SPRING BOOT 2 CHEAT SHEET



Spring Boot 2.1.x - Date: November 2018

WHAT IS SPRING BOOT?

- Built on top of a lot of Spring Projects (https://spring.io)
- Opinionated configuration
- Wide ecosystem
- Start a project faster with no configuration

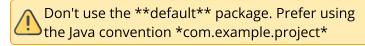
FEATURES

- Bootstrap class **SpringApplication**
- Default logger (@see spring-jcl)
- FailureAnalyzers : friendly failure report
- Application Events on Listeners
- Choose the right **ApplicationContext**
- Accessing application arguments
- Control application exit code

QUICKSTART

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

BEST PRACTICES



Code structure

```
com
+ example
| + project
| | - MyApp.java
| | |
| | + player
| | | - Player.java
| | | - PlayerService.java
```

Configuration

Properties files in folder *src/main/resources/* are loaded automatically

- YAML: **/application*.yml or **/application*.yaml
- Properties: **/application*.properties

Auto-configuration

- Enabled by @SpringBootApplication or @EnableAutoConfiguration
- Spring Boot scans all libs on the classpath and autoconfigures them (if you didn't manually)

Display Spring Boot Autoconfigure report

```
java -jar myapp.jar --debug
```

Disabling an auto-configuration class with Java conf

```
@EnableAutoConfiguration(exclude=
{DataSourceAutoConfiguration.class})
```

Disabling an auto-configuration class with properties

spring.autoconfigure.exclude= \
org.springframework.boot.autoconfigure.XXXX



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BUILD A PRODUCTION JAR

Maven

```
<build>
 <plugins>
  <plugin>
   <groupId>org.springframework.boot</groupId>
   <artifactId>spring-boot-maven-
plugin</artifactId>
  </plugin>
 </plugins>
</build>
```

Gradle

```
plugins {
  id 'org.springframework.boot' version
'2.1.0.RELEASE'
```

Actuator

Production ready features threw HTTP or JMX

```
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-
actuator</artifactId>
</dependency>
```

RUNNING THE CODE

Standalone

```
java -jar target/myapplication-0.0.1-SNAPSHOT.jar
```

Standalone with remote debug

```
java -Xdebug \
-Xrunjdwp:server=y,transport=dt_socket\
,address=8000,suspend=n-jar target/myapplication-
0.0.1-SNAPSHOT.jar
```

Maven

mvn spring-boot:run

Gradle

gradle bootRun

STARTERS

Official starters: spring-boot-starter-*

Application starters

Name	Function
web	Web applications using Spring MVC (Tomcat embedded)
test	Spring test using JUnit, Hamcrest and Mockito
security	Secured services with Spring Security
webflux	WebFlux applications using Spring Framework's Reactive Web
websocket	WebSocket applications using Spring Framework's WebSocket
data-jdbc	Configured resources to use Spring Data JDBC
data- mongodb	Configured resources to use Spring Data JPA with Hibernate
data-rest	Web applications using Spring Data repositories over REST
actuator	Production ready features using Spring's Actuator (monitor and manage)

Technical starters

Name	Function
jetty	Using Jetty over the default Tomcat
log4j2	Using Log4j2 for logging over the default Logback
undertow	Using Undertow over the default Tomcat

GO DEEPER

- https://spring.io/guides
- https://spring.io/projects/spring-framework
- Spring Boot documentation
- Spring Core cheat sheet

