**Spring Boot 深度实践 – 系列总览**

# 核心特性

## 组件自动装配

激活： 配置： 实现：

@EnableAutoConfiguration

/META-INF/spring.factories

XXXAutoConfiguration

[https://docs.spring.io/spring-boot/docs/2.0.1.RELEASE/reference/htmlsingle/#boot-features-spring-mvc-aut o-conﬁguration](https://docs.spring.io/spring-boot/docs/2.0.1.RELEASE/reference/htmlsingle/#boot-features-spring-mvc-auto-configuration)

### Web MVC

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

**嵌入式Web容器**

**Web Servlet 容器**

**Web Reactive 容器**

**生产准备特性**

**指标（Metrics）**

**健康检查（Health Check）**

**外部化配置（Externalized Conﬁguration）**

**Web 应用**

**传统 Servlet 应用**

**依赖**

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

**Servlet 组件**

Servlet

实现

@WebServlet

HttpServlet

注册

URL 映射

@WebServlet(urlPatterns = "/my/servlet")

注册

#### 

@ServletComponentScan(basePackages = "com.imooc.diveinspringboot.web.servlet")

Filter Listener

### Servlet 注册

**Servlet 注解**

+

@ServletComponentScan

@WebServlet

@WebFilter

@WebListener

**Spring Bean**

+

@Bean

Servlet Filter Listener

**RegistrationBean**

ServletRegistrationBean

FilterRegistrationBean

ServletListenerRegistrationBean

**异步非阻塞**

**异步 Servlet**

javax.servlet.ServletRequest#startAsync()

javax.servlet.AsyncContext

**非阻塞 Servlet**

javax.servlet.ServletInputStream#setReadListener

javax.servlet.ReadListener

javax.servlet.ServletOutputStream#setWriteListener

javax.servlet.WriteListener

**Spring Web MVC 应用**

**Web MVC 视图**

ViewResolver

View

**模板引擎**

Thymeleaf Freemarker JSP

**内容协商**

ContentNegotiationConfigurer

ContentNegotiationStrategy

ContentNegotiatingViewResolver

**异常处理**

@ExceptionHandler

HandlerExceptionResolver

ExceptionHandlerExceptionResolver

(Spring Boot)

### Web MVC REST

BasicErrorController

**资源服务**

@RequestMapping

@GetMapping

@ResponseBody

@RequestBody

**资源跨域**

CrossOrigin

WebMvcConfigurer#addCorsMappings

传统解决方案

IFrame JSONP

**服务发现**

HATEOS

### Web MVC 核心

**核心架构****处理流程****核心组件**

DispatcherServlet

HandlerMapping

HandlerAdapter

ViewResolver

...

## Spring Web Flux 应用

### Reactor 基础

**Java Lambda** **Mono**

**Flux**

**Web Flux 核心**

**Web MVC 注解兼容**

@Controller

@RequestMapping

@ResponseBody

@RequestBody

...

**函数式声明**

RouterFunction

**异步非阻塞**

Servlet 3.1 +

Netty Reactor

### 使用场景

**页面渲染**