

Spring<XML> est mort

Vive Spring NoXML

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@gcuisinier

[sf≡ir]

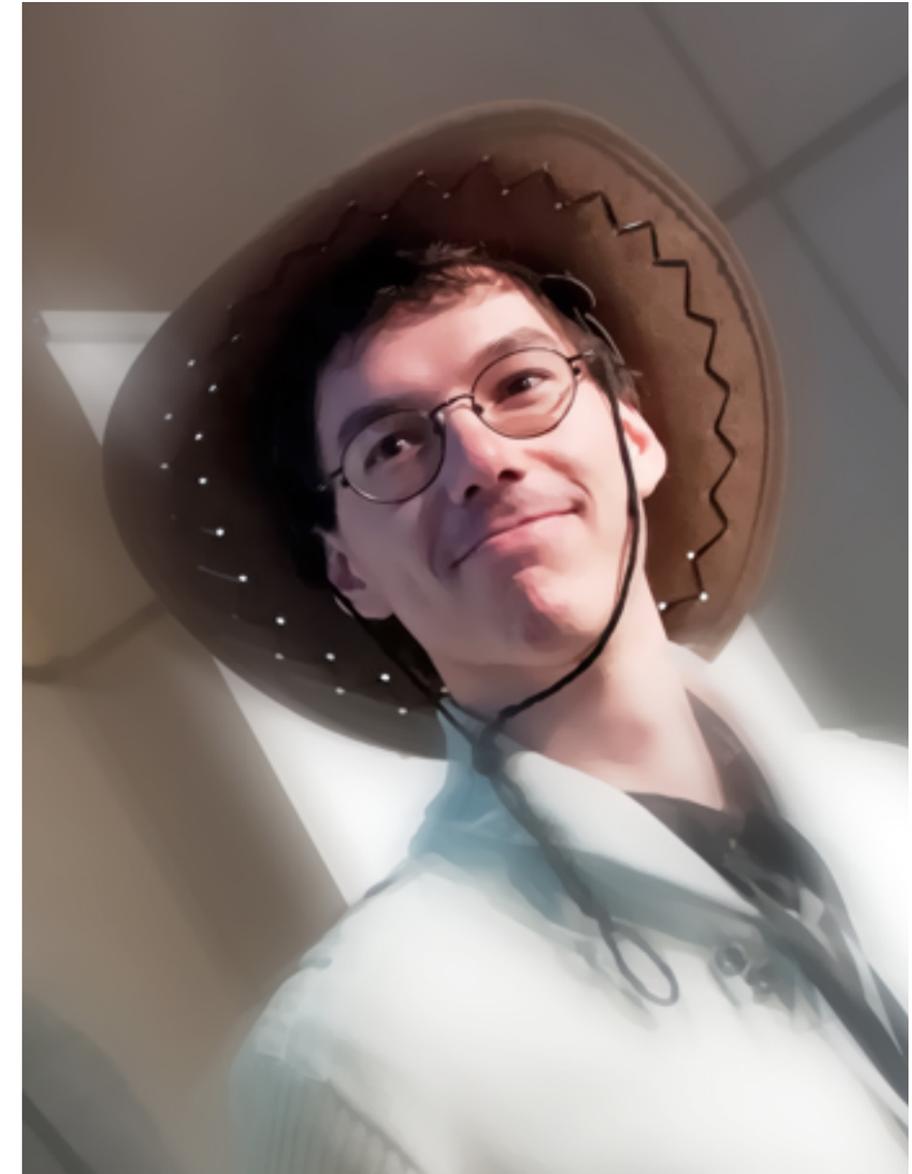
# whois (@gcuisinier)

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Initiateur de la section Spring de  
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Evangeliste 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 />
```

[sf=ir]

# 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" />
```

[sf=ir]

# 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. It is similar to the latter class, so that Spring's transaction support code does not have to know about annotations. It is similar to `DefaultTransactionAttribute` (rolling back on runtime exceptions).

For specific information about the semantics of this annotation's attributes, consider the `Transactional` interface.

### Since:

1.2

### Author:

Colin Sampaleanu, Juergen Hoeller

### See Also:

`TransactionAttribute`, `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
```



[STIR]

# 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 }
```

[sf=ir]

# 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 ... {
3
4     @Autowired
5     private ...
6     private ...
7 }
8
9 }
```

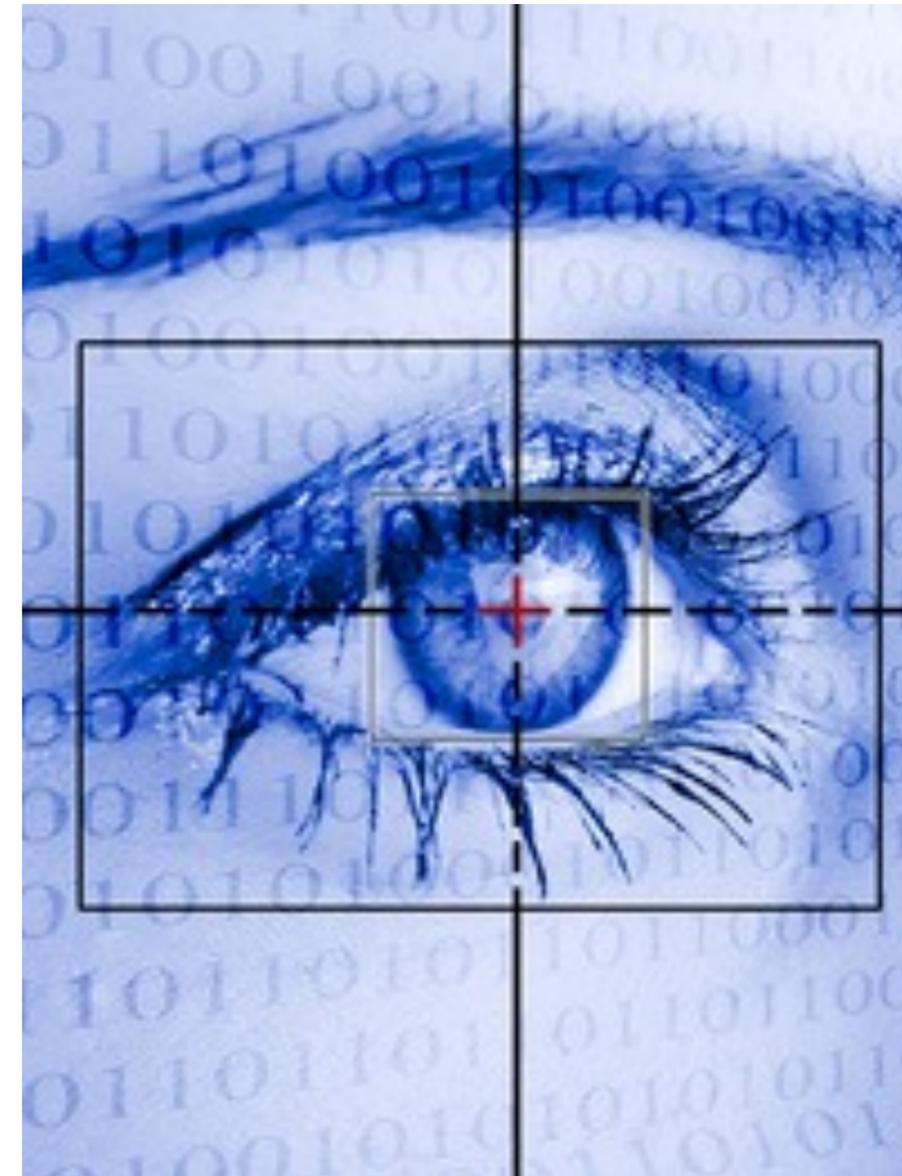
```
1 <context:component-scan base-package="..." />
2 <task:annotation-driven proxy-target-class="..." />
```

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     }  
}
```



# @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 }
```

[sf=ir]

# @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 }
```

[Steir]

# @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" />
```

[sf=ir]

# @EnableCaching

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

[Steir]

# Abstraction de Cache

☰ Out of the Box

☒ ConcurrentHashMap

☒ EhCache

☰ GemFire

☰ JCache (Spring 3.2/3.3)

[sf=ir]

# @EnableWebMvc

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

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

[STETR]

# @EnableWebMvc

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

[sf=ir]

# @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 }
```

[sf=ir]

# @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

[sf≡ir]

# 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 }
```

[sf=ir]

# 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 }
```

[sf=ir]

# 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");
14    }
15 }
```



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 }
```

<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>
```

[sf=ir]

# 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>
```

[sf=ir]

# 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>
```

[sf=ir]

# [Spring 3.1, c'est aussi]

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

[sf≡ir]



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

[sfair]



Spring est mort ?

[ Spring en 2003 ]



[sf≡ir]

# Spring en 2012



SpringData



SpringMobile



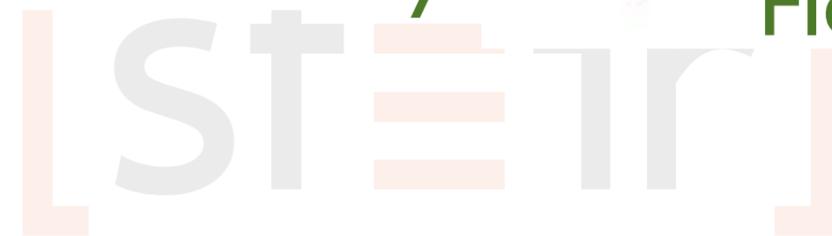
Spring Web Services



SpringAndroid



SpringSocial





# Conclusions



Questions ?