

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 @Controller and @ResponseBody. Used in controllers that will behave as RESTful resources.	
@RequestMapping	Annotation to be used on methods in @RestController 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.

Properties Evaluation Sequence	
Command-line arguments	java -Dproject.name=Test -jar app.jar
System properties	<pre>System.getProperties()</pre>
Environment Variable	export PROJECT_NAME=Test
External properties/yml file	project.name=Test
Internal properties/yml file project.name=Test	
The default properties/yml files are application.properties and application.yml and they are located in/src/resources.	

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 withhttp://start.spring.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 Configuration		
@ConditionalOnClass	@ConditionalOnClass (Tomcat.class)	Only available if the Tomcat class is found in the classpath.
@ConditionalOnProperty	<pre>@ConditionalOnPrope rty(name = "tomcat.version", matchIfMissing = true)</pre>	Only available if the property tomcat.versi on is set to true.

Auto configuration is just the combination of @Configuration and @Conditional* annotations in order to correctly register beans.

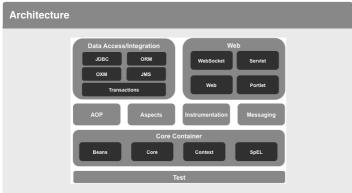


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Dependency Injection		
@Resource	Annotation used to inject an object that is already in the Application Context . It searches the instance by name . It also works on setter methods.	
@Autowired	Annotation used to inject objects in many possible ways, such as: instance variable, constructor and methods It does not rely on name as @Resource, so, for multiple concrete implementations, the @Qualifier annotation must be used with it.	
@Qualifier	Annotation used to distinguish between multiple concrete implementations. Used alongside with @Autowired annotation that does not rely on name.	
@Primary	Annotation used when no name is provided telling <i>Spring</i> to inject an object of the annotated class first . Used along with @Component.	
@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.	
@Service	Stereotype annotation for service layer.	

Profile		
spring.profiles.active	Property to be set in application.properties in order to tell <i>Spring</i> what profiles are active.	
@Profile("!dev")	Annotation used to define which profile can execute the annotated method.	
Spring Boot - Basics		
@SpringBootApplicati	ion	Initial annotation that comprises the following annotations: @SpringBootConfiguration, @EnableAutoConfigurationand @ComponentScan.
@SpringBootConfigur n	atio	Indicates that a class provides Spring Boot application @Configuration
@EnableAutoConfigun	ratio	Enable auto-configuration of the Spring Application Context, attempting to guess and configure beans that you are likely to need.
9 1		Configures component scanning directives for use with @Configuration classes.
Most of the time you will need only to declare the @SpringBootApplicationannotation.		
Spring Boot - Example		
<pre>@SpringBootApplication public class Application { public static void main(String[] args) { SpringApplication.run(Application.class, args); } }</pre>		



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