### **Code Coverage**

# Angelo Gargantini Informatica III

# Tool per la valutazione di copertura

# Esistono tantissimi tool per la valutazione di copertura

- Gratis/open source
- Commerciali

### Gratis:

- Google CodePro AnalytiX
- Eclemma
- CodeCover

### CodeCover

# Come usarlo- enable

#### You need to enable CodeCover-

Open the project properties dialog of the project and navigate to the CodeCover category.

Select the checkbox as shown in the screenshot below. You have now activated CodeCover for the "SimpleJavaApp" project. You also need to select the coverage criteria to be used in the instrumentation. In this case all available criteria were selected.

00	Pro	perties for SimpleJavaApp	
type filter text	8	CodeCover	ଡ଼・⇔∗
Resource Builders CodeCover Java Build Path Java Code Style Java Compiler Java Editor Javadoc Location Project References Refactoring History Run/Debug Settings		<ul> <li>Enable CodeCover</li> <li>Select the coverage criteria for the</li> <li>BranchCoverage</li> <li>ConditionCoverage</li> <li>LoopCoverage</li> <li>StatementCoverage</li> </ul>	project:
0		Cancel	ОК

## **Use for Coverage Measurement**

Select the classes you want to instrument. Open the package explorer view, navigate to the source folder of the "SimpleJavaApp" project and select those classes you want to be instrumented. Open the context menu of this selection and select the "Use For Coverage Measurement" entry. This will mark the selected items with an icon.



# **Run with CodeCover**

You need to tell Eclipse to use CodeCover. This is done in the "run configuration" dialog. You can reuse existing configurations or create new ones. Navigate to the CodeCover tab in the configuration and select the "Run with CodeCover" checkbox.



# **Run with JUnit**

To use your existing test suite you need to create a new "CodeCover Measurement For JUnit" rur configuration.Select the class which contains your JUnit test cases or test suite. Start the SUT with the run configuration to start the measurement. After terminating, the measurements are automatically stored in a test session, which holds all the test cases your test suite defined.

00	Run
Create, manage, and run configuration	15
S B ¥ B ≱•	Name: AppControllerTest JUnit 3
<ul> <li>CodeCover Measurement For JUI</li> <li>AppControllerTest JUnit 3</li> <li>AppControllerTest JUnit 4</li> <li>Eclipse Application</li> <li>Java Applet</li> <li>Java Application</li> <li>Simple Java App CodeCover</li> <li>Juji JUnit Plug-in Test</li> <li>OSGI Framework</li> </ul>	Run a single test Project: SimpleJavaApp Test class: codecover.simplejavaapp.controller.AppControllerTest Search Run all tests in the selected project, package or source folder: Test runner: JUnit 3 Keep JUnit running after a test run when debugging
Filter matched 10 of 10 items	Apply Revert
0	Close Run

### View measured data in Eclipse

Show methods with Statement C	overage	<= ↓	90.5 %	
Name	Statement	Branch	Loop	Strict Condition
AppController	<b>==</b> 49.1 %	<b>28.6</b> %		
AppFile	96.2 %	66.7 %	46.7 %	<b>==</b> 50.0 %
O AppModel	<b>—</b> 78.3 %	<b>= 36.4</b> %	100.0 %	- 0.0 %
😳 AppModel		100.0 %	100.0 %	100.0 %
AppModelModifyListener	100.0 %	100.0 %	100.0 %	100.0 %
😳 addAppModelModifyListenerT	c 💳 100.0 %	<b>50.0 %</b>	100.0 %	- 0.0 %
😳 addBookToFile	<b>—</b> 100.0 %	<b>50.0 %</b>	100.0 %	0.0 %
😟 closeFile	<b>= 100.0 %</b>	<b>50.0 %</b>	100.0 %	0.0 %
😟 getAppFile	<b>==</b> 100.0 %	<b>==</b> 50.0 %	100.0 %	<b>— 0.0 %</b>
😳 getBooksInFile	- 0.0 %	- 0.0 %	100.0 %	<b>— 0.0 %</b>
😳 getBooksInFile	<b>= 100.0 %</b>	100.0 %	100.0 %	100.0 %
😳 getinstance	- 0.0 %	<b>— 0.0 %</b>	100.0 %	0.0 %
😳 getPathOfFile	<b>—</b> 100.0 %	100.0 %	100.0 %	100.0 %
💿 isFileModified	<b>—</b> 100.0 %	100.0 %	100.0 %	100.0 %
😳 loadFile	<b>= 100.0 %</b>	<b>50.0</b> %	100.0 %	0.0 %
😳 newFile	<b>—</b> 100.0 %	100.0 %	100.0 %	100.0 %
😳 putAppFile	<b>—</b> 100.0 %	100.0 %	100.0 %	100.0 %
😳 removeAppModelModifyListen	e 💳 100.0 %	<b>==</b> 50.0 %	100.0 %	0.0 %
😳 removeBookFromFile	- 0.0 %		100.0 %	0.0 %
😳 saveFile	<b>—</b> 100.0 %	= 50.0 %	100.0 %	0.0 %
G AppView	<b>66.7 %</b>	<b>= 33.3 %</b>	<b>= 33.3 %</b>	- 0.0 %
Book	<b>—</b> 100.0 %	<b>75.0 %</b>	100.0 %	<b>50.0 %</b>
🕞 FrameMain	90.2 %	<b>78</b> .9 %	.0 %	<b>= 33.3 %</b>
G Simple JavaApp	0.0 %	0.0 %	100.0 %	0.0 %

### **Altre viste**

