



# Contributing to an Eclipse Project



# Who Are We?

## Olivier Prouvost

- OPCoach ([www.opcoach.com](http://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

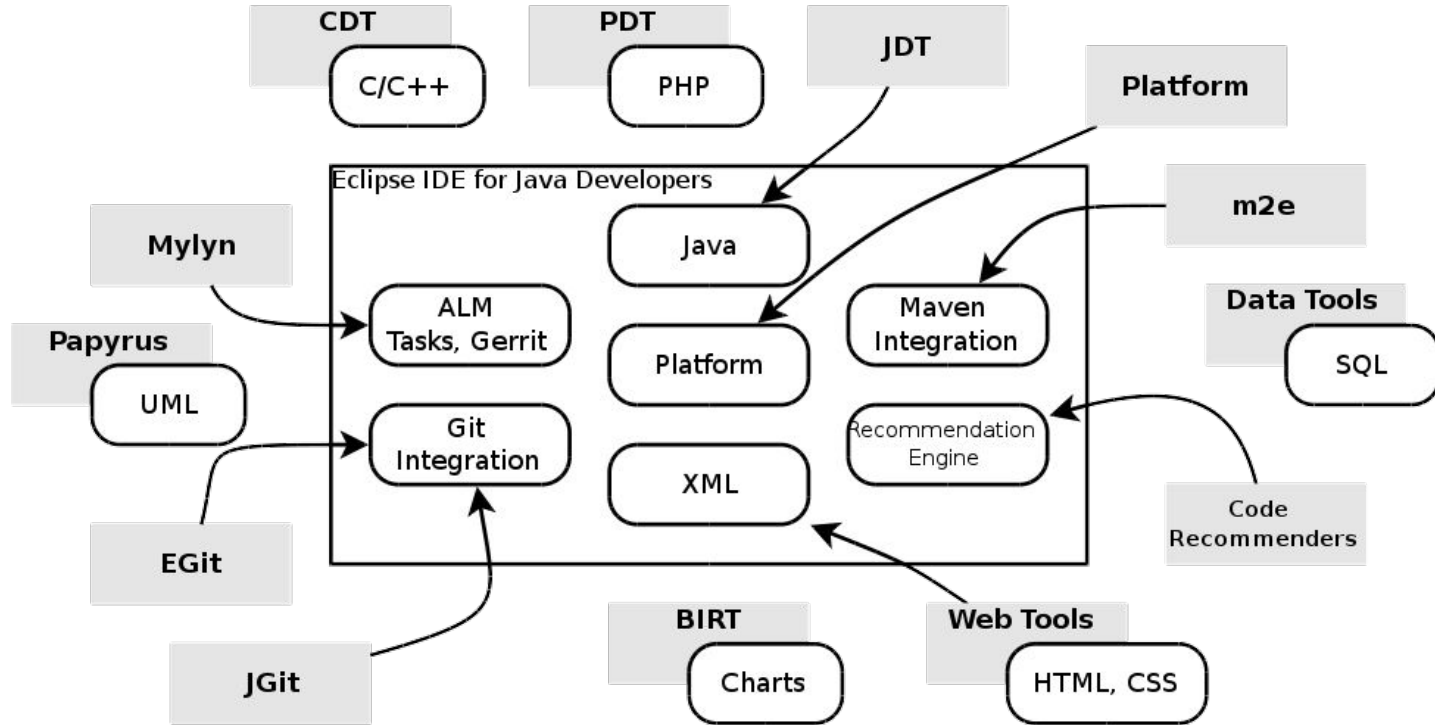
## Committer

- 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](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>



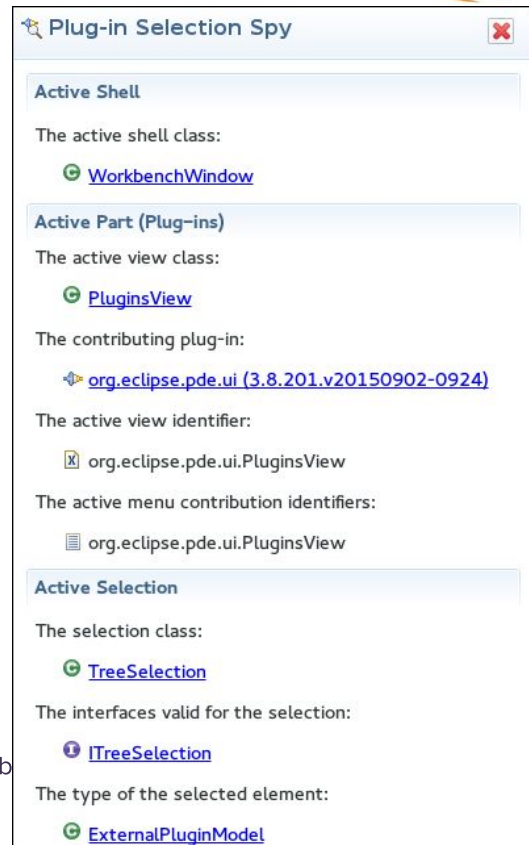
# Finding “Where” in the Code

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 open showing options like '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.v201304-2013)', 'org.eclipse.core.resources (3.7.0.v201304-2013)', 'org.eclipse.core.runtime (3.7.0.v201304-2013)', 'org.eclipse.core.runtime.compatibility.internal (3.7.0.v201304-2013)', 'org.eclipse.core.variables (3.7.0.v201304-2013)', 'org.eclipse.datatools.common.core (3.7.0.v201304-2013)', 'org.eclipse.datatools.connector (3.7.0.v201304-2013)', 'org.eclipse.datatools.connector.runtime (3.7.0.v201304-2013)', and 'org.eclipse.datatools.connector.runtime.common (3.7.0.v201304-2013)'.

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.v201304-2013)

org.eclipse.core.resources (3.7.0.v201304-2013)

org.eclipse.core.runtime (3.7.0.v201304-2013)

org.eclipse.core.runtime.compatibility.internal (3.7.0.v201304-2013)

org.eclipse.core.variables (3.7.0.v201304-2013)

org.eclipse.datatools.common.core (3.7.0.v201304-2013)

org.eclipse.datatools.connector (3.7.0.v201304-2013)

org.eclipse.datatools.connector.runtime (3.7.0.v201304-2013)

org.eclipse.datatools.connector.runtime.common (3.7.0.v201304-2013)

org.eclipse.datatools.connector.runtime.common.runtime (1.0.2.v201107221459)

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 a search bar and a sub-menu with 'List', 'General', 'Branches', 'Access', and 'Dashboards'. The Eclipse logo is prominently displayed. The main heading is 'Project platform/eclipse.platform.runtime'. There are tabs for 'clone', 'clone with commit-msg hook', 'Anonymous Git', 'Anonymous HTTP', 'SSH', and 'HTTP'. The 'SSH' tab is selected, showing the command: `git clone ssh://wbeaton@git.eclipse.org:29418/platform/eclipse.platform.runtime`. Below this is a 'Description' section with the text 'Eclipse Platform Runtime'. At the bottom, the 'Project Options' section contains 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)), and '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!