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學習

# spring-batch

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#spring-  
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# 1: spring-batch

Spring-batch◦

- spring-batch◦

3.0.x	2016422
2.2.x	2014522
2.1.x	2012-08-20
2.0.x	2009-10-19
1.1.x	2009-01-29
1.0.x	2008-05-06

## Examples

### MavenJava Config

- [Maven](#) ◦
- IDEIntelliJ Eclipse NetBeans◦

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## Maven

MavenIDcom.organization.app Artifact IDSpringBatchExample

```
SpringBatchExample
|-- pom.xml
`-- src
    |-- main
    |   |-- java
    |       |-- com
    |           |-- organization
    |               |-- app
    |   |-- resources
    |-- test
    |   |-- java
    |       |-- com
    |           |-- organization
    |               |-- app
```

# Spring Batch Hello World

Spring Batch Spring Java

pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
    http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>com.organization.app</groupId>
  <artifactId>SpringBatchExample</artifactId>
  <version>1.0-SNAPSHOT</version>

  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.1</version>
        <configuration>
          <source>1.8</source>
          <target>1.8</target>
        </configuration>
      </plugin>
    </plugins>
  </build>

  <dependencies>
    <dependency>
      <groupId>org.springframework.batch</groupId>
      <artifactId>spring-batch-core</artifactId>
      <version>3.0.7.RELEASE</version>
    </dependency>
    <dependency>
      <groupId>commons-logging</groupId>
      <artifactId>commons-logging</artifactId>
      <version>1.1.1</version>
    </dependency>
  </dependencies>
</project>
```

src/main/java/com/organization/appSpringBatchHelloWorldConfig.java ◦ Spring Batch Employee

```
@Configuration
@EnableBatchProcessing
public class SpringBatchHelloWorldConfig {

    @Autowired
    private JobBuilderFactory jobBuilderFactory;

    @Autowired
    private StepBuilderFactory stepBuilderFactory;
```

```

@Bean
public Step step1() {
    return stepBuilderFactory.get("step1")
        .<Employee, Employee>chunk(2)
        .reader(employeeItemReader())
        .processor(employeeItemProcessor())
        .writer(employeeItemWriter())
        .build();
}

@Bean
public Job listEmployeesJob(Step step1) throws Exception {
    return jobBuilderFactory.get("listEmployeesJob")
        .start(step1)
        .build();
}

@Bean
ItemReader<Employee> employeeItemReader() {

    FlatFileItemReader<Employee> reader = new FlatFileItemReader<>();
    reader.setResource(new ClassPathResource("employees.csv"));

    DefaultLineMapper defaultLineMapper = new DefaultLineMapper();
    DelimitedLineTokenizer delimitedLineTokenizer = new DelimitedLineTokenizer();
    delimitedLineTokenizer.setNames(new String[] {"firstName", "lastName", "age",
"salary"});

    BeanWrapperFieldSetMapper<Employee> fieldSetMapper = new
BeanWrapperFieldSetMapper<>();
    fieldSetMapper.setTargetType(Employee.class);

    defaultLineMapper.setLineTokenizer(delimitedLineTokenizer);
    defaultLineMapper.setFieldSetMapper(fieldSetMapper);
    reader.setLineMapper(defaultLineMapper);

    return reader;
}

@Bean
ItemProcessor<Employee, Employee> employeeItemProcessor() {
    return new ItemProcessor<Employee, Employee>() {
        @Override
        public Employee process(Employee employee) throws Exception {
            employee.setFirstName(employee.getFirstName().toUpperCase());
            employee.setLastName(employee.getLastName().toUpperCase());
            return employee;
        }
    };
}

@Bean
ItemWriter<Employee> employeeItemWriter() {
    return new ItemWriter<Employee>() {
        @Override
        public void write(List<? extends Employee> employeesList) throws Exception {
            for (Employee employee : employeesList) {
                System.out.println("Name: "
                    + employee.getFirstName() + " "
                    + employee.getLastName() + "; "

```

```

        + "Age: " + employee.getAge() + "; "
        + "Salary: " + employee.getSalary());
    }
}
};
}
}

```

Employee.java

```

public class Employee {
    private String firstName;
    private String lastName;
    private int age;
    private int salary;

    public String getFirstName() {
        return firstName;
    }

    public void setFirstName(String firstName) {
        this.firstName = firstName;
    }

    public String getLastName() {
        return lastName;
    }

    public void setLastName(String lastName) {
        this.lastName = lastName;
    }

    public int getAge() {
        return age;
    }

    public void setAge(int age) {
        this.age = age;
    }

    public int getSalary() {
        return salary;
    }

    public void setSalary(int salary) {
        this.salary = salary;
    }
}

```

resources employees.csv

```

John,Doe,35,90000
Sue,Smith,45,95000
Joe,Brown,33,86000
Carol,Dunn,25,75000
Mike,Ward,23,70000
Lisa,Jones,22,69000

```

src/main/java/com/organization/app

Main.java

```
public class Main {
    public static void main(String[] args) {

        ApplicationContext context = new
AnnotationConfigApplicationContext(SpringBatchHelloWorldConfig.class);

        JobLauncher jobLauncher = context.getBean(JobLauncher.class);
        Job job = context.getBean("listEmployeesJob", Job.class);

        JobParameters jobParameters = new JobParametersBuilder().toJobParameters();

        try {
            JobExecution jobExecution = jobLauncher.run(job, jobParameters);
        }
        catch (JobExecutionAlreadyRunningException e) {
            e.printStackTrace();
        }
        catch (JobRestartException e) {
            e.printStackTrace();
        }
        catch (JobInstanceAlreadyCompleteException e) {
            e.printStackTrace();
        }
        catch (JobParametersInvalidException e) {
            e.printStackTrace();
        }

    }
}
```

spring-batch <https://riptutorial.com/zh-TW/spring-batch/topic/4089/spring-batch>



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S. No		Contributors
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