

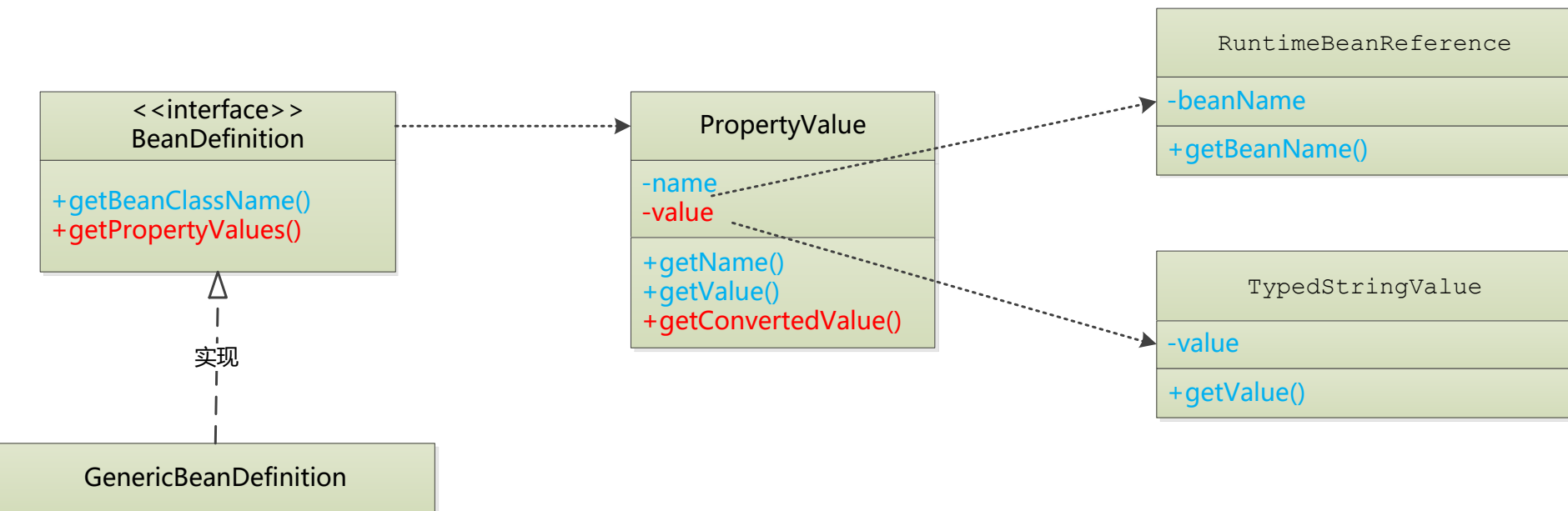
编程提高群第三季

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```
<bean id="petStore"
      class="org.litespring.service.v2.PetStoreService" >
```

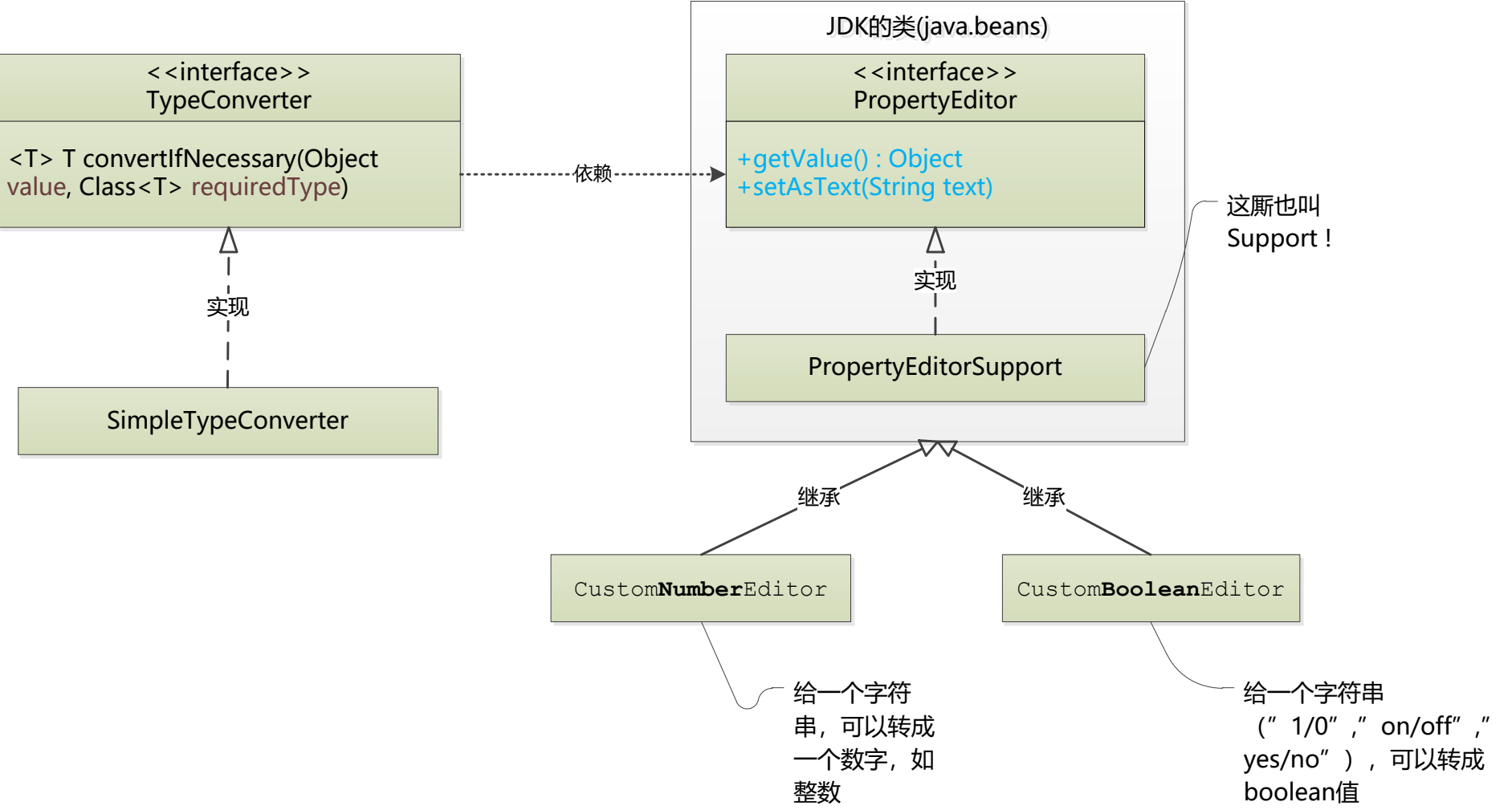
```
  <property name="accountDao" ref="accountDao"/>
```

```
  <property name="itemDao" ref="itemDao"/>
```

```
  <property name="owner" value="liuxin"/>
```

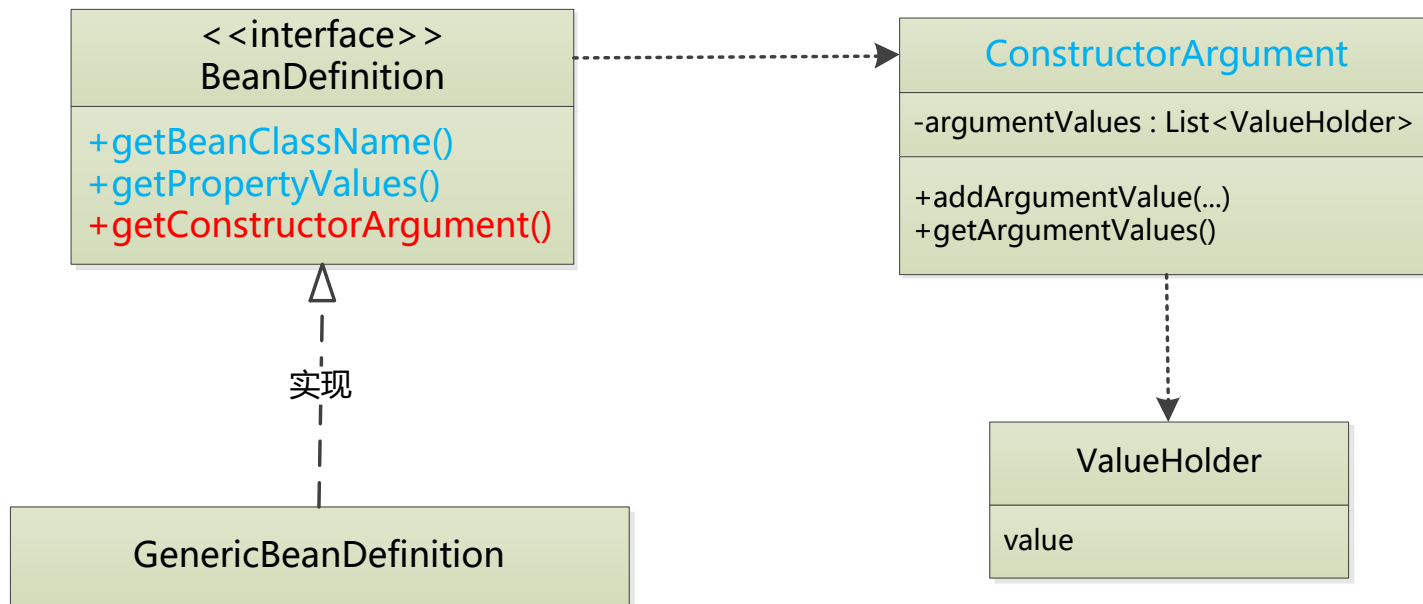
```
  <property name="version" value="2"/>
```

```
</bean>
```



类型转换的“捷径”： Commons BeanUtils

- `BeanUtils.setProperty(bean, propertyName,propertyValue)`
 - `bean` : java对象, 例如 **petStore**
 - `propertyName`, 例如: “**version**”, “**accountDao**”
 - `propertyValue`, 例如: **3**, **accountDao对象**



```
<bean id="petStore"
      class="org.litespring.service.v3.PetStoreService" >
  <constructor-arg ref="accountDao"/>
  <constructor-arg ref="itemDao"/>
  <constructor-arg value="1"/>
</bean>
```

A blue arrow points from the `ref="accountDao"` attribute in the XML snippet to the **ValueHolder** class in the diagram above.

为什么要有ValueHolder

为了简化，我们仅支持这种情况！

```
<bean id="foo" class="x.y.Foo">
  <constructor-arg ref="bar"/>
  <constructor-arg ref="example"/>
  <constructor-arg value="xxx"/>
</bean>
```

```
<bean id="exampleBean" class="examples.ExampleBean">
  <constructor-arg type="int" value="7500000"/>
  <constructor-arg type="java.lang.String" value="42"/>
</bean>
```

```
<bean id="exampleBean" class="examples.ExampleBean">
  <constructor-arg name="years" value="7500000"/>
  <constructor-arg name="ultimateanswer" value="42"/>
</bean>
```

```
<bean id="exampleBean" class="examples.ExampleBean">
  <constructor-arg index="0" value="7500000"/>
  <constructor-arg index="1" value="42"/>
</bean>
```

ValueHolder

-name
-type
-value

套路，都是套路

- 和setter注入类似
 - 设计一个数据结构 PropertyValue /ConstructorArgument
 - 解析XML,填充这个数据结构
 - 利用这个数据结构做事情

一个类有多个构造函数，选择哪一个？

```
public PetStoreService(AccountDao accountDao, ItemDao itemDao){  
    this.accountDao = accountDao;  
    this.itemDao = itemDao;  
    this.version = 0;  
}  
  
public PetStoreService(AccountDao accountDao, ItemDao itemDao, int version){  
    this.accountDao = accountDao;  
    this.itemDao = itemDao;  
    this.version = version;  
}
```

```
<bean id="petStore"  
      class="com.coderising.service.v3.PetStoreService" >  
    <constructor-arg ref="accountDao"/>  
    <constructor-arg ref="itemDao"/>  
    <constructor-arg value="1.1"/>  
</bean>
```


ConstructorResolver

- beanFactory

+ findConstructor(BeanDefinition bd) :Constructor
+ autowireConstructor(BeanDefinition bd) :Object

作业：选择哪个构造函数？

```
public PetStoreService(AccountDao accountDao, ItemDao itemDao,int version){
    this.accountDao = accountDao;
    this.itemDao = itemDao;
    this.version = version;
}

public PetStoreService(AccountDao accountDao, ItemDao itemDao,String version){
    this.accountDao = accountDao;
    this.itemDao = itemDao;
    this.version = version;
}
```

```
<bean id="petStore"
      class="com.coderising.service.v3.PetStoreService" >
    <constructor-arg ref="accountDao"/>
    <constructor-arg ref="itemDao"/>
    <constructor-arg value="1"/>
</bean>
```