Cheatography

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 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	

Annotation used to provide configurations.

Configuration (cont)

@Bean	Annotation that acts like a $\ensuremath{\text{provider}}$ where you can define $\ensuremath{\text{how}}$
	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	System.getProperties()
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.



@Configuration

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chitecture				
	Data Access	Integration	We	b
	JDBC	ORM	WebSocket	Servlet
	OXM Transa	JMS	Web	Portlet
	АОР	Aspects	Instrumentation	Messaging
		Core C	Container	
	Beans	Core	Context	SpEL
(1	Fest	

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 <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		
1 01	Property to be set in application.properties 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		
@SpringBootApplicatio	n Initial annotation that comprises the following annotations: @SpringBootConfiguration @EnableAutoConfigurationand @ComponentScan	
@SpringBootConfigura n	tio Indicates that a class provides Spring Boot application @Configuration.	
@EnableAutoConfigura n	tio 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 @Configuration classes.	
Most of the time you will need only to declare the @SpringBootApplicationannotation.		

Spring Boot - Example

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

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