**Code Coverage**

**Step 1:** Installing of EclEmma

* Install from Eclipse Marketplace Client: EclEmma requires Eclipse 3.8 or higher versions and Java 1.5 or higher versions.
* Follow the steps below or drag and drop the button above into a running Indigo workspace:
* From your Eclipse menu select Help → Eclipse Marketplace
* Search for "EclEmma"
* Hit Install for the entry "EclEmma Java Code Coverage"
* Follow the steps in the installation wizard

**Step 2:** Verifying Installed EclEmma tool

* The installation was successful if you can see the coverage launcher in the toolbar of the Java perspective:
* Note: If the Coverage drop-down toolbar button is not visible in your current workbench perspective, open the **Customize Perspective... dialog** and enable the **Coverage command group** on the Commands tab.

## **Step 3:** Using the Coverage View

* The *Coverage* view automatically appears when a new coverage session is added or can be manually opened from the *Window → Show View* menu in the *Java* category. It shows coverage summaries for the active session.

## **Step 4:** DemonstratingSource Code Annotation

* Line coverage and branch coverage of the active coverage session is also directly displayed in the Java source editors. This works for Java source files contained in the project as well as source codes attached to binary libraries.
* Source lines containing executable code have the following color code:
* **Green** for fully covered lines
* **Yellow** for partly covered lines (some instructions or branches that are missed)
* **Red** for lines that have not been executed at all
* In addition, colored diamonds are shown at the left for the lines containing decision branches. The colors for the diamonds have a similar semantic than the line highlighting the colors:
* **Green** for fully covered branches
* **Yellow** for partly covered branches
* **Red** when no branches in the particular line have been executed
* These default colors can be modified in the *Preferences* dialog (see next section). The source annotations automatically disappear when you start editing a source file or delete the coverage session.

## **Step 5:** Highlighting Preferences

The Eclipse preferences section *General → Appearance → Editors → Text Editors → Annotations* allows to modify the visual representation of coverage highlighting. The corresponding entries are:

* Full Coverage
* Partial Coverage
* No Coverage

## **Step 6:** Demonstrating Coverage Properties

For each Java element (Java project, source folder, package, type, or method) EclEmma provides a *Coverage* property page summarizing all coverage counters