



Contributing to an Eclipse Project



Who Are We?

Olivier Prouvost

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

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

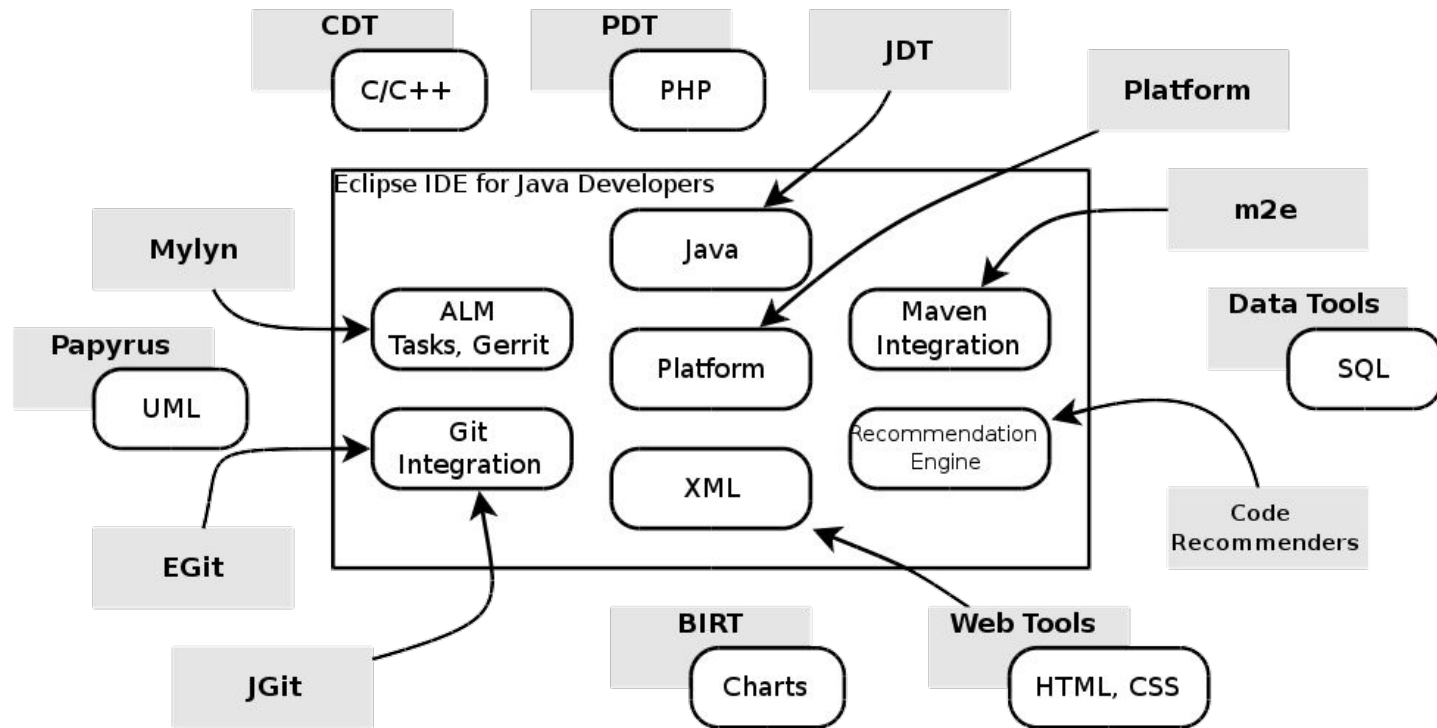
Committer

- 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?





Eclipse Contributor 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 ECA.

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



Configure Your Development Environment

For Eclipse Platform Development:

- Download the latest nightly/integration build
- <http://download.eclipse.org/eclipse/downloads>
- https://wiki.eclipse.org/Platform_UI/How_to_Contribute

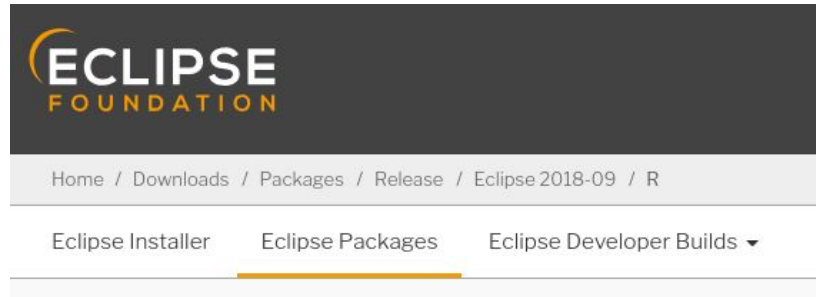
For other Eclipse Projects, use the advanced mode installer

- “Eclipse Oomphed” with Eike Stepper and Ed Merks



... or Quick and Simple

- Download “Developer Builds”
 - <https://www.eclipse.org/downloads/packages/>
 - “Eclipse IDE for Eclipse Committers”
- OR... Latest integration build
 - <http://download.eclipse.org/eclipse/downloads/>
- Run with new workspace





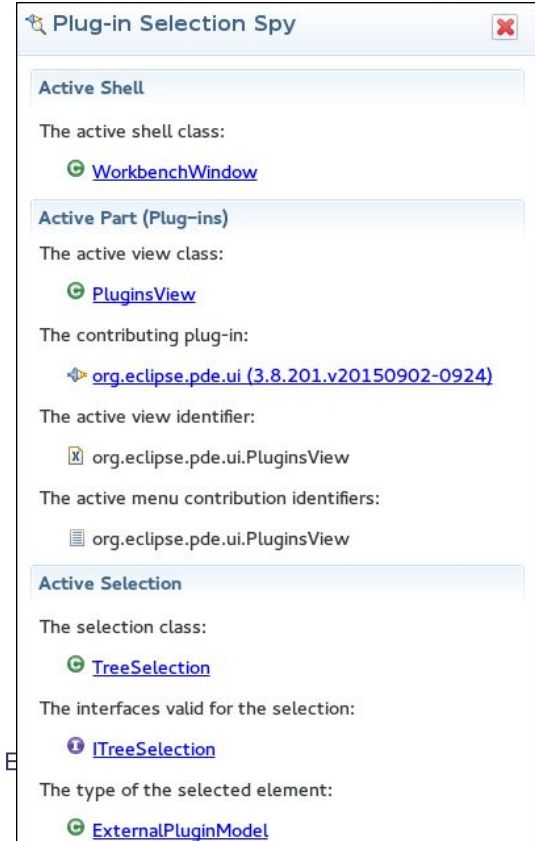
Finding “Where” in the Code

Plug-in Spy (Shift+Alt+F1)

Menu Spy (Shift+Alt+F2)

Stack trace in .metadata/.log file

Bugzilla (helpwanted, bugday)



Find an Error in Your Instance...

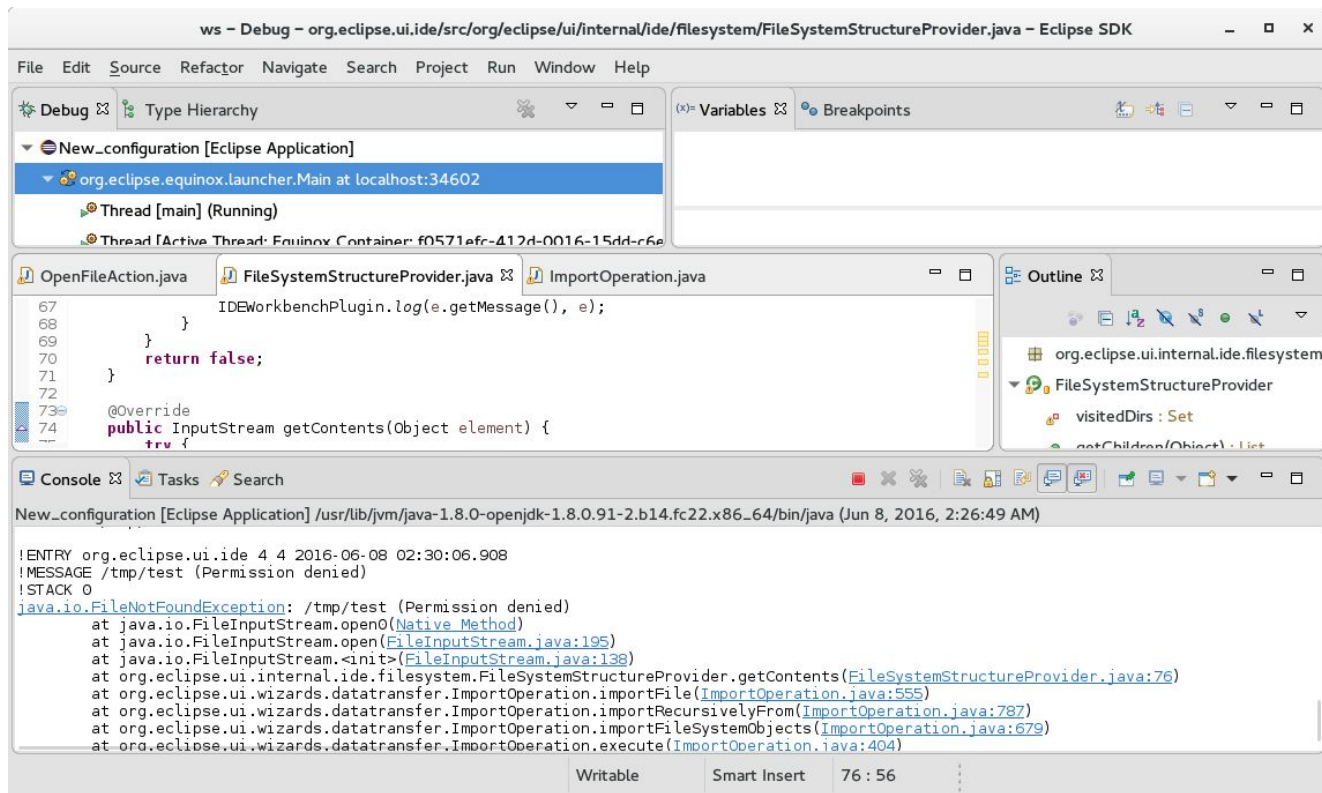
A screenshot of the Eclipse IDE interface. The top window title is "ws - Java - org.eclipse.ui.ide/src/org/eclipse/ui/internal/ide/filesystem/FileSystemStructureProvider.java - Eclipse SDK". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The Package Explorer on the left shows a project structure with packages like org.eclipse.ui, org.eclipse.ui.ide, and org.eclipse.ui.workbench. The central editor shows the source code of "OpenFileAction.java", with line 74 highlighted. The bottom of the IDE has a Problems view showing an error: "/tmp/test (Permission denied)". An "Event Details" dialog is open in the foreground, displaying the following information:

Event Details

Plug-in: org.eclipse.ui.ide
Severity: Error
Date: 2016-06-08, 2:51 AM
Message: /tmp/test (Permission denied)
Exception Stack Trace:
java.io.FileNotFoundException: /tmp/test (Permission denied)
at java.io.FileInputStream.open0(Native Method)
at java.io.FileInputStream.open(FileInputStream.java:195)
at java.io.FileInputStream.<init>(FileInputStream.java:138)
at org.eclipse.ui.internal.ide.filesystem.FileSystemStructureProvider.getContents
at org.eclipse.ui.wizards.datatransfer.ImportOperation.importFile(ImportOperation
at org.eclipse.ui.wizards.datatransfer.ImportOperation.importRecursivelyFrom(Imp
at org.eclipse.ui.wizards.datatransfer.ImportOperation.importFileSystemObjects(I
at org.eclipse.ui.wizards.datatransfer.ImportOperation.execute(ImportOperation.j
Session Data:
eclipse.buildId=4.6.0.I20160606-1100
java.version=1.8.0_91
java.vendor=Oracle Corporation

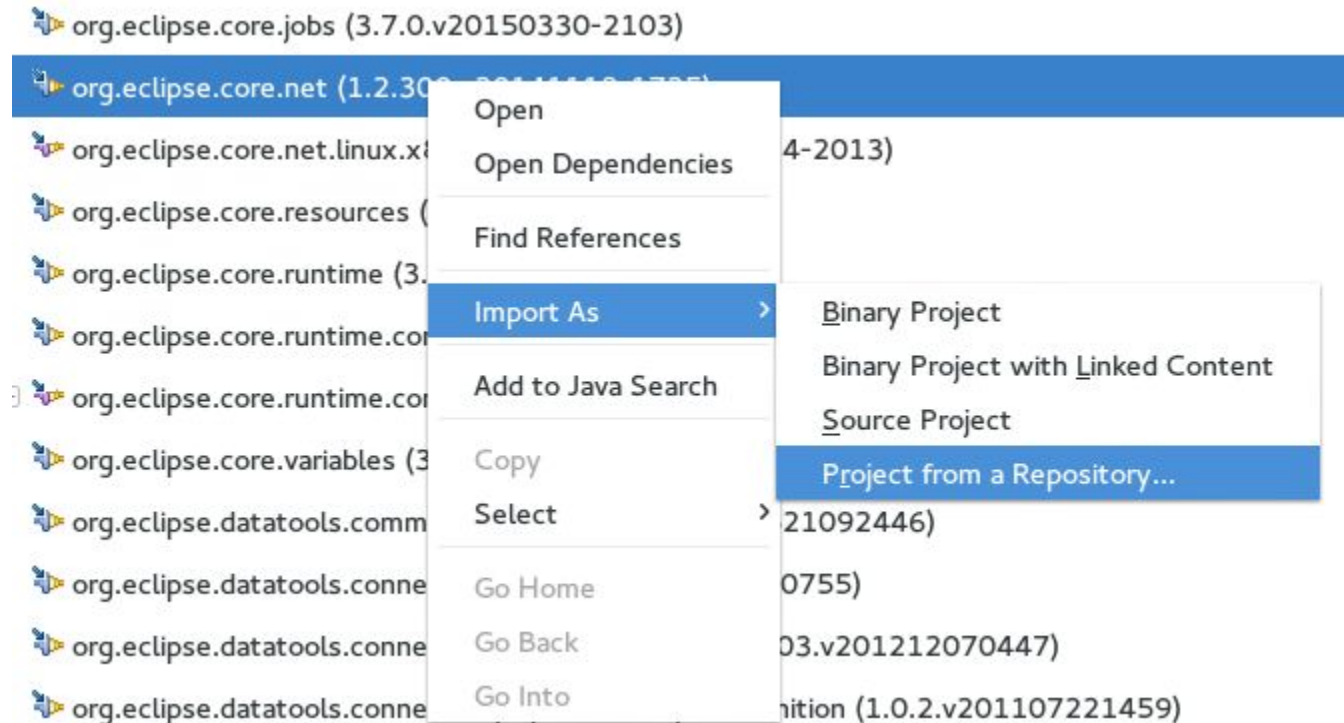
Buttons: Up, Down, Copy, Paste, OK, ?

... Or Debug It





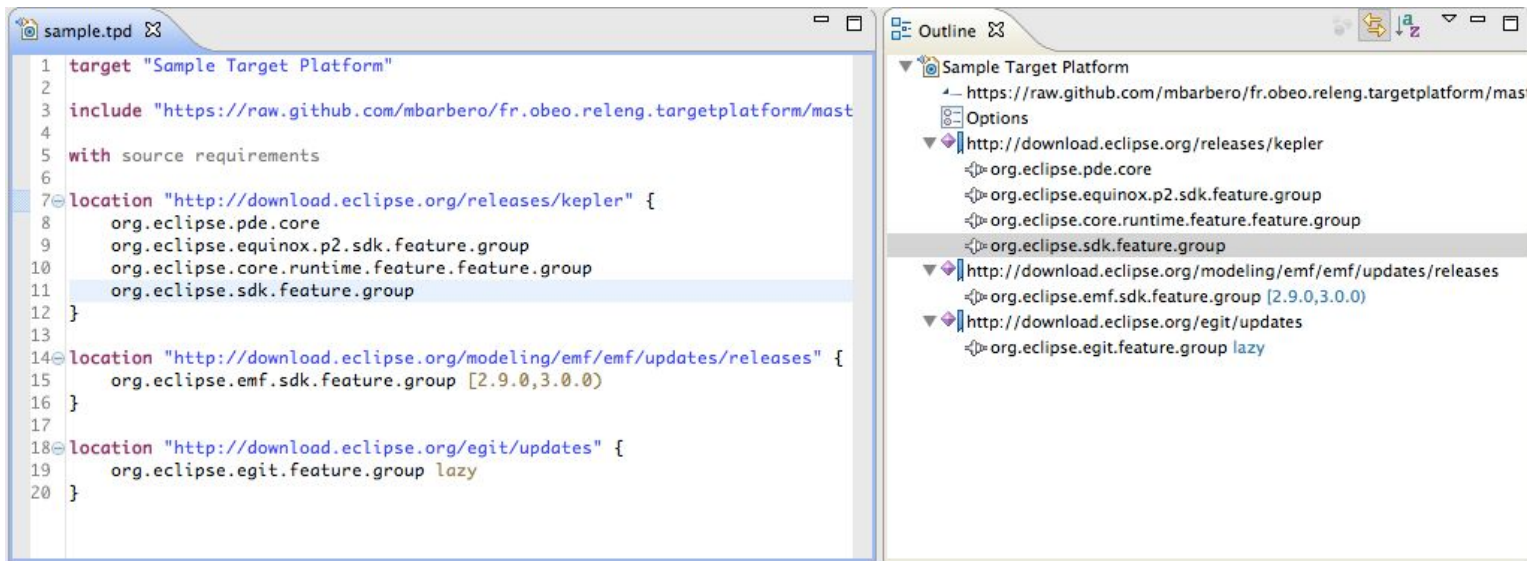
Get the Code (from Plug-in View)





Target Platform

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

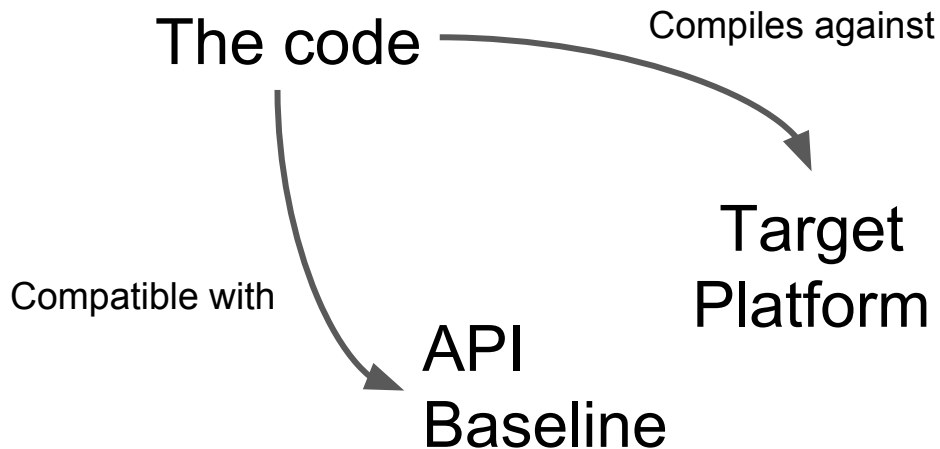


<https://github.com/eclipse-cbi/targetplatform-dsl>



API Baseline

- Compatibility analysis
- Can be different from the target platform



https://wiki.eclipse.org/Platform_UI/How_to_Contribute

Configure for Gerrit Code Review




Project platform/ecli x Wayne

https://git.eclipse.org/r/#/admin/projects/platform/eclipse.platform.runtime

All My **Projects** People Documentation Search term

List General Branches Access Dashboards

 eclipse

Project platform/eclipse.platform.runtime

clone clone with commit-msg hook Anonymous Git Anonymous HTTP SSH HTTP

```
git clone ssh://wbeaton@git.eclipse.org:29418/platform/eclipse.platform.runtime
```

Description

Eclipse Platform Runtime

Project Options

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!