)xbf.getBean("bo").  
bo.doSomething(). bo.doAnotherThing(). }}6 建立一个拦截器
```

类invoke是MethodInterceptor必须实现的方法，表示拦截时的
动作，大家仔细体会代码中的含义import

```
org.aopalliance.intercept.MethodInterceptor.import  
org.aopalliance.intercept.MethodInvocation.import
```

```
org.apache.commons.logging.Log import
org.apache.commons.logging.LogFactory public class
MyInterceptor implements MethodInterceptor { private String
before, after. public void setAfter(String after) { this.after = after. }
public void setBefore(String before) { this.before = before. } public
Object invoke(MethodInvocation invocation) throws Throwable {
Log log = LogFactory.getLog(this.getClass()).log.info(before).
Object rval = invocation.proceed().log.info(after).return rval.
}}import org.aopalliance.intercept.MethodInterceptor.import
org.aopalliance.intercept.MethodInvocation.import
org.apache.commons.logging.Log import
org.apache.commons.logging.LogFactory public class
MyInterceptor implements MethodInterceptor { private String
before, after. public void setAfter(String after) { this.after = after. }
public void setBefore(String before) { this.before = before. } public
Object invoke(MethodInvocation invocation) throws Throwable {
Log log = LogFactory.getLog(this.getClass()).log.info(before).
Object rval = invocation.proceed().log.info(after).return rval. }}7
建立配置文件组织上面的类之间的关系，AOP有切入点和增
强这两个重要的概念，把两个概念结合到一起，就是一个在
某个方法执行的时候附加执行，切入点表示在哪里附加，增
强表示附加什么，配置文件中的myPointcut表示切入点
，myInterceptor表示增强的内容，myAdvisor表示增强器，即
两者的结合，在bo这个bean中，我们把这个增强器附加到
了bo这个bean上。正在执行业务方法 执行业务方法前 执行业
务方法后 BusinessObject.doSomething BusinessObject
```

myInterceptor myAdvisor 正在执行业务方法 执行业务方法前
执行业务方法后 BusinessObject.doSomething BusinessObject
myInterceptor myAdvisor 8 运行Main类，观察控制台输出结果
，重新审查代码，反思为什么会出现这种结果。 100Test 下载
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www.100test.com