

```
/*
Pro Spring
By Rob Harrop
Jan Machacek
ISBN: 1-59059-461-4
Publisher: Apress
*/
```

```
////////////////////////////////////
////
//File: beans.xml
```

```
<!DOCTYPE beans PUBLIC "-//SPRING//DTD BEAN//EN" "http://www.springframework.org/dtd/spring-beans.dtd">
<beans>
  <!-- hierarchical bean factories -->
  <bean id="target1" class="SimpleTarget">
    <property name="val">
      <ref bean="injectBeanParent"/>
    </property>
  </bean>

  <bean id="target2" class="SimpleTarget">
    <property name="val">
      <ref local="injectBean"/>
    </property>
  </bean>

  <bean id="target3" class="SimpleTarget">
    <property name="val">
      <ref parent="injectBean"/>
    </property>
  </bean>

  <bean id="injectBean" class="java.lang.String">
    <constructor-arg>
      <value>Bean In Child</value>
    </constructor-arg>
  </bean>
</beans>
```

```
////////////////////////////////////
////
//File: parent.xml
```

```
<!DOCTYPE beans PUBLIC "-//SPRING//DTD BEAN//EN" "http://www.springframework.org/dtd/spring-beans.dtd">
<beans>
  <bean id="injectBean" class="java.lang.String">
    <constructor-arg>
      <value>Bean In Parent</value>
    </constructor-arg>
  </bean>
  <bean id="injectBeanParent" class="java.lang.String">
    <constructor-arg>
      <value>Bean In Parent</value>
    </constructor-arg>
  </bean>
</beans>
```

```
</bean>
</beans>
```

```
////////////////////////////////////
////
public class SimpleTarget {

    private String val;

    public void setVal(String val) {
        this.val = val;
    }

    public String getVal() {
        return val;
    }
}

////////////////////////////////////
////
import org.springframework.beans.factory.BeanFactory;
import org.springframework.beans.factory.xml.XmlBeanFactory;
import org.springframework.core.io.FileSystemResource;

public class HierarchicalBeanFactoryUsage {

    public static void main(String[] args) {
        BeanFactory parent = new XmlBeanFactory(new FileSystemResource(
            "build/parent.xml"));
        BeanFactory child = new XmlBeanFactory(new FileSystemResource(
            "build/beans.xml"), parent);

        SimpleTarget target1 = (SimpleTarget) child.getBean("target1");
        SimpleTarget target2 = (SimpleTarget) child.getBean("target2");
        SimpleTarget target3 = (SimpleTarget) child.getBean("target3");

        System.out.println(target1.getVal());
        System.out.println(target2.getVal());
        System.out.println(target3.getVal());
    }
}
```