

AGENDA Requisitos Introducción Escenarios Contenedor Ejemplo

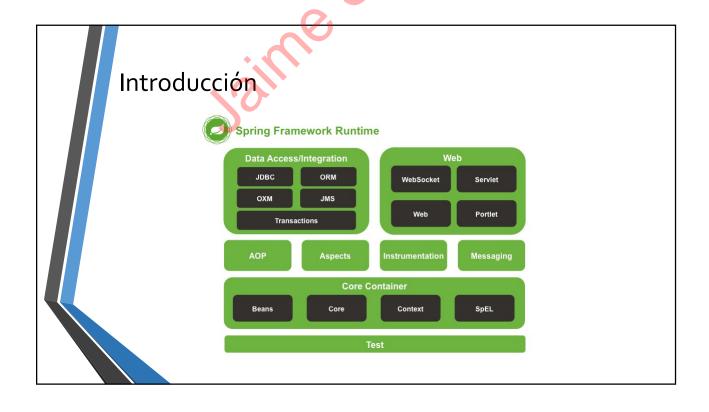
Introducción

QUE ES SPRING?

Introducción

- Spring es un framework lightweight para la construcción de aplicaciones Java.
- "The Spring Framework is a lightweight solution and a potential one-stop-shop for building your enterprise-ready applications."
- Spring fue creado como una alternative a la tecnología J2EE, específicamente la tecnología EJB
- Lightweight: ligero, liviano





Introducción Core Container Core Container Core, Beans: Proporciona la parte fundamental de Spring: loC y DI Factory Pattern http://es.wikipedia.org/wiki/Factory_Method_%28patr%C3%B3n_de_dise%C3%B1_0%29 Context: Similar a JNDI SpEL: Expression Language para la manipulación de un grafo de objetos





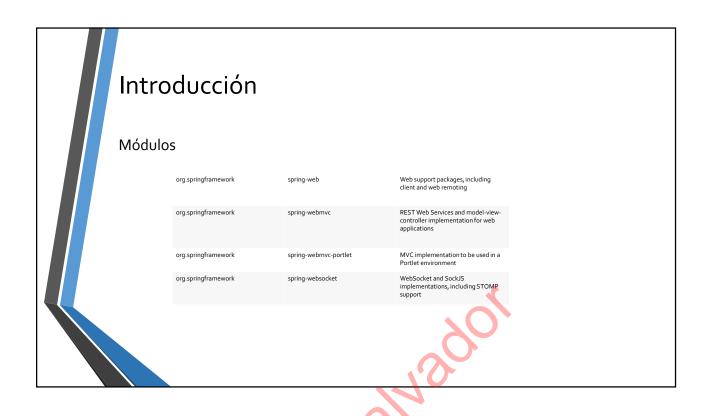


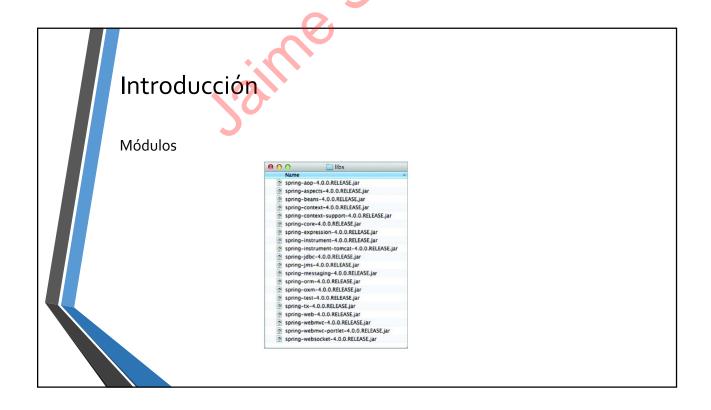




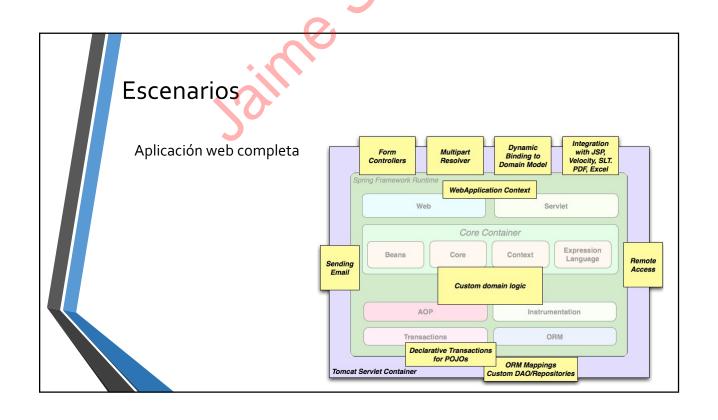
Introducción Módulos GroupId ArtifactId Description org.spring frameworkProxy-based AOP support spring-aop org.springframework AspectJ based aspects spring-aspects org.springframework spring-beans Beans support, including Groovy org.springframework spring-context Application context runtime, including scheduling and remoting abstractions Support classes for integrating common third-party libraries into a Spring application context org.spring frameworkspring-context-support Core utilities, used by many other org.springframework spring-core Spring modules org.springframework Spring Expression Language (SpEL) spring-expression org. spring frameworkspring-instrument Instrumentation agent for JVM bootstrapping

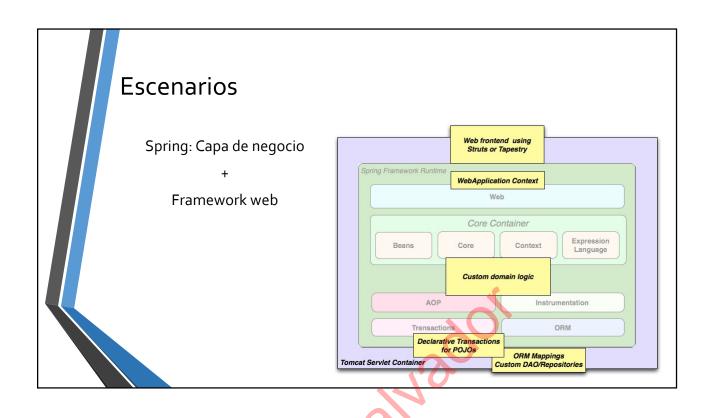
Introducción Módulos org.springframework spring-instrument-tomcat Instrumentation agent for Tomcat JDBC support package, including DataSource setup and JDBC access org.springframework spring-jdbc support org.springframework JMS support package, including helper classes to send and receive JMS messages spring-jms org.springframework Support for messaging architectures spring-messaging and protocols org.springframework Object/Relational Mapping, including JPA and Hibernate support org.springframework Object/XML Mapping spring-oxm Support for unit testing and integration testing Spring components org.spring frameworkspring-test Transaction infrastructure, including DAO support and JCA integration org.spring frameworkspring-tx

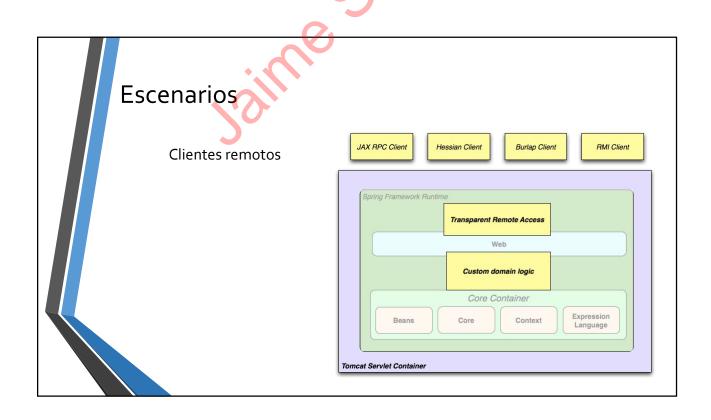












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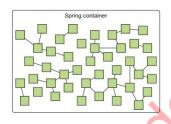
Contenedor

• En una aplicación SPRING los objetos viven en?

Contenedor

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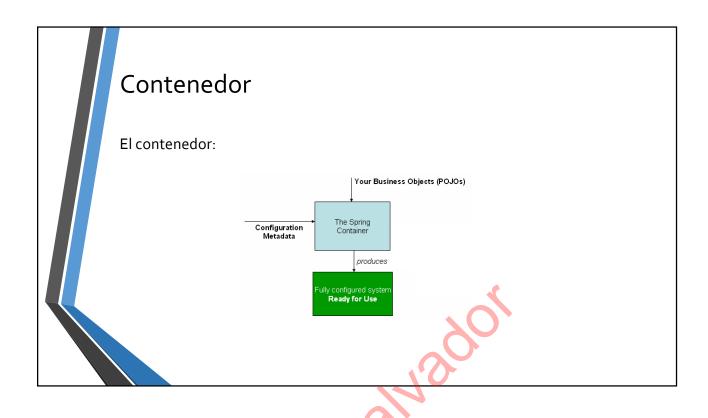
CONTENEDOR



Contenedor

El contenedor:

- Crea objetos
- Los conecta
- Los configura
- Maneja el cliclo de vida



Contenedor Tipos de contenedores: * BeanFactory: soporte básico para DI * ApplicationContext: proporciona servicios adicionales

Contenedor

Tipos de contenedores: ApplicationContext

- AnnotationConfigApplicationContext
- AnnotationConfigWebApplicationContext
- ClassPathXmlApplicationContext
- FileSystemXmlApplicationContext
- XmlWebApplicationContext

Contenedor

ClassPathXmlApplicationContext

ApplicationContext context = new ClassPathXmlApplicationContext("app.xml");

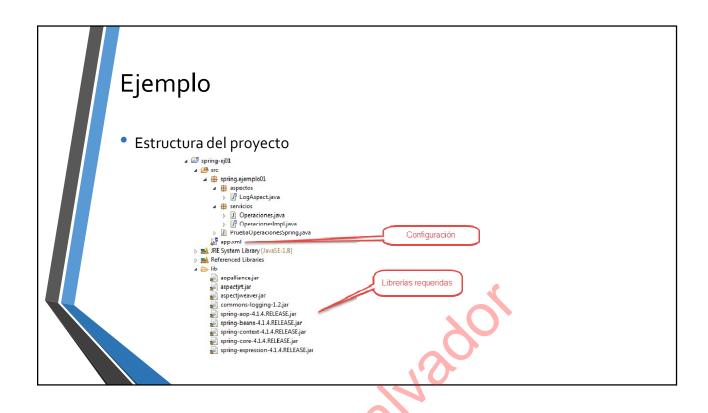
Contenedor

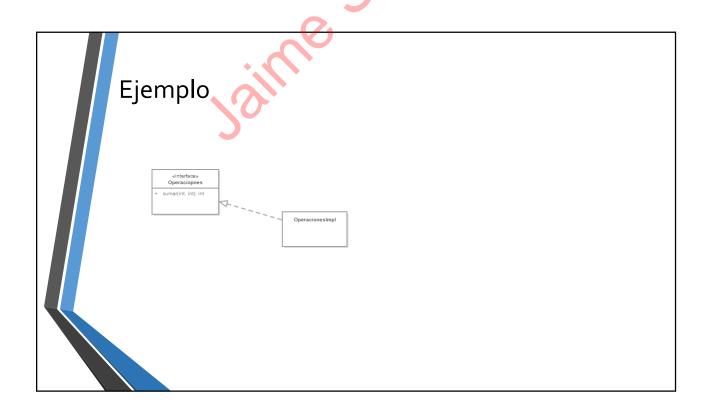
 ${\tt ClassPathXmlApplicationContext}$

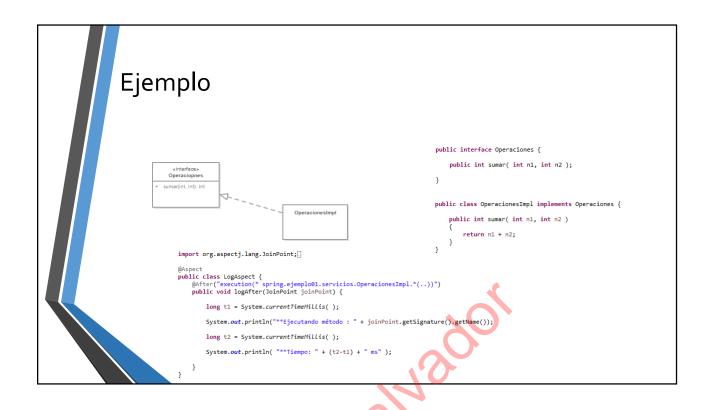
ApplicationContext context = new FileSystemXmlApplicationContext("c:/app.xml");

AGENDA

- Requisitos
- Introducción
- Escenarios
- Contenedor
- Ejemplo









```
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.classPathMalApplicationContext;
import spring.ejemplool.servicios.Operaciones;
public class PruebaloperacionesSpring {
    @usuppressMarnings("resource")
    public static void main(String[] args) {
        ApplicationContext context = new ClassPathMalApplicationContext( "app.xml" );
        Operaciones servicio = context.getBean( "servicioOperaciones", Operaciones.class );
    int respuesta = servicio.sumar( 7, 5 );
        System.out.println( "Respuesta: " + respuesta );
    }
}
```





Bibliografía

- Craig Walls. Spring in Action, Fourth Edition. Manning, 2015.
- Chros Schaefer, Clarence Ho, and Rob Harrop. Pro Spring. Apress, 2014.
- http://docs.spring.io/spring/docs/current/spring-framework-reference/htmlsingle/, consultada el 2015-05-17,