



Contributing to an Eclipse Project



Who Are We?

Olivier Prouvost

- OPCoach (www.opcoach.com), Eclipse trainer and consultant
- Committer on e4 tools and Eclipse Platform UI

Wayne Beaton

- Director of Open Source Projects
- The Eclipse Foundation
- Committer on a bunch of projects
- Contributor for a bunch of projects
- Project mentor on everything





Contributor? Committer?

Contributor

- Open bugs, answer questions, submit patches

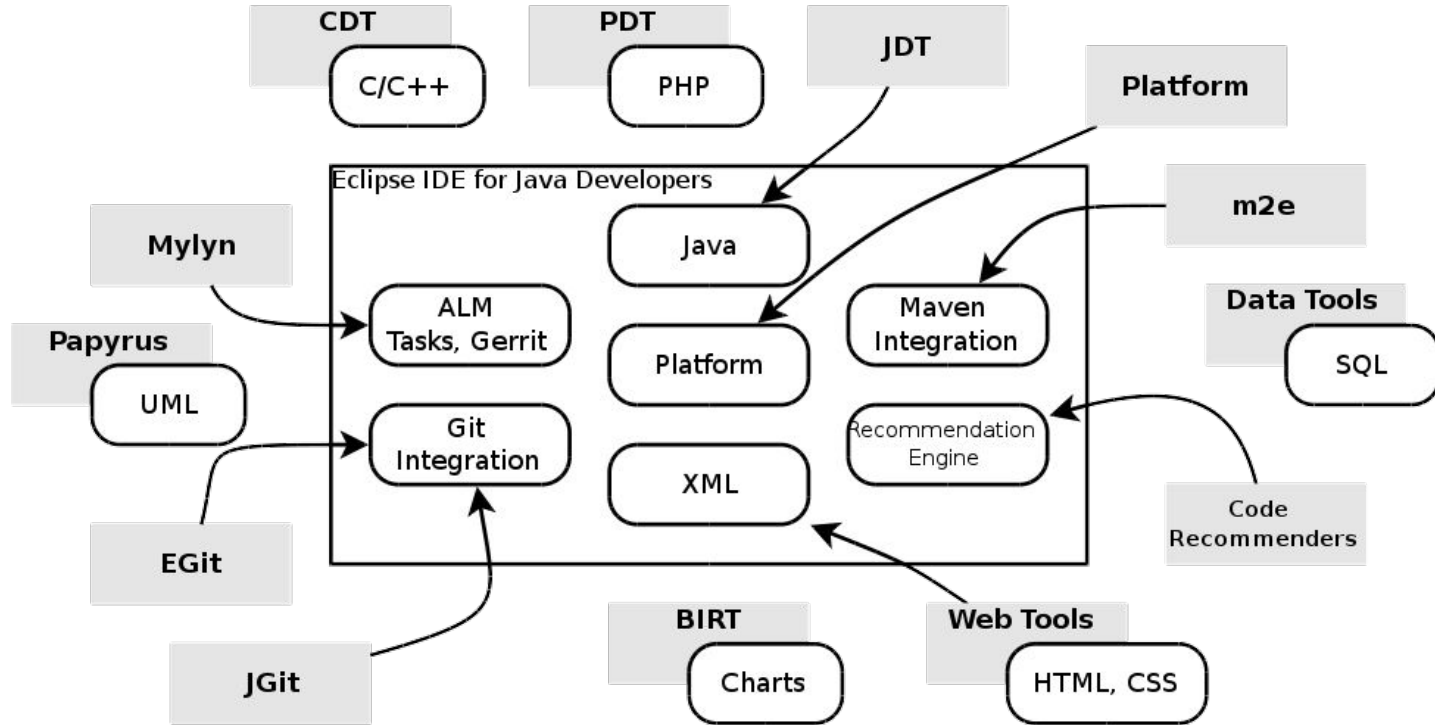
Committer

- Open/Triage/Close bugs, answer questions, write code
- Review and accept patches
- Interact and develop the project community

Contributors with an established record of quality contribution may be invited to join the project team as a committer



What is an Eclipse IDE?





Contributor License Agreement

Essentially...

- You have authored 100% of the content.
- You have the necessary rights
- Provided under the license(s) associated with the project
- Public record of the contribution

Read the full document.

All contributors must sign the CLA.

<https://www.eclipse.org/legal/CLA.php>



Configure Your Development Environment

For Eclipse Platform Development:

- Download the latest nightly/integration build (e.g. “I20160301-1230”)
- <http://download.eclipse.org/eclipse/downloads>
- https://wiki.eclipse.org/Platform_UI/How_to_Contribute

For other Eclipse Projects, use the advanced mode installer

- “Eclipse Oomphed” with Eike Stepper and Ed Merks
 - <https://www.eclipsecon.org/na2016/session/eclipse-oomphed>



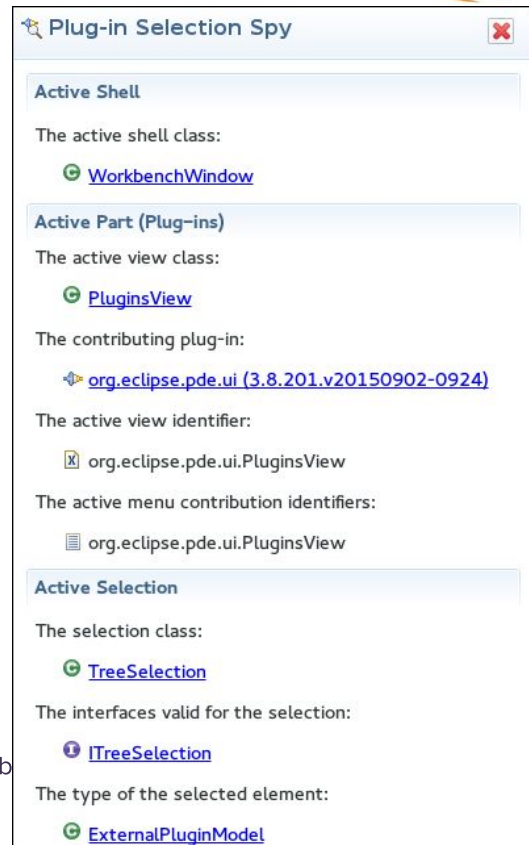
Finding “Where” in the Code

Plug-in Spy (Shift+Alt+F1)

Menu Spy (Shift+Alt+F2)

Stack trace in .metadata/.log file

Bugzilla (helpwanted, bugday)



Get the Code

A screenshot of an IDE's project browser. The project 'org.eclipse.core.net (1.2.300-20111118-1785)' is selected and highlighted in blue. A context menu is open over it, listing various actions. The 'Import As' option is selected, and a sub-menu is displayed to its right, listing project types: 'Binary Project', 'Binary Project with Linked Content', 'Source Project', and 'Project from a Repository...'. The 'Project from a Repository...' option is highlighted in blue. Other projects listed in the browser include 'org.eclipse.core.jobs (3.7.0.v20150330-2103)', 'org.eclipse.core.net.linux.x86_64 (3.7.0.v20150330-2103)', 'org.eclipse.core.resources (3.7.0.v20150330-2103)', 'org.eclipse.core.runtime (3.7.0.v20150330-2103)', 'org.eclipse.core.runtime.compatibility.internal (3.7.0.v20150330-2103)', 'org.eclipse.core.variables (3.7.0.v20150330-2103)', 'org.eclipse.datatools.common.core (3.7.0.v20150330-2103)', 'org.eclipse.datatools.connector (3.7.0.v20150330-2103)', 'org.eclipse.datatools.connector.ui (3.7.0.v20150330-2103)', and 'org.eclipse.datatools.connector.ui.tests (3.7.0.v20150330-2103)'.

org.eclipse.core.jobs (3.7.0.v20150330-2103)

org.eclipse.core.net (1.2.300-20111118-1785)

org.eclipse.core.net.linux.x86_64 (3.7.0.v20150330-2103)

org.eclipse.core.resources (3.7.0.v20150330-2103)

org.eclipse.core.runtime (3.7.0.v20150330-2103)

org.eclipse.core.runtime.compatibility.internal (3.7.0.v20150330-2103)

org.eclipse.core.variables (3.7.0.v20150330-2103)

org.eclipse.datatools.common.core (3.7.0.v20150330-2103)

org.eclipse.datatools.connector (3.7.0.v20150330-2103)

org.eclipse.datatools.connector.ui (3.7.0.v20150330-2103)

org.eclipse.datatools.connector.ui.tests (3.7.0.v20150330-2103)

Open

Open Dependencies

Find References

Import As

Add to Java Search

Copy

Select

Go Home

Go Back

Go Into

Binary Project

Binary Project with Linked Content

Source Project

Project from a Repository...



Important Terms

Target Platform

- The set of bundles that project code builds and runs against

API Baseline

- Compatibility analysis

Start by setting both to the current platform

Configure for Gerrit Code Review



The screenshot shows a web browser window with the URL `https://git.eclipse.org/r/#/admin/projects/platform/eclipse.platform.runtime`. The browser's address bar and tabs are visible. The page content includes a navigation menu with 'All', 'My', 'Projects', 'People', and 'Documentation'. Below the navigation is the Eclipse logo and the project name 'Project platform/eclipse.platform.runtime'. A row of links for cloning the project is shown, with 'SSH' selected. The 'Description' section contains the text 'Eclipse Platform Runtime'. The 'Project Options' section includes several configuration items:

- State: Active
- Submit Type: Fast Forward Only
- Automatically resolve conflicts: FALSE
- Create a new change for every commit not in the target branch: INHERIT (false)
- Require Change-Id in commit message: INHERIT (false)



Anatomy of a Git Commit Record

```
commit d6cf52411377a039fc2906378711091a26e932cb
Author: Some Body <somebody@somewhere.com>
Date:   Wed May 29 16:17:36 2013 +0200
```

```
    Bug 350686 - Hide unwanted action bar items
    This change hides unwanted 'Link with Editor' and
    'Customize View...' items from the local toolbar
    and the view menu.
```

```
Change-Id: Ia2bd5091303d1b0a738157effc24e4dac5a7d0c7
Also-by: Some Bodyelse <somebodyelse@nowhere.com>
Signed-off-by: Some Body <somebody@somewhere.com>
```

Let's Get Started



Use cases/Recipes/Cheat Sheets



Look for them on the EclipseCon Website!