

Your First Cucumber JVM Project



John Ferguson Smart

AUTHOR OF “BDD IN ACTION”

@wakaleo www.johnfergusonsmart.com



Overview



Environment prerequisites

IDE plugins

Dependencies

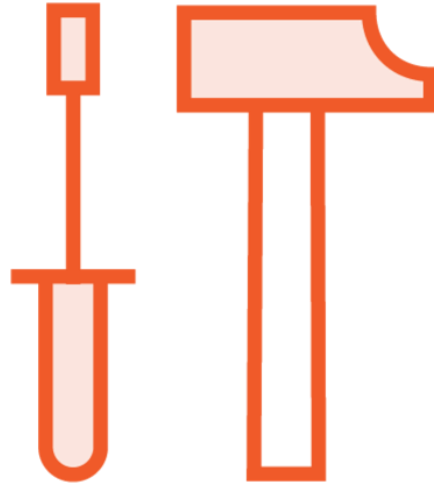
Project structure

Writing a runner class

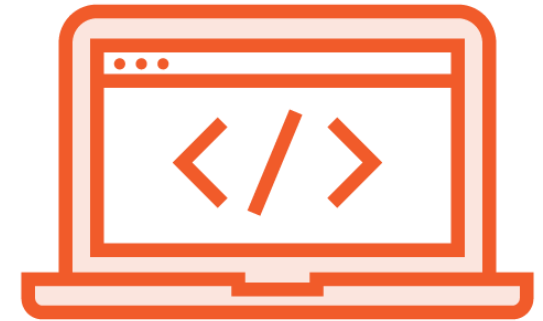
Environment Prerequisites



JDK 8 or higher



A build tool
Maven or Gradle



An IDE
IntelliJ or Eclipse

Demo



Checking your environment



Dependencies and Project Structure



Library Dependencies

Cucumber Java
cucumber-java
or
cucumber-java8
cucumber-junit

A Test Runner
JUnit 4.12

An Assertion
Library
Hamcrest or
AssertJ



Cucumber Dependencies in Maven

```
<dependencies>
  <dependency>
    <groupId>io.cucumber</groupId>
    <artifactId>cucumber-java8</artifactId>
    <version>4.2.6</version>
    <scope>test</scope>
  </dependency>
```

For step definitions with
lambda expressions



Cucumber Dependencies in Maven

```
<dependencies>
  <dependency>
    <groupId>io.cucumber</groupId>
    <artifactId>cucumber-java</artifactId>
    <version>4.2.6</version>
    <scope>test</scope>
  </dependency>
```

For step definitions with annotations



Cucumber Dependencies in Maven

```
<dependencies>
  <dependency>
    <groupId>io.cucumber</groupId>
    <artifactId>cucumber-java</artifactId>
    <version>4.2.6</version>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>io.cucumber</groupId>
    <artifactId>cucumber-junit</artifactId>
    <version>4.2.6</version>
    <scope>test</scope>
  </dependency>
</dependencies>
```

JUnit test runners



Cucumber Dependencies in Maven

```
<dependency>  
  <groupId>org.hamcrest</groupId>  
  <artifactId>hamcrest-library</artifactId>  
  <version>2.1</version>  
</dependency>
```

Hamcrest



Cucumber Dependencies in Maven

```
<dependency>  
  <groupId>org.assertj</groupId>  
  <artifactId>assertj-core</artifactId>  
  <version>3.12.1</version>  
</dependency>
```

AssertJ



Project Structure



project

`pom.xml`



src



main

Application code



test



java

Step definitions
and test code



resources

Feature files



Your First Cucumber Test



Demo



Your first Cucumber test



Summary



What have you learned?

- Environment setup
- Project structure
- Feature files and step definitions
- Running a scenario

