



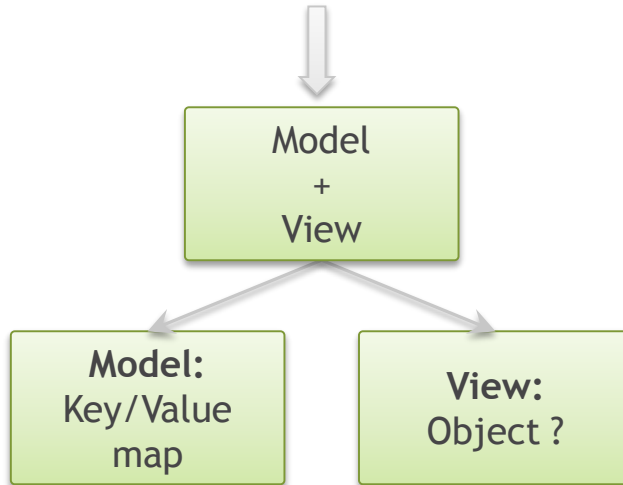
# SPRING MVC

## CONTROLLERS IMPLEMENTATION

MARCH, 2015

# CONTROLLER CONCEPT

```
public interface Controller {  
  
    public ModelAndView handleRequest(  
        HttpServletRequest request,  
        HttpServletResponse response) throws Exception;  
}
```



# SIMPLE CONTROLLER EXAMPLE

@Controller

```
public class CalcController {
```

```
    // [GET] http://host.com/example/calculate?first=123&second=456
```

```
    @RequestMapping("/calculate")
```

```
    public ModelAndView calculate(HttpServletRequest request) {
```

```
        String first = request.getParameter("first");
```

```
        String second = request.getParameter("second");
```

```
        int firstInt = Integer.parseInt(first);
```

```
        int secondInt = Integer.parseInt(second);
```

```
        ModelAndView mav = new ModelAndView("displaySum");
```

```
        mav.addObject("sum", Integer.toString(firstInt + secondInt))
```

```
        return mav;
```

```
    }
```

```
}
```

# ACCESSING REQUEST PARAMETERS

```
@Controller
public class CalcController {

    // [GET] http://host.com/example/calculate?first=123&second=456
    @RequestMapping("/calculate")
    public ModelAndView calculate(@RequestParam("first") int first,
                                @RequestParam("second") int second) {
        ModelAndView mav = new ModelAndView("displaySum");
        mav.addObject("sum", Integer.toString(first + second))
        return mav;
    }
}
```

# URI TEMPLATE

@Controller

```
public class WeatherController {
```

```
    // [GET] http://host.com/example/380/Kyiv
```

```
    @RequestMapping(value = "/weather/{countryCode}/{cityName}/")
```

```
    public ModelAndView getWeather(@PathVariable("countryCode") int countryCode,  
                                   @PathVariable("cityName") String cityName) {
```

```
        ModelAndView mav = new ModelAndView();
```

```
        // Fill in model the relevant information.
```

```
        // Select a view appropriate for country.
```

```
        return mav;
```

```
    }
```

```
}
```

For more information about regex usage in path variables see:

<http://docs.spring.io/spring/docs/3.2.x/spring-framework-reference/html/mvc.html#mvc-ann-requestmapping-uri-templates-regex>

# Handler arguments

---

- HttpSession / HttpServletRequest / etc.
- Spring's WebRequest / NativeWebRequest
- java.io.InputStream / java.io.OutputStream
- @ModelAttribute
- @PathVariable
- @RequestParam
- @RequestHeader
- @CookieValue
- @MatrixVariable

# Handler return types

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- ModelAndView
- Model / Map / ModelMap
- View
- String (view name, redirect, forward)
- @ModelAttribute
- void



# THANK YOU!

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