**How to install Jacoco on Eclipse**

**Manual Download and Installation**

For manual installation please [download](https://www.eclemma.org/download.html) the latest EclEmma release. Unzip the archive into dropins folder of your Eclipse installation and restart Eclipse:

<your eclipse installation>/

+- dropins/

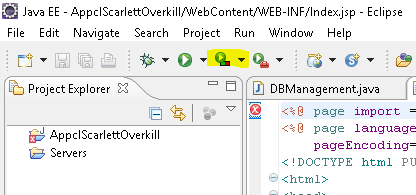
+- eclemma-x.y.z/

+- plugins/

| +- ...

+- feature/

+- ...

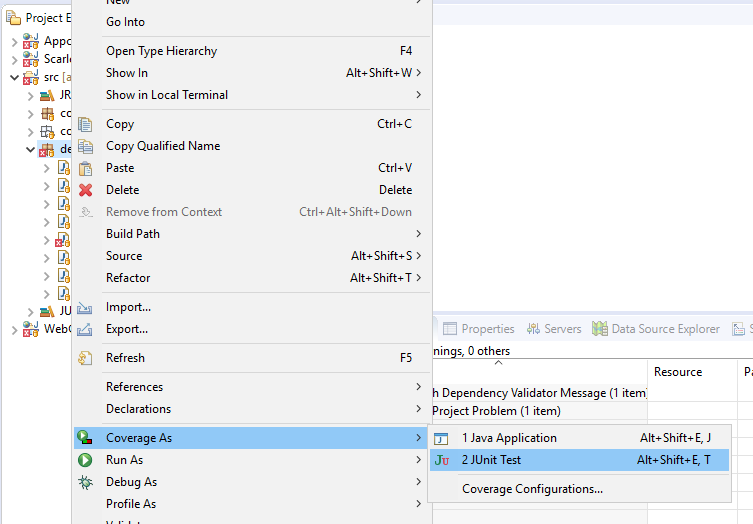


**Verification**

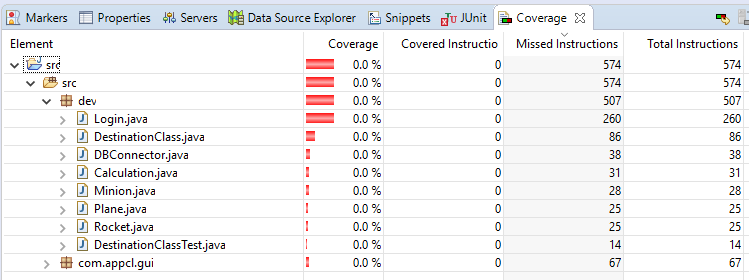
The installation was successful if you can see the coverage launcher in the toolbar of the Java perspective.

# **Code Coverage Report**

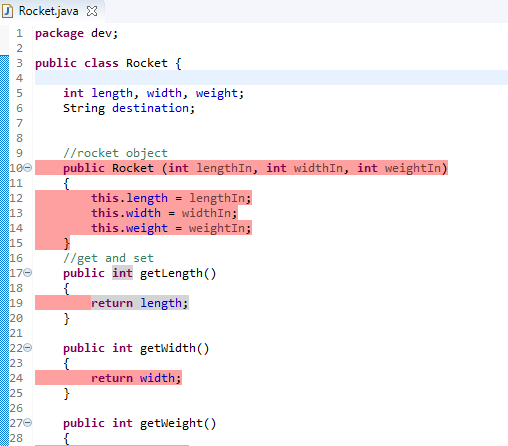
To start a code coverage report, right click on the section of the project you want to cover and under “coverage as” select JUnit Test.



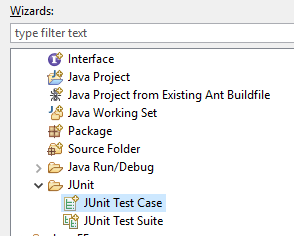
As no coverage has been done at this point, total coverage is at 0.0% which leaves us in technical debt.

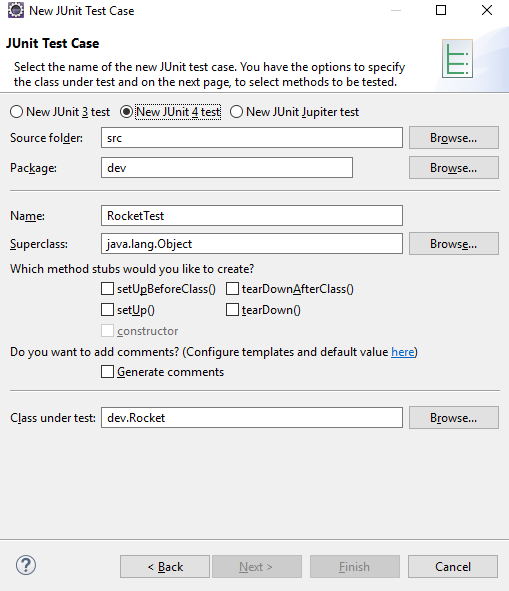


As an example, the rocket class has no coverage and looks like this:



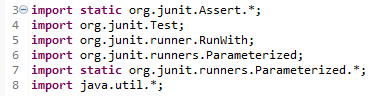
Right click on the rocket class and under new select other. Use this wizard to setup a JUnit test case which is found in the JUnit folder under Java. Click next then check that the name is RocketTest and the class under test is dev.Rocket and click finish.



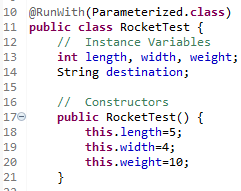


Refresh the code coverage report so that it is now covering this new test case. The RocketTest class will be red since the class is automatically setup to fail because a test hasn’t been implemented yet.

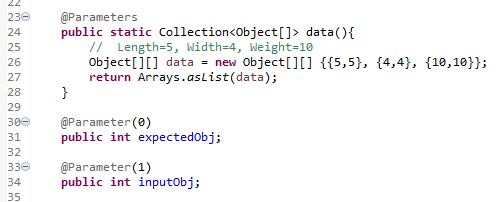
To run the test case successfully we will need to import the required libraries.



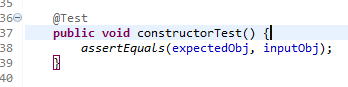
We will need to declare that there will be parameters to test when creating the class with @RunWith(Parameterized.class)



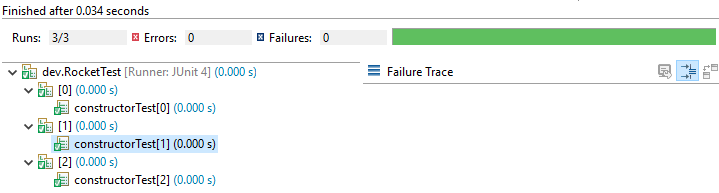
We will then need to set up the expected parameters with @Parameters and the input along with the expected output.

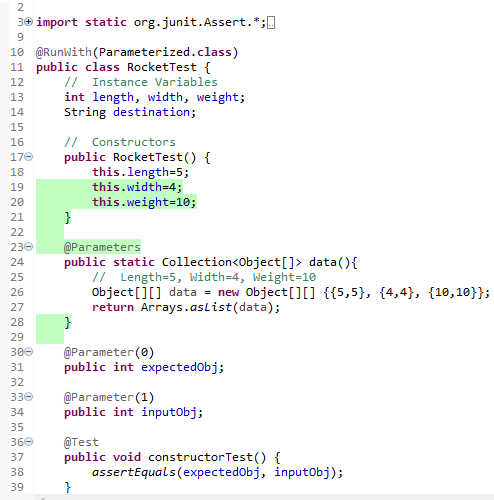


Finally, it is time to test the constructor simply using @Test



You can now run the test to see if you were successful and afterwards there should be 3 runs and nothing in the failure trace as well as no code highlighted in red.





The coverage of the rocket test class is now 100% bringing the total coverage of the dev package up to 12.9%.

