

Spring Framework 4 Cheat Sheet by danielfc via cheatography.com/24913/cs/6341/

Configuration (cont)

Modules	
Core	spring-core spring-beans spring-context spring-expression
AOP and Instrumentation	spring-aop spring-aspects spring-instrument spring-instrument-tomcat
Messaging	spring-messaging
Data Access/Integration	spring-jdbc spring-tx spring-orm spring-oxm spring-jms
Web	spring-web spring-webmvc spring-webmvc-portlet spring-websocket
Test	spring-test
http://docs.spring.io/spring-framework/docs/current/spring-framework-reference/html/overview.html#overview-modules	

Spring MVC - Controller			
@Controller	Annotation to indicate that the class is a controller class.		
@RestController	A convenience annotation that is itself annotated with @Contr oller and @Respo - nseBody. Used in controllers that will behave as RESTful resources.		
@RequestMapping	Annotation to be used on methods in @RestC - ont roller classes. You can provide an URI to be served as RESTful service.		
@ModelAttribute	Annotation used to bind values present in views.		

Configuration	
@Configuration	Annotation used to provide configurations.

@Bean	Annotation that acts like a provider where you can define
	how the bean is instantiated when a injection of that type is
	requested. Instances of @Bean annotated methods will act
	as singletons.
Droportio	e Evaluation Sequence

Properties Evaluation Sequence	
Command-line arguments	java -Dproj ect.na me=Test -jar
	ar
System properties	<pre>System.ge tPr ope rties()</pre>
Environment Variable	export PROJEC T_N AME =Test
External properties/yml file	projec t.n ame =Test
Internal properties/yml file	projec t.n ame =Test
·	

The default properties/yml files are **application.properties** and **application.yml** and they are located in /src/r eso urces.

Spring Boot Initializer			
http://start.spring.io	Web service that allows the user to specify the project metadata and dependencies as well as download the initial structure.		
Spring CLI	A CLI tool that interacts with http://start.sp- ring.io service to scaffold a new project.		
Spring Tool Suit	Eclipse-based IDE that also interacts with http://start.spring.io to scaffold a new project.		
Intellij IDEA	Intellij also provides a way of creating a new project via http://start.spring.io.		

								_
Spring Boot - Auto Configu	rauon							
@ConditionalOnClass	@Condi	tio	nal	OnC	las	s(T	omc	а
@ConditionalOnProperty	acondi	tio	nal	On P	ron	ort	v/(n=	m

ing = true)

Auto configuration is just the combination of @Configur ation and @Condigur annotations in order to correctly register beans.



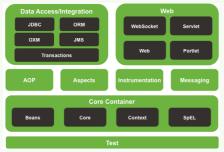
By danielfc cheatography.com/danielfc/

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Architecture



Dependency Injection

Annotation used to inject an object that is already in @Resource the Application Context. It searches the instance by name. It also works on setter methods.

@Autowired Annotation used to inject objects in many possible ways, such as: instance variable, constructor and methods. It does not rely on name as @Resource, so, for multiple concrete implementations, the @Qua lifier annotation must be used with it.

@Qualifier Annotation used to distinguish between multiple concrete implementations. Used alongside with @Au towired annotation that does not rely on name.

Annotation used when no name is provided telling @Primary Spring to inject an object of the annotated class first.

Used along with @Component. Generic stereotype annotation used to tell Spring to

create an instance of the object in the Application Context. It's possible to define any name for the instance, the default is the class name as camel case.

@Controller Stereotype annotation for presentation layer.

@Repository Stereotype annotation for persistence layer.

Stereotype annotation for service layer. @Service

Profile spring.profiles.active Property to be set in application.properties in order to tell Spring what profiles are active. @Profile("!dev") Annotation used to define which profile can

execute the annotated method.

Spring Boot - Basics	
@SpringBootApplication	Initial annotation that comprises the following annotations: @Sprin gBo otC onf igu ration, @Enabl eAu toC onf igu ration and @Compo nen t Scan.
@SpringBootConfiguration	Indicates that a class provides Spring Boot application @Confi gur ation.
@EnableAutoConfiguration	Enable auto-configuration of the Spring Application Context, attempting to guess and configure beans that you are likely to need.
@ComponentScan	Configures component scanning directives for use with @Confi gur ati on classes.

Most of the time you will need only to declare the @Sprin gBo otA ppl ication annotation.

Spring Boot - Example

```
@SpringBootApplication
public class Application {
  public static void main(String[] args) {
     SpringApplication.run(Application.class, args);
```



@Component

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