

Packaging Java Applications



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@Sander_Mak

Packaging Java Applications

Packaging Java Applications

Java **AR**chive (JAR)

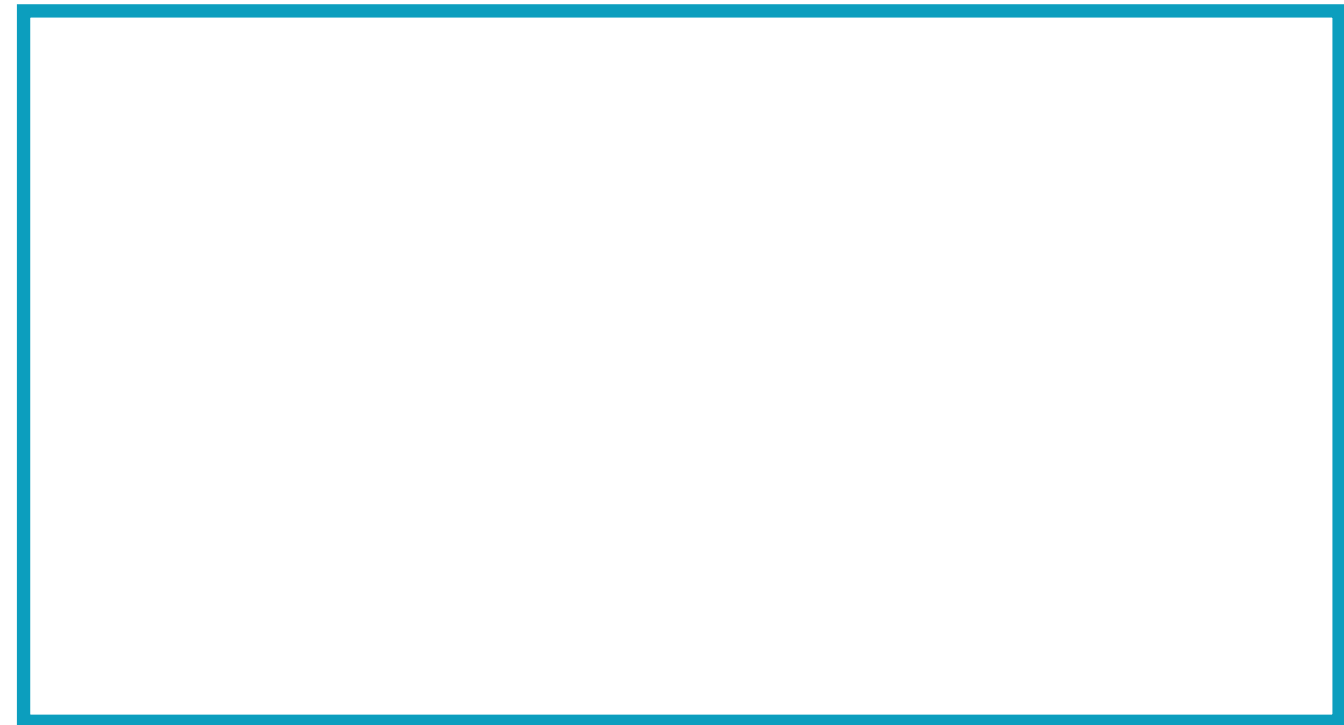


Packaging Java Applications

Java **AR**chive (JAR)



TitlecaseConverter.jar



Packaging Java Applications

Java **AR**chive (JAR)



TitlecaseConverter.jar

```
com/  
  sandermak/  
    Main.class  
    TitlecaseConverter.class
```

Packaging Java Applications

Java **AR**chive (JAR)



TitlecaseConverter.jar

```
META-INF /  
    MANIFEST.MF  
com /  
    sandermak /  
        Main.class  
        TitlecaseConverter.class
```

Creating a JAR File

Creating a JAR File

jar

Creating a JAR File

```
jar cv
```

Creating a JAR File

```
jar cvf TitlecaseConverter.jar
```

Creating a JAR File

```
jar cvf TitlecaseConverter.jar .
```

Creating a JAR File

```
jar cvf TitlecaseConverter.jar .
```

MANIFEST.MF

```
Manifest-Version: 1.0  
Created-By: 13.0.1 (Oracle Corporation)
```

Creating a JAR File

```
jar cvf TitlecaseConverter.jar .
```

MANIFEST.MF

```
Manifest-Version: 1.0  
Created-By: 13.0.1 (Oracle Corporation)
```

```
$ java -jar TitlecaseConverter.jar
```

Creating a JAR File

```
jar cvf TitlecaseConverter.jar .
```

MANIFEST.MF

```
Manifest-Version: 1.0  
Created-By: 13.0.1 (Oracle Corporation)
```

```
$ java -jar TitlecaseConverter.jar  
no main manifest attribute, in TitlecaseConverter.jar
```

Creating a Launchable JAR File

Creating a Launchable JAR File

TC-MANIFEST.MF

```
Main-Class: com.sandermak.Main
```


Creating a Launchable JAR File

```
jar cvmf TC-MANIFEST.MF TitlecaseConverter.jar .
```

TC-MANIFEST.MF

```
Main-Class: com.sandermak.Main
```

Creating a Launchable JAR File

```
jar cvmf TC-MANIFEST.MF TitlecaseConverter.jar .
```

MANIFEST.MF

```
Manifest-Version: 1.0  
Created-By: 13.0.1 (Oracle Corporation)  
Main-Class: com.sandermak.Main
```

TC-MANIFEST.MF

```
Main-Class: com.sandermak.Main
```

Creating a Launchable JAR File

```
jar cvmf TC-MANIFEST.MF TitlecaseConverter.jar .
```

MANIFEST.MF

```
Manifest-Version: 1.0  
Created-By: 13.0.1 (Oracle Corporation)  
Main-Class: com.sandermak.Main
```

TC-MANIFEST.MF

```
Main-Class: com.sandermak.Main
```

```
$ java -jar TitlecaseConverter.jar
```

Creating a Launchable JAR File

```
jar cvmf TC-MANIFEST.MF TitlecaseConverter.jar .
```

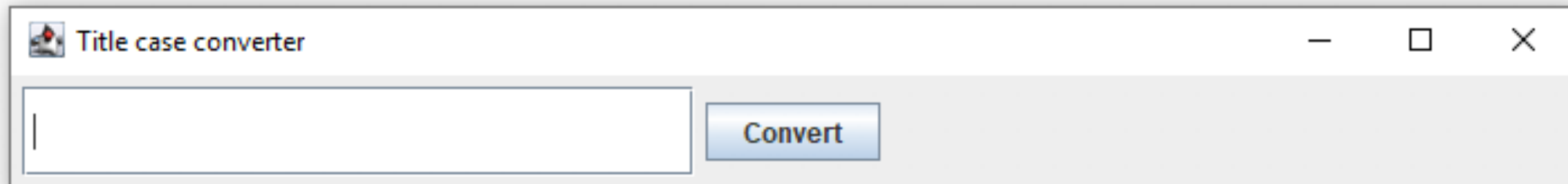
MANIFEST.MF

```
Manifest-Version: 1.0  
Created-By: 13.0.1 (Oracle Corporation)  
Main-Class: com.sandermak.Main
```

TC-MANIFEST.MF

```
Main-Class: com.sandermak.Main
```

```
$ java -jar TitlecaseConverter.jar
```



Demo

Creating JAR Files with IntelliJ CE

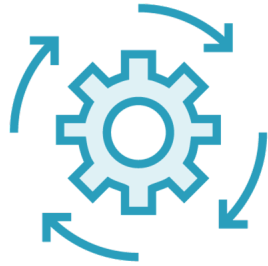
Demo

Creating JAR Files with IntelliJ CE

Build Tools

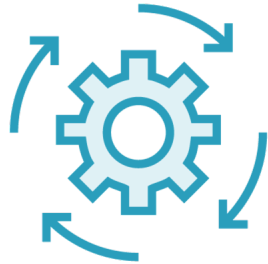


Build Tools



Build

Build Tools

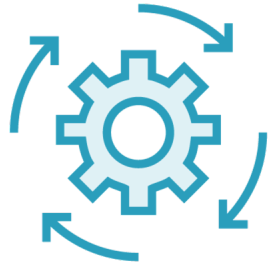


Build



Test

Build Tools



Build

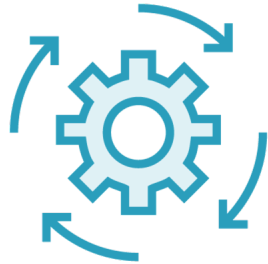


Test



Analyse

Build Tools



Build



Test

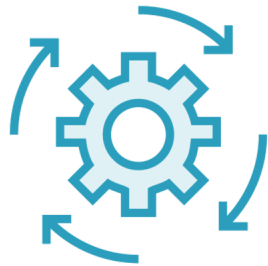


Analyse



Package

Build Tools



Build



Test



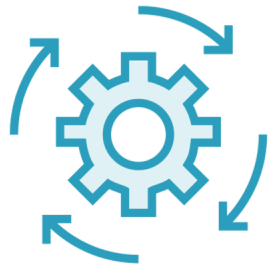
Analyse



Package

Maven

Build Tools



Build



Test



Analyse



Package

Maven

Gradle

Summary

Setting up a Java
Development Environment

Summary

Setting up a Java
Development Environment

Course Wrap-up

Course Wrap-up

**Installing and
Running Java**

Course Wrap-up

**Installing and
Running Java**

JDK

`javac & java`

Course Wrap-up

Installing and
Running Java

Using IntelliJ for
Development

JDK

`javac` & `java`

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Productivity

IntelliJ CE

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**Packaging Java
Applications**

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**Using IntelliJ for
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**Packaging Java
Applications**

JAR files

Build tools

Next Steps

Next Steps



Modern Java: the Big Picture

Next Steps



Modern Java: the Big Picture



Java Fundamentals courses

Next Steps



Modern Java: the Big Picture



Java Fundamentals courses



Eclipse/IntelliJ courses

Keep up with Java

Keep up with Java



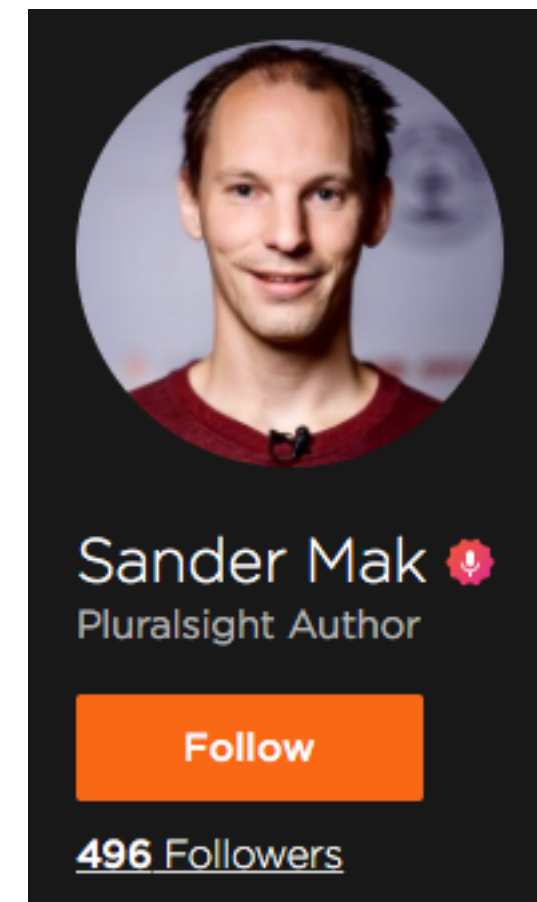
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