



链滴

# spring boot 渲染文件下载 by kotlin

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## 字符串输出文件

```
fun renderFile(fileName: String, data: String): ResponseEntity<InputStreamResource> {
    return ResponseEntity.ok()
        .headers(fileHeaders(fileName))
        .contentTypeLength(data.length.toLong())
        .body(InputStreamResource(data.toByteArray()))
}

private fun fileHeaders(fileName: String): HttpHeaders {
    val headers = HttpHeaders()
    headers.add("Cache-Control", "no-cache, no-store, must-revalidate")
    headers.add("Content-Disposition", "attachment; filename=\"${fileName}\"")
    headers.add("Pragma", "no-cache")
    headers.add("Expires", "0")
    return headers
}
```

## 输出 excel 文件

当手动拼 csv 文件字符串，再通过上面的方法输出的文件在 windows 上会乱码，输出的文件是给编的，要保证在 Excel 中打开没有问题才行，最简单可靠的办法就是引入专门的 csv lib 包来处理了

```
<dependency>
  <groupId>org.apache.commons</groupId>
  <artifactId>commons-csv</artifactId>
  <version>1.5</version>
</dependency>
```

代码如下

```
//返回文件路径
fun statistic(fileName: String): String {

    val filePath = "${System.getProperty("java.io.tmpdir")}/${fileName}"
    val writer = FileWriter(filePath)
    //这个是写 utf8 bom 文件的头，不加的话 excel 打开文件的中文就是乱码
    writer.write(String(byteArrayOf(0xEF.toByte(), 0xBB.toByte(), 0xBF.toByte())))

    val csvPrinter = CSVFormat.EXCEL.withHeader("公众号", "数据量", "有效数据").print(writer)

    val infoMap = wechatDao.countByAuthor().map { it.author to it.num }.toMap()
    val importInfoMap = wechatDao.countImportedByAuthor().map { it.author to it.num }.t
Map()

    infoMap.entries.forEach { csvPrinter.printRecord(it.key, it.value, importInfoMap[it.key] ?: 0
)}

    csvPrinter.printRecord("----- 统计 -----", infoMap.values.sum(), importInfoMap.values.su
())

    writer.flush()
    writer.close()
}
```

```
    log.info("微信统计写入文件 $filePath")
    return filePath
}
```

Controller 中调用

```
@GetMapping("/wechat/statistic")
fun statistic(): ResponseEntity<InputStreamResource> {
    val dataStr = LocalDate.now().toString()
    val fileName = "wechat_${dataStr}.csv"
    val filePath = wechatService.statistic(fileName)

    return ResponseEntity.ok()
        .headers(fileHeaders(fileName))
        .body(InputStreamResource(FileInputStream(filePath)))
}
```

**kotlin 真是越用越觉得爽**