

Spring<XML> est mort

Vive Spring NoXML

par Gildas Cuisinier  
@gcuisinier

[sf≡ir]

# whois(@gcuisinier)

Maître Artisan Développeur, Sfeir Benelux

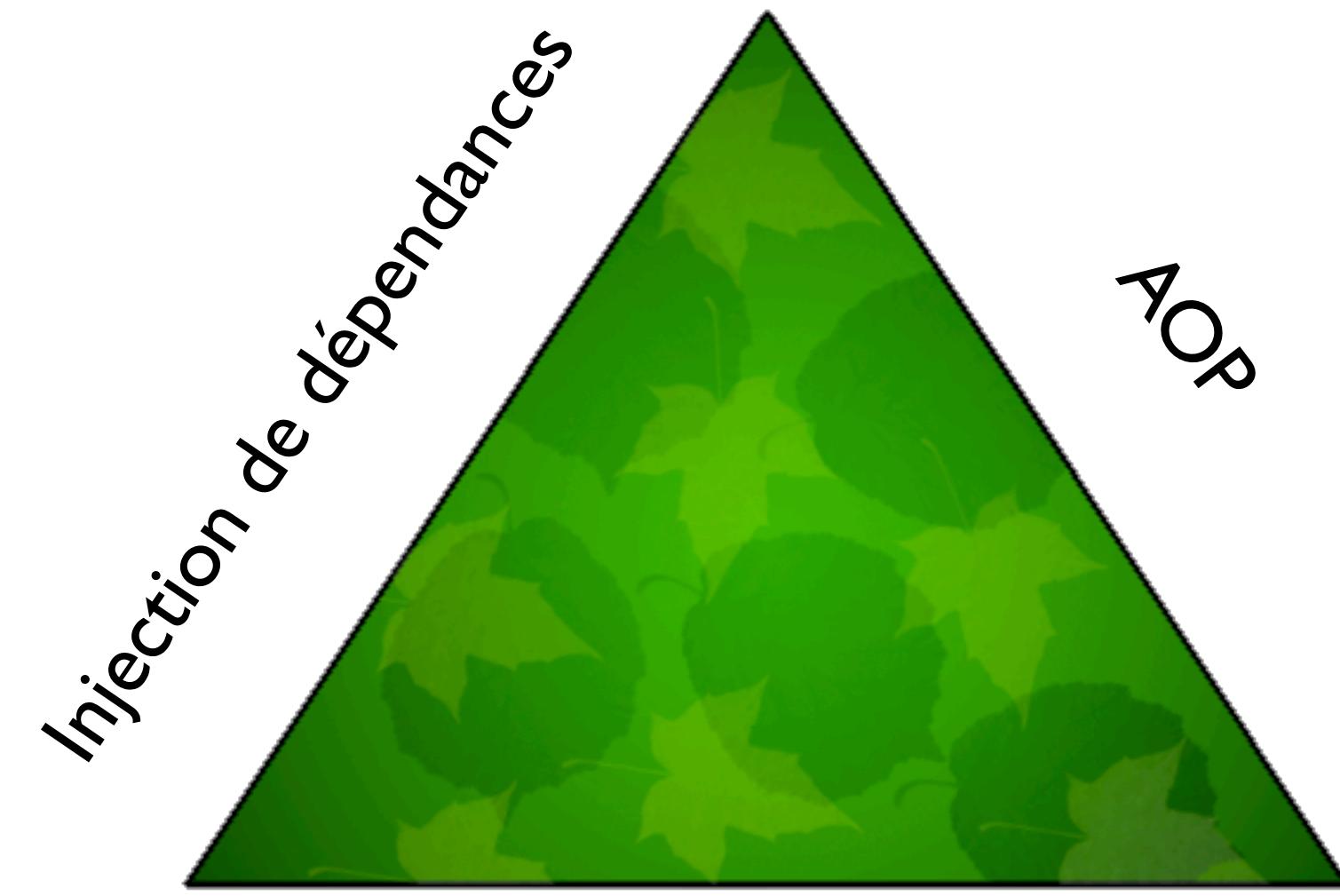
Initiateur de la section Spring de  
@Developpez.com

Selecteur de plusieurs livres sur Spring

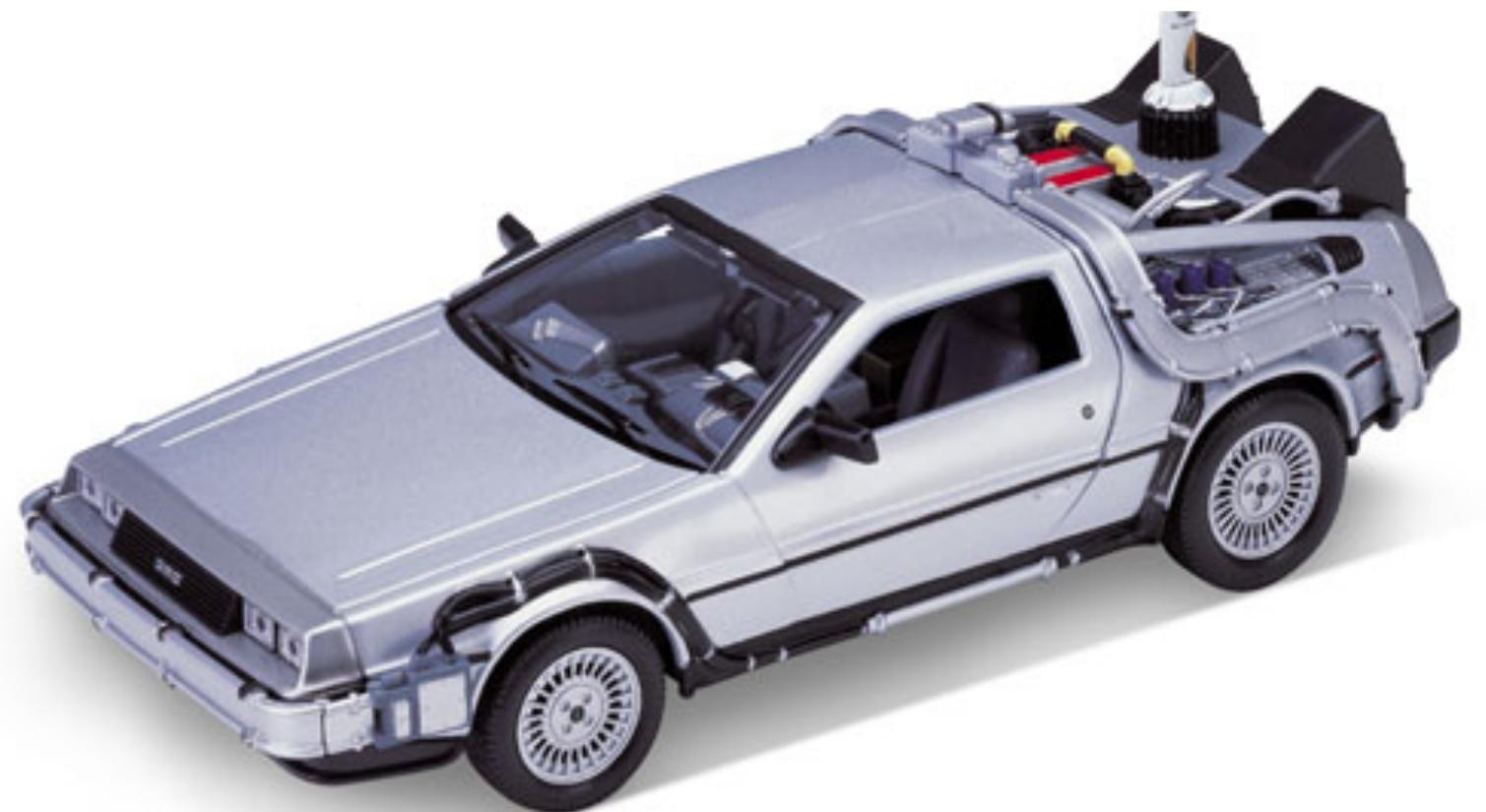
Evangéliste Spring ( JUGs, Devoxx France )



# [ Spring ? ]



Abstraction de services



Retour en 2004

# Spring 1.0

```
1 <bean id="monBean" class="be.hikage.service.MyService">
2   <property name="version" value="maVersion"/>
3 </bean>
4
5 <bean />
6 <bean />
7 <bean />
8 <bean />
9 <bean />
10 <bean />
```



# Spring 1.2

```
1 <bean id="monBean" class="be.hikage.service.MyService">
2   <property name="version" value="maVersion"/>
3 </bean>
4
5 <import resource="service-layer.xml"/>
6 <import resource="dao-layer.xml"/>
7 <import resource="disp-layer.xml"/>
```



# Spring 1.2

## **org.springframework.transaction.annotation Annotation Type Transactional**

```
@Target(value={METHOD,TYPE})  
@Retention(value=RUNTIME)  
@Inherited  
@Documented  
public @interface Transactional
```

Describes transaction attributes on a method or class.

This annotation type is generally directly comparable to Spring's [RuleBasedTransactionAttribute](#) class, so that Spring's transaction support code does not have to know about annotations like [DefaultTransactionAttribute](#) (rolling back on runtime exceptions).

For specific information about the semantics of this annotation's attributes, consider the [Transactional](#) class.

**Since:**

1.2

**Author:**

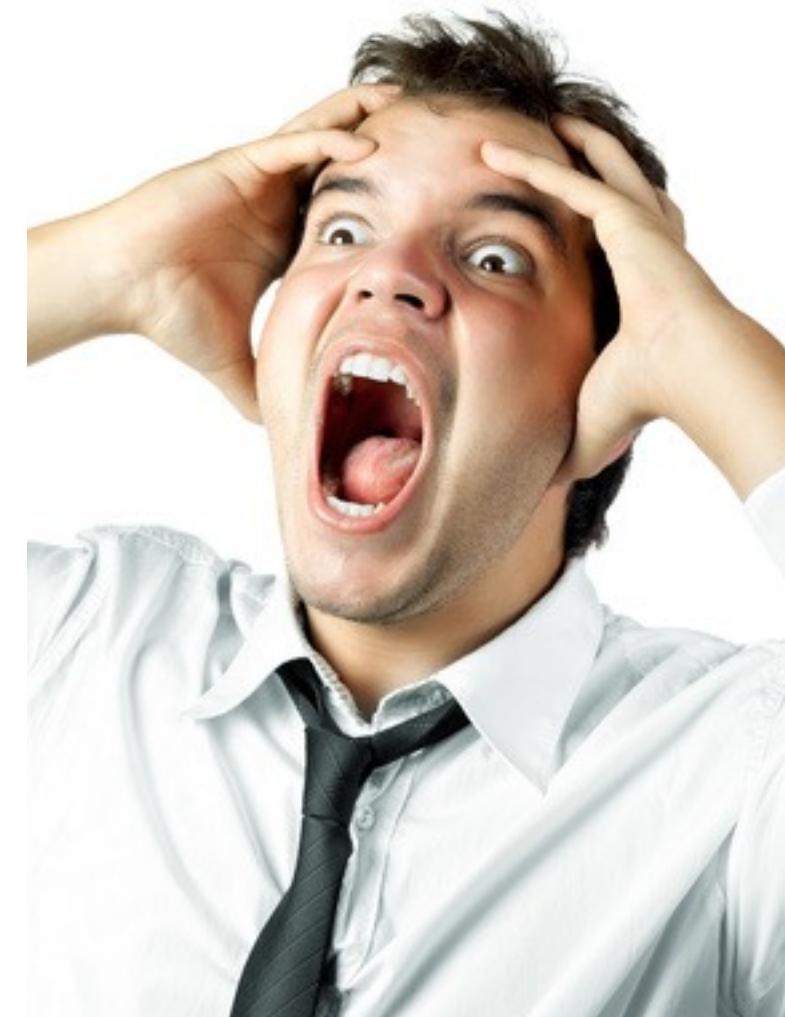
Colin Sampaleanu, Juergen Hoeller

**See Also:**

[TransactionalAttribute](#), [DefaultTransactionAttribute](#), [RuleBasedTransactionAttribute](#)



```
1 <bean id="filterChainProxy"
2   class="org.acegisecurity.util.FilterChainProxy">
3   <property name="filterInvocationDefinitionSource">
4     <value>
5       CONVERT_URL_TO_LOWERCASE_BEFORE_COMPARISON
6       PATTERN_TYPE_APACHE_ANT
7     /login=
8       httpSessionContextIntegrationFilter
9     /login.form=
10    httpSessionContextIntegrationFilter
11   /assets/**=
12     httpSessionContextIntegrationFilter
13   /j_acegi_security_check=
14     httpSessionContextIntegrationFilter,
15     formAuthenticationProcessingFilter
16   /**=*
17     httpSessionContextIntegrationFilter,
18     exceptionTranslationFilter
19   </value>
20 </property>
21 </bean>
22 <bean id="httpSessionContextIntegrationFilter"
23   class="org.acegisecurity...HttpSessionContextIntegrationFilter">
24 </bean>
25 <bean id="formLoginAuthenticationEntryPoint"
26   class="org.acegisecurity...AuthenticationProcessingFilterEntryPoint">
27   <property name="loginFormUrl" value="/login"/>
28   <property name="forceHttps" value="false"/>
29 </bean>
30 </beans>
```



# Spring 2.0

```
1 <security:http auto-config="true">
2   <security:intercept-url pattern="/login*"
3     access="IS_AUTHENTICATED_ANONYMOUSLY"/>
4   <security:intercept-url pattern="/logoutSuccess*"
5     access="IS_AUTHENTICATED_ANONYMOUSLY"/>
6   <security:intercept-url pattern="/css/main.css"
7     access="IS_AUTHENTICATED_ANONYMOUSLY"/>
8   <security:intercept-url pattern="/**"
9     access="ROLE_USER"/>
10
11  <security:form-login login-page="/login.html"
12    login-processing-url="/loginProcess"
13    default-target-url="/index.jsp"
14  <security:logout logout-url="/logout"
15    logout-success-url="/logoutSuccess.html"/>
16 </security:http>
```



# Spring 2.5

```
1 @Controller  
2 public class MyController {  
3  
4     private MyService myService;  
5  
6     @Autowired  
7     public void setMyService(MyService myService) {  
8         this.myService = myService;  
9     }  
10  
11 }
```

```
1 <context:component-scan base-package="be.hikage" />
```



# Spring 3.0

```
1 @Configuration  
2 public class ApplicationConfig {  
3  
4     @Bean  
5     public MyService myService() {  
6         return new MyService();  
7     }  
8  
9 }
```



# Spring 3.0

```
1 @Configuration // <beans>
2 public class ApplicationConfig {
3
4     @Bean //<bean id="myService">
5     public MyService myService() {
6         return new MyService();
7     }
8
9 }
```

```
1 ApplicationContext factory =
2         new AnnotationConfigApplicationContext(ApplicationConfig.class)
```



# Spring 3.0

```
1 @Component  
2 public class MyComponent {  
3     @Value("Hello")  
4     private String message;  
5     public void sayHello() {  
6         System.out.println(message);  
7     }  
8 }  
9 }
```

```
1 <context:component-scan base-package="com.hikage" />  
2 <task:annotation-scheduler .. />
```



# Spring 3.1 @nnotations ++

# @ComponentScan

```
1 <context:component-scan  
    base-package="be.hikage"/>
```

```
1 @Configuration  
2 @ComponentScan("be.hikage")  
3 public class ApplicationConfig
```



# @EnableScheduling

```
1 public class MaTache {  
2  
3     @Scheduled(fixedRate = 1000)  
4     public void execute() {  
5         System.out.println("Maman, je parle  
6             au ParisJUG");  
7     }  
8 }
```



# @EnableScheduling

```
1 <task:annotation-driven />
```

```
1 @Configuration  
2 @EnableScheduling  
3 public class ApplicationConfig {  
4 }
```



# @EnableScheduling

```
1 @Target(ElementType.TYPE)
2 @Retention(RetentionPolicy.RUNTIME)
3 @Import(SchedulingConfiguration.class)
4 @Documented
5 public @interface EnableScheduling {
6
7 }
```



# @EnableScheduling

```
1 @Configuration
2 public class SchedulingConfiguration {
3
4     @Bean(name=AnnotationConfigUtils.SCHEDULED_ANNOTATION_PROCESSOR_BEAN_NAME)
5     @Role(BeanDefinition.ROLE_INFRASTRUCTURE)
6     public ScheduledAnnotationBeanPostProcessor scheduledAnnotationProcessor() {
7         return new ScheduledAnnotationBeanPostProcessor();
8     }
9
10 }
```



# @EnableCaching

```
1 @Service
2 public class CalculateurPrix {
3
4     @Cacheable(value = "price")
5     public Double calculePrix(String reference){
6         // calcul long et complexe
7         return 42L;
8     }
9
10
11
12
13
14 }
```

# @EnableCaching

```
1 @Service
2 public class CalculateurPrix {
3
4     @Cacheable(value = "price")
5     public Double calculePrix(String reference){
6         // calcul long et complexe
7         return 42L;
8     }
9
10    @CacheEvict(value = "price",allEntries = true)
11    public void setRistourne(Float indice){
12
13    }
14 }
```

# @EnableCaching

```
1 <caching:annotation-driven />
2
3     <bean class="org.springframework.cache
4         .concurrent.ConcurrentMapCacheManager"/>
```



# @EnableCaching

```
1 @Configuration  
2 @EnableCaching  
3 public class ApplicationConfig {  
4  
5     @Bean  
6     CacheManager cacheManager() {  
7         return  
8             new ConcurrentMapCacheManager();  
9     }  
10 }
```



# Abstraction de Cache

[≡] Out of the Box

❖ ConcurrentHashMap

❖ EhCache

[≡] GemFire

[≡] JCache (Spring 3.2/3.3)



# @EnableWebMvc

```
1 <mvc:annotation-driven />
```

```
1 @Configuration  
2 @EnableWebMvc  
3 public class WebConfig {  
4 }
```

LSE1r

# @EnableWebMvc

```
1 <mvc:annotation-driven/>
2 <mvc:interceptors>
3   <bean class="osf..LocaleChangeInterceptor"/>
4 </mvc:interceptors>
```



# [ @EnableWebMvc + WebMvcConfigurerAdapter ]

```
1 @Configuration  
2 @EnableWebMvc  
3 public class WebConfig  
4     extends WebMvcConfigurerAdapter{  
5  
6     @Override  
7     public void addInterceptors(InterceptorRegistry registry) {  
8         registry.addInterceptor(new LocaleChangeInterceptor());  
9     }  
10 }
```



# @EnableWebMvc

- Ajout Intercepteur
- Configuration de ViewController
- Ajout de ResourceHandler
- Ne permet pas une configuration fine

→ ~~@EnableWebMvc~~ et étendre  
WebMvcConfigurationSupport

[ @Enable\* ]

[≡] EnableAsync

[≡] EnableAspectJAutoProxy

[≡] EnableSpringConfigured

[≡] EnableLoadTimeWeaving

[≡] EnableTransactionManagement

[Sfeir]

# Testing 2.5

```
1 @RunWith(SpringJUnit4ClassRunner.class)
2 @ContextConfiguration("test-config.xml")
3 public class MyTest {
4     @Autowired
5     MyService service;
6
7     @Test
8     public void myTest(){
9     }
10 }
```



# Testing 3.1

```
1 @RunWith(SpringJUnit4ClassRunner.class)
2 @ContextConfiguration(classes = TestConfig.class)
3 @ActiveProfiles("test")
4 public class MyTest {
5     @Autowired
6     MyService service;
7
8     @Test
9     public void myTest(){
10    }
11 }
```



# Servlet 3.0

```
1 public class WebInitializer implements WebApplicationInitializer {  
2  
3     @Override  
4     public void onStartup(ServletContext servletContext) throws ServletException {  
5  
6         AnnotationConfigWebApplicationContext context =  
7             new AnnotationConfigWebApplicationContext();  
8         context.register(WebMvcConfig.class);  
9  
10        ServletRegistration.Dynamic servletConfig =  
11            servletContext.addServlet("dispatcher", new DispatcherServlet(context));  
12        servletConfig.setLoadOnStartup(1);  
13        servletConfig.addMapping("*.do");
```

[ DEMO ]

Spring 3.1 bis

# @Profile

```
1 @Configuration  
2 public class ApplicationConfig {  
3  
4     @Bean  
5     DataSource dataSource(){  
6         JndiObjectFactoryBean result = new  
7             JndiObjectFactoryBean();  
8         result.setJndiName("jdbc/dataSource");  
9         return (DataSource) result.getObject();  
10    }  
11 }
```

# <Profile />

```
1 <beans profile="dev">
2   <jdbc:embedded-database id="dataSource">
3     <jdbc:script location="schema.sql"/>
4     <jdbc:script location="test-data.sql"/>
5   </jdbc:embedded-database>
6 </beans>
```



# Activation

```
1 <webapp>
2   <context-param>
3     <param-name>spring.profiles.active</param-name>
4     <param-value>dev</param-value>
5   </context-param>
6 </webapp>
```



# Activation

```
1 <servlet>
2   <servlet-name>dispatcher</servlet-name>
3   <servlet-class>osf.web.servlet.DispatcherServlet</servlet-class>
4   <init-param>
5     <param-name>spring.profiles.active</param-name>
6     <param-value>dev</param-value>
7   </init-param>
8 </servlet>
```



# [Spring 3.1, c'est aussi]

- [-] Support Hibernate 4
- [-] Namespace c:
- [-] JPA sans Persistence.xml
- [-] ...



Spring 3.2

# Spring 3.2

- ☰ Spring 3.2 RC1 - Release début Novembre
  - ☰ Principalement des améliorations de l'existant
  - ☰ Support des contrôleurs asynchrones dans WebMVC
  - ☰ Amélioration du testing (REST, MVC)
- ☰ Release prévue pour le 12/12/12 ;-)

## ☰ Spring 3.3

- ☰ JEE 7 : JPA 2.1, Bean Validation 1.1, JMS 2



[ Spring est mort ? ]

[ Spring en 2003 ]



[Sf=ir]

# Spring en 2012



SpringData



SpringMobile



Spring Web Services



SpringAndroid



SpringSocial

# Conclusions

Questions ?