

Software Testing Lab

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The Book

The
Pragmatic
Programmers

Pragmatic Unit Testing in Java 8 with JUnit 1st Edition

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Pragmatic Unit Testing in Java 8 with JUnit

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with Andy Hunt
& Dave Thomas

edited by
Susannah Davidson Pfalzer



Environment

- **Java [Java 8]**

- <https://java.com/download>

- **Eclipse IDE**

- <http://eclipse.org/downloads/>

- IntelliJ IDEA (on your own)

- <http://www.jetbrains.com/idea/download/>

- NetBeans (On your own)

- <https://netbeans.org/downloads/>

- **Junit**

- <https://github.com/junit-team/junit/wiki/Download-and-Install>

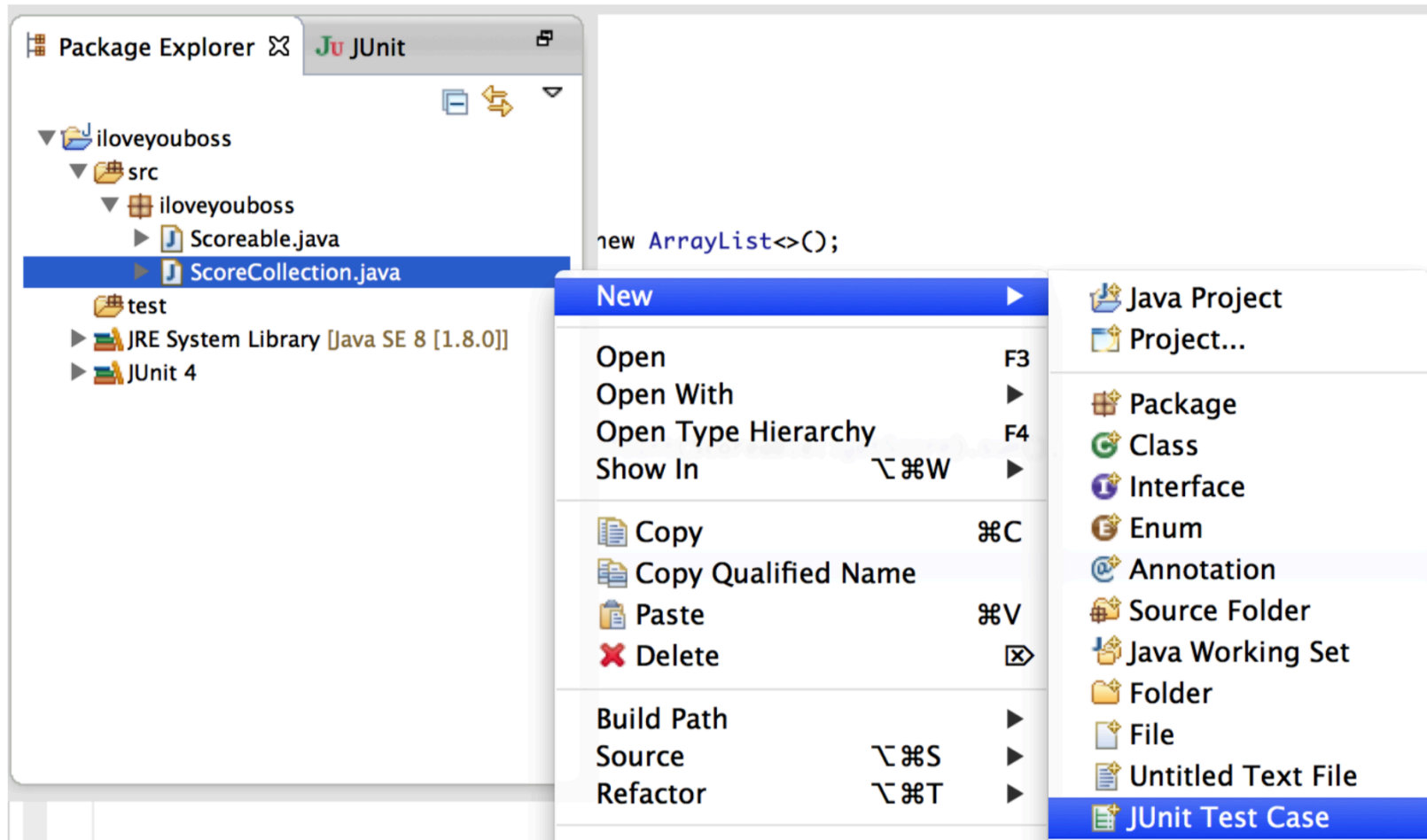
Setup (see the book)

- We're going to put our tests in the same package (iloveyouboss) as ScoreCollection.
 - ✓ In Eclipse, we separate the tests and production code by putting the tests in one source folder (test) and the production code in another (src).
- Create a source folder named test before continuing.
 - ✓ In Eclipse, the easiest way to do this is in the Package Explorer. Select the project, right-click to bring up the context menu, and select New ► Source Folder. Type the name test as the Folder Name and click Finish.

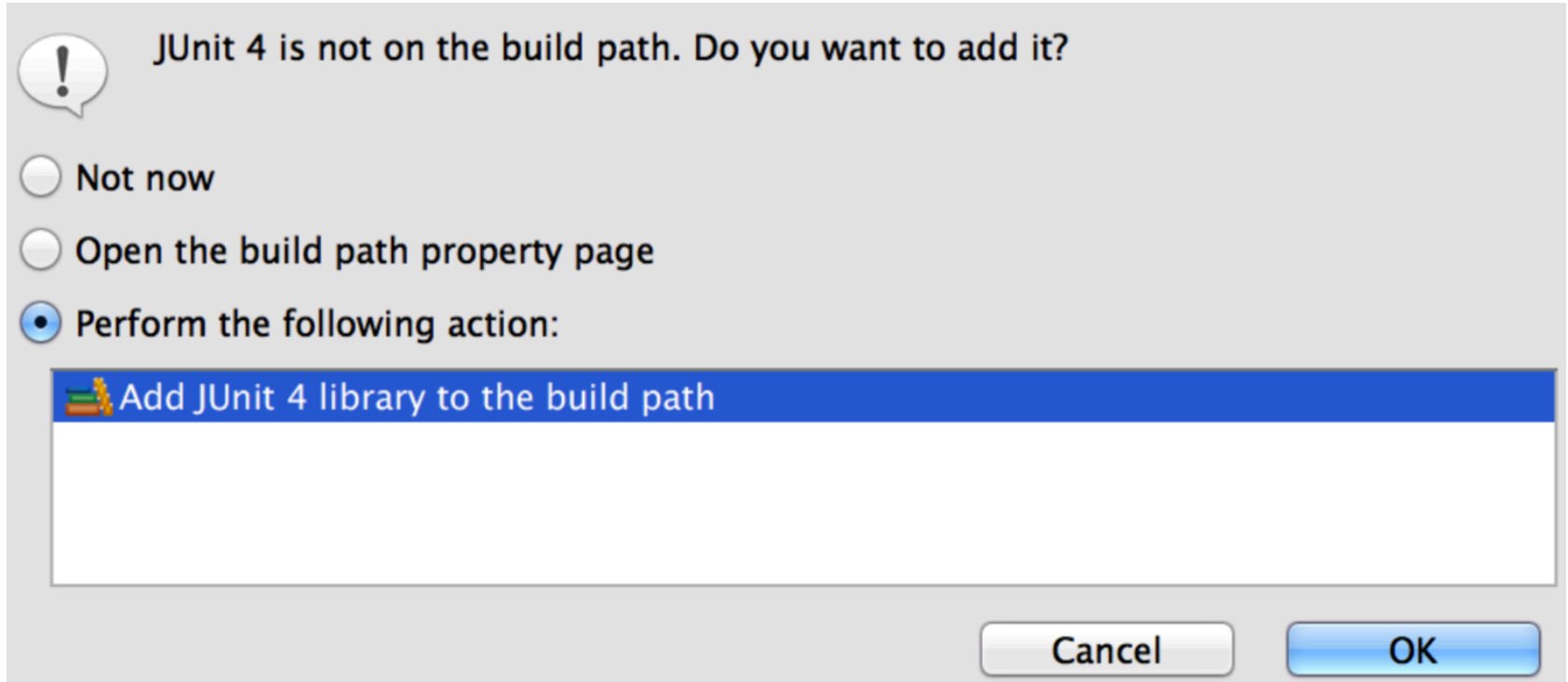
Setup 2

- Next, we'll create a JUnit test class for ScoreCollection.
- ✓ In Eclipse, here's one way to do this:
 - ✓ Select the ScoreCollection.java entry from the Package Explorer.
 - ✓ Right-click to bring up the context menu.
 - ✓ Select New ► JUnit Test Case.

Setup 3




Adding JUnit to the Path



The Wizard

JUnit Test Case

Select the name of the new JUnit test case. You have the options to specify the class under test and on the next page, to select methods to be tested.



☐ New JUnit 3 test ☒ New JUnit 4 test

Source folder:

Package:

Name:

Superclass:

Which method stubs would you like to create?

☐ setUpBeforeClass() ☐ tearDownAfterClass()
☐ setUp() ☐ tearDown()
☐ constructor

Do you want to add comments? (Configure templates and default value [here](#))

☐ Generate comments

Class under test:

