

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

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-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.	

Annotation used to provide configurations.

Configuration (conf	)		
how the requeste	Annotation that acts like a <b>provider</b> where you can define <b>how</b> the bean is <b>instantiated</b> when a <b>injection</b> of that type is requested. Instances of @Bean annotated methods will act as <b>singletons</b> .		
Properties Evaluati	on Sequ	ence	
Command-line arg	uments	java -Dproj ect.na me=Test -jar ar	
System properties		System.ge tPr ope rties()	
Environment Varia	ole	export PROJEC T_N AME =Test	
External properties file	/yml	projec t.n ame =Test	
Internal properties/file	yml	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 Initializ	er		
http://start.spring.ic	proje	service that allows the user to specify the ct metadata and dependencies as well as cload the initial structure.	
Spring CLI		I tool that interacts with http://start.sp- o service to scaffold a new project.	
Spring Tool Suit		se-based IDE that also interacts with /start.spring.io to scaffold a new project.	
Intellij IDEA		ij also provides a way of creating a new ct via http://start.spring.io.	
Spring Boot - Auto Configuration			
		@Condi tio nal OnC las s(T omc	
@ConditionalOnPr	operty	<pre>@Condi tio nal OnP rop ert y(name ing = true)</pre>	

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



Configuration

@Configuration

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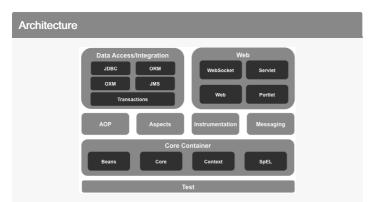
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Dependency Injection				
@Resource	Annotation used to <b>inject</b> an object that is already in the <b>Application Context</b> . It searches the instance <b>by name</b> . It also works on setter methods.			
@Autowired	Annotation used to inject objects 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 @Qualifier annotation must be used with it.			
@Qualifier	Annotation used to <b>distinguish</b> between <b>multiple</b> concrete implementations. Used alongside with @Au towired annotation that does not rely on name.			
@Primary	Annotation used when <b>no name</b> is provided telling Spring to <b>inject</b> an object of the annotated class <b>first</b> . Used along with @Component.			
@Component	Generic stereotype annotation used to tell <i>Spring</i> 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.			
@Service	Stereotype annotation for service layer.			

Profile		
	Property to be set in <b>application.properties</b> in order to tell <i>Spring</i> what profiles are active.	
• ,	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		
<pre>@SpringBootApplication public class Application {    public static void main(String[] args) {         SpringApplication.run(Application.class, args);    } }</pre>		



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