

# MVC



# Model



**Model**



**Controller**



**Model**



**Controller**



**View**



**Model**



**Controller**



**View**



**Model**



**Controller**



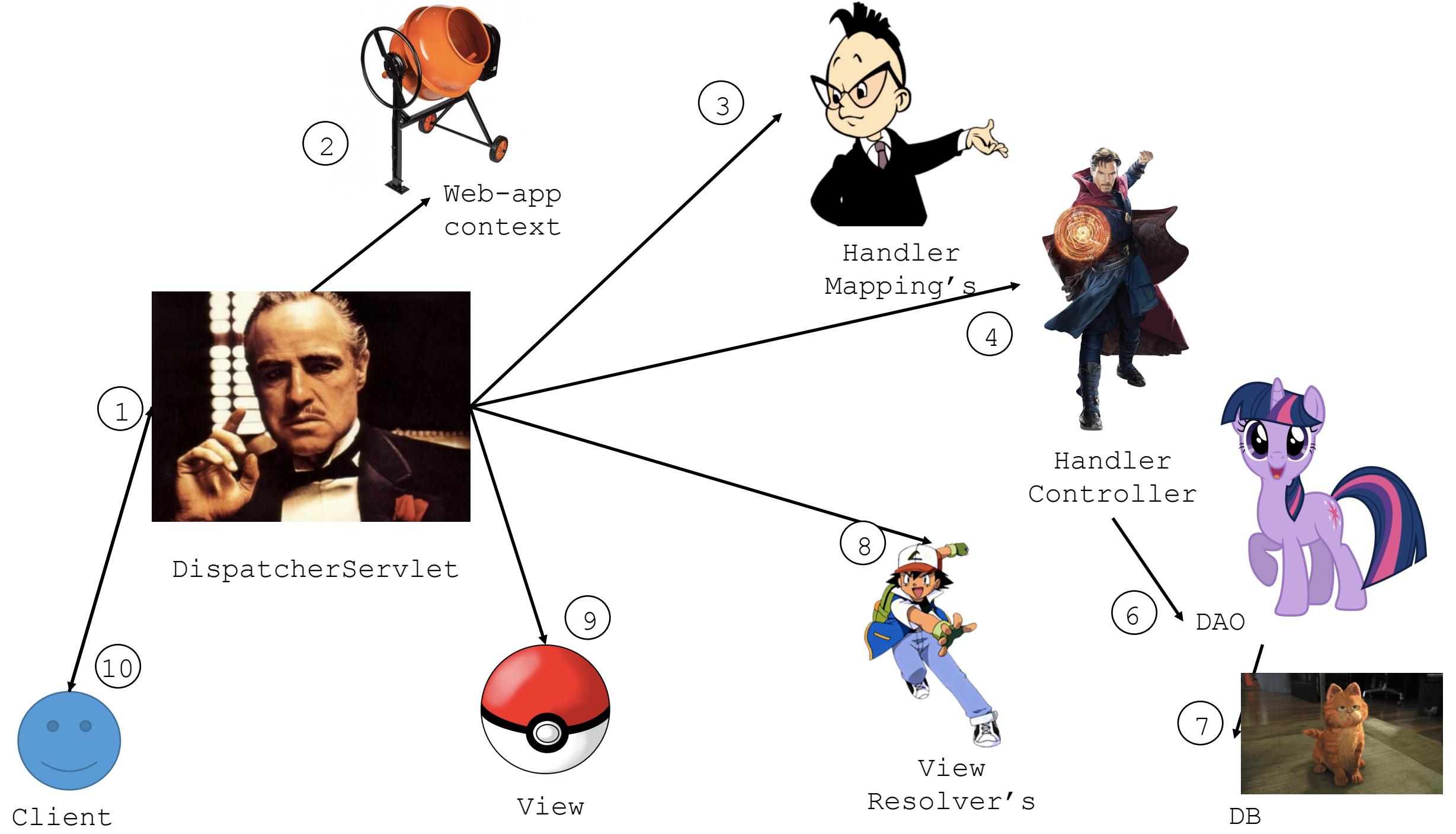
**View**



# MVC

In  
Spring  
Framework





Controller



ЧТО-ТО  
ПРИНИМАЕТ  
И ЧТО-ТО ОТДАЕТ





ЧЕО

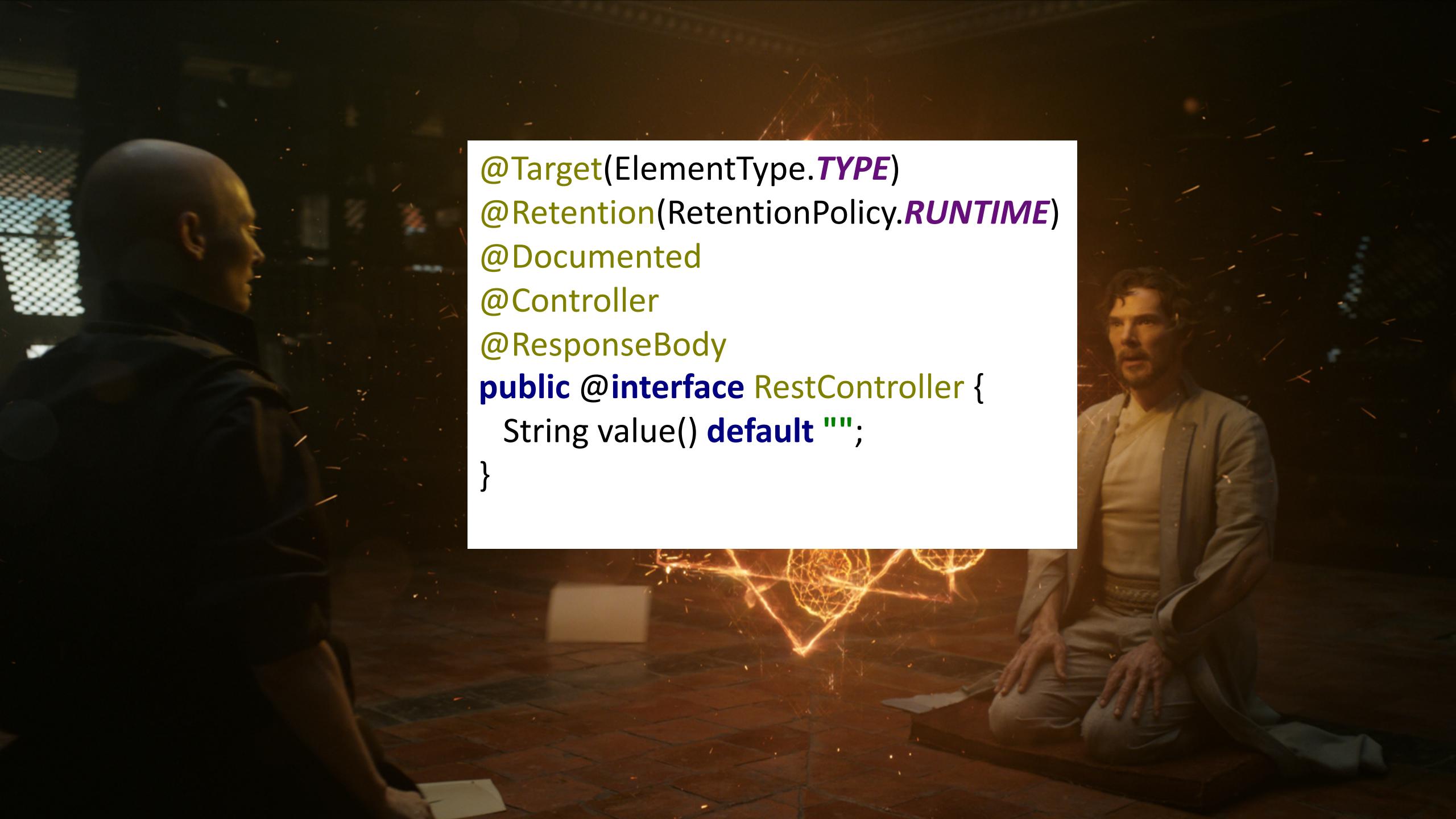
ЧЕО ПРИНИМАЕТ

ЧТО ОТДАЕТ



```
@Controller  
public class МойКонтроллер {}
```

```
@RestController  
public class МойКонтроллер {}
```



```
@Target(ElementType.TYPE)
@Retention(RetentionPolicy.RUNTIME)
@Documented
@Controller
@ResponseBody
public @interface RestController {
    String value() default "";
}
```



@RequestMapping("/path")

```
@RestController  
@RequestMapping("/path")  
public class МойКонтроллер {  
    /**  
     * My code  
     */  
}
```



@RequestMapping("/path")



Транспорт





Принять :

`@RequestBody`

`@RequestParams` like `@QueryParams`

`@PathVariable`

like `@PathParams`

Отдать :

`@ResponseBody`

A cartoon illustration of Dora the Explorer standing in a lush green field. She has brown hair and is wearing a pink shirt, orange pants, and a purple backpack. In the background, there's a yellow house with a tiled roof, a pink picket fence, and a large tree on the left. On the right, there's a large tree and some hills under a blue sky with white clouds.

nickelodeon HD

```
@RequestMapping("/cats")
public @ResponseBody CatDto getCats(){
    return service.getCats();
}
```



```
@RequestMapping("/cats")
public @ResponseBody CatDto getCats(){
    return service.getCats();
}
```

```
@RequestMapping("/cat/{id}")
public CatDto getCatById(@PathVariable long id) {
    return service.getCatById(id);
}
```



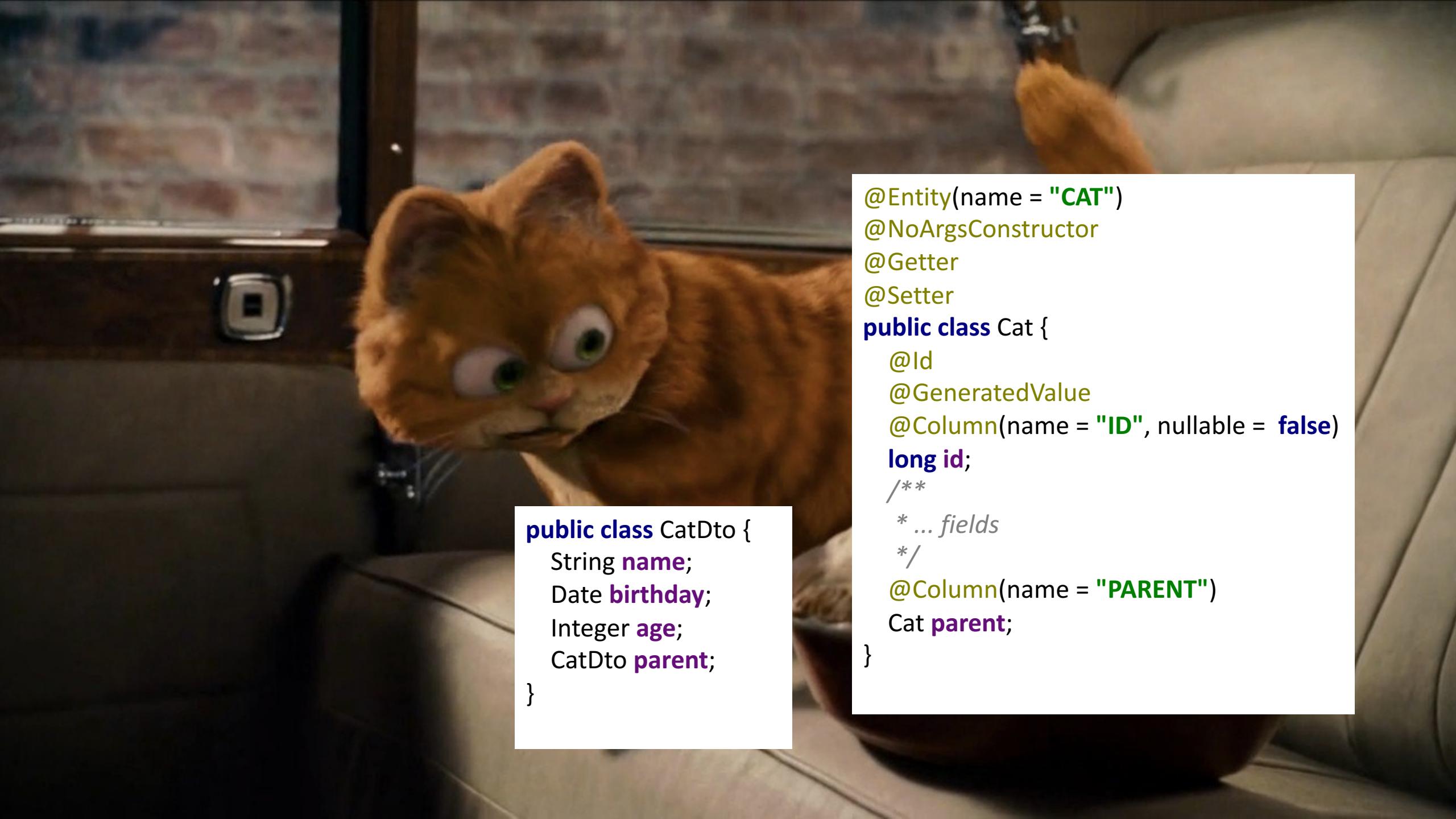
```
@RequestMapping("/cats")
public @ResponseBody CatDto getCats(){
    return service.getCats();
}
```

```
@RequestMapping("/cat/{id}")
public CatDto getCatById(@PathVariable long id) {
    return service.getCatById(id);
}
```

```
@RequestMapping("/bestCats")
public CatDto geBestCats(@RequestBody List<CatDto> cats) {
    return service.getBestCats(cats);
}
```

Model



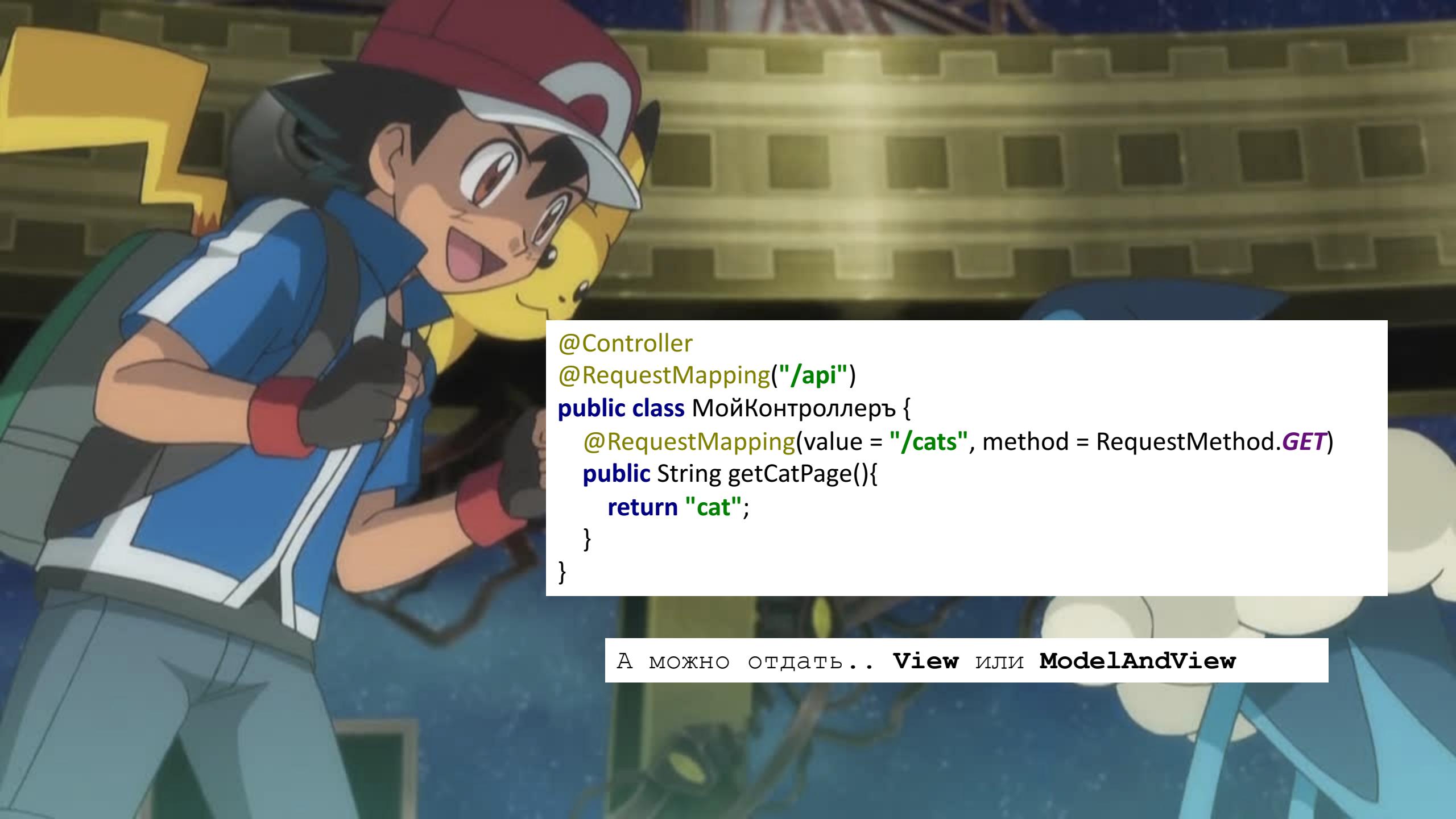


```
public class CatDto {  
    String name;  
    Date birthday;  
    Integer age;  
    CatDto parent;  
}
```

```
@Entity(name = "CAT")  
@NoArgsConstructor  
@Getter  
@Setter  
public class Cat {  
    @Id  
    @GeneratedValue  
    @Column(name = "ID", nullable = false)  
    long id;  
    /**  
     * ... fields  
     */  
    @Column(name = "PARENT")  
    Cat parent;  
}
```

View

- JSP
- JSTL
- HTML
- Excel...
- ModelAndView
- View



```
@Controller  
@RequestMapping("/api")  
public class МойКонтроллер {  
    @RequestMapping(value = "/cats", method = RequestMethod.GET)  
    public String getCatPage(){  
        return "cat";  
    }  
}
```

А можно отдать.. **View** или **ModelAndView**

# Всё вместе

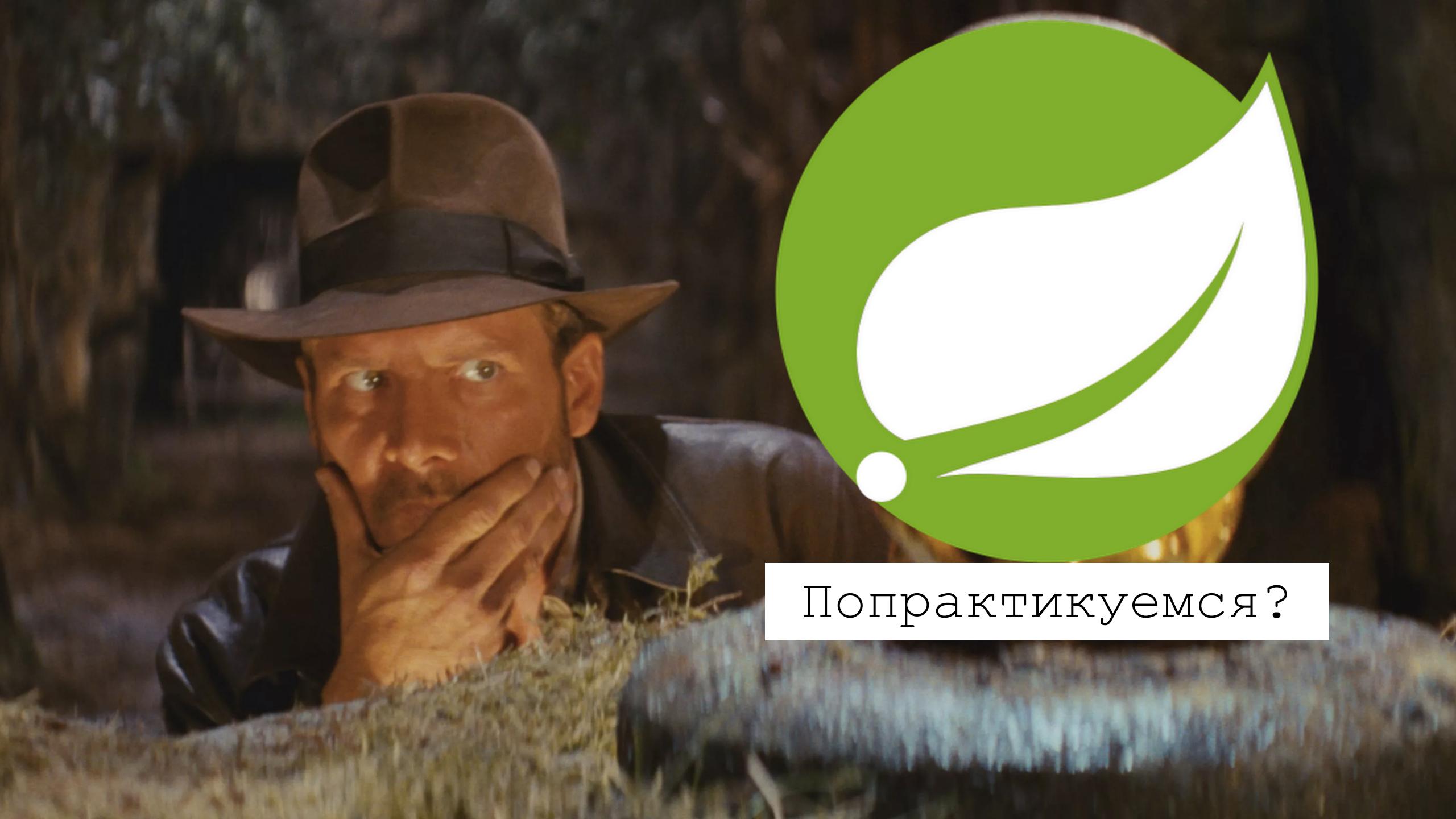
```
@Controller  
@RequestMapping("/api")  
public class МойКонтроллер {  
  
    @Autowired  
    CatService service;  
  
    @RequestMapping(value = "/catBest", method = RequestMethod.GET)  
    public ModelAndView getBestCats(@RequestBody List<CatDto> cats){  
        final CatDto catDto = service.getBestCats(cats);  
        return new ModelAndView("index.html"). addObject("bestCat", catDto);  
    }  
}
```

# Всё вместе

```
@RestController
@RequestMapping("/api")
public class МойКонтроллер {

    @Autowired
    CatService service;

    @RequestMapping(value = "/cats/{id}", method = RequestMethod.GET)
    public CatDto geBestCats(@PathVariable long id){
        return service.getCatById(id);
    }
}
```



Попрактикуемся?