

## **EclEmma** (source code coverage measurement)

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Execution: Project, right click on the class or test method name > *Coverage As > JUnit Test*

Results:

- Coverage tab (detailed results)
- Code coloring:
  - Green (covered)
  - Yellow (partially covered)
  - Red (not covered)

Navigation:

- Jump to a specific item in the code: double left click on the items in the Coverage tab

## **Atlas** (call graph, control and data flow graphs, etc.)

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Execution: automatic

Results:

- *Atlas Smart View* tab
  - *Call*: call graph
  - *Control Flow*: control flow graph
  - *Data Flow*: data flow graph
  - *Declarations*: declaration information
  - *Instantiation*: instantiation information
  - *References*: reference information
  - *Type Hierarchy*: type hierarchy

Navigation:

- Zoom: mouse scroll wheel
- Move: by holding down the right mouse button and moving the mouse
- Jump to a given element in the code: double-click on the nodes of the graph

## **iFL** (interactive fault localization)

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Execution:

1. Select project > Click on iFL icon or iFL menu > *Start iFL session*
2. *Load scores...* > select the right CSV > *Open*
3. *Show ordering list* > Move *Score* to the right > click on the arrow next to *Score* (down arrow == descending order)

Results:

- list of methods in the *Interactive Fault Localization* tab

Navigation:

- Jump to a specific element in the code: double-click on the method cards
- Score modification: select method(s) cards with left click > right click on selection > *Context based feedback* > set the desired values > *OK*