

Spring

Spring - JDK

Spring Framework	JDK
5.3.x	JDK 8 ~ 19
5.2.x	JDK 8 ~ 15
5.1.x	JDK 8 ~ 12
5.0.x	JDK8 ~ 10
4.3.x	JDK6 ~ 8

Spring Boot - JDK

Spring Boot	JDK
2.3	JDK 9
2.1	JDK 8 ~ 11

[Spring] JDK

DI

Dependency Injection ()

IoC

()

AOP

- [] Spring (multiple package)
- Collection - Spring
- XML -
- Appendix E. XML Schema-based configuration
- jpa

- [Spring](#) [Interceptor](#) [Session](#)

- [Spring Framework](#) ()

Ajax

- [Spring](#) - Ajax ([@RequestBody](#), [@ResponseBody](#))

Annotation

- [Spring](#) [RequestMapping](#)
- [@SuppressWarnings](#)

Bean

```
// bean 가
String[] beanNames = applicationContext.getBeanDefinitionNames();

// bean
for(String beanName : beanNames) {
    System.out.println(beanName);
}

or

beanNames.forEach(System.out::println);
```

Cache

- [Cache](#) .. ([Spring+EHCache](#))
- [Cache](#)

Controller

- [Spring Boot](#) : [Interceptor](#) [forward](#)

DBCP

- [\[\] ?](#)
- [\[\] Commons DBCP](#)

Error

-

JSTL

- [JSTL](#)

Logging

- [Spring](#) [Powerful](#) [SQL](#)
- [log4jdbc-remix](#) [Custom SQL Formatter](#) ([SQL log](#))
- [Log4j 2](#) []
- [] [log4j2](#)
- [Log4j 2](#)

Maven

- [Tip](#)
- [\[Maven\] ojdbc6](#) [Missing artifact com.oracle:ojdbc6:jar:11.2.0.3](#)

ojdbc8

```
<dependency>
  <groupId>com.oracle.ojdbc</groupId>
  <artifactId>ojdbc8</artifactId>
  <version>19.3.0.0</version>
</dependency>
```

MessageConverter

- [messageConverter](#)

Mybatis

- [Mybatis](#)

Parameter Mapping()

- [\[Spring\] Parameter Mapping](#)

Resource

- [Spring: MVC. JSP](#) [JS CSS](#)

Schedule

Quartz

"0 0 12 * * ?"

12 ()

"0 15 10 ? * *"

10 15

"0 15 10 * * ?"

10 15

"0 15 10 * * ? *"

10 15

"0 15 10 * * ? 2005"

2005 10 15

"0 * 14 * * ?"

2 2 59

"0 0/5 14 * * ?"

2 2 55 5

"0 0/5 14,18 * * ?"

2 2 55 5

6 6 55 5

"0 0-5 14 * * ?"

2 2 05

"0 10,44 14 ? 3 WED"

3 2 10 2 44

"0 15 10 ? * MON-FRI"

, , , , 10 15

"0 15 10 15 * ?"

15 10 15

"0 15 10 L * ?"

10 15

"0 15 10 ? * 6L"

10 15

"0 15 10 ? * 6L 2002-2005"

2002 2005 10 15

"0 15 10 ? * 6#3"

10 15

[JAVA] Quartz () (scheduling)

- Spring + Quartz
- Quartz + Spring Batch
- Scheduling
- -

web.xml

- [SPRING] Spring welcome-file-list

Tip

Troubleshooting

가 .properties

Spring Note

- [Spring Note](#)

DBCP, eleven, message,

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