

What is Spring

Dependency Injection

Compliments JEE

Dependency Injection

```
class A{  
    B b;  
    doAStuff(){  
        b.doBStuff();  
    }  
}  
  
class B{  
    doBStuff(){  
        .....  
    }  
}
```

Inversion Of Control

Spring and JEE

Struts/JSF Integration

Spring MVC

security

transactions

Spring JDBC

Spring ORM

UI Layer

Services/Business Layer

Data Access Layer

DB

OrderController

OrderService

OrderDAO

Spring Modules

Data Access/Integration

JDBC

ORM

JMS

Transaction

AOP

Aspects

Instrumentation

Messaging

Web

MVC

Portlet

WebSocket

Servlet

Core Container

beans

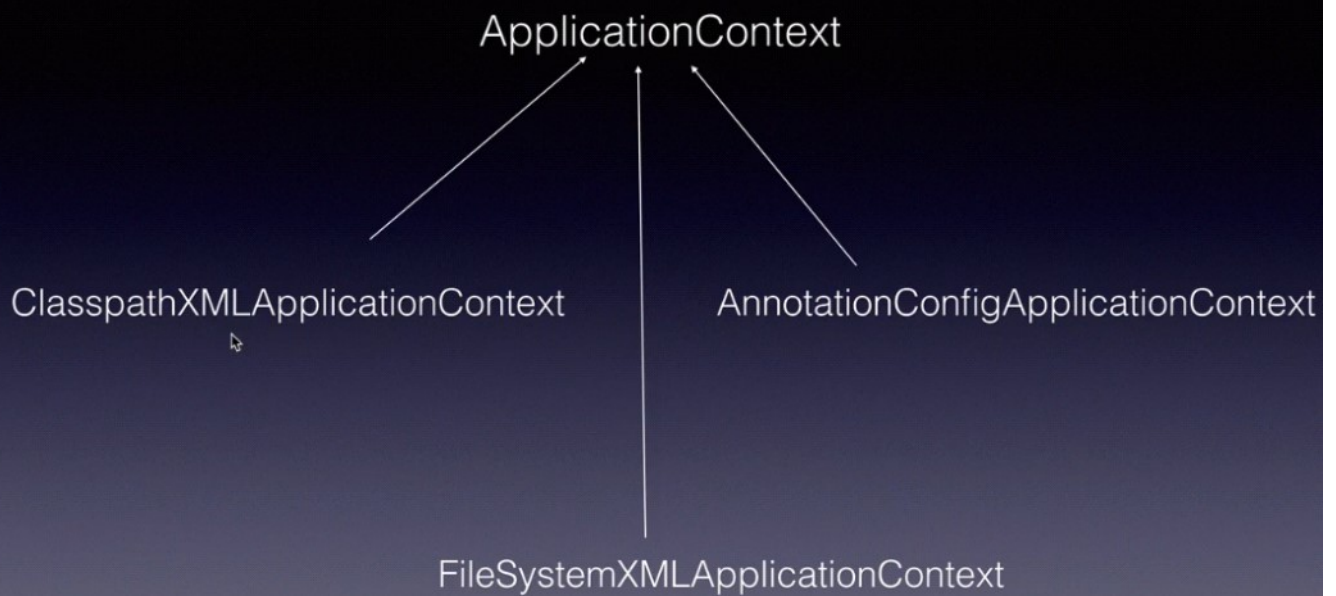
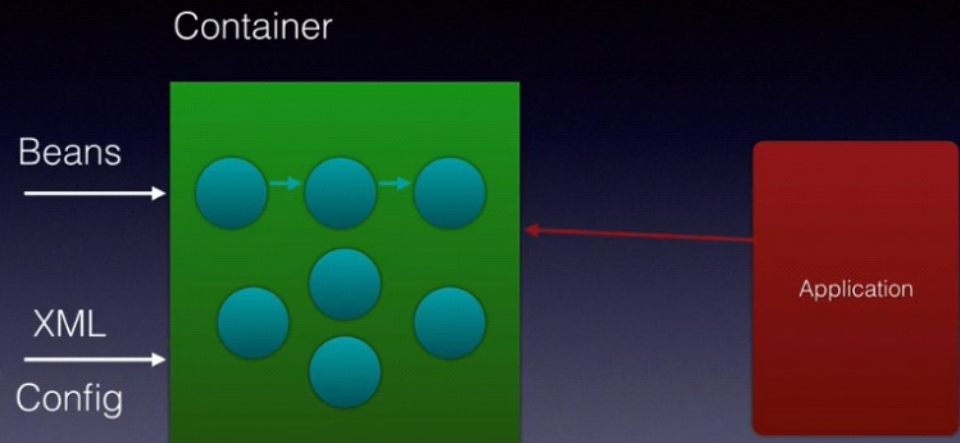
core

context

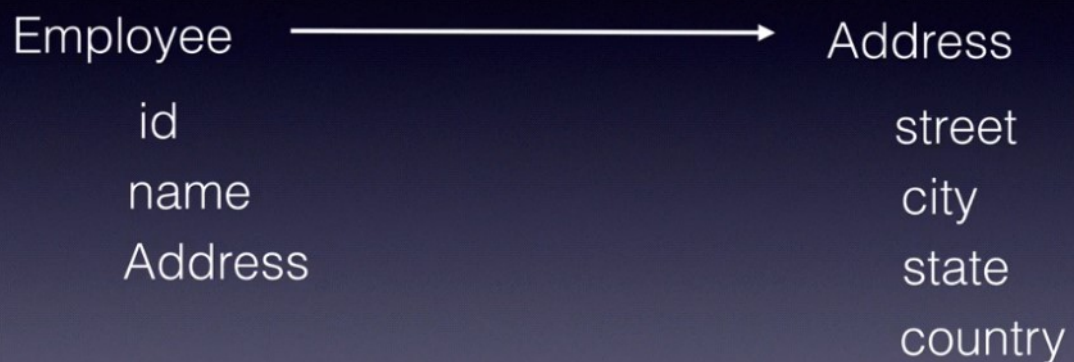
SpEL

Test

Spring Container



Two Types Of DI



Setter

Employee

setId

setName

setAddress



Address

setStreet

setCity

setState

setCountry

Constructor

Employee

Employee(
int id,
String name,
Address address)



Address

Address(String Street,
String city,
String state,
String country)

Types of Data

byte

short

int

long

float

double

boolean

char

string

Primitive Types Dependencies

Collection

List

Set

Map

Properties

ProcessOrder



ShipOrder

Reference

Primitive Types

```
<bean class="Product">
```

value as element

```
  <property name="id">
```

```
    <value>10</value>
```

value as attribute

p schema/p namespace