



Galileo
06.24.09

Galileo New and Noteworthy

Platform Workspace Team
IBM Poland

2009-06-27

Galileo New and
Noteworthy

Overview

- How it grows
- New projects

Platform

- p2
- Mac Cocoa
- OSGi - Declarative Services

JDT

- Enhancements in Java
- Compare Editor
- Dead Code Analysis

PDE

- Improved Plug-In Spy
- Target Platform
- Installing into host
- API tooling

Memory Analyzer

PHP Development Tools

Source Editing

And last but not least

- New packages
- Other

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- ▶ Swordfish - The goal of the Swordfish project is to provide an extensible SOA framework based on the proven Eclipse Equinox runtime technology
- ▶ ACTF
- ▶ EclipseLink
- ▶ JWT
- ▶ TmL
- ▶ PDT - Eclipse PHP Development Tools (PDT) provides a development environment, based on the Eclipse platform, for developing PHP scripts.
- ▶ Xtext
- ▶ Riena - Riena is a platform for developing multi-tier rich client applications based on the Eclipse Rich Client Platform (RCP) and Equinox

See <http://ianskerrett.wordpress.com/2009/06/25/eclipse-freshman-project-8-riena/>

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- ▶ The Eclipse provisioning platform (p2) released as part of Ganymede provided a replacement for Update Manager
- ▶ p2, round 2 - major redesign of p2 user interface, over 1000 bugs closed



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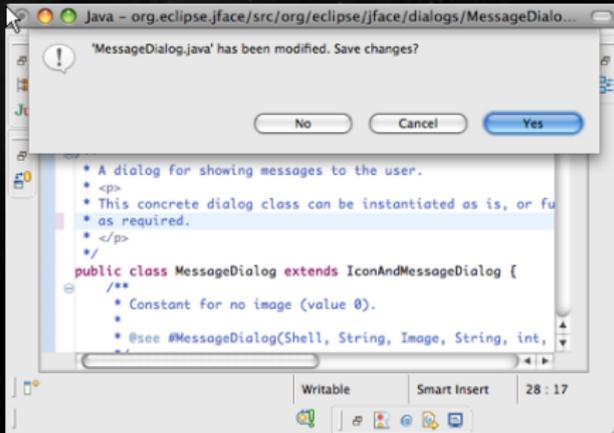
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Eclipse 3.5 and Galileo can use Cocoa as the windowing library. As a result of the Cocoa port, you can also run Java 6 since Apple has only provided a 64 bit Java 6 VM. You can even use the new SWT.SHEET style bit to make your Eclipse-based applications look more native on the Mac.



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The Eclipse rich client platform now includes an implementation of OSGi declarative services (DS). This allows a lazy-starting plug-in to make OSGi services available to other plug-ins before it has been started. Finally the powerful OSGi dynamic service architecture can be fully exploited in the Eclipse world of lazy activation.

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Java Compare Editor is more like the regular Java Editor now.

- ▶ Content Assist (Ctrl+Space)
- ▶ Hyperlinking (Ctrl+Click)
- ▶ Javadoc on Hover
- ▶ Quick Outline (Ctrl+O)
- ▶ Go to Line

```
574 * <strong>Note:</strong> This impl
575 *
576 * @since 3.4
577 */
578 public UndoEdit applyTextEdit (TextE
579     return fText
580 )
581
582
583
```

UndoEdit org.eclipse.jdt.internal.ui.javaeditor.Doc
(TextEdit edit, IProgressMonitor) throws

Applies a text edit to this underlying buffer.

Note: This implementation applies the edits in a rewrite session

Specified by: [applyTextEdit\(...\)](#) in [ITextEditCapability](#)

Parameters:
edit the edit to apply
monitor the progress monitor to use or null if no p

Returns:

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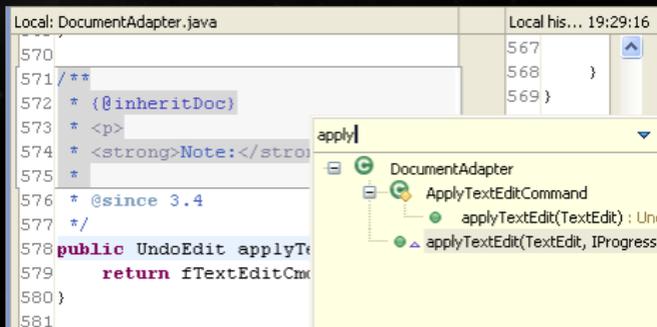
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The screenshot shows a Java code editor with the following content:

```
Local: DocumentAdapter.java | Local his... 19:29:16
570 |
571 | /**
572 | * {@inheritDoc}
573 | * <p>
574 | * <strong>Note:</strong>
575 | *
576 | * @since 3.4
577 | */
578 | public UndoEdit applyTe
579 |     return fTextEditCm
580 | }
581 |
```

Overlaid on the code is a quick outline window titled 'apply' showing the following structure:

- DocumentAdapter
 - ApplyTextEditCommand
 - applyTextEdit(TextEdit) : Unc
 - applyTextEdit(TextEdit, IProgressf

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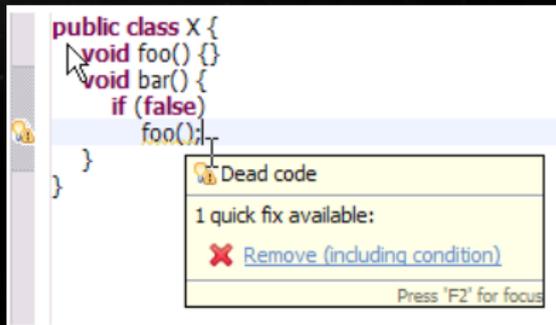
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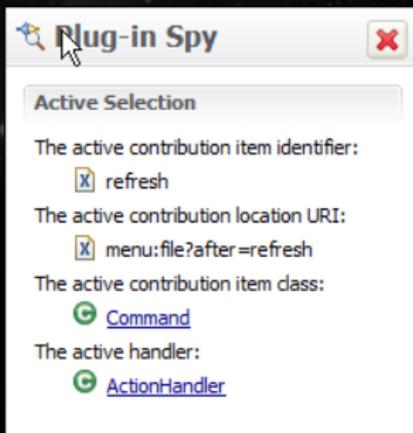
This small enhancement helps to get rid of dead code in your application.



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Plug-in spy (Alt+Shift+F1), added in Ganymede, allows to inspect various part of the workbench (Editors, Views, Wizards, Dialogs). In Galileo menus can also be inspected. Press Alt+Shift+F2, then click on the menu item that you want to inspect.



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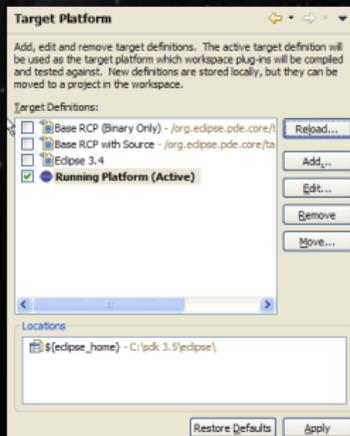
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The target platform preference page (Preferences > Plug-in Development > Target Platform) has been redesigned. The page allows the user to select the active target platform from all target definitions in the workspace.



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Plug-ins can be directly deployed into your running instance.



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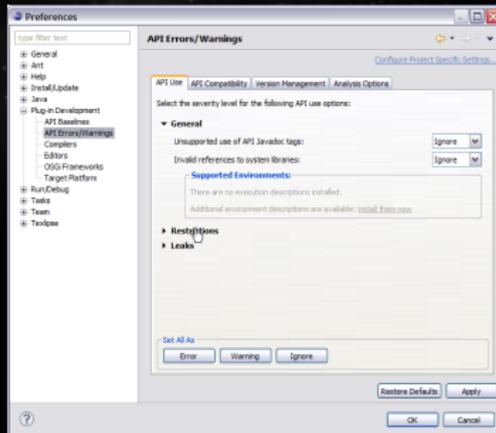
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Good version managements for bundles and plug-ins is essential when you start building complex applications with OSGi. API Tools helps to maintain the right version number based on the changes in our code.



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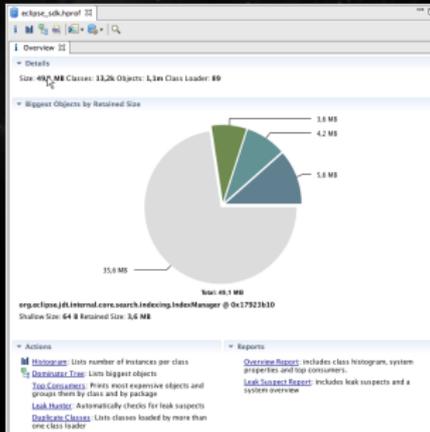
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The Eclipse Memory Analyzer is a fast and feature-rich Java heap analyzer that helps you find memory leaks and reduce memory consumption.



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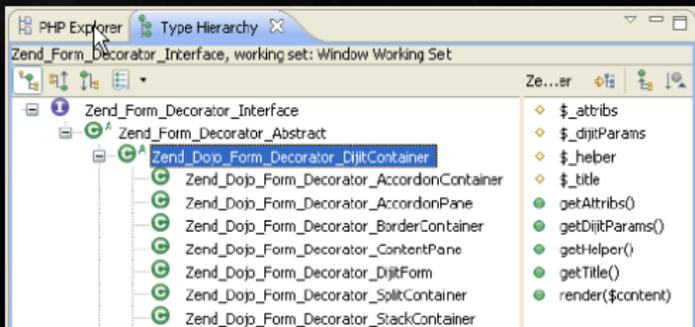
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Eclipse PHP Development Tools (PDT) provides a development environment, based on the Eclipse platform, for developing PHP scripts.



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```
public function writeDate($date)
{
    if ($date instanceof DateTime) {
        $dateString = $date->format('U') * 1000;
    } elseif ($date instanceof Zend_Date) {
        $dateString = $date->toString('U') * 1000;
    } else {
```

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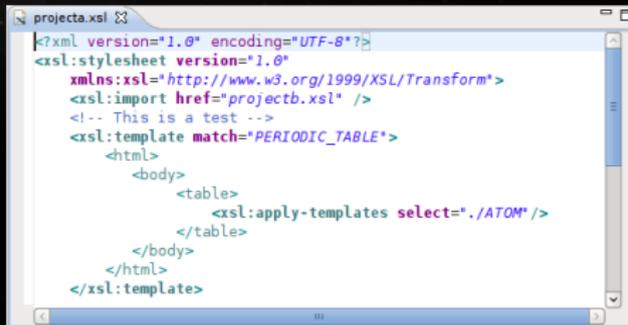
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The Source Editing project is a sub-project in the Eclipse WTP Top-Level Project. Its main goal is to provide source editing support for typical "web" languages



```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:import href="projectb.xsl" />
  <!-- This is a test -->
  <xsl:template match="PERIODIC_TABLE">
    <html>
      <body>
        <table>
          <xsl:apply-templates select="./ATOM" />
        </table>
      </body>
    </html>
  </xsl:template>
```

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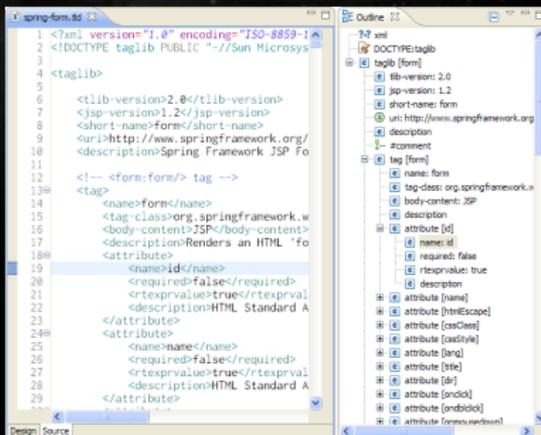
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Eclipse Packages

Projects

Galileo Packages (based on Eclipse 3.5) - [Compare Packages](#)



Eclipse for PHP Developers (139 MB)

Tools for PHP developers creating Web applications, including PHP Development Tools (PDT), Web Tools Platform, Mylyn and others. [More...](#)

Downloads: 16,783



Pulsar for Mobile Java Developers (112 MB)

Pulsar is a tools platform for Mobile Java Developers. It includes the Eclipse Platform, Java Development Tools (JDT), Mobile Tools for Java (MTJ), Mylyn and Plugin Development Environment (PDE). Pulsar also makes it easy to download SDK from different handset manufacturers. [More...](#)

Downloads: 2,208

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- ▶ Performance improved, e.g. projects are built faster
- ▶ Localization
- ▶ Improved help and documentation

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