How are beans defined?

Either in XML or via annotations or via Java configuration

Annotations vs Java?

TODO

Java-based

@Bean, @Configuration

@Bean

acts like <bean/> in xml

defines a method which produces an instance to be managed by the container

@Configuration

Class annotation

Indicates a class is to be used as a provider of bean instances

The class is like a little piece of xml

lite mode vs full mode

When @Bean annotated methods exist in a class \_NOT\_ annotated with @Configuration

lite is harder to declare inter bean dependencies

Beans

Definitions stored in a container

Stereotype

Specifies a class as bean managed, with additiona benefits

Auto-detection

Registering of bean definitions based on annotations on java classes

## Instantiation

What does it mean?

Creating a container containing bean definitions.

Instantiating instances based on bean definitions, with dependencies satisfied according to rules in the definition

Wiring

Specifying the rules by which dependencies between beans are specified.

Bean definitions to be included in a container may be defined in several ways

* by passing in xml files to a constructor
* by registering classes via annotations as bean definitions

Containers take a list of xml files as parameters.

component-scan vs annotation-config

## Dependency Injection

Concepts

Bootstrapping