

# Effective Mylyn

Tasktop®

Mik Kersten, Robert Elves, Steffen Pingel

eclipse

Java - MultiPageEditor.java - Eclipse Platform

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer X

ca.ubc.mylar.sample

- src
  - ca.ubc.mylar.sample
    - SamplePlugin.java
  - ca.ubc.mylar.sample.editors
    - MultiPageEditor.java
    - MultiPageEditorContributor.java
  - ca.ubc.mylar.sample.wizards
    - SampleNewWizard.java
    - SampleNewWizardPage.java

Plug-in Dependencies

JRE System Library [jre1.5.0]

icons

build.properties

plugin.xml

CVS Repository Java Resource

MultiPageEditor.java X SamplePlugin.java

```
public class MultiPageEditor extends MultiPageEditorPart

    /**
     * The text editor used in page 0.
     */
    private TextEditor editor;

    /**
     * The font chosen in page 1.
     */
    private Font font;

    /**
     * The text widget used in page 2.
     */
    private StyledText text;
    /**
     * Creates a multi-page editor example.
     */
    public MultiPageEditor() {
        super();
        ResourcesPlugin.getWorkspace().addResourceChangeListener(this);
    }
    /**
     * Creates page 0 of the multi-page editor,
     * which contains a text editor.
     */
    void createPage0() {
        List list = new ArrayList();
        for (Iterator iter = list.iterator(); iter.hasNext()) {
            Object element = (Object) iter.next();
        }
    }
}
```

Problems X Javadoc Declaration

0 errors, 2 warnings, 0 infos

Description	Resource	In Folder
Type safety: The method add(Object) belongs to the raw ...	MultiPageEditor.java	ca.ubc.mylar.sample
The static field Window.OK should be accessed directly	SampleNewWizardPage.java	ca.ubc.mylar.sample.wizards

Outline X

- ca.ubc.mylar.sample.editors
  - import declarations
  - MultiPageEditor
    - editor : TextEditor
    - font : Font
    - text : StyledText
    - MultiPageEditor()
    - createPage0()
    - createPage1()
    - new SelectionAdapter() { ... }
    - createPage2()
    - createPages()
    - dispose()
    - doSave(IProgressMonitor)
    - doSaveAs()
    - gotoMarker(IMarker)
    - init(IEditorSite, IEditorInput)
    - isSaveAsAllowed()
    - pageChange(int)
    - resourceChanged(IResourceChangeEvent)
    - new Runnable() { ... }
    - setFont()
    - sortWords()

Hierarchy X

MultiPageEditor

  - Object
    - WorkbenchPart
      - EditorPart
        - MultiPageEditorPart
        - MultiPageEditor

Java - Figure.java -

File Edit Source Refactor Navigate Search Project Run Window Help

Absolut... Abstrac... Abstrac... Figure.... 67

Outline Hierarchy

Figure

DefaultRangeModel.java DeferredUpdateManager.java DelegatingLayout.java Ellipse.java EllipseAnchor.java EventDispatcher.java EventListenerList.java ExclusionSearch.java FanRouter.java Figure.java FigureCanvas.java FigureListener.java FigureUtilities.java FlowLayout.java FocusBorder.java FocusEvent.java FocusListener.java FocusTraverseManager.java FrameBorder.java FreeformFigure.java Frame.java FrameLayout.java FrameLayoutListener.java FrameLayoutViewport.java Graphics.java GraphicsSource.java GroupBoxBorder.java IFigure.java ImageFigure.java ImageUtilities.java InputEvent.java KeyEvent.java KeyListener.java Label.java LabelAnchor.java LabeledBorder.java

```
/*
 * protected boolean getFlag(int flag) {
 *     return (flags & flag) != 0;
 * }
 *
 * /**
 *  * @see IFigure#getFont()
 * */
public Font getFont() {
    if (font != null)
        return font;
    if (getParent() != null)
        return getParent().getFont();
    return null;
}
/**
```

Problems Search Declaration Javadoc

Information overload

Context loss when multi-tasking

Writable Smart Insert 600 : 20

The screenshot shows the Eclipse IDE interface with the following components:

- Package Explorer:** Shows the project structure with several Java files under `org.eclipse.mylyn.tasks.ui`.
- TasksUiPlugin.java** and **TaskRepositoryLabelProvider.java**: Opened in the editor, displaying Java code for task repository label providers.
- Task List:** A view on the right showing a tree of tasks. The root node is `Mylyn`, which has children like `manage Google Summer of Code 2007` and `send BZ Media Webinar announcement`. Below that is a folder `Mylyn - All Mine [Eclipse]` containing tasks such as `162335: Allow "Make Landmark" to v...`, `196021: Auto-synchronize should be`, and `195580: [api] AbstractInterestManipu...`. Another folder `Mylyn - Eugene [Eclipse]` contains `195111: TaskRepositoryLabelProv...`.
- Synchron:** A button in the Task List view.
- Search:** A button in the Task List view.
- Error Log:** A button in the Task List view.

*With Mylyn*

Tasks are integrated

See only what you are working on

# Installation Frenzy!!

- [http:// www.eclipse.org/downloads/](http://www.eclipse.org/downloads/)

- JEE
- Java
- C/C++

- **Mylyn Update Sites**

- Release
  - For Eclipse 3.4: download.eclipse.org/tools/mylyn/update/e3.4
  - For Eclipse 3.3: download.eclipse.org/tools/mylyn/update/e3.3
  - Extras (JIRA, Trac): download.eclipse.org/tools/mylyn/update/extras
- Weekly
  - Eclipse 3.5M: download.eclipse.org/tools/mylyn/update/weekly/e3.4

- Trouble Installing? Ask!

Eclipse Packages

Ganymede Packages (based on Eclipse 3.4.2) - Compare Packages

**Eclipse IDE for Java EE Developers (162 MB)**  
Tools for Java developers creating JEE and Web applications, including a Java IDE, tools for JEE and JSF, Mylyn and others. [More...](#)  
Downloads: 356,094

**Eclipse IDE for Java Developers (84 MB)**  
The essential tools for any Java developer, including a Java IDE, a CVS client, XML Editor and Mylyn. [More...](#)  
Downloads: 200,128

**Eclipse IDE for C/C++ Developers (67 MB)**  
An IDE for C/C++ developers with Mylyn integration. [More...](#)  
Downloads: 84,724

All done? Create an account at: <http://mylyn.eclipse.org/econ>

# Externalize, Prioritize, Schedule

## Before Mylyn

- ⚠ Tasks scattered throughout web apps, code and pieces of paper
- ⚠ No integration with IDE workflow

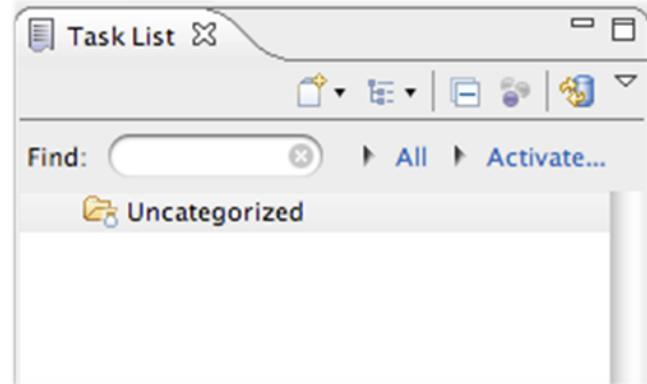
## With Mylyn

- One view over all your tasks, centrally managed
- Rich editing, searching, and linking
- Externalize, prioritize and schedule without leaving the IDE

# Task List

- Open the **Task List**
  - *Window > Show View > Other > Tasks > Task List*
  - **OR** – reset your Java perspective

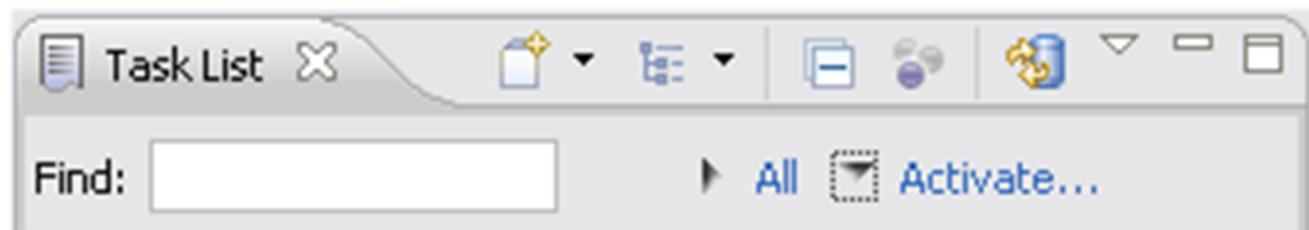
Welcome to the Mylyn Task List!



# Task List Actions

## Toolbar (left to right)

- New Task dropdown
- Presentation Switcher
- Collapse all
- Focus on Workweek
- Synchronize Repositories



- Find: field
- Task Working Set dropdown
- Task History dropdown

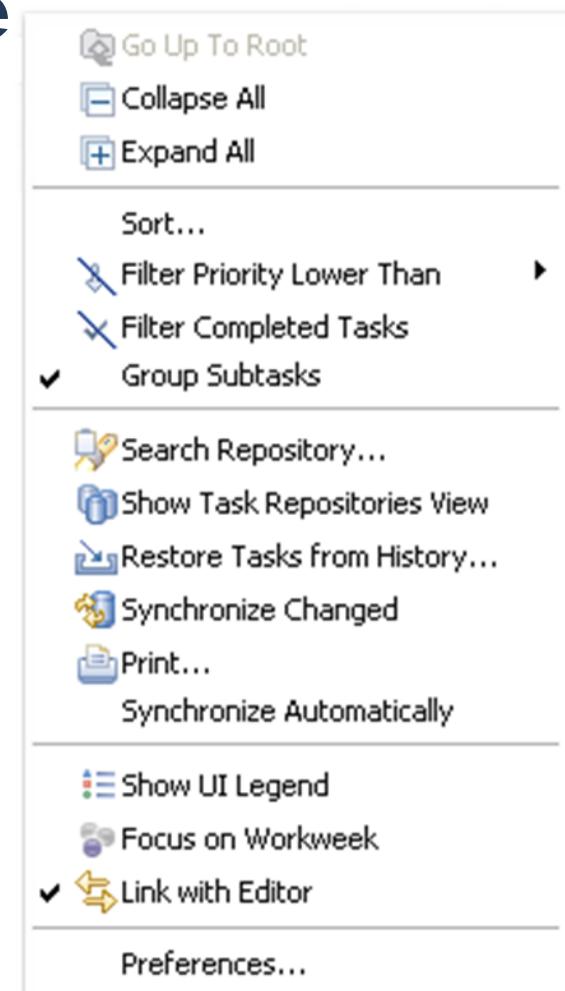
# Task List Actions

## View menu actions of note

- Sort...
- Filter Priority
- Filter Completed Tasks
- Show UI Legend

## Tips for Small Screens

- Task List as FastView
- Open Task Dialog (Ctrl+Alt+12)



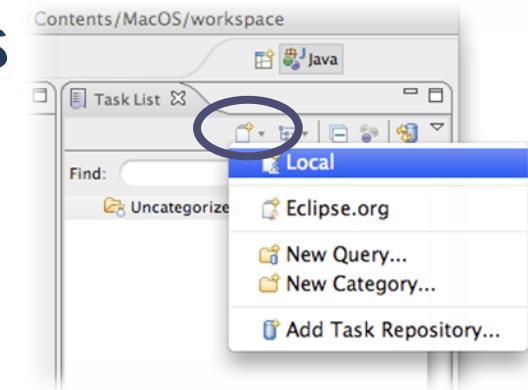
# Local Tasks



## Try it! – Create 3 new Local Tasks

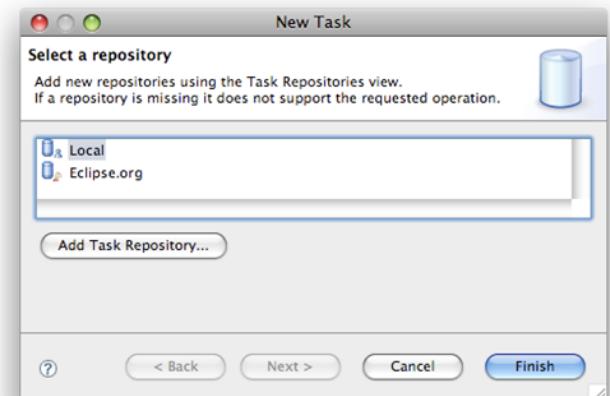
### 1. Press the New Task Button/Wizard

- Press for New Task wizard
- Click drop-down for quick pick
- Or right click in Task List > New > Local Task



### 2. Select 'Local' to create a new Local Task

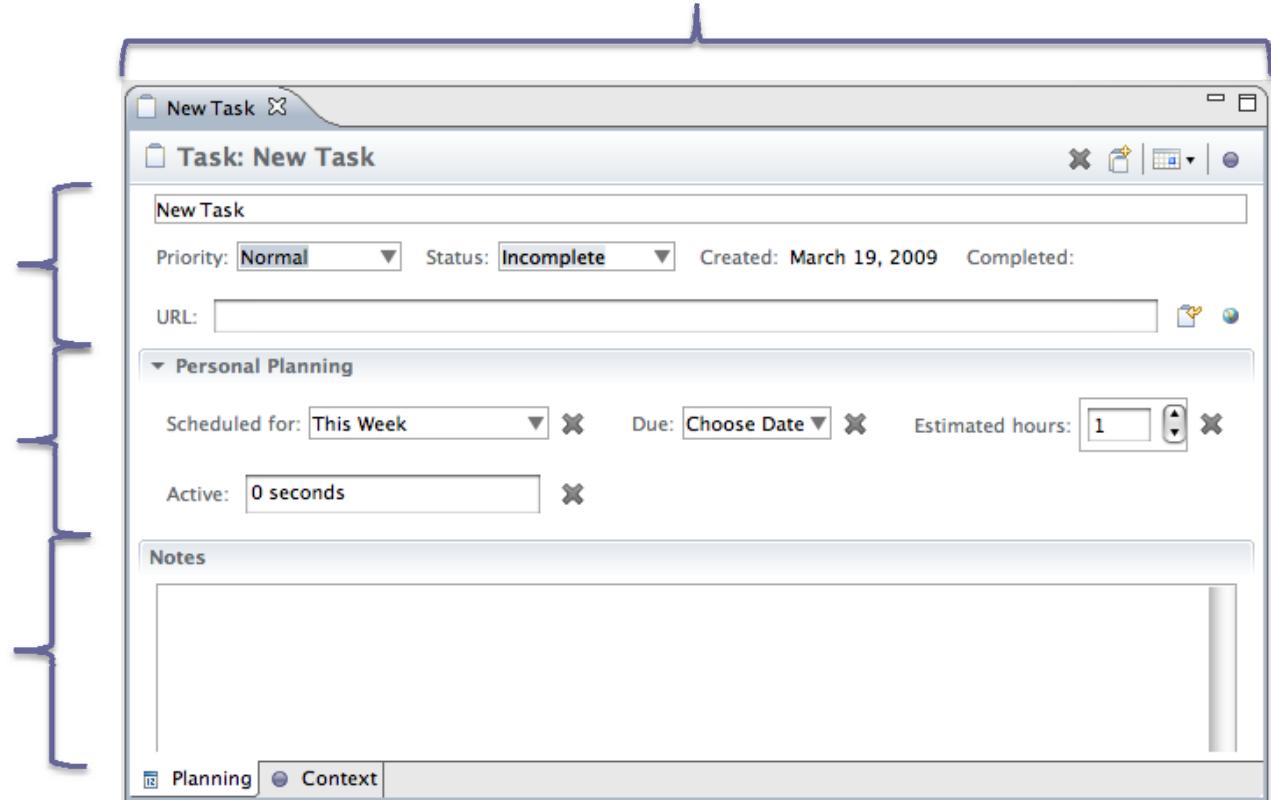
- By default tasks are created in the ***Uncategorized*** folder
- New tasks will be created in the category selected in the Task List



**Local Tasks:** personal, private tasks that don't generally require collaborative activity

# Local Task Editor

- Toolbar
- Header
- Planning
- Notes



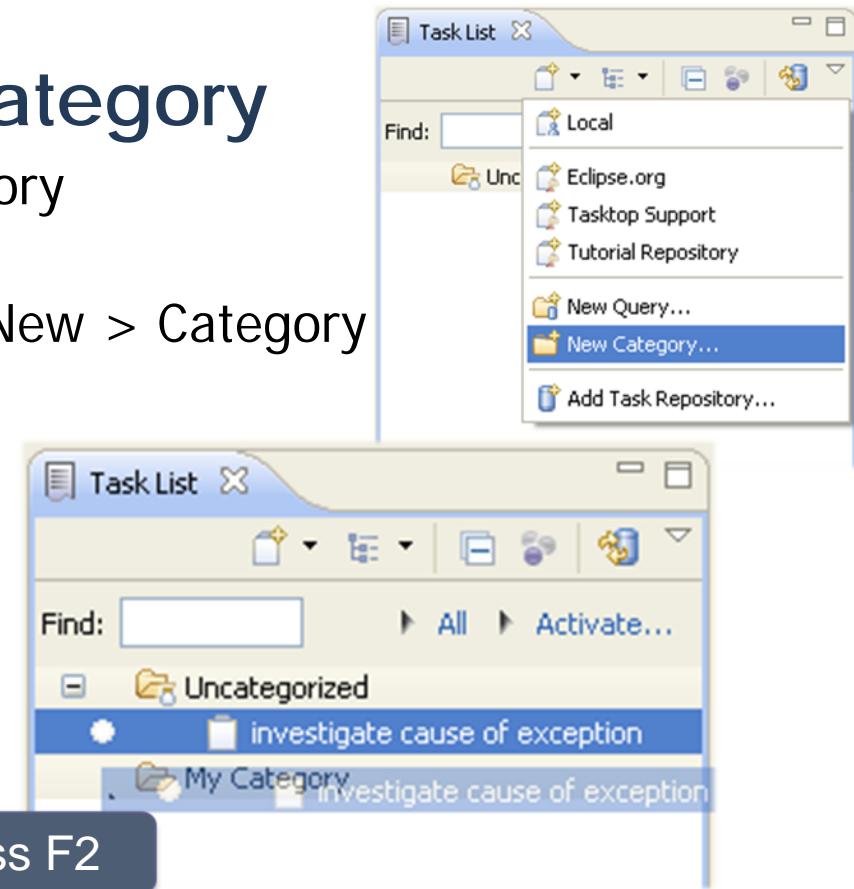
# Task Categories



Use Task Categories to organize your Task List

## Try it! - Create a new Category

1. New Task Drop down > Category
2. OR - right click in Task List > New > Category
3. Drag and drop your previously created tasks into this new category



**Rename Category:** Select category and press F2

# Focused Workweek



## With Mylyn

- ⚠ Too many tasks end up in your Task List

## Personal planning

- Not everything will get done Monday morning, schedule/defer others
- Mesh with team planning activities

## Focused workweek

- See only the tasks you need to work on

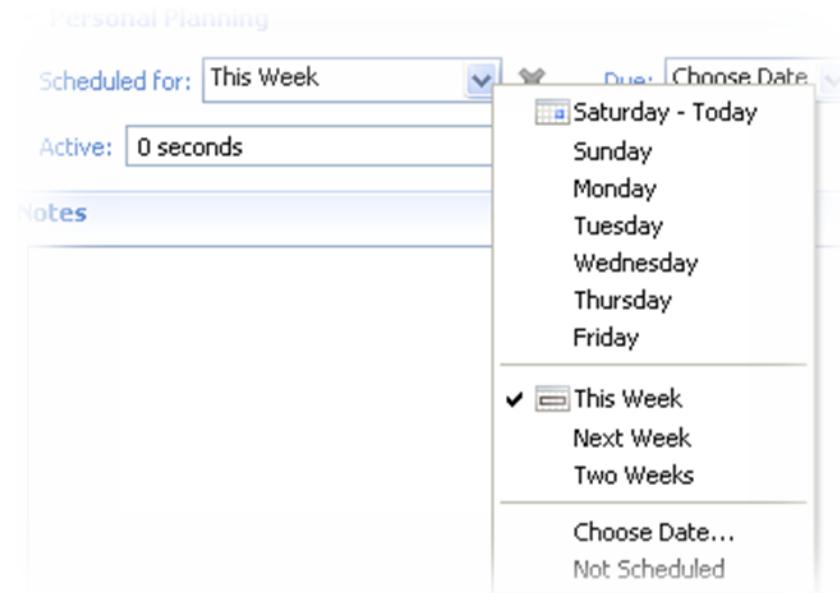
## Working sets

- Discussed later

# Scheduling Tasks

## Schedule tasks via

- Editor Planning Tab
- Editor toolbar
  - Click for Today
- Task List popup menu



## Schedule for menu

- Today + 6 days into future
- 'Someday' This Week, Next Week, Two Weeks
- Choose Date... for date picker

## Scheduled dates 'float'

- Tasks scheduled for tomorrow that don't get completed will accumulate in Today's bin
- Monday morning, re-evaluate, and re-schedule

# Due Tasks

Set the due date on a task in the Planning section of the task editor



- Not 'floating', remain fixed
- Appear red in Task List when overdue



- Synced to repository (if supported)

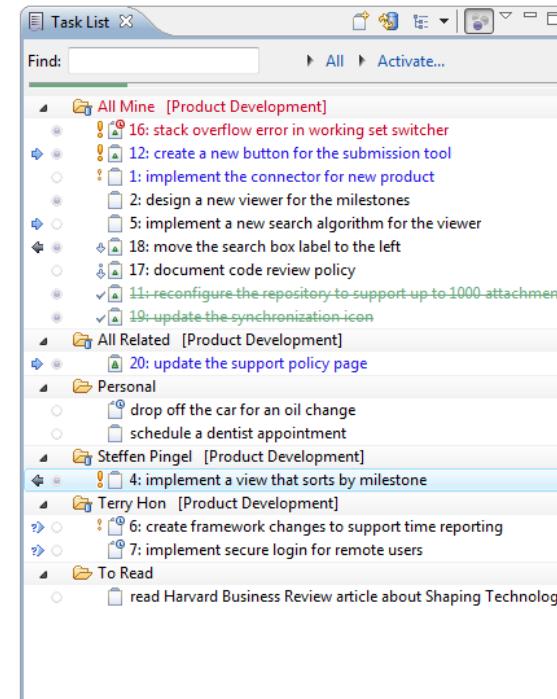
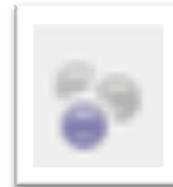
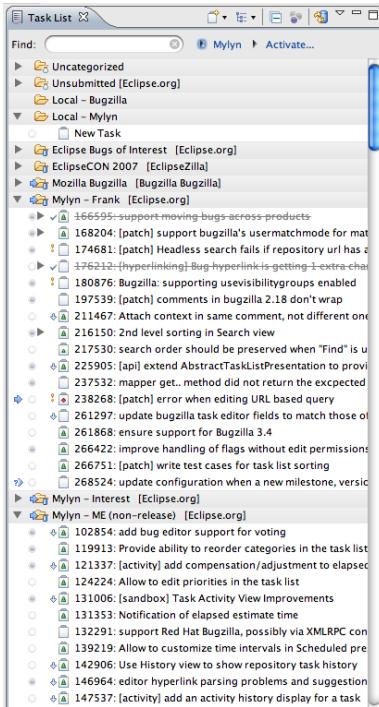
# Focused Workweek



## Focus on Workweek



- Scheduled, overdue, incoming/outgoing, completed today. Can't see a task? Use Find: field

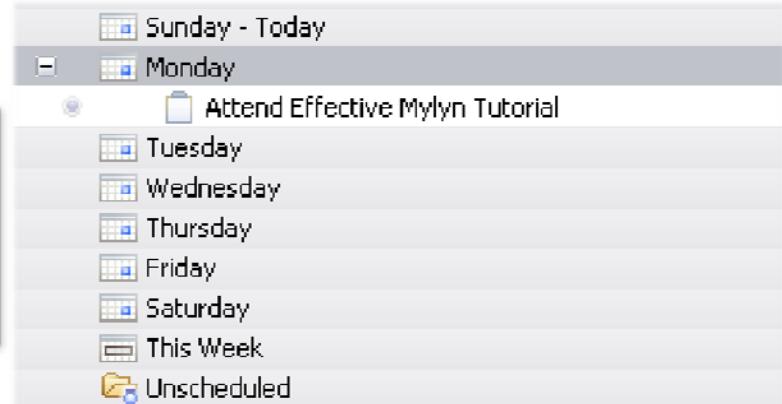
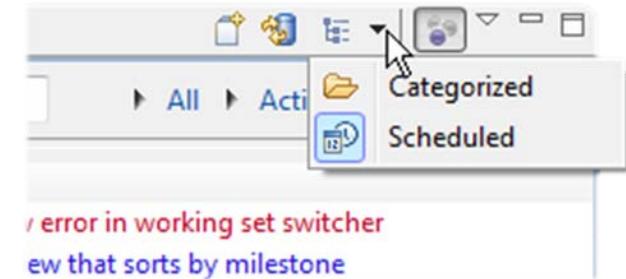
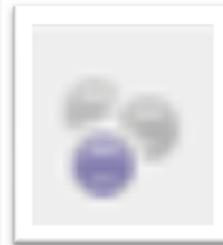
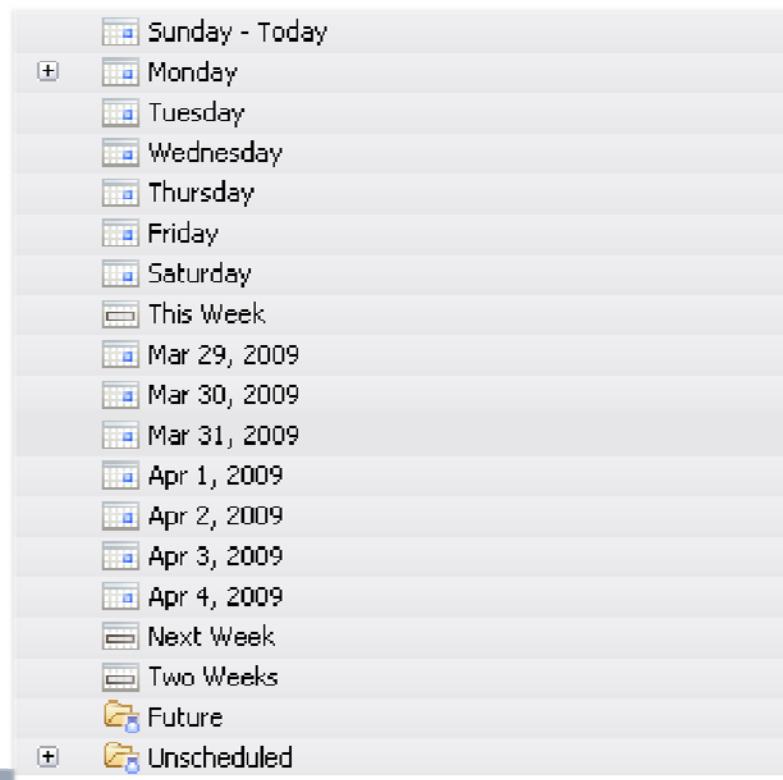


# Focused Workweek



## Scheduled Presentation

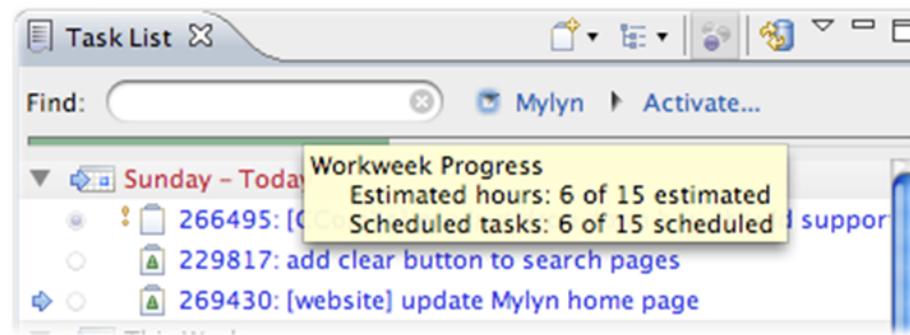
- Focused / Unfocused
- Drag and drop scheduling



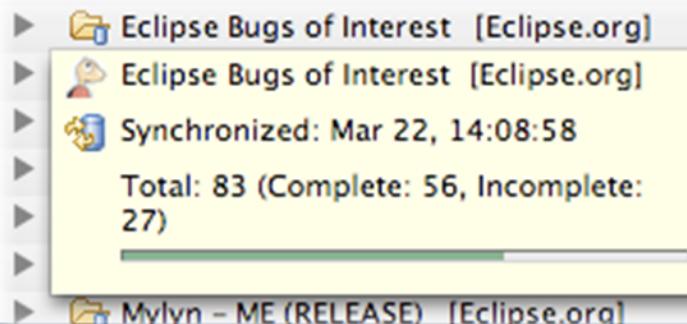
# Focused Workweek

## Progress Bars

- Task progress bars appear in the Task List view when focused



- Progress bar also available in tooltip

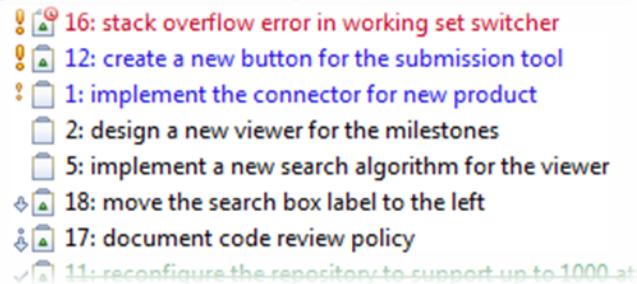


# Focused Workweek



## Try it!

1. Use one of the scheduling mechanisms you've learned about to schedule a number of tasks
2. One for **Today, Wednesday, This Week, and Next Week**
3. Press the *Focus on Workweek* Task List toolbar button
4. Note that only tasks scheduled for the current week, overdue or completed today are visible



5. Switch to the Scheduled Presentation
6. Drag the task scheduled for Today to Friday



# No Developer is an Island

## Connecting your Team

# Task Repository (Bugzilla, JIRA, Trac...)

## Pros:

- Record of work to be completed (bug/enhancement)
- Threaded conversation related to bug
- Hub of collaboration (attachments, patches, etc)
- Some planning facilities (Due, Priority)

## Cons:

- Takes developer out of IDE (often to your browser)
- No offline support
- Email inbox full of illegible change notifications
- Work artifacts (code) loosely associated through patches

# Mylyn Repository Connectors

## Bring your bugs into Eclipse

- Communicate and Collaborate natively within your IDE
- Bugzilla, JIRA, Trac,... all become tasks in the Task List
- Rich editing, searching
- Change notification in the Task List where it should be
- Closes the gap: committed code linked to bug

## Is my repository supported?

- <http://wiki.eclipse.org/Mylyn/Extensions>
- Ecosystem of Mylyn integrators growing

## Two steps to repository tasks in the Task List

- Add Task Repository
- Create queries to bring in desired tasks

# Add a Task Repository



## Lets add a Task Repository

1. Task List view menu drop down > Show Task Repositories View
2. Click Add Task Repository button
3. Select **Bugzilla** Repository Type and press Next
4. Enter Server details
  1. Server: <http://mylyn.eclipse.org/econ>
  2. Label: Tutorial Repository
  3. User ID: econ@econ.com
  4. Password: econ (check Save Password)
5. Validate
6. Finish

**Asked to create a Query... Yes please!**

# Define Queries



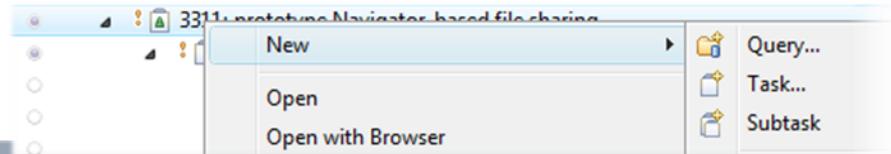
Queries are 'active'. They will periodically refresh, updating existing tasks in your Task List and bring in new tasks that match the query.

## Best Practices

- All tasks assigned to you
- All tasks not assigned to you but that you're interested in
- Colleagues

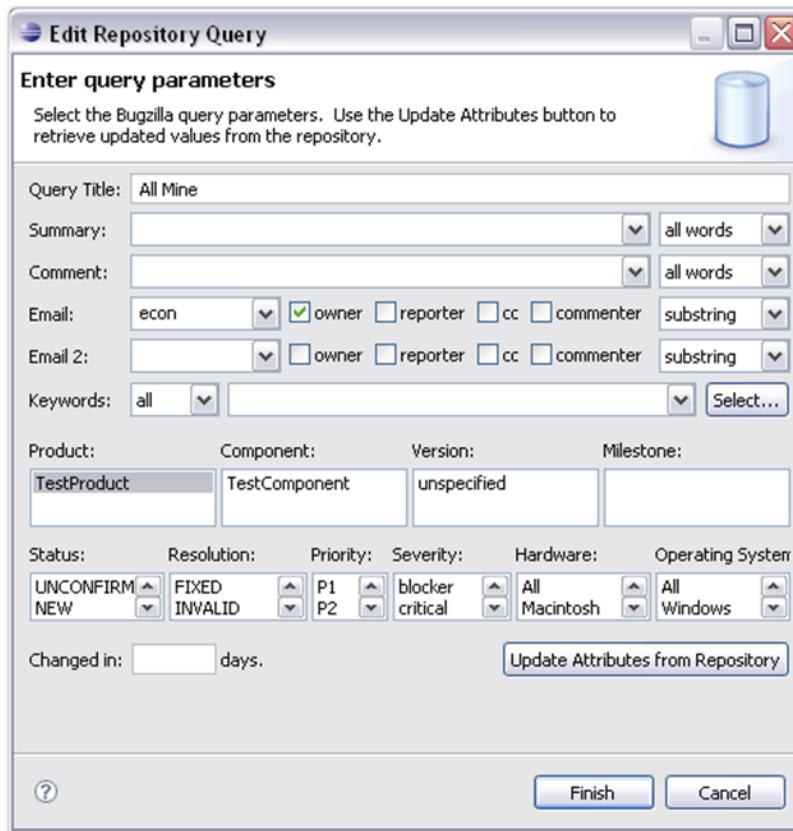
## Try it! - To Create a new Query:

- New Task drop down > New Query
- **OR** Right click in Task List > New > Query...

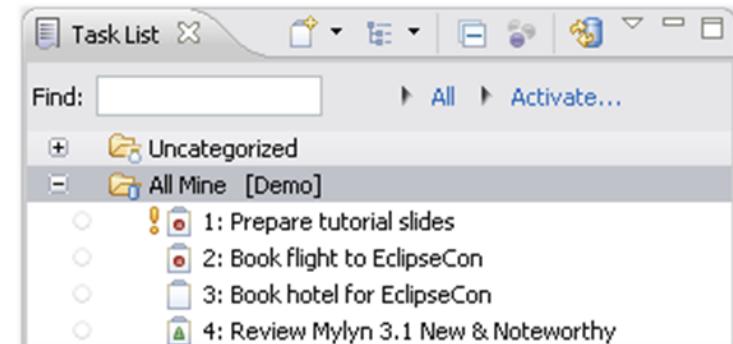


# Define Queries

Each Repository Connector kind will have differing yet very similar query parameters

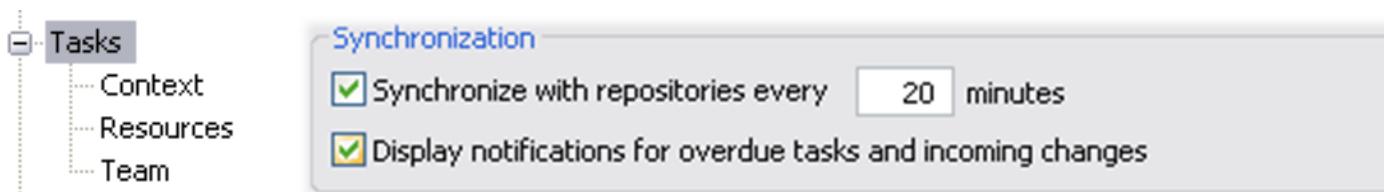


- Upon pressing Finish, the query will appear in your Task List
- Tasks are retrieved from the repository - synchronization



# Synchronize

- Queries are synchronized (updated) on an adjustable schedule from Window > Preferences > Tasks



- Task summary turns *italic* during synchronization

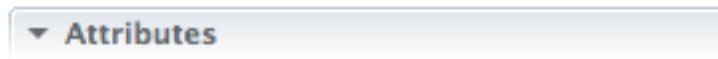
3778: handle case when uploading fails and returns error  
3817: Hanging when working with attachments on the Mac

- Select and press F5 to manually synchronize tasks queries
- New Incoming Tasks (disable email notifications!)

- ! 1: implement the connector for new product
- ! 12: create a new button for the submission tool
- ? ○ ! 15: create documentation for the tasktop.timereports package
- ⊕ ○ ! 2: design a new viewer for the milestones
- ! 5: implement a new search algorithm for the viewer
- ⊕ ○ ! 11: reconfigure the repository to support up to 1000 attachments/task

# Synchronize

- Open task to see new incoming changes



- Mark tasks as Read/Unread



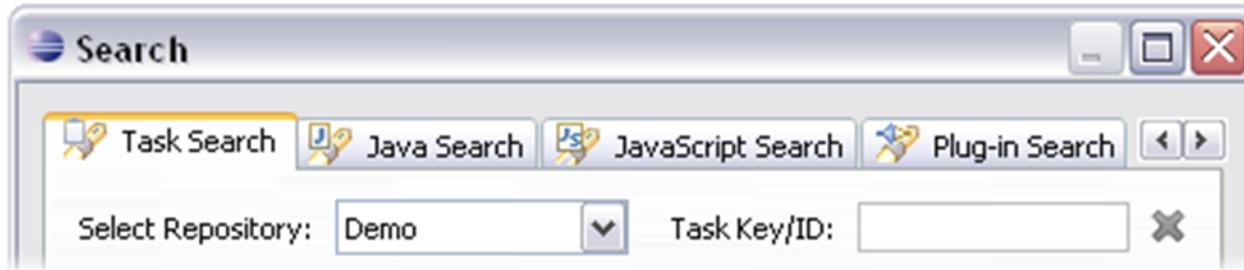
- Hover to see changes in tooltip
  - Press *Alt+Down* to move to next unread task
  - Press *Alt+Shift+Down* to mark as read and move to next



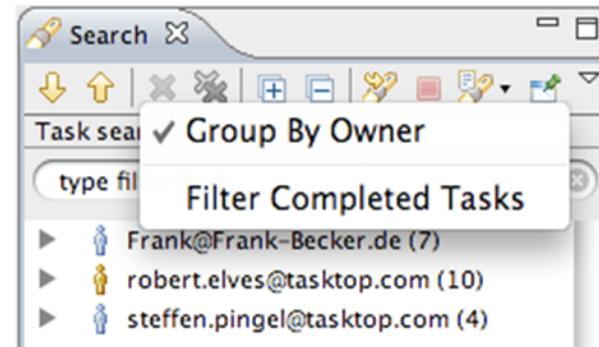
- Unmatched Folders

# Search

- Search without polluting your Task List
- Search > Search... (Ctrl+H)



- Group results by Owner (gold person is you)
- Filter completed
- Add to Category





You've got Tasks!

Now what to do with them?

# Repository Tasks

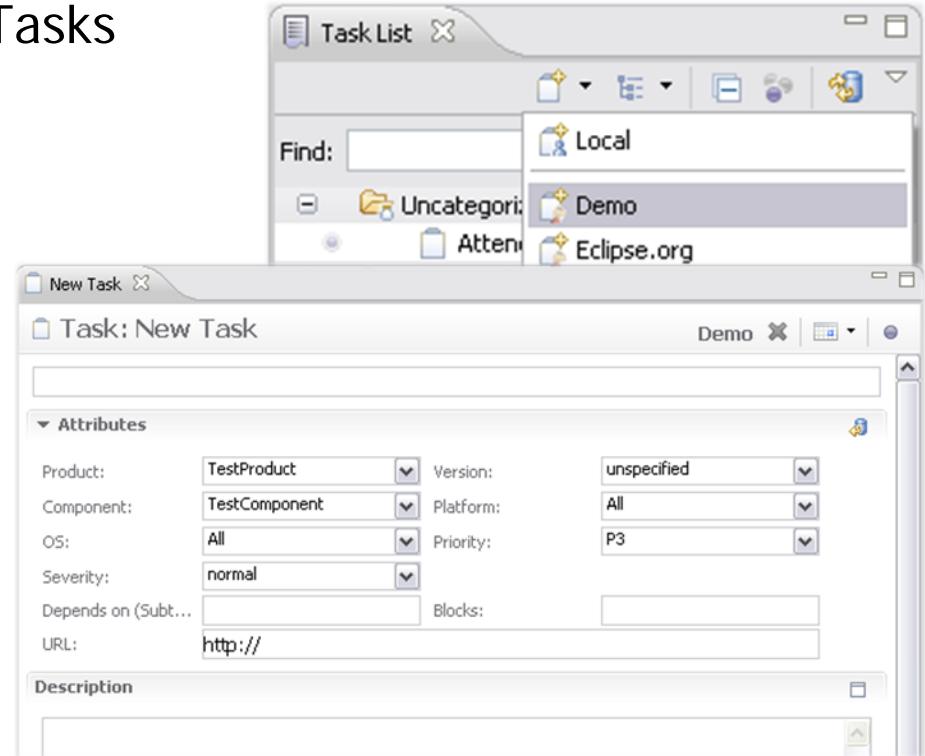
## Overview

- **Integrated** into your IDE
- Catch up and follow up **offline**
  - Content cached locally
  - Offline editing (@ 30,000ft and submit when back you land)
  - Create new bugs offline and/or submit later
- Fast open (no waiting for round trip to server)
- **Incoming changes** highlighted (no illegible change email)
- **Rich editing** features you've come to expect
  - Spell checking
  - Hyperlink to bugs and code
  - Wiki formatting (even if repository support)

# Submitting New Tasks



- Just like creating new Local Tasks
- Pick your repository
- Complete necessary fields
  - Summary
  - Product
  - Component
  - Description
- Submit (bottom of editor)
- **Unsubmitted Folder**



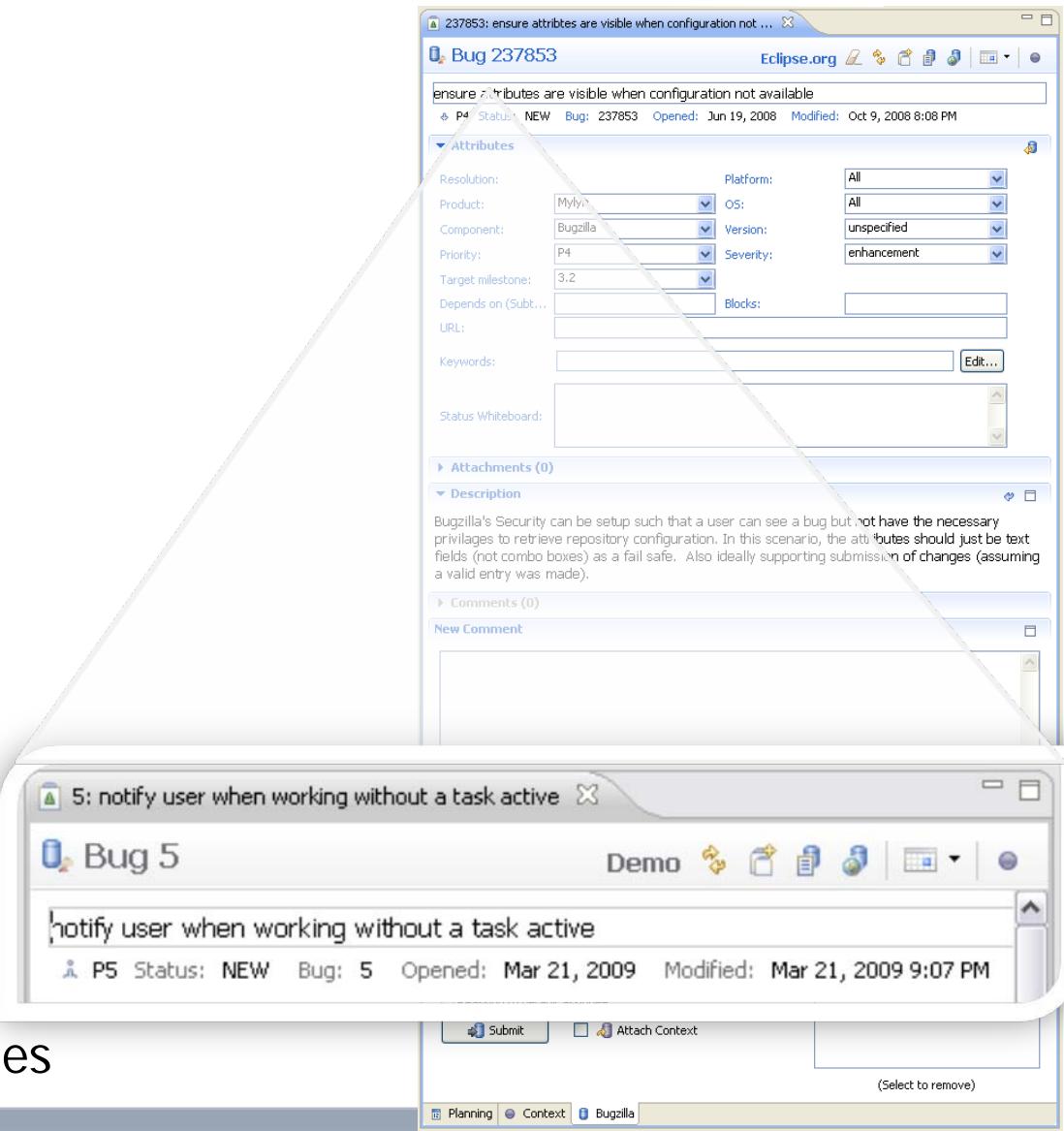
## Try it!

- Submit a new bug now with a unique summary (your name)
- You will use this bug to complete the remainder of this tutorial
- Upon submitting, the task becomes a Repository Task, lets take a closer look...

# Repository Tasks

## Header

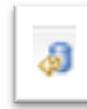
- Bug ID
- Repository Label
- Toolbar
  - Clear outgoing changes
  - Synchronize
  - New Subtask
  - Change history
  - View on web
  - Schedule Dropdown
  - Active Task
- Summary
- Priority
- Status
- ID
- Opened, Modified Dates



# Repository Tasks

## Attributes

- Change priority, severity
- Depends On (Subtasks)
- Blocks (Parent Tasks)
- Update Attributes



The screenshot shows the Eclipse.org Bugzilla interface for bug 237853. The main window displays the bug details, including its status (NEW), product (Mylyn), component (Bugzilla), priority (P4), target milestone (3.2), and severity (enhancement). The 'Attributes' section is expanded, showing fields for Resolution, Product, Component, Priority, Target Milestone, Depends on (Subtasks), URL, Keywords, Platform, OS, Version, Severity, and Blocks. Below the attributes, there are sections for 'Attachments (0)', 'Description', 'Comments (0)', and a 'New Comment' input field. A smaller, semi-transparent window in the foreground also shows the 'Attributes' section for a different bug, bug 237853, with similar fields and values.

# Repository Tasks

## Description & Comments

- Comments folded when many exist
- Expand/Collapse All

**Description**

If usermatchmode is on and you assign the bug to somebody else by putting only part of the username in the assignee field a window pops up asking for a confirmation of the possible found users. hitting the confirm button will result in a "File Not Found":

"The file /process\_bug.cgi cannot be found. Please check the location and try again."

**Comments (20)**

Recent (16)

- + 17: Robert Elves, Nov 19, 2008 12:45 AM
- + 18: Steffen Pingel, Nov 19, 2008 1:22 PM
- 19: Frank Becker, Dec 10, 2008 4:21 PM  Created an attachment (id=120122) possible patch for 3.0 editor  
please review this implementation
- 20: Frank Becker, Dec 10, 2008 4:21 PM  Created an attachment (id=120123) mylyn/context/zip

**Bug 237853**

ensure attributes are visible when configuration not available

P4 Status: NEW Bug: 237853 Opened: Jun 19, 2008 Modified: Oct 9, 2008

**Attributes**

Resolution:	Platform:	All
Product:	OS:	All
Component:	Version:	unspecified
Priority:	Severity:	enhancement
Target milestone:	Blocks:	
Depends on (Subt...)		
URL:		
Keywords:		
Status Whiteboard:		

**Attachments (0)**

**Description**

Bugzilla's Security can be setup such that a user can see a bug but not have the necessary privileges to retrieve repository configuration. In this scenario, the attributes should just be text fields (not combo boxes) as a fail safe. Also ideally supporting submission of changes (assuming a valid entry was made).

**Comments (0)**

New Comment

**Actions**

- Leave as NEW
- Accept (change status to ASSIGNED)
- Resolve as FIXED
- Duplicate of
- Reassign to
- Reassign to default assignee

**People**

Assigned to: Robert Elves <robert.elves@tasktop.com  
Reporter: Robert Elves <robert.elves@tasktop.com  
QA Contact:  
Add CC:  
CC:  
(Select to remove)

**Planning** **Context** **Bugzilla**

# Repository Tasks

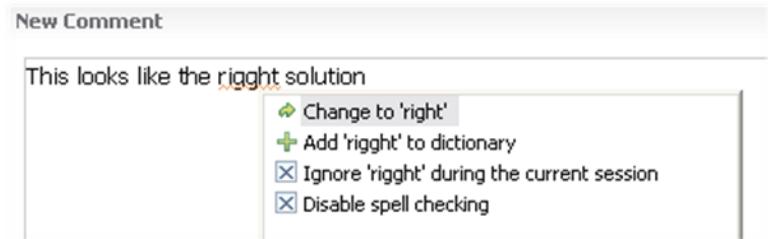
## Comment Dropdown

- Reply Comment
- Copy User ID (email) to clipboard



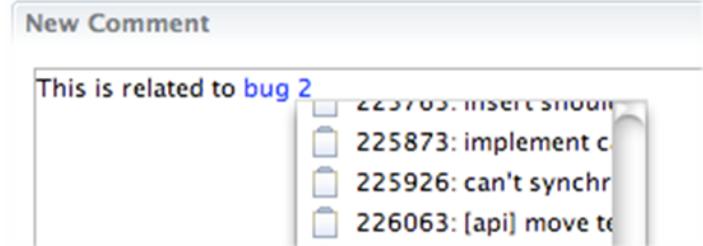
## Spell Checking

- Ctrl+1 for list of suggestions



## Bug/Task Content Assist

- task 12...Ctrl+Space



**Mylyn Sandbox:** Type: “java class BugzillaClient” into a new comment and it will become hyperlinked to the actual source code.

# Repository Tasks



## People

- Comma separated
- Content assist

## Actions

- Repository specific
- Attach Context
- Submit

## Try It!

1. Make changes to Attributes, comment
2. Save (Ctrl+S or toolbar save button)
3. Note the outgoing arrow in Task List
4. Press Submit, Changes submitted!
5. Sync to see others' incoming

The screenshot shows the Tasktop interface for managing repository tasks. At the top, there's a toolbar with buttons for 'Planning', 'Context', and 'Bugzilla'. Below the toolbar, the 'Actions' panel contains several options: 'Leave as NEW' (selected), 'Accept (change status to ASSIGNED)', 'Resolve as' (set to 'FIXED'), 'Duplicate of' (empty), 'Reassign to' (empty), and 'Reassign to default assignee'. There are also 'Submit' and 'Attach Context' buttons. To the right of the actions is the 'People' panel, which includes fields for 'Assigned to' (Robert Elves), 'Reporter' (Robert Elves), 'QA Contact' (empty), and 'Add CC:' (empty). A large callout box highlights the 'Add CC:' field, which is currently displaying a list of email addresses: c.reynolds@abm-uk.com, mik.kersten@eclipse.org, adrian.colyer@gmail.com, AJDT-inbox@eclipse.org, alex\_blewitt@yahoo.com, alexander.gurov@polarion.org, and andrew.clement@gmail.com. Below this list are 'Add CC:' and 'CC:' input fields.

# WikiText – for wikid looking comments!

## Comment in

- Confluence
- MediaWiki
- Textile (default)
- Trac
- Twiki

The screenshot shows two windows demonstrating the Tasktop IDE's WikiText content assist feature.

**Top Window:** A "Description" dialog box titled "h1. Styled text". It contains the following text:  
\* Press \*F1\* to see a WikiText \_cheat sheet\_  
\* You can also use content assist to insert WikiText syntax or task ID  
**h2. Quotes and Code Blocks**  
**bc.** Code block  
**bq.** Quote block

**Bottom Window:** A "Description" dialog box titled "Styled text". It contains the following text:  
• Press F1 to see a WikiText cheat sheet  
• You can also use content assist to insert WikiText syntax or task ID  
**Quotes and Code Blocks**  
**Code block**  
**Quote block**  
**Bullet and Numbered Lists**  

- First Item
  - First Nested Item
- # First Item
  - ## First Nested Item

A tooltip on the right side of the bottom window lists the following WikiText syntax:  
# – List (numeric)  
## – List (level 2, numeric)  
\* – List (bulleted)  
\*\* – List (level 2, bulleted)  
[ – [1] footnote reference  
| – Table  
|\_ – Table heading  
{toc} – Table of contents

**Stack Trace**  
java.lang.NullPointerException  
at com.tasktop.calendar.ui.jobs.NextEventTrimUpdateJob  
\$1.done(NextEventTrimUpdateJob.java:61)  
at org.eclipse.core.internal.jobs.JobListeners\$3.notify(JobListeners.java:39)

## Preview before submit

Right+Click existing comment  
Click "View Unformatted Text"  
to see plain text version.

# WikiText



## Try it!

1. Configure your Task Repository's WikiText dialect
2. Enter WikiText (note how text emulates wiki appearance)
3. Content assist for help with syntax
4. Press preview button to see how actual rendering
5. After submitting, see comment
6. Right click > View Unformatted Text to see plaintext version
7. Sync up and see incoming changes (F5 on task or query)

Description

**h1. Styled text**

\* Press \*F1\* to see a WikiText \_cheat sheet\_  
\* You can also use content assist to insert WikiText syntax or task ID

**h2. Quotes and Code Blocks**

**bc.** Code block  
**bq.** Quote block

**h3. Bullet and Numbered Lists**

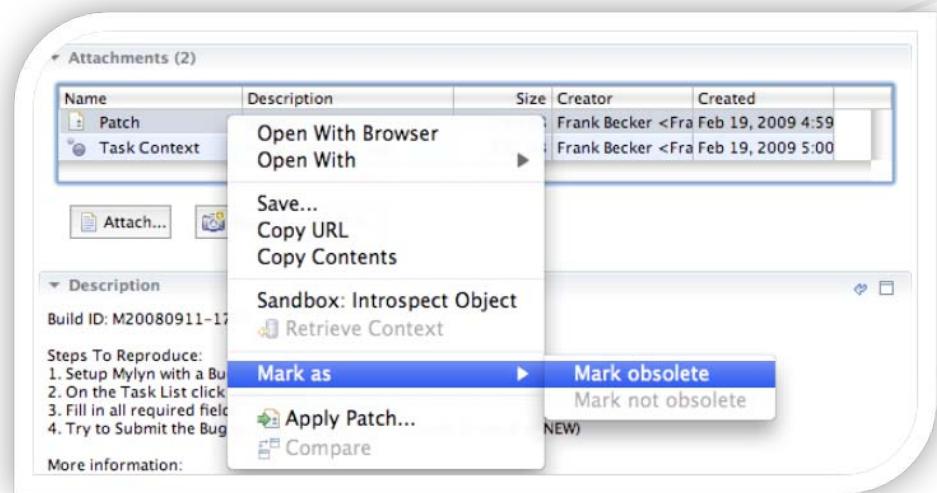
\* First Item  
\*\* First Nested Item  
  
# First Item  
## First Nested Item

# – List (numeric)  
## – List (level 2, numeric)  
\* – List (bulleted)  
\*\* – List (level 2, bulleted)  
[ – [1] footnote reference  
| – Table  
|\_ – Table heading  
{toc} – Table of contents  
{glossary} – Glossary  
174: Rob's task

# Attachments

## Collaborate Efficiently

- Attach screenshots
- Incoming attachments highlighted
- Patches & Contexts (later)



A screenshot of the Eclipse.org Bugzilla bug details page for bug 237853. The page shows the following information:

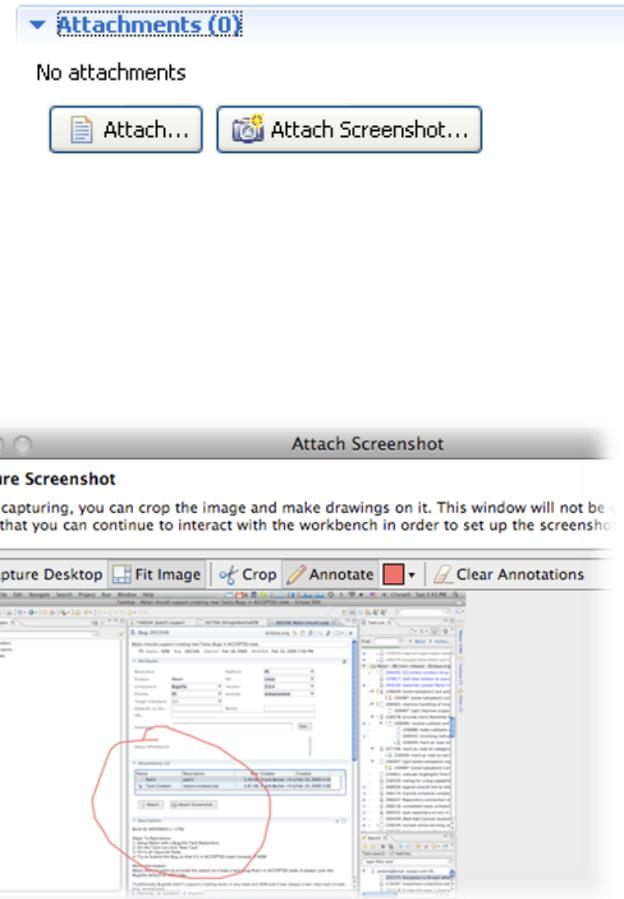
- Attributes:** Resolution: All, Product: Mylyn, Component: Bugzilla, Priority: P4, Target milestone: 3.2, Depends on (Subt...), URL:, Keywords:, Status Whiteboard:.
- Attachments (0):** No attachments are listed.
- Description:** Bugzilla's Security can be setup such that a user can see a bug but not have the necessary privileges to retrieve repository configuration. In this scenario, the attributes should just be text fields (not combo boxes) as a fail safe. Also ideally supporting submission of changes (assuming a valid entry was made).
- Comments (0):** No comments are listed.
- Actions:** Radio buttons for: Leave as NEW (selected), Accept (change status to ASSIGNED), Resolve as: FIXED, Duplicate of: (empty), Reassign to: (empty), Reassign to default assignee.
- People:** Assigned to: Robert Elves <robert.elves@tasktop.com>, Reporter: Robert Elves <robert.elves@tasktop.com>, QA Contact: (empty), Add CC: (empty), CC: (empty). A note at the bottom says "(Select to remove)".
- Buttons:** Submit, Attach Context.

# Attachments: Screenshots



## Try it!

1. Open your task
2. Expand the Attachments section
3. Press “Attach Screenshot...” to open the Attach Screenshot wizard
4. Press the “Capture Desktop”
5. Drag a rectangle to crop
6. Annotate, Clear Annotations, Annotate again
7. Press “Next” to comment, preview, submit
8. Everyone, synchronize your queries. See what others have posted.



# Task Working Sets

I'm using Mylyn...

⚠ My Task List has too many tasks!

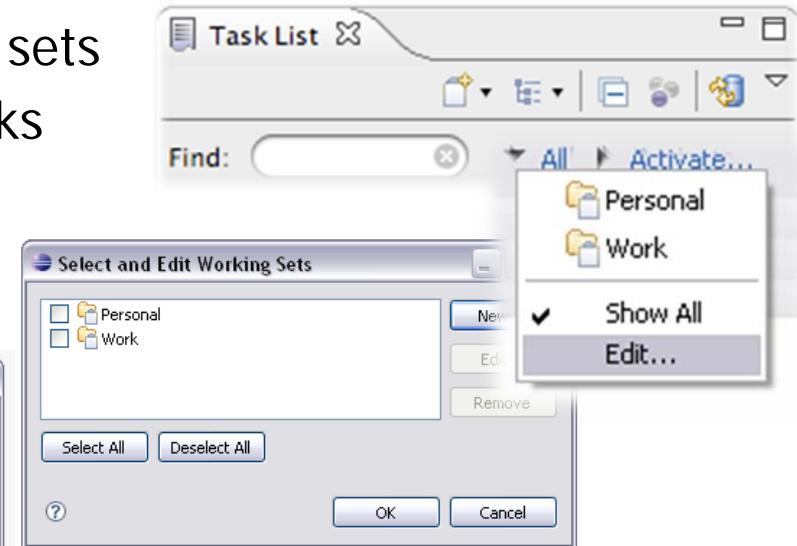
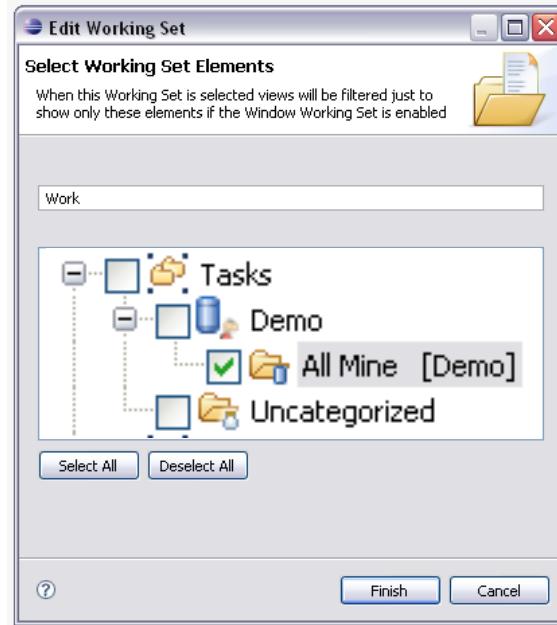
## Solution

- Use Mylyn's Task Working sets to organize Task List by role (i.e. Work, Personal )

# Task Working Sets

## Task Working Set Switcher

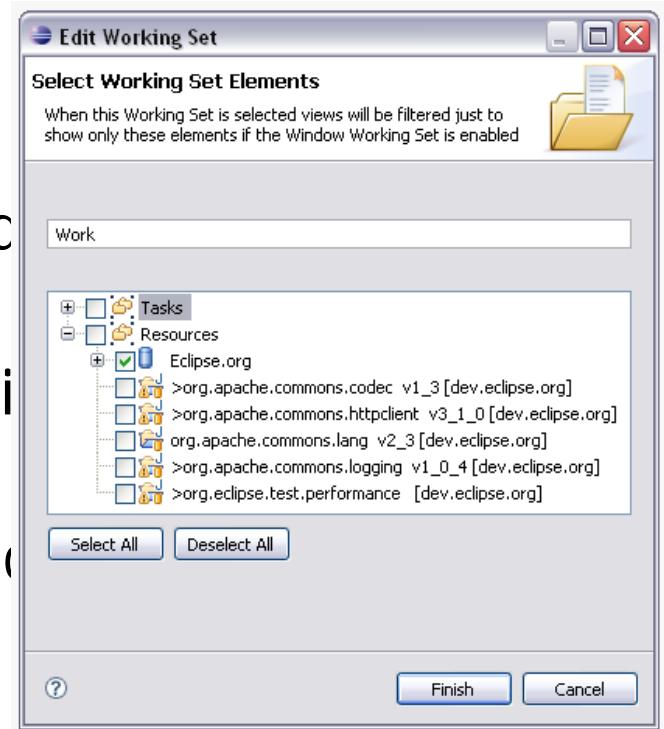
- Select “Edit” to create new working sets
- Select a working set to only see tasks and resources of that working set



# Task Working Sets

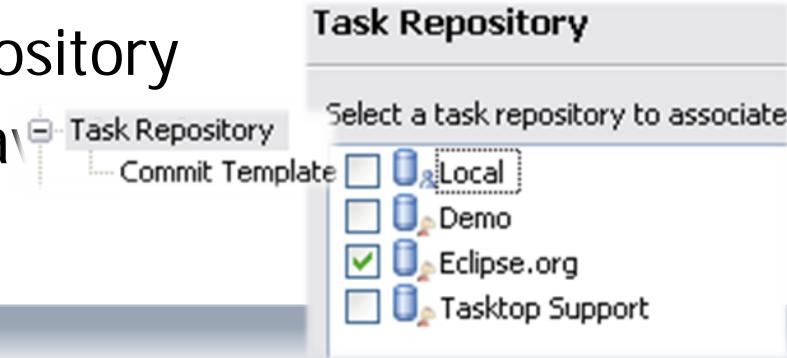
## Not just for your Task List!

- Scope Package Explorer to selected projects
- Select projects and repositories to include in the working set
- Speeds searches for large workspaces



## Map Project to Repository

- Project properties > Task Repository
- Associate repository to make available in working set dialog



# Task Working Sets



## Try it!

1. Set up an EclipseCon working set that contains the econ repository tasks and one or two projects from your workspace
2. Enable/Disable the working set
3. Note how the contents of both the Task List and Package Explorer change

**Break  
20min**



**Code at the Speed of Thought**

**activation, context, focus, and more**

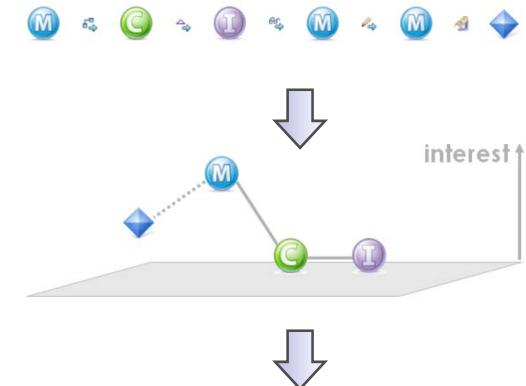
# Task-focused UI

## Information overload

- ⌚ Time wasted scrolling, browsing and searching, filtering
- ⌚ Constant multi-tasking causes context loss

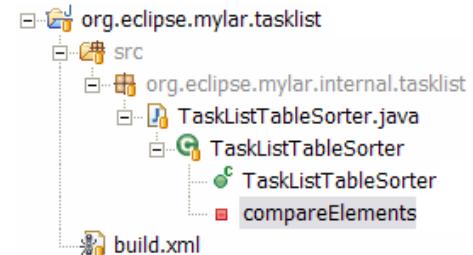
## Task context

- Mylyn monitors your interaction
- Creates degree-of-interest model
- Context is obvious and managed
- Tracks time spent on task



## Task-focused UI

- View filtering, element decoration
- Automatic folding, content assist ranking
- Editor and perspective management
- One-click task switching



# Task Activation & Filtering

## *DEMONSTRATION*

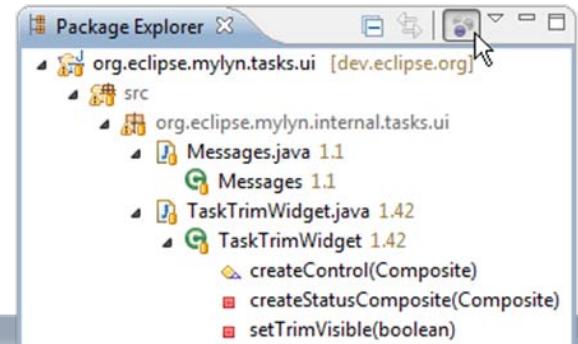
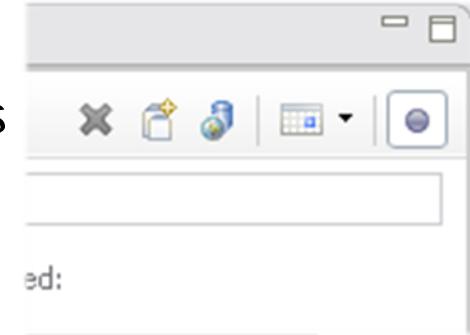
*(watch to get the 'idea', then we'll help guide you through it)*

# Task Activation & Filtering



## Try it!

1. Schedule a task for Today
2. Activate the task using either the Task Editor's activate button or clicking in the Task List
3. Open the Task's editor (if not already open) and note the time spent on task
4. Update the estimate field if desired
  
5. Note that Package Explorer is vacant of any source artifacts
6. No need to panic, the code is all *uninteresting* and thus not visible
7. Unfocus the package Explorer using the focus filter button
8. Click on one or two files then re-apply the filter to see just these files in the navigator

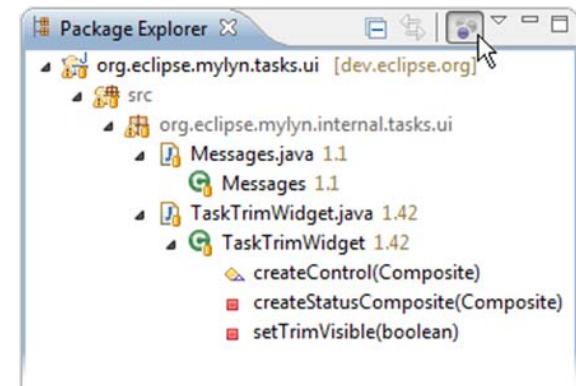


Continued...

# Task Activation & Filtering



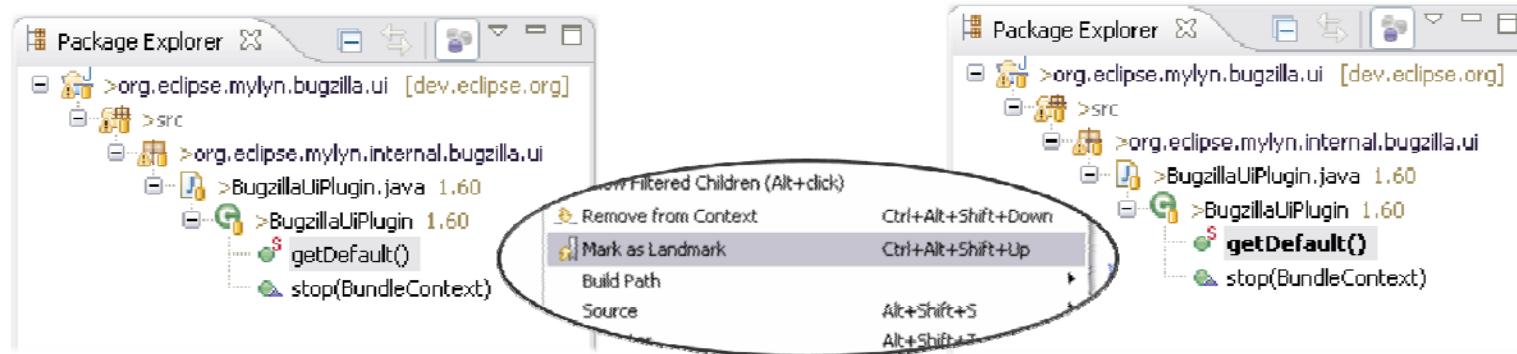
9. With the focus filter now on, Alt+Click in some empty space within the Package Explorer to temporarily expose all resources. Keep holding down Alt and click on a few files you haven't clicked yet then release Alt key.
10. Note that the new items are now visible in the Package Explorer since they are now part of your Task Context.
11. Press and hold the Alt key again and click on a Class to dig deeper, exposing fields and methods



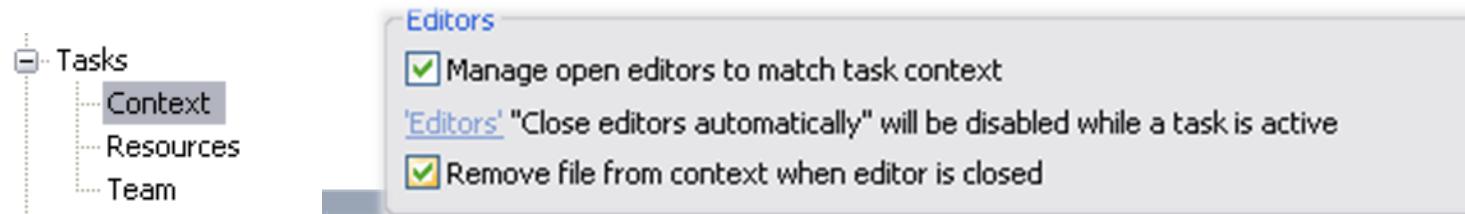
# Task Activation & Filtering



12. Mark a method as a landmark, right click and select "Mark as Landmark" – the method becomes bold

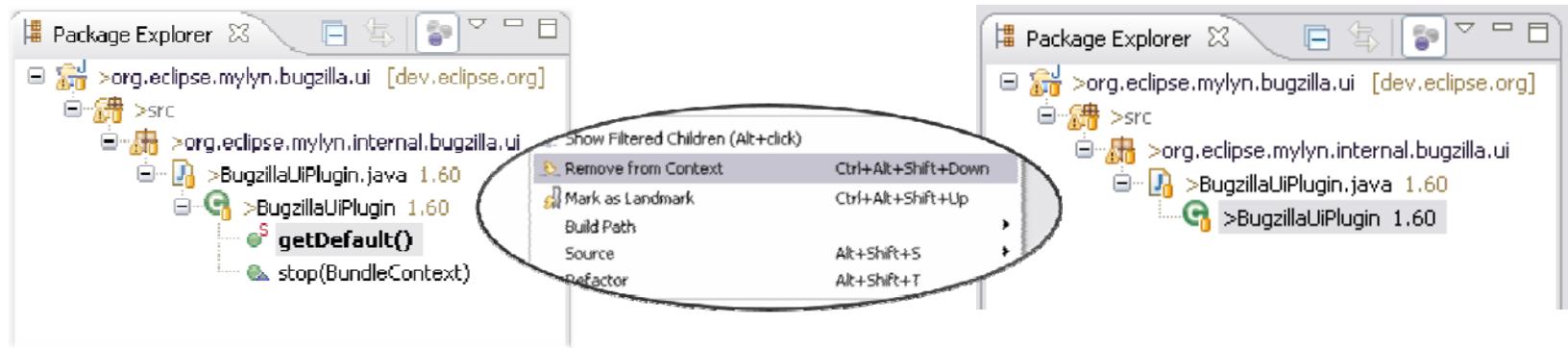


13. Open one of the files now visible
14. Close the file and note that that it is removed from the context  
(settable via preferences: *Window > Preferences > Tasks > Context*)

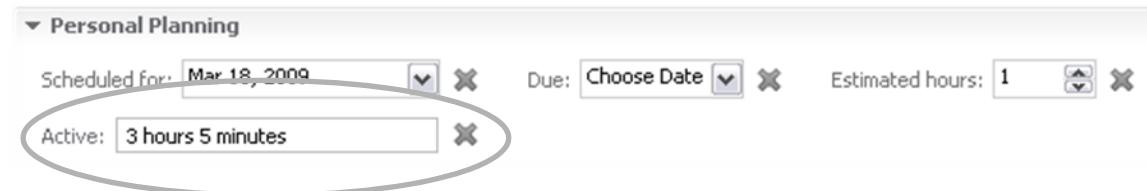


# Task Activation & Filtering

15. Manually remove an element from your task context, right click and select "Remove from Context" (any open editors will be closed)



16. Lets see how much time you've spent on this task so far. Check the active time on the Task Editor's Planning section.



# One-click-multitasking

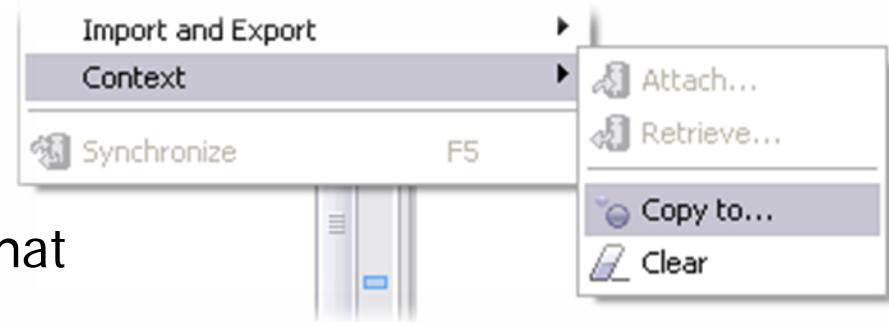
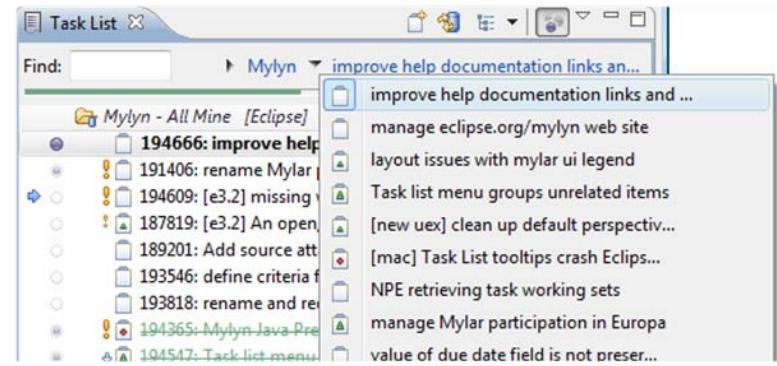
## *DEMONSTRATION*

# One-Click-Multitasking



## Try it!

1. Deactivate the current task, note that Eclipse goes back to the ready state, package explorer no longer filtered, previously open documents are closed.
2. Activate another task
3. Inspect some code
4. Activate the previous task  
Tip: use the Task History drop down
5. Copy the context of one task to a task that you haven't worked on



6. Activate this new task to see that the context has been copied.

# Focused Development

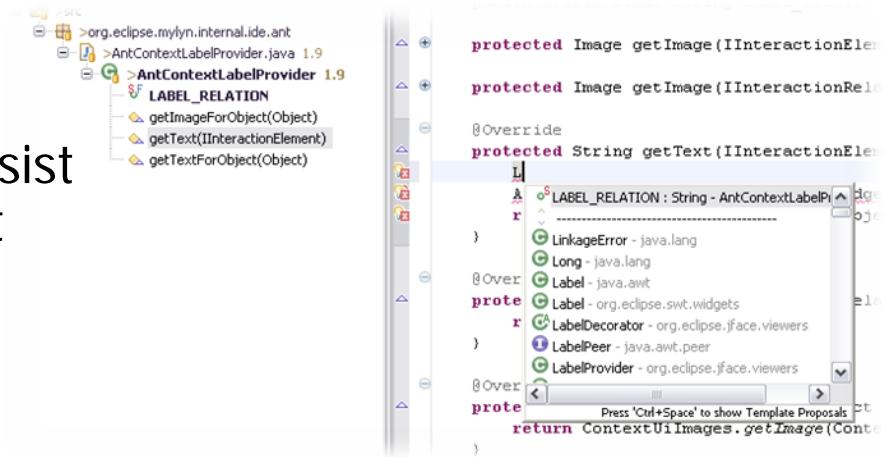
# *DEMONSTRATION*

# Focused Development



## Try it!

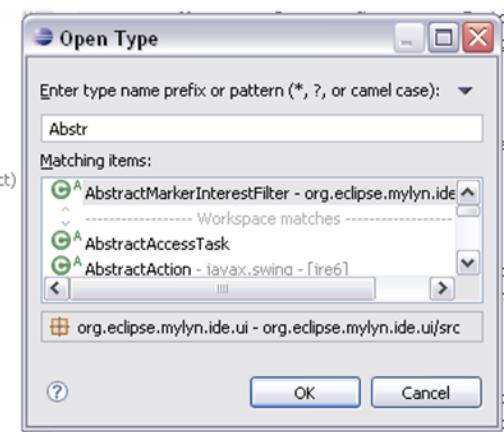
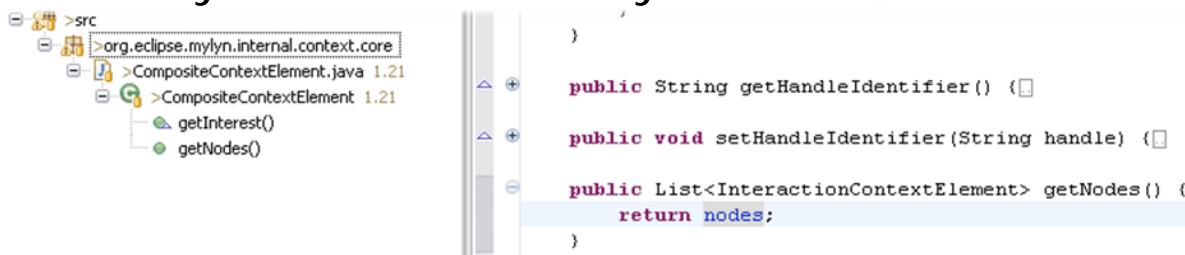
1. Expose and open a class
2. Add a new method, content assist is focused by your task context



3. Open type (Ctrl+Shift+T) floats the interesting files to the top



4. Focus your editor and have your code folded by context



# Automated Change-Sets

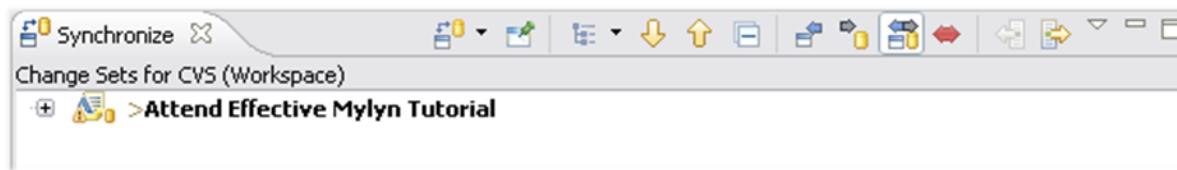
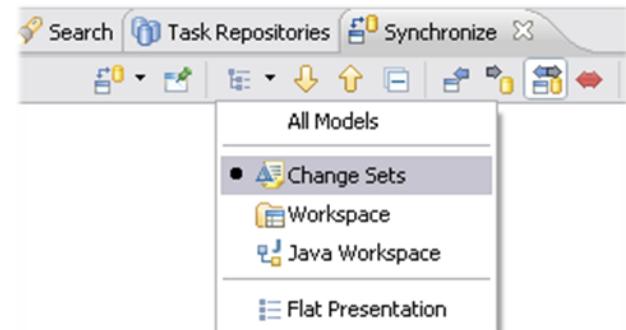
## *DEMONSTRATION*

# Automated Change-Sets

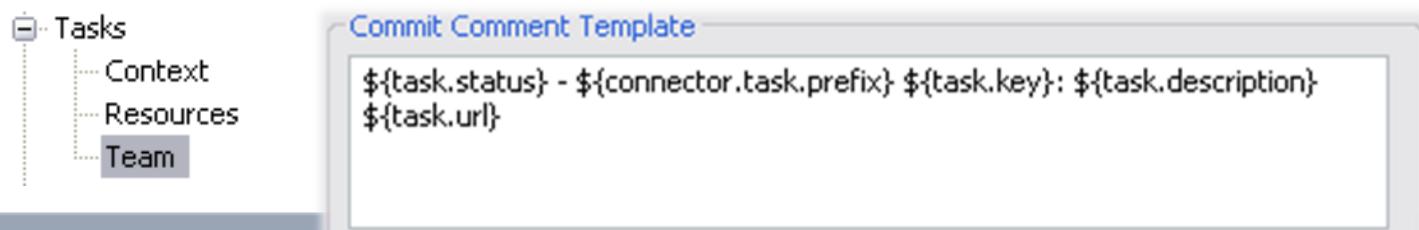


## Try it!

1. Add Synchronize View to your perspective
2. Enable Mylyn's Change Set mode
3. Activate task
  
4. Make changes to your code
5. Note outgoing change set with pre-populated comment



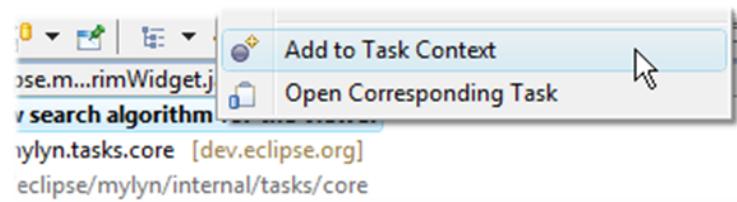
6. Commit comment template customizable via preferences Window > Preferences > Tasks > Team



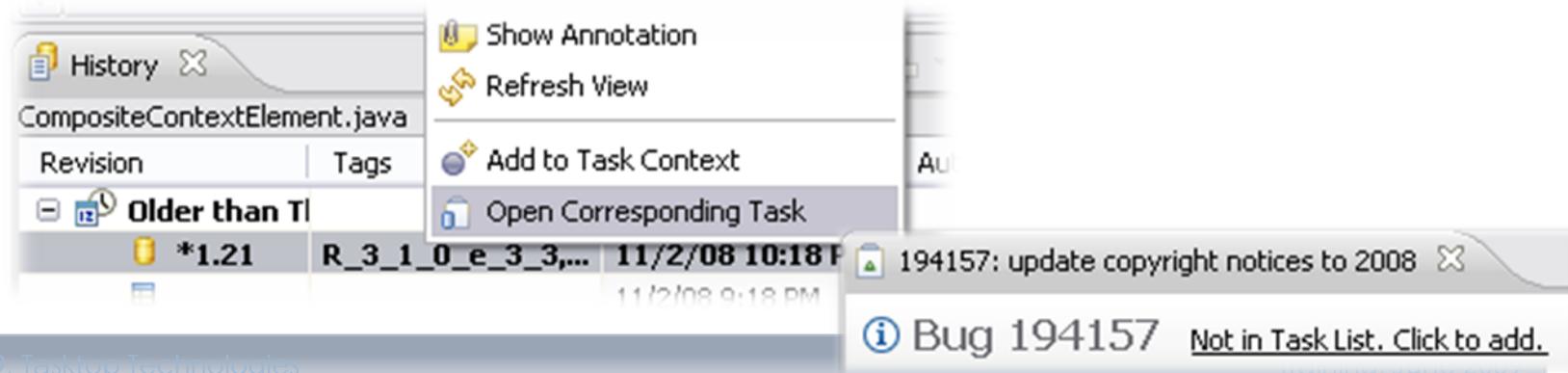
# Automated Change-Sets



7. Right+click on the change set to see Task specific actions
  - Add to Context
  - Open Corresponding Task



8. Right+click on a class in the Package Explorer and select, Compare With > History...
  - Authenticate as Anonymous, blank password if requested.
  - Right+click on a revision and select Open Corresponding Task



# Attach Patches with Context

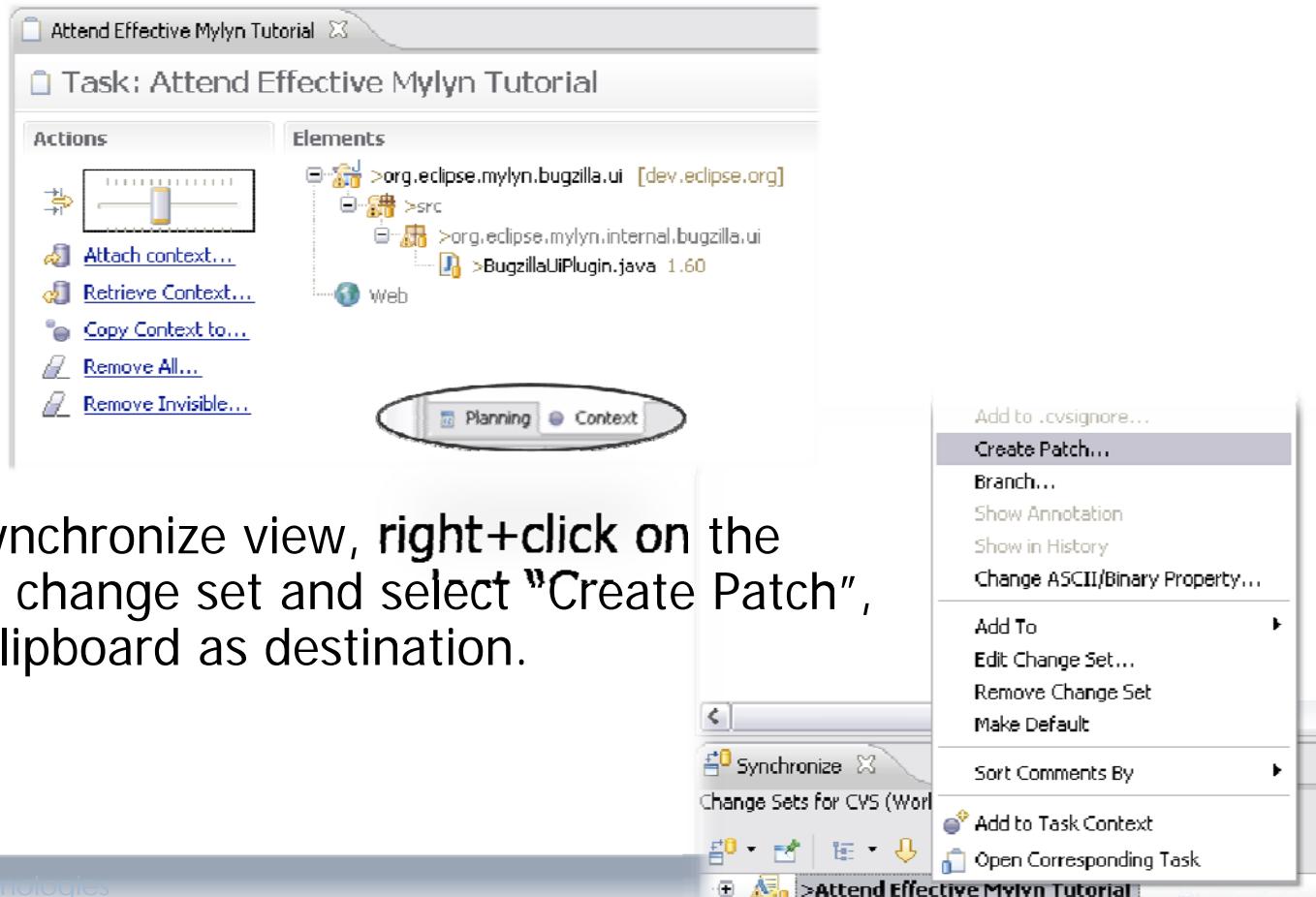
## *DEMONSTRATION*

# Attach Patches with Context



## Try it!

1. You've made changes that are ready for review
2. Before submitting the patch, review the task context.



3. In the Synchronize view, **right+click** on the outgoing change set and select "Create Patch", choose clipboard as destination.

# Attach Patches with Context



## Try it!

4. Open Task Editor and expand the attachments section
5. Press “Attach...” to open the Attachment wizard
6. Select “Clipboard” for source and press Next
7. On the details page, fill in Description & Comment
8. Select Patch option (attach context selected automatically)
9. Press Next to preview, or Finish to submit the attachment

The screenshot shows the Task Editor interface. At the top, there is a header bar with the title "Attachments (0)" and a note "No attachments". Below this are two buttons: "Attach..." and "Attach Screenshot...". A modal window titled "Add Attachment" is open. It has a sub-header "Select attachment source" with a note "Clipboard supports text and image attachments only." Below this, there are three radio button options: "File" (unchecked), "Clipboard" (checked), and "Workspace" (unchecked). The main body of the modal is titled "Attachment Details" with the sub-instruction "Enter a description". It contains four fields: "File" (set to "clipboard.txt"), "Description" (empty), "Comment" (empty), and "Content Type" (set to "text/plain"). At the bottom of the modal, there are two checked checkboxes: "Patch" and "Attach Context".

# Retrieve Context & Apply Patch

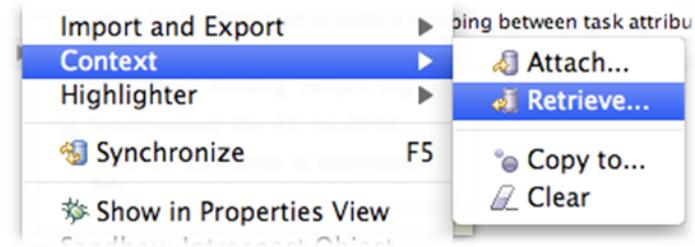
# *DEMONSTRATION*

# Retrieve Context & Apply Patch

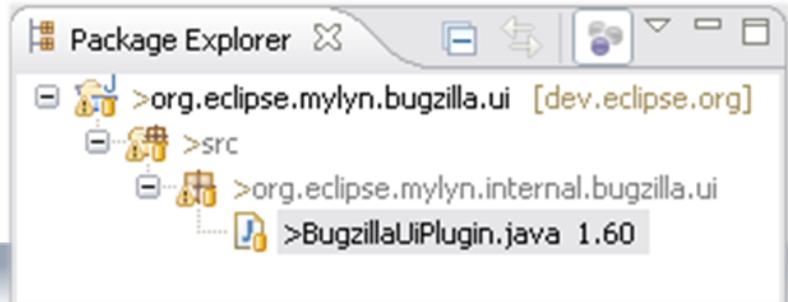


## Try it!

1. Activate with existing (remote) context
2. A dialog is presented to help you retrieve the context if a local context does not already exist.
3. To retrieve the context manually, right click the task in the Task List and select Context > Retrieve



4. Once the context is retrieved, activate the task (if not already) and note that the Package Explorer now reveals what elements the context is concerned with.

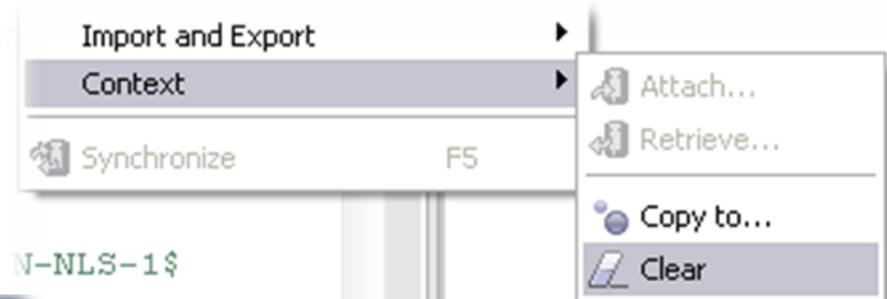
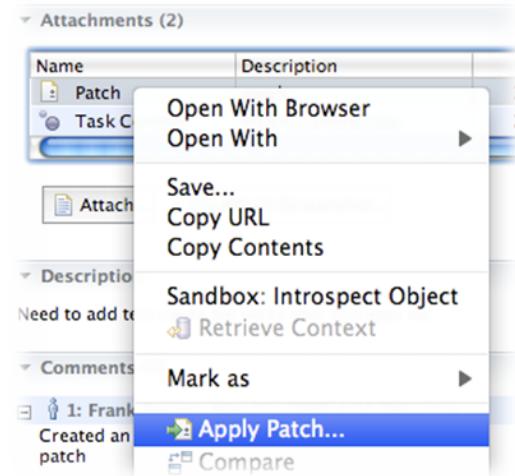


# Retrieve Context & Apply Patch



## Try it!

5. Open the task and view the Attachments section. Right click on the Patch attachment and select apply.
6. When browsing the changes in code, content assist and open type, all are informed by the retrieved context.
7. If you want to revert to an empty context, right+click on the task in the Task List and select Context > Clear



Tasktop



# QUESTIONS?

[eclipse.org/mylyn](http://eclipse.org/mylyn)

[tasktop.com/blog](http://tasktop.com/blog)