

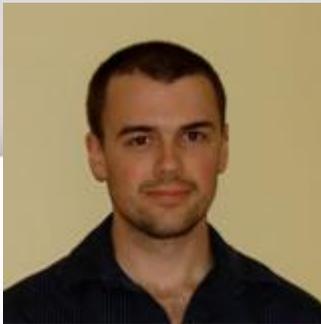


Perforce
User Conference

2010

Agile Task Management with Perforce, Eclipse & Mylyn

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Perforce Software

Marc Wensauer



Agenda

1. What are we trying to improve?
2. What are the obstacles?
3. How can we address the problem?
4. What does the solution look like?
5. Summary



What are we trying to improve?

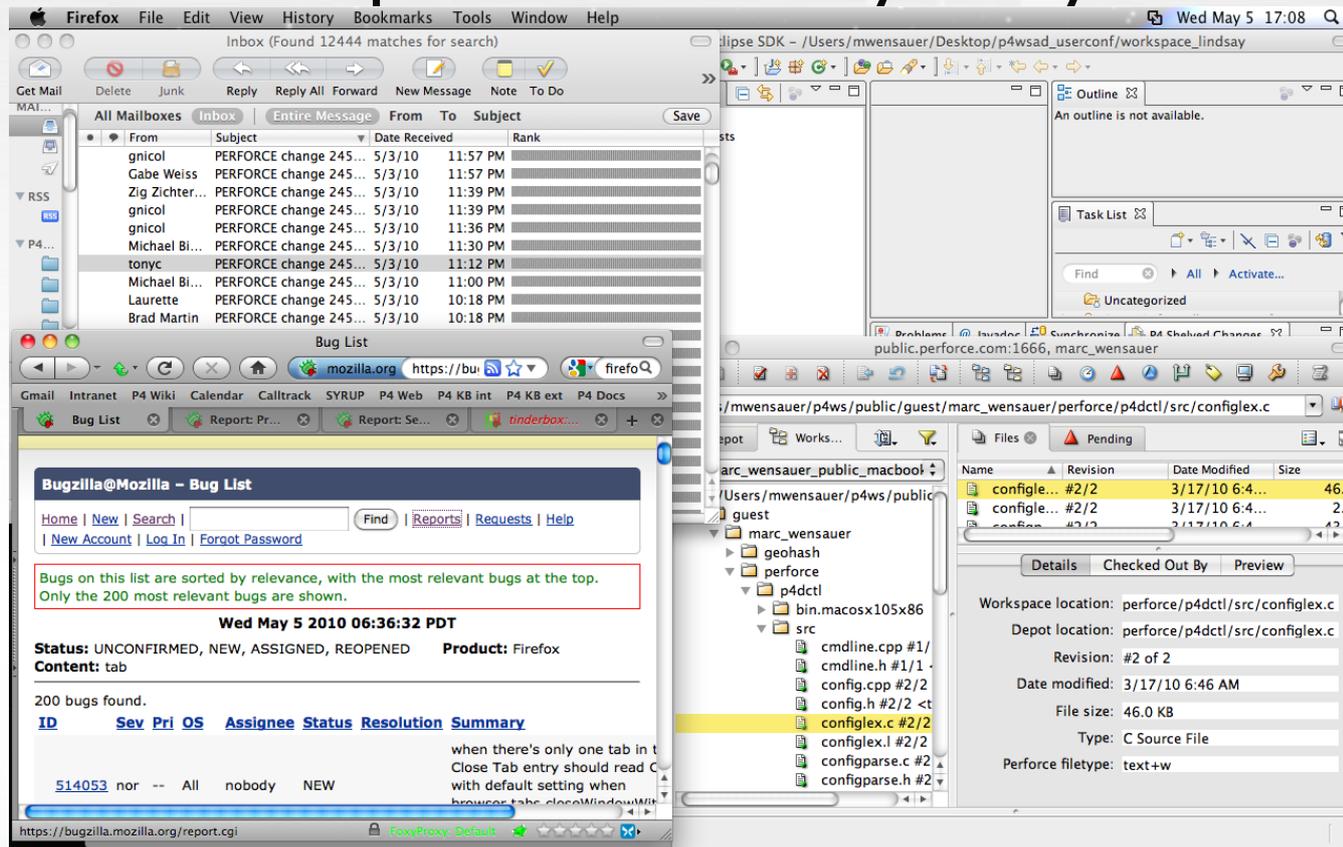
- You've adopted Agile
- You're doing Scrum or Kanban
- You're focusing on chunks of work
- Do your tools let you focus on related tasks?

Information Overload

- How does it manifest?
 - Multiple tools with different metaphors
 - Huge source trees to navigate
 - Pertinent but unrelated sets of information
- How do we compensate?
 - Build up a context of information
 - “State of flow”
- Can we help developers focus?

Expensive Context Switching

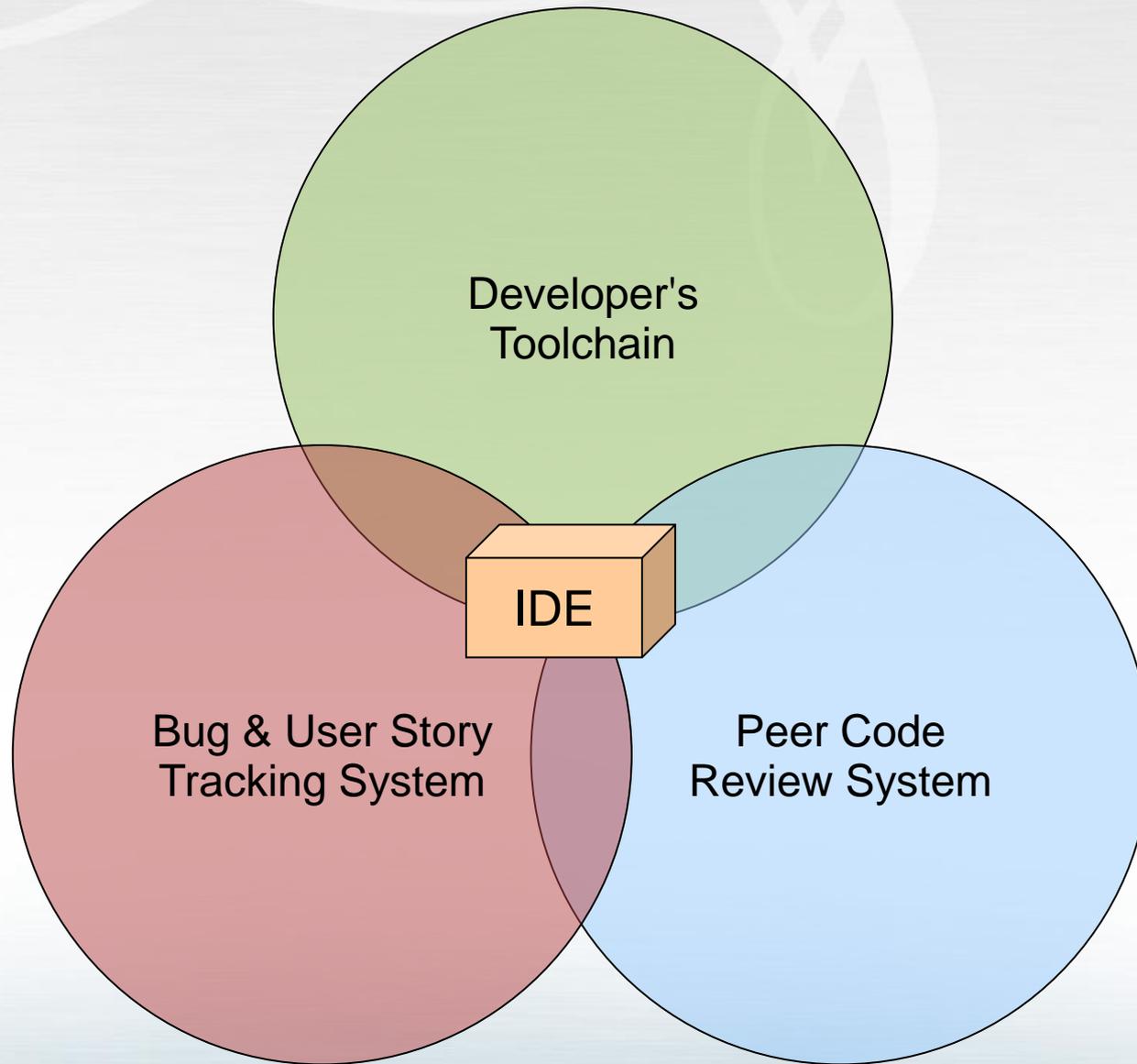
How do developers currently stay connected?



Put it all in one place, the IDE!



Create a single point of interaction



Proposed Solution

- Eclipse
 - Open-source cross-platform IDE
- Perforce plug-in
 - Lets developers stay in the IDE
 - Refactoring support
- Mylyn Project
 - Application Lifecycle Management framework
 - Two main components: Tasks & Contexts
 - Task-focused interface

Bringing focus to Perforce

- Hyperlinks between changelists and tasks
- Show higher-level diffs where possible
- Automated changelist management
- Eclipse-based Time-lapse View
 - Focusing, filtering, and folding
 - Language-aware



Mylyn Tasks



Core Task Features

- Unified editing interface
- Task list management
- Pop-up notifications
- Offline editing
- Scheduling
- Private “scratch” area
- Search



Mylyn Context

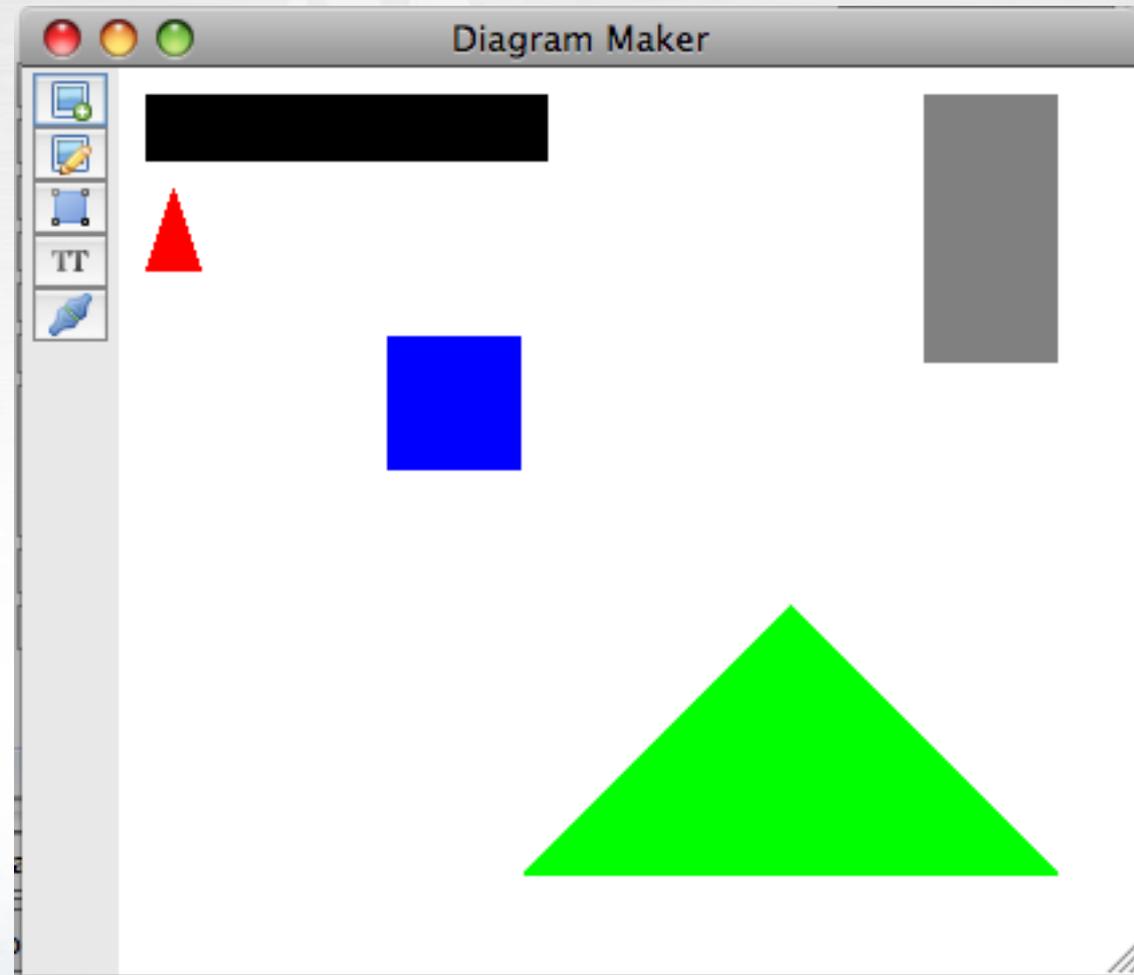
- Resources used to complete a task
 - Files added, edited, or deleted
 - Reference files
- Associated with one task & pending changelist
- Share exactly what you are looking at
- UI filtering
 - Code folding of areas outside of active context

What can we do with it?

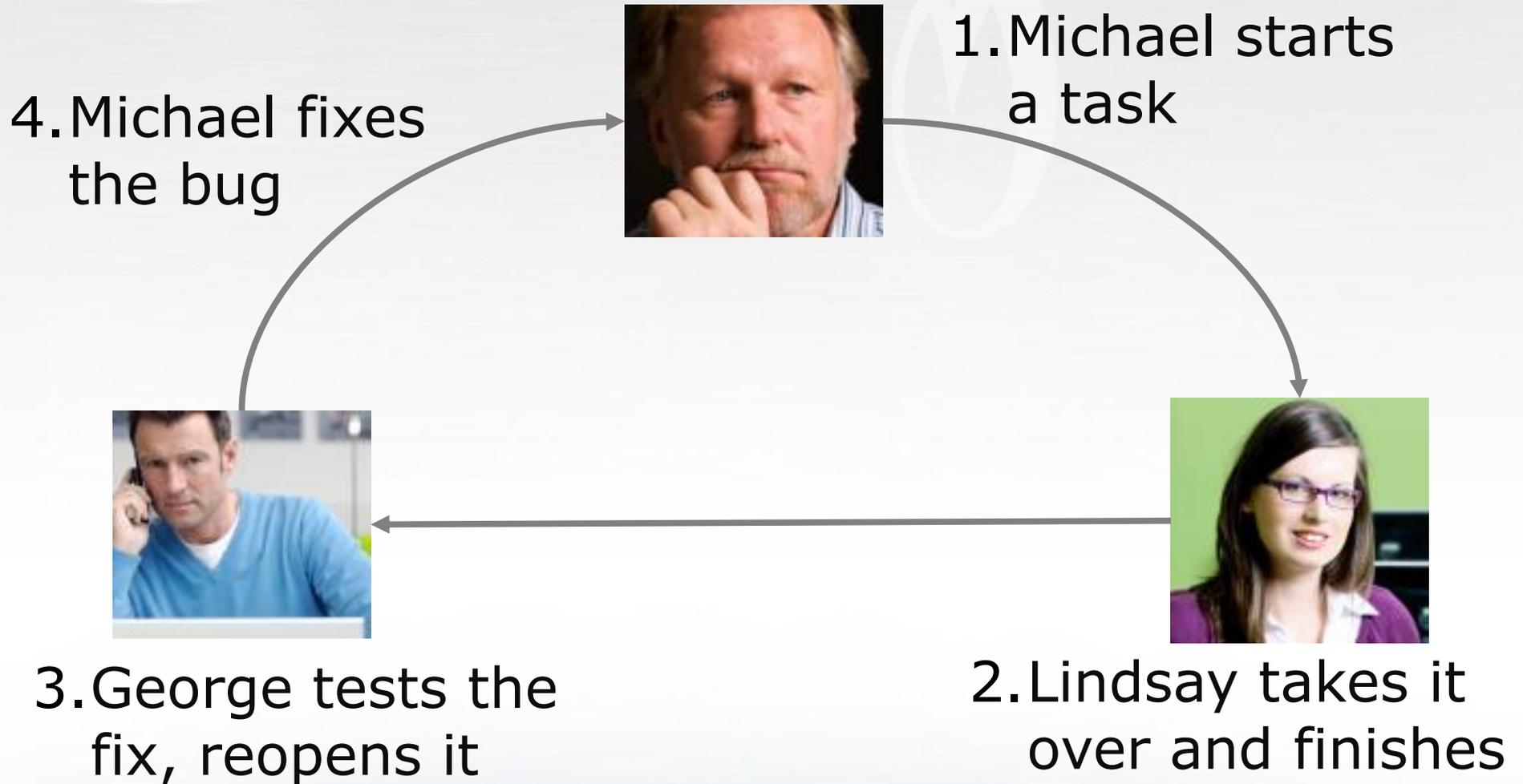
- Walk through a demo
- The team:
 - Michael and Lindsay are developers
 - George is a tester
 - They're all on the same Scrum team
- Let's see how these tools can be used

Demo Application

- Diagram Maker
- Java Application
- 2 Projects
- 39 source files
- 10 unit test files



Scenario



Michael the developer



1. Activates a task
2. Builds up a context
3. Saves work in progress
4. Activates a different task

Michael views the projects

The screenshot displays an IDE interface with the following components:

- Package Explorer:** Shows a project structure for 'DiagramMaker' and 'DiagramMakerTests'.
 - DiagramMaker [127.0.0.1:1666, michael_c]**
 - src
 - core.element
 - core.file
 - core.file.builder
 - core.util
 - ui.actions
 - ui.application
 - ui.editor
 - ui.editor.decoration
 - ui.editor.renderer
 - ui.tools
 - ui.wizards
 - ui.wizards.export
 - JRE System Library [J2SE-1.5]
 - images
 - DiagramMakerTests [127.0.0.1:1666, mick]**
 - src
 - tests.core
 - tests.core.model
 - tests.ui.actions
 - tests.ui.editor
 - tests.ui.wizard
 - JRE System Library [J2SE-1.5]
 - JUnit 4
- Outline:** Displays the message "An outline is not available."
- Task List:** Shows a search bar with "Find" and "All" buttons, and a section labeled "Uncategorized".
- Problems:** Shows the workspace name "Perforce (Workspace)" and the message "No changes in 'Perforce (Workspace)'."



Michael adds task repository

The screenshot shows a 'Task List' window with a search bar and a list of tasks. A dialog box titled 'Add Task Repository...' is open, containing the following settings:

- Bugzilla Repository Settings**
 - Supports Bugzilla 3.0 – 3.4
 - Example: <https://bugs.eclipse.org/bugs> (do not include index.cgi)
- Server:
- Label: Disconnected
- User ID: Anonymous
- Password: Save Password
- Additional Settings
 - ▶ **Http Authentication**
 - ▶ **Proxy Server Configuration**
 - ▶ **Task Editor Settings**
- [Create new account](#) [Change account settings](#)

Buttons at the bottom:



Michael adds queries to Task List

The screenshot shows a 'Task List' window with a search bar and a list of tasks. The tasks are grouped into several categories:

- Uncategorized
- Michael's Sprint 2 [Bugzilla Repository]
- Sprint 2 [Bugzilla Repository]
 - 12: Can't select elements with partial transparency
 - 14: Crash when saving diagram without enough filesystem space
 - 15: Add gradient options to viewer toolbar
 - 16: Add unit tests for shape tool
 - 17: Add unit tests for connection tool
 - 18: Add unit tests for selection tool
 - 7: Add support for importing from http url
 - 9: Create new icons for viewer toolbar
 - 13: Add ability to synchronize colors across grouped elements
 - 11: Support translating diagram format to SVG
- Unassigned Sprint 2 [Bugzilla Repository]
 - 12: Can't select elements with partial transparency
 - 17: Add unit tests for connection tool
 - 11: Support translating diagram format to SVG
- Unplanned [Bugzilla Repository]
 - 5: Crash on linux when using unicode client
 - 6: Issue when deleting 10k+ files
 - 19: Refactor Manhattan connection algorithm
 - 20: Support applying style sheets to diagrams



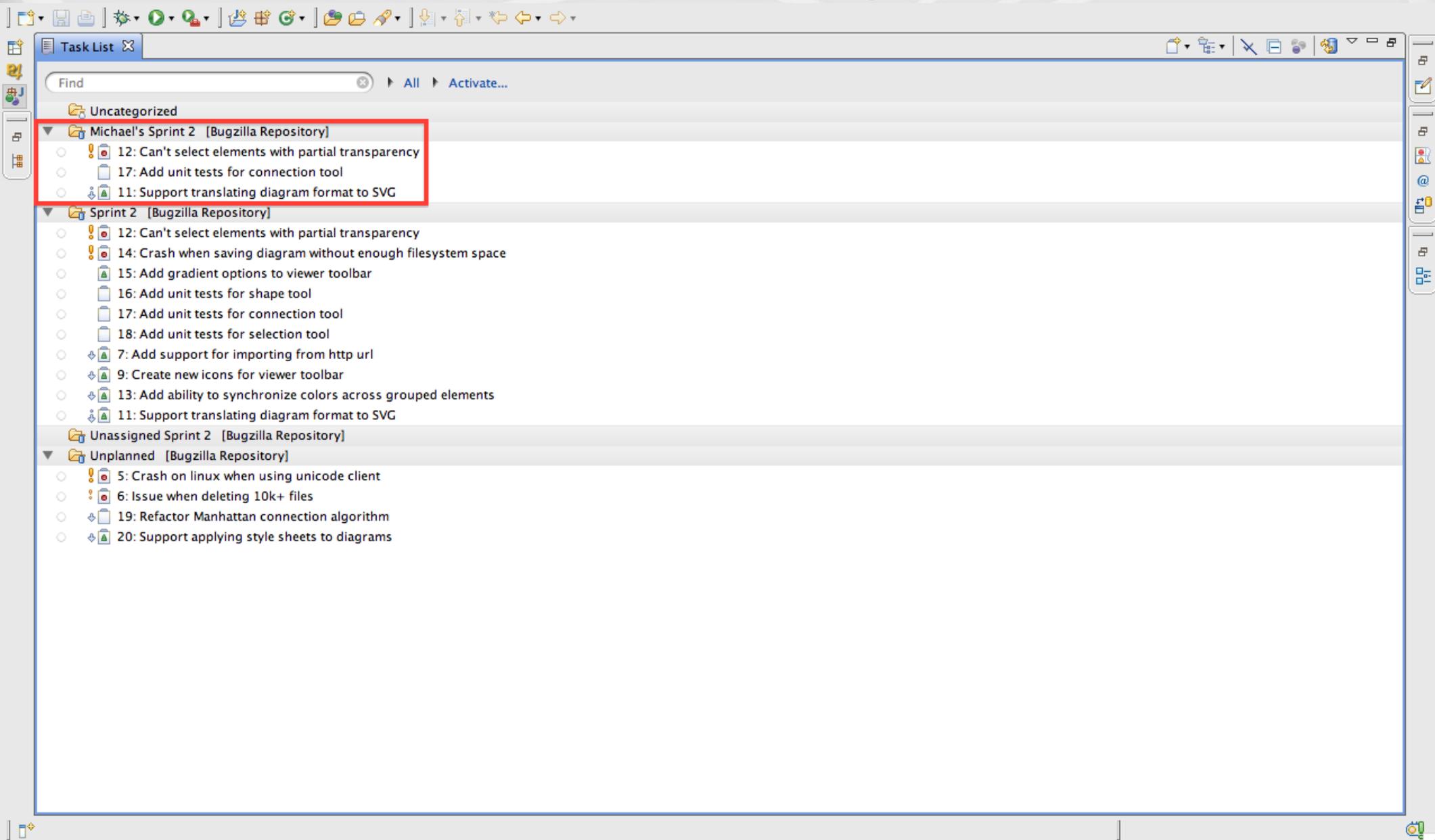
Michael views task and grabs work

The screenshot shows an IDE interface with several panels:

- Package Explorer:** Shows a project structure for 'DiagramMaker' with sub-packages like 'core.element', 'ui.actions', etc., and 'DiagramMakerTests'.
- Bugzilla Repository:** Displays 'Bug 11: Support translating diagram format to SVG'. The status is 'ASSIGNED', opened on 'Mar 30, 2010', and modified on 'Mar 31, 2010 11:54 AM'. The description reads: 'Add builder for translating diagram format into Scalable Vectors Graphic (SVG) format. This would allow diagrams to be opened in a SVG-supported web-browser. Also developers could use tools such as XSLT to interact with created diagrams.' A 'New Comment' field contains the text: 'Taking ownership of this feature and will begin development'.
- Outline:** Shows the task 'Support translating diagram format to SVG' with options for 'Description' and 'New Comment'.
- Task List:** Lists tasks under 'Michael's Sprint 2 [Bugzilla Repository]'. Task 11 is highlighted in red: '11: Support translating diagram format to SVG'. Other tasks include '12: Can't select elements with partial trans...', '14: Crash when saving diagram without er...', '15: Add gradient options to viewer toolba...', '16: Add unit tests for shape tool', '17: Add unit tests for connection tool', and '18: Add unit tests for selection tool'.
- Problems:** Shows 'Perforce (Workspace)' with the message 'No changes in 'Perforce (Workspace)'.'



Michael views his assigned tasks



The screenshot shows a 'Task List' application window. At the top, there is a search bar with the text 'Find' and a dropdown menu showing 'All' and 'Activate...'. Below the search bar, the tasks are organized into several categories:

- Uncategorized**
- Michael's Sprint 2 [Bugzilla Repository]** (highlighted with a red box):
 - 12: Can't select elements with partial transparency
 - 17: Add unit tests for connection tool
 - 11: Support translating diagram format to SVG
- Sprint 2 [Bugzilla Repository]**
 - 12: Can't select elements with partial transparency
 - 14: Crash when saving diagram without enough filesystem space
 - 15: Add gradient options to viewer toolbar
 - 16: Add unit tests for shape tool
 - 17: Add unit tests for connection tool
 - 18: Add unit tests for selection tool
 - 7: Add support for importing from http url
 - 9: Create new icons for viewer toolbar
 - 13: Add ability to synchronize colors across grouped elements
 - 11: Support translating diagram format to SVG
- Unassigned Sprint 2 [Bugzilla Repository]**
- Unplanned [Bugzilla Repository]**
 - 5: Crash on linux when using unicode client
 - 6: Issue when deleting 10k+ files
 - 19: Refactor Manhattan connection algorithm
 - 20: Support applying style sheets to diagrams



Michael sees task activity

Task List

Find All Activate...

- Uncategorized
- Unsubmitted [Bugzilla Repository]
 - Crash on Snow Leopard when importing
- Michael's Sprint 2 [Bugzilla Repository]
 - 12: Can't select elements with partial transparency
 - 17: Add unit tests for connection tool
 - 11: Support translating diagram format to SVG
- Sprint 2 [Bugzilla Repository]
 - 12: Can't select elements with partial transparency
 - 14: Crash when saving diagram without enough filesystem space
 - 15: Add gradient options to viewer toolbar
 - 16: Add unit tests for shape tool
 - 17: Add unit tests for connection tool
 - 18: Add unit tests for selection tool
 - 7: Add support for importing from http url
 - 9: Create new icons for viewer toolbar
 - 13: Add ability to synchronize colors across grouped elements
 - 11: Support translating diagram format to SVG
- Unassigned Sprint 2 [Bugzilla Repository]
- Unplanned [Bugzilla Repository]
 - 5: Crash on linux when using unicode client
 - 6: Issue when deleting 10k+ files
 - 19: Refactor Manhattan connection algorithm
 - 20: Support applying style sheets to diagrams
 - 21: Add support for exporting to PDF



Michael adds notes to task

The screenshot displays an IDE interface with several panels:

- Package Explorer:** Shows a project structure for 'DiagramMaker' and 'DiagramMakerTests'.
- Bugzilla Repository:** The main window shows a task titled '11: Support translating diagram format to SVG'. The task is 'ASSIGNED' and was opened on Mar 30, 2010, with a modification on Mar 31, 2010. The 'Scheduled' date is set to 'Friday' and the 'Estimate' is '1'. A 'Useful links' section contains two URLs: <https://developer.mozilla.org/en/SVG> and <https://developer.mozilla.org/en/SVG/Tutorial/Introduction>.
- Outline:** Shows a tree view of the task, including 'Support translating diagram format to SVG', 'Description', and 'New Comment'.
- Task List:** A list of tasks, with '11: Support translating diagram format to SVG' highlighted.
- Problems:** Shows 'No changes in 'Perforce (Workspace)'.



Michael views scheduled tasks

The screenshot displays a 'Task List' application window. The window title is 'Task List'. It features a search bar at the top left with the text 'Find' and a search icon. Below the search bar, there are navigation options: 'All' and 'Activate...'. The main content area is a list of tasks, organized by date. The tasks are:

- Wednesday - Today
 - 12: Can't select elements with partial transparency
- Thursday
 - 17: Add unit tests for connection tool
- Friday
 - 11: Support translating diagram format to SVG

Below the tasks, there is a list of time periods and categories:

- Saturday
- This Week
- Apr 4, 2010
- Apr 5, 2010
- Apr 6, 2010
- Apr 7, 2010
- Apr 8, 2010
- Apr 9, 2010
- Apr 10, 2010
- Next Week
- Two Weeks
- Future
- Unscheduled



Michael's IDE before task activation

The screenshot shows an IDE interface with the following components:

- Package Explorer:** Shows a project named "DiagramMaker" with a source folder "src" containing several packages: "core.element", "core.file", "core.file.builder", "core.util", "ui.actions", "ui.application", "ui.editor", "ui.editor.decoration", "ui.editor.renderer", and "ui.tools".
- Code Editor:** Displays the source code for "DiagramEditor.java". The code includes imports for AWT, Swing, and UI tool classes, and defines a "DiagramEditor" class with a constructor and a "getHeight()" method. The constructor parameters "width" and "height" are highlighted in yellow.
- Outline:** Shows the class structure of "DiagramEditor", including fields (width, height, title, diagram) and methods (getHeight(), getWidth(), getDimensions(), getTitle(), getDiagram(), configureToolBar(), fillSample()).
- Task List:** Lists tasks from a Bugzilla repository. A red arrow points to task "12: Can't select elements with partial transparency" under the "Michael's Sprint 2" category.
- Problems View:** Shows "0 items" in the table below.

Description	Resource	Path	Location	Type
0 items				

ui.editor.DiagramEditor.DiagramEditor(int width, int height, String title) - DiagramMaker/src



Michael selects task to activate

The screenshot displays an IDE interface with several windows:

- Package Explorer:** Shows a project structure for 'DiagramMaker' with sub-packages like 'core.element', 'core.file', 'core.util', 'ui.actions', 'ui.application', 'ui.editor', and 'ui.tools'.
- DiagramEditor.java:** The active editor window.
- Bugzilla Repository:** A window showing a bug report titled '12: Can't select elements with partial transparency'. The bug is in 'NEW' status, opened on Mar 30, 2010, and modified on Mar 31, 2010. The description states: 'If you enable any level of transparency for an element in your diagram than that item cannot be selected.' The bug is assigned to 'michael@perforce.com'.
- Task List:** A window showing a list of tasks. The task '12: Can't select elements with partial transparency' is selected and highlighted with a red arrow.
- Problems:** A window at the bottom showing '0 items'.



Michael's IDE with empty context

The screenshot shows an IDE interface with several views:

- Package Explorer:** Shows a tree view with a red box around the text "Empty task context, unfocus or Alt+click".
- Outline:** Displays the message "An outline is not available."
- Task List:** Shows a list of tasks with a search bar and a red arrow pointing to a task titled "12: Can't select elements with partial trans".
- Problems:** Shows a table with 0 items.

The Problems view table structure is as follows:

Description	Resource	Path	Location	Type
0 items				



Michael builds context

The screenshot displays an IDE interface with several key components:

- Package Explorer:** Shows a project structure for 'DiagramMaker'. The 'ui.editor' package contains 'DiagramEditor.java #4/4 <text>', which is highlighted. The 'buildCanvas() : Canvas' method is also highlighted.
- DiagramEditor.java:** The code editor shows the following class definition:

```
public class DiagramEditor {  
  
    private int width;  
    private int height;  
    private String title;  
    private Diagram diagram;  
  
    public DiagramEditor(int width, int height, String title) {}  
  
    public int getHeight() {}  
  
    public int getWidth() {}  
  
    public Dimension getDimensions() {}  
  
    public String getTitle() {}  
  
    public Diagram getDiagram() {}  
  
    private void configureToolBar(JToolBar toolbar) {  
        toolbar.setFloatable(false);  
        toolbar.add(new AddDiagramTool());  
        toolbar.add(new EditDiagramTool());  
        toolbar.add(new SelectionTool());  
        toolbar.add(new TextTool());  
        toolbar.add(new ConnectionTool());  
    }  
  
    private void fillSample() {}  
}
```
- Outline:** Shows the 'DiagramEditor #4/4 <text>' class with two methods: 'configureToolBar(JToolBar) : void' and 'buildCanvas() : Canvas'.
- Task List:** Lists tasks from a Bugzilla repository. A red arrow points to task '12: Can't select elements with partial trans'.
- Problems:** Shows a workspace problem: 'Can't select elements with partial transparency michael@michael_dev { Working changelist to fix 12 (A...) (default)'. The problem is located in 'src/ui/tools/SelectionTool.java #2/2 <text> <edit>'.



Michael shelves changes

The screenshot shows an IDE interface with a 'Shelve files from changelist 35' dialog box open. The dialog box contains the following text:

Files: (3/3 files selected)

- //depot/DiagramMaker/src/core/element/Shape.java #5/5 <text><edit>
- //depot/DiagramMaker/src/ui/tools/SelectionTool.java #2/2 <text><edit>
- //depot/DiagramMakerTests/src/tests/ui/actions/SelectTransparencyTest.java <text><add>

The dialog box has buttons for 'Advanced', 'Cancel', and 'Shelve'. The background IDE shows the Package Explorer with a tree view of the project structure, the DiagramEditor.java code editor, the Outline view, the Task List view, the Find view, and the Problems view. The Problems view shows a warning for 'Can't select elements with partial transparency'.



Michael views other task

The screenshot displays an IDE interface with several panels:

- Package Explorer:** Shows project folders for `DiagramMaker` and `DiagramMakerTests`.
- Bugzilla Repository:** The main view shows details for bug **17: Add unit tests for connection tool**.
 - Status: NEW
 - Opened: Mar 31, 2010
 - Modified: Mar 31, 2010 11:59 AM
 - Attributes:
 - Resolution:
 - Platform:
 - Product:
 - OS:
 - Component:
 - Version:
 - Priority:
 - Severity:
 - Depends on (Subt...):
 - Blocks:
 - URL:
 - Keywords:
 - Status Whiteboard:
 - Sprint:
 - Target Release:
 - Team Planning:
 - Private:

- Outline:** Shows a tree view with the current task selected.
- Task List:** A list of tasks with a search bar and a red arrow pointing to bug 17.
- Problems:** Shows a message: "Can't select elements with partial transparency michael@michael_dev { Working changelist to fix 12 (A...)"


Michael's IDE with other task's context

The screenshot displays an IDE interface with several key components:

- Package Explorer (Left):** Shows a project structure with packages `DiagramMaker` and `DiagramMakerTests`. Under `DiagramMakerTests`, the `tests.ui.tools` package contains `ConnectionToolTest.java`, which includes methods `testAngled()`, `testBezier()`, and `testSquareToTriangle()`.
- Code Editor (Center):** Displays the source code for `ConnectionToolTest.java`. The code defines a `public class ConnectionToolTest extends TestCase` with three test methods: `testSquareToTriangle()`, `testAngled()`, and `testBezier()`.
- Outline (Top Right):** Provides a hierarchical view of the code structure, showing the class `ConnectionToolTest` and its methods.
- Task List (Middle Right):** Lists tasks from a Bugzilla repository. Task `17: Add unit tests for connection tool` is highlighted with a red circle and arrow, indicating the current context.
- Problems (Bottom):** Shows a list of issues. The top entry is `Add unit tests for connection tool michael@michael_dev`, which is expanded to show the file `ConnectionToolTest.java`. A second entry, `Can't select elements with partial transparency michael@michael_dev`, is also visible.

At the bottom of the IDE, the status bar indicates the current state: `Writable`, `Smart Insert`, and `16 : 9`.



Lindsay the developer



1. Examines Michael's task
2. Unshelves his work
3. Submits change and closes task

Lindsay browses Michael's work

The screenshot shows an IDE interface with several panels. The main panel displays a 'Shelved Changelist 35 (127.0.0.1:1666)' with the following details:

- Changelist: 35
- Date: 04/01/10 09:10 AM
- Workspace: michael_dev
- Shelved by: michael
- Description: Initial fix fo bug 12, work in progress.

The 'Files (3)' section lists the following files:

- //depot/DiagramMaker/src/core/element/Shape.java#5
 - Shape
 - isTransparent()
- //depot/DiagramMaker/src/ui/tools/SelectionTool.java#2
 - SelectionTool
 - isValidShape(Shape)
- //depot/DiagramMakerTests/src/tests/ui/actions/SelectTransparencyTest.java

The 'Task List' panel shows a search bar and a list of tasks, including 'Uncategorized' and 'Sprint 2 [Bugzilla Repository]'.

The bottom panel shows a table of 'P4 Shelved Changes' with the following data:

Changelist	Date	User	Workspace	Description
35	04/01/10 09:10 AM	michael	michael_dev	Initial fix fo bug 12, work in progress.

Red arrows indicate the flow of information: one points from the 'P4 Shelved Changes' tab to the table, and another points from the table entry to the 'Description' field in the main panel.



Lindsay selects link to Bugzilla issue

The screenshot shows an IDE interface with several panels. The main panel displays 'Shelved Changelist 35 (127.0.0.1:1666)'. The 'Details' section shows the following information:

- Changelist: 35
- Date: 04/01/10 09:10 AM
- Workspace: michael_dev
- Shelved by: michael

The 'Description' field contains the text: 'Initial fix fo [bug 12](#), work in progress.' A red arrow points to the 'bug 12' link.

The 'Files (3)' section lists the following files:

- //depot/DiagramMaker/src/core/element/Shape.java#5
 - Shape
 - isTransparent()
- //depot/DiagramMaker/src/ui/tools/SelectionTool.java#2
 - SelectionTool
 - isValidShape(Shape)
- //depot/DiagramMakerTests/src/tests/ui/actions/SelectTransparencyTest.java

The 'Task List' panel shows a search bar and a list of tasks, including 'Sprint 2 [Bugzilla Repository]'.

The 'Overview' panel shows a table of shelved changes:

Changelist	Date	User	Workspace	Description
35	04/01/10 09:10 AM	michael	michael_dev	Initial fix fo bug 12, work in progress.



Lindsay views corresponding task

Bug 12 Bugzilla Repository Submit

Can't select elements with partial transparency
Status: NEW Opened: Mar 30, 2010 Modified: Mar 31, 2010 11:54 AM

Attributes

Resolution: Platform: All
Product: DiagramMaker OS: All
Component: UI Version: 1.2
Priority: P1 Severity: major
Depends on (Subt...): Blocks:

URL:
Keywords:

Status Whiteboard:

Sprint: 2
Target Release: 2.0

Team Planning
Private

Context Bugzilla

Task List

Find All Activate...

- Uncategorized
- Sprint 2 [Bugzilla Repository]
 - 12: Can't select elements with partial transparency
 - 14: Crash when saving diagram without enough files
 - 15: Add gradient options to viewer toolbar
 - 16: Add unit tests for shape tool
 - 17: Add unit tests for connection tool
 - 18: Add unit tests for selection tool
 - 7: Add support for importing from http url
 - 9: Create new icons for viewer toolbar

Problems @ Javadoc Synchronize P4 Shelved Changes

Connection: 127.0.0.1:1666, lindsay_dev, lindsay

Folder/file: Workspace:

User: Workspace:

Changelist	Date	User	Workspace	Description
35	04/01/10 09:10 AM	michael	michael_dev	Initial fix fo bug 12, work in progress.



Lindsay activates task and unshelves

The screenshot shows the Eclipse IDE interface with several panels:

- Package Explorer:** Shows the project structure for DiagramMaker and DiagramMakerTests. A red box highlights the DiagramMakerTests package.
- Change 35:** A window titled "Shelved Changelist 35 (127.0.0.1:1666)". It shows details for Changelist 35, including the date (04/01/10 09:10 AM) and the shelver (michael). A red arrow points to the "Unshelve" icon in the top right corner.
- Files (3):** A list of files in the changelist, including Shape.java#5, SelectionTool.java#2, and SelectTransparencyTest.java.
- Task List:** A list of tasks from the Bugzilla repository. A red circle highlights task 12: "Can't select elements with partial transparency". A red arrow points to the "Activate" icon next to the task.
- Performance (Workspace):** A view showing the workspace structure, including the DiagramMakerTests package and the SelectTransparencyTest.java file.



Lindsay continues Michael's work

The screenshot shows an IDE with the following components:

- Package Explorer:** Shows the project structure with `DiagramMaker` and `DiagramMakerTests`. The `isValidShape(Shape) : boolean` method in `SelectionTool.java` is highlighted in red.
- Code Editor:** Displays the source code for `SelectionTool.java`. The `isValidShape(Shape shape)` method is highlighted in red and contains the following code:

```
public boolean isValidShape(Shape shape) {  
    return !shape.isTransparent();  
}
```
- Outline:** Shows the class structure with `isValidShape(Shape) : boolean` listed.
- Task List:** Lists bugs from the Bugzilla Repository, with bug 12, "Can't select elements with partial transparency", highlighted in red.
- Problems:** Shows the selected bug 12, "Can't select elements with partial transparency", with a red box around the title.
- Perforce (Workspace):** Shows the workspace structure, including the `SelectionTool.java` file.

The status bar at the bottom indicates the current file: `ui.tools.SelectionTool.isValidShape(Shape shape) : boolean - DiagramMaker/src`.



Lindsay submits change

Perforce Change Specification

Changelist: 37

Description:

Fixing bug 12: Can't select elements with partial transparency
http://10.0.101.101/cgi-bin/bugzilla3/show_bug.cgi?id=12

This required updating the logic in Sele

- SelectTransparencyTest
- SelectTransparencyTest.java
- SelectionTool
- SelectionTool.java

<Choose a template or previously entered description>

Files: (3/3 selected)

- //depot/DiagramMaker/src/core/element/Shape
- //depot/DiagramMaker/src/ui/tools/SelectionTool
- //depot/DiagramMakerTests/src/tests/ui/actions/SelectTransparencyTest.java <text> <add>

Reopen Files

Jobs:

Add Job(s)... Remove Job(s) Job status upon submit: closed

Cancel Submit

Package Explorer

- DiagramMaker [127.0.0.1:1666, lindsay_dev, lindsay]
- src
- core.element
- Shape.java #5/5 <text> <edit>
- ui.tools
- SelectionTool.java #2/2 <text> <edit>
- DiagramMakerTests [127.0.0.1:1666, lindsay_dev, lindsay]
- src
- tests.ui.actions
- SelectTransparencyTest.java #1/1 <text> <add>
- testMultiSelect.java #1/1 <text> <add>

Line

is not available.

< List

All Can't select elements with parti...

Uncategorized

Sprint 2 [Bugzilla Repository]

- 12: Can't select elements with partial transparency
- 14: Crash when saving diagram without enough files
- 15: Add gradient options to viewer toolbar
- 16: Add unit tests for shape tool
- 17: Add unit tests for connection tool
- 18: Add unit tests for selection tool
- 7: Add support for importing from http url
- 9: Create new icons for viewer toolbar

(default)



George the tester



1. Sees task notification
2. Inspects fix and tests it
3. Finds bug, attaches information
4. Reopens task

George receives task notification

The screenshot displays the Eclipse IDE interface. On the left, the Package Explorer shows the project structure for DiagramMaker and DiagramMakerTests. The central workspace is empty. On the right, the Task List window is open, showing a list of tasks from the Bugzilla repository. The task "12: Can't select elements with partial transparency" is highlighted with a red box. At the bottom of the IDE, the Problems window shows "No changes in 'Perforce (Workspace)'". A notification popup titled "Eclipse Notification" is visible in the bottom right corner, also highlighting the task "12: Can't select elements with partial transparency" and providing assignment and status information.

Package Explorer

- DiagramMaker [127.0.0.1:1666, george]
 - src
 - core.element
 - core.file
 - core.file.builder
 - core.util
 - ui.actions
 - ui.application
 - ui.editor
 - ui.editor.decoration
 - ui.editor.renderer
 - ui.tools
 - ui.wizards
 - ui.wizards.export
 - JRE System Library [J2SE-1.5]
 - images
- DiagramMakerTests [127.0.0.1:1666, g]
 - src
 - tests.core
 - tests.core.model
 - tests.ui.actions
 - tests.ui.editor
 - tests.ui.wizard
 - JRE System Library [J2SE-1.5]
 - JUnit 4

Task List

Find All Activate...

- Uncategorized
- Sprint 2 [Bugzilla Repository]
 - 12: Can't select elements with partial transparency
 - 14: Crash when saving diagram without enough filesystem space
 - 15: Add gradient options to viewer toolbar
 - 16: Add unit tests for shape tool
 - 17: Add unit tests for connection tool
 - 18: Add unit tests for selection tool
 - 7: Add support for importing from http url
 - 9: Create new icons for viewer toolbar
 - 13: Add ability to synchronize colors across grouped elements
 - 11: Support translating diagram format to SVG

Problems @ Javadoc Declaration Synchronize

Perforce (Workspace)
No changes in 'Perforce (Workspace)'.

Eclipse Notification

- 12: Can't select elements with partial transparency

Assigned to: michael@perforce.com -> lindsay@perforce.com
Status: NEW -> RESOLVED



George views changes to task

The screenshot displays an IDE interface with three main panels:

- Package Explorer:** Shows a project structure for 'DiagramMaker' and 'DiagramMakerTests'. The 'DiagramMaker' project includes a 'src' folder with sub-packages like 'core.element', 'core.file', 'ui.actions', and 'ui.editor'. 'DiagramMakerTests' includes a 'src' folder with sub-packages like 'tests.core' and 'tests.ui.wizard'.
- Task List:** Displays a list of tasks under 'Sprint 2 [Bugzilla Repository]'. The task '12: Can't select elements with partial transparency' is highlighted with a red box. It is a P1 bug assigned to 'lindsay@perforce.com' with an estimate of 1 hour. The status is 'NEW -> RESOLVED'. Other tasks include '9: Create new icons for viewer toolbar', '13: Add ability to synchronize colors across grouped elements', and '11: Support translating diagram format to SVG'.
- Problems:** Shows 'No changes in 'Perforce (Workspace)'.



George views sprint progress

The screenshot displays an IDE interface with the following components:

- Package Explorer:** Shows a project structure for 'DiagramMaker' and 'DiagramMakerTests'. The 'DiagramMaker' project includes a 'src' folder with sub-packages like 'core.element', 'core.file', 'ui.actions', etc. 'DiagramMakerTests' includes a 'src' folder with test packages like 'tests.core', 'tests.ui.actions', etc.
- Task List:** A window titled 'Task List' showing a 'Sprint 2 [Bugzilla Repository]' with a progress bar. The progress bar indicates 'Total: 10 (Complete: 1, Incomplete: 9)'. A list of tasks is shown below the bar, including '17: Add unit tests for connection tool', '18: Add unit tests for selection tool', '7: Add support for importing from http url', '9: Create new icons for viewer toolbar', '13: Add ability to synchronize colors across grouped elements', and '11: Support translating diagram format to SVG'.
- Problems:** A window titled 'Problems' showing 'Perforce (Workspace)' with the message 'No changes in 'Perforce (Workspace)'.'



George inspects task

The screenshot shows an IDE interface with several windows. On the left is the Package Explorer showing a project structure for 'DiagramMaker'. The central window displays a Bugzilla repository entry for bug 12, titled 'Can't select elements with partial transparency'. The bug is marked as 'RESOLVED FIXED' and was opened on Mar 30, 2010, and modified on Apr 2, 2010. The attributes section shows the following details:

Resolution:	FIXED	Platform:	All
Product:	DiagramMaker	OS:	All
Component:	UI	Version:	1.2
Priority:	P1	Severity:	major
Depends on (Subt...):		Blocks:	
URL:			
Keywords:			
Status Whiteboard:			
Sprint:	2		
Target Release:	2.0		

Below the attributes are sections for 'Team Planning', 'Private', 'Attachments (0)', and 'Description'. The 'Context' is set to 'Bugzilla'. On the right, the Task List window shows a list of tasks, with bug 12 selected. Other tasks include '14: Crash when saving diagram without enough filesystem space', '15: Add gradient options to viewer toolbar', '16: Add unit tests for shape tool', '17: Add unit tests for connection tool', '18: Add unit tests for selection tool', '7: Add support for importing from http url', '9: Create new icons for viewer toolbar', '13: Add ability to synchronize colors across grouped elements', and '11: Support translating diagram format to SVG'. The bottom of the IDE shows a 'Problems' window with the message 'No changes in 'Perforce (Workspace)'.



George synchronizes workspace

The screenshot displays an IDE interface with several panels:

- Package Explorer:** Shows a project structure for 'DiagramMaker' with sub-packages like 'core.element', 'ui.actions', and 'ui.wizards'. It also includes 'DiagramMakerTests' and 'JUnit 4'.
- Bugzilla Repository:** Displays a bug report for 'Bug 12: Can't select elements with partial transparency'. The status is 'RESOLVED FIXED', opened on Mar 30, 2010, and modified on Apr 2, 2010. The description states: 'If you enable any level of transparency for an element in your diagram than that item cannot be selected.' The reporter is Kevin Sawicki and the assignee is Lindsay Funke.
- Task List:** Lists various tasks, with '12: Can't select elements with partial transparency' selected.
- Problems:** A red box highlights a workspace synchronization issue: 'Change 37 lindsay@lindsay_dev { Fixing bug 12: Can't select ele... }'. The workspace path is 'DiagramMaker [127.0.0.1:1666, george_test, george]' and the file is 'Shape.java #5/6 <text><edit>'.



George inspects the fix

The screenshot displays an IDE interface with several panels:

- Package Explorer:** Shows a project structure for 'DiagramMaker' and 'DiagramMakerTests'.
- Task List:** Lists several bugs, with bug 12 'Can't select elements with partial transparency' selected.
- Submitted Changelist 37 (127.0.0.1:1666):** The central panel shows details for a submitted changelist:
 - Changelist:** 37
 - Workspace:** lindsay_dev
 - Date submitted:** 04/01/10 09:33 AM
 - Submitted by:** lindsay
 - Description:** Fixing bug 12: Can't select elements with partial transparency http://10.0.101.101/cgi-bin/bugzilla3/show_bug.cgi?id=12
 - Files (3):**
 - //depot/DiagramMaker/src/core/element/Shape.java#6
 - Shape
 - isTransparent()
 - //depot/DiagramMaker/src/ui/tools/SelectionTool.java#3
 - SelectionTool
 - isValidShape(Shape)
 - //depot/DiagramMakerTests/src/tests/ui/actions/SelectTransparencyTest.java#1
 - Jobs (0):** No jobs are listed.
- Performance (Workspace):** Shows a tree view of the workspace with 'Change 37 lindsay@lindsay_dev' selected, highlighting the 'src/core/element' and 'src/ui/tools' directories.



George runs unit tests

The screenshot displays an IDE interface with several key components:

- JUnit Results (Left):** Shows a successful test run for `tests.ui.actions.SelectTransparencyTest`. The test `testMultiSelection` passed in 0.005 seconds. A **Copy Trace** button is visible over the stack trace.
- Bugzilla Repository (Center):** Displays bug **12: Can't select elements with partial transparency**. The status is **RESOLVED FIXED**. The description states: "If you enable any level of transparency for an element in your diagram than that item cannot be selected." The reporter is Kevin Sawicki and the assignee is Lindsay Funke.
- Task List (Right):** A list of tasks for "Sprint 2 [Bugzilla Repository]". Bug 12 is highlighted as completed. Other tasks include adding unit tests for various tools and supporting SVG format.
- Bottom Panel:** Shows the workspace for "Perforce (Workspace)" with the message "No changes in 'Perforce (Workspace)'".



George adds stack trace to task

The screenshot shows an IDE interface with several windows:

- JUnit:** Shows test results for `tests.ui.actions.SelectTransparencyTest`. It indicates "Finished after 0.264 seconds" with 2/2 runs, 1 error, and 0 failures. The error is `testMultiSelection (0.005 s)`.
- Bugzilla Repository:** Displays bug #12, "Can't select elements with partial transparency". The status is "RESOLVED FIXED", opened on Mar 30, 2010, and modified on Apr 2, 2010. The description states: "If you enable any level of transparency for an element in your diagram than that item cannot be selected." A new comment is being added, containing a stack trace:

```
Unit test failure on Mac OS X Snow Leopard with following trace:  
  
java.lang.NullPointerException  
  at ui.tools.SelectionTool.isValidShape(SelectionTool.java:35)  
  at  
  tests.ui.actions.SelectTransparencyTest.testMultiSelection(SelectTransparencyTest.java:19)  
  at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)  
  at  
  sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
```
- Task List:** Lists several tasks, with #12 highlighted. Other tasks include #14 (Crash when saving diagram without enough filesystem space), #15 (Add gradient options to viewer toolbar), #16 (Add unit tests for shape tool), #17 (Add unit tests for connection tool), #18 (Add unit tests for selection tool), #7 (Add support for importing from http url), #9 (Create new icons for viewer toolbar), #13 (Add ability to synchronize colors across grouped elements), and #11 (Support translating diagram format to SVG).
- Failure Trace:** Shows the stack trace for the failed test:

```
java.lang.NullPointerException  
  at ui.tools.SelectionTool.isValidShape(SelectionTool.java:35)  
  at tests.ui.actions.SelectTransparencyTest.testMultiSelection(SelectTransparencyTest.java:19)
```



George builds context

The screenshot displays an IDE interface with three main panels:

- Package Explorer (Left):** Shows a project structure for 'DiagramMaker' and 'DiagramMakerTests'. The 'DiagramMakerTests' project contains a 'tests.ui.actions' package with a 'SelectTransparencyTest.java' file. The method 'testMultiSelection()' is highlighted.
- Bugzilla Repository (Center):** Displays a bug report titled '12: Can't select elements with partial transparency'. The status is 'RESOLVED FIXED', opened on 'Mar 30, 2010', and modified on 'Apr 2, 2010 11:54 AM'. The description states: 'If you enable any level of transparency for an element in your diagram than that item cannot be selected.' The 'New Comment' section contains a stack trace:

```
Unit test failure on Mac OS X Snow Leopard with following trace:  
  
java.lang.NullPointerException  
    at ui.tools.SelectionTool.isValidShape(SelectionTool.java:35)  
    at  
    tests.ui.actions.SelectTransparencyTest.testMultiSelection(SelectTransparencyTest.java:19)  
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)  
    at
```
- Task List (Right):** Shows a list of tasks under 'Sprint 2 [Bugzilla Repository]'. The selected task is '12: Can't select elements with partial transparency'. Other tasks include: '14: Crash when saving diagram without enough filesystem space', '15: Add gradient options to viewer toolbar', '16: Add unit tests for shape tool', '17: Add unit tests for connection tool', '18: Add unit tests for selection tool', '7: Add support for importing from http url', '9: Create new icons for viewer toolbar', '13: Add ability to synchronize colors across grouped elements', and '11: Support translating diagram format to SVG'.

The bottom of the IDE shows the 'Problems' panel with the message: 'Perforce (Workspace): No changes in 'Perforce (Workspace)'.'



George inspects task in Time-lapse View

The screenshot shows an IDE interface with several panels:

- Package Explorer:** Shows the project structure for DiagramMaker and DiagramMakerTests.
- Code Editor:** Displays the `isValidShape` method in `SelectionTool.java`. The code is:

```
public boolean isValidShape(Shape shape) {  
    return !shape.isTransparent();  
}
```
- Task List:** A list of tasks from a Bugzilla repository. Task 12, "Can't select elements with partial transparency", is selected and highlighted in blue.
- Revision Details:** Shows the commit information for the selected task:
 - Revision: `//depot/DiagramMaker/src/ui/tools/SelectionTool.java#3`
 - Date submitted: Thursday, April 1, 2010 9:33
 - Submitted by: lindsay
 - Workspace: lindsay_dev
 - Description: Fixing [bug 12](http://10.0.101.101/cgi-bin/bugzilla3/show_bug.cgi?id=12): Can't select elements with partial transparency
- Status Bar:** Shows "Perforce (Workspace)" and "No changes in 'Perforce (Workspace)'".



George reopens task and attaches context

The screenshot displays an IDE interface with several components:

- Package Explorer:** Shows a project structure with folders like `src`, `ui.tools`, and `DiagramMakerTests`. A file `SelectTransparencyTest.java` is highlighted.
- Bugzilla Repository:** A window titled "Bug 12: Can't select elements with partial transparency" is open. It shows a "New Comment" section with a stack trace:

```
java.lang.NullPointerException
  at ui.tools.SelectionTool.isValidShape(SelectionTool.java:35)
  at
  tests.ui.actions.SelectTransparencyTest.testMultiSelection(SelectTr
ansparencyTest.java:19)
  at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
  at
  sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImp
```

Below the trace are "Actions" (e.g., Reopen bug, Mark as VERIFIED) and "People" (Assigned to: Lindsay Funke, Reporter: Kevin Sawicki). The "Attach Context" checkbox is checked.
- Task List:** A list of tasks is shown, with "12: Can't select elements with partial transparency" selected. Other tasks include "14: Crash when saving diagram without enough filesystem space", "15: Add gradient options to viewer toolbar", etc.
- Bottom Panel:** Shows "Problems" with the message "No changes in 'Perforce (Workspace)'".



George takes screen shot and annotates

Package Explorer JUnit

DiagramMaker [127.0.0.1:1666, george_test, c

- src
 - ui.tools
 - SelectionTool.java #3/3 <text>
 - SelectionTool #3/3 <text>
 - isValidShape(Shape) : bo
- DiagramMakerTests [127.0.0.1:1666, george_

 - src
 - tests.core
 - tests.ui.actions
 - SelectTransparencyTest.java #2/
 - SelectTransparencyTest #2/
 - testMultiSelection() : voi

Attach Screenshot

Attachment Preview

Review the attachment before submitting

Diagram Maker

Always disabled when transparent shapes selected

Run in background

< Back Next > Cancel Finish



George attaches screenshot to task

The image shows a screenshot of an IDE interface with a dialog box titled "Attach Screenshot" in the foreground. The dialog box is titled "Attachment Details" and contains the following fields and options:

- File:** screenshot.png
- Description:** Disabled toolbar button when transparent shape selected
- Comment:** (Empty text area)
- Content Type:** image/png
- Patch
- Attach Context

At the bottom of the dialog box, there are four buttons: "?", "< Back", "Next >", "Cancel", and "Finish".

In the background, the IDE's Package Explorer shows a project structure with folders like "src" and "tests.ui.actions", and files like "SelectionTool.java" and "SelectTransparencyTest.java".



George views his changes to task

12: Can't select elements with partial transparency

Bug 12 Bugzilla Repository Submit

Can't select elements with partial transparency
Status: REOPENED Opened: Mar 30, 2010 Modified: Apr 2, 2010 12:41 PM

Attributes DiagramMaker / UI

Private

Attachments (2)

Name	Description	Size	Creator	Created
Task Context	mylyn/context/zip	2.21 KB	George Bluth <ge...>	Apr 2, 2010 12:35
screenshot.png	Disabled toolbar button wh	13.78 KB	George Bluth <ge...>	Apr 2, 2010 12:41

Attach... Attach Screenshot...

Description

Comments (3)

1: George Bluth, Apr 2, 2010 12:35 PM

2: George Bluth, Apr 2, 2010 12:35 PM
Created an attachment (id=2)
mylyn/context/zip

3: George Bluth, Apr 2, 2010 12:41 PM
Created an attachment (id=3)
Disabled toolbar button when transparent shape selected

New Comment

Actions Context Bugzilla People



Michael the developer



1. Sees task notification
2. Reviews George's information
3. Makes and tests a fix
4. Submits change

Michael sees reopened task

The screenshot displays the Eclipse IDE interface. On the left, the Package Explorer shows a project structure for 'DiagramMaker' and 'DiagramMakerTests'. The main editor area is empty. On the right, the Outline view shows 'An outline is not available.' Below it, the Task List view displays a list of tasks, with '11: Support translating diagram format to SV' selected. At the bottom, the Task Repositories view shows 'Local', 'Bugzilla Repository', and 'Eclipse.org'. A red-bordered notification box in the bottom right corner contains the following text:

Eclipse Notification

12: Can't select elements with partial transparency

Comment by George Bluth: attachment: Disabled toolbar but... (2 more)

Assigned to: michael@perforce.com -> lindsay@perforce.com



Michael views updated task

The screenshot shows a Bugzilla bug report for 'Bug 12: Can't select elements with partial transparency'. The bug is in a 'REOPENED' state, opened on Mar 30, 2010, and last modified on Apr 2, 2010 at 12:41 PM. The report includes a table of attachments, a description of the issue, and a stack trace comment.

Bug 12 Bugzilla Repository [Submit](#)

Can't select elements with partial transparency
Status: REOPENED Opened: Mar 30, 2010 Modified: Apr 2, 2010 12:41 PM

Attributes: DiagramMaker / UI
Private: Today

Attachments (2)

Name	Description	Size	Creator	Created
Task Context	mylyn/context/zip	2.21 KB	George Bluth <ge...	Apr 2, 2010 12:35
screenshot.png	Disabled toolbar button wh	13.78 KB	George Bluth <ge...	Apr 2, 2010 12:41

Attach... Attach Screenshot...

Description

If you enable any level of transparency for an element in your diagram than that item cannot be selected.

Comments (3)

1: George Bluth, Apr 2, 2010 12:35 PM
Unit test failure on Mac OS X Snow Leopard with following trace:

```
java.lang.NullPointerException
  at ui.tools.SelectionTool.isValidShape(SelectionTool.java:35)
  at tests.ui.actions.SelectTransparencyTest.testMultiSelection(SelectTransparencyTest.java:19)
  at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
  at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:39)
  at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)
  at java.lang.reflect.Method.invoke(Method.java:592)
  at junit.framework.TestCase.runTest(TestCase.java:168)
  at junit.framework.TestCase.runBare(TestCase.java:134)
  at junit.framework.TestResult$1.protect(TestResult.java:110)
  at junit.framework.TestResult.runProtected(TestResult.java:128)
  at junit.framework.TestResult.run(TestResult.java:113)
  at junit.framework.TestCase.run(TestCase.java:124)
  at junit.framework.TestSuite.runTest(TestSuite.java:232)
  at junit.framework.TestSuite.run(TestSuite.java:227)
  at org.junit.internal.runners.JUnit38ClassRunner.run(JUnit38ClassRunner.java:79)
  at org.eclipse.jdt.internal.junit4.runner.JUnit4TestReference.run(JUnit4TestReference.java:46)
```



Michael assigns task to himself

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

- Package Explorer:** Shows the project structure for `DiagramMaker` and `DiagramMakerTests`. The `DiagramMaker` project includes packages like `core.element`, `ui.actions`, and `ui.editor`. The `DiagramMakerTests` project includes `tests.core` and `tests.ui`.
- Bugzilla Repository:** The main window displays a task titled "12: Can't select elements with partial transparency". The status is "REOPENED", opened on Mar 30, 2010, and modified on Apr 2, 2010 at 12:46 PM. The task is assigned to "George Bluth <ge...>".
- Attachments Table:**

Name	Description	Size	Creator	Created
Task Context	mylyn/context/zip	2.21 KB	George Bluth <ge...>	Apr 2, 2010
screenshot.png	Disabled toolbar button wh	13.78 KB	George Bluth <ge...>	Apr 2, 2010
- Description:** "If you enable any level of transparency for an element in your diagram than that item cannot be selected."
- Task List:** A sidebar on the right shows a list of tasks. The task "12: Can't select elements with partial transparency" is highlighted with a red box and a red arrow, indicating it is the current task being viewed.
- Task Repositories:** A bottom panel shows the local repository and the Bugzilla Repository.



Michael activates task with George's context

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

- Package Explorer:** Shows a project structure with `DiagramMaker` and `DiagramMakerTests`. The `src` folder of `DiagramMaker` contains `ui.tools`, which includes `SelectionTool.java #3/3 <text>`. The `src` folder of `DiagramMakerTests` contains `tests.core` and `tests.ui.actions`, with `SelectTransparencyTest.java #2/2 <text>` and `SelectTransparencyTest #2/2 <text>` (containing `testMultiSelection() : void`) highlighted.
- Editor:** Displays the source code for `SelectionTool.java`. The code is as follows:

```
package ui.tools;

import java.awt.event.ActionEvent;

public class SelectionTool extends AbstractAction {

    /**
     * private static final long serialVersionUID = 1L;

    public SelectionTool() {}

    public void actionPerformed(ActionEvent e) {}

    private void select(Shape shape) {}

    public boolean isValidShape(Shape shape) {
        return !shape.isTransparent();
    }
}
```
- Outline:** Shows the class structure for `ui.tools`, including `SelectionTool #3/3 <text>` with its methods: `serialVersionUID : long`, `SelectionTool()`, `actionPerformed(ActionEvent) : void`, `select(Shape) : void`, and `isValidShape(Shape) : boolean`.
- Task List:** Lists tasks from a Bugzilla repository. A red arrow points to task `12: Can't select elements with partial trans`, which is currently selected.
- Problems:** Shows the repository configuration: `Local`, `Bugzilla Repository`, and `Eclipse.org`.

At the bottom of the IDE, the status bar indicates `Read-Only`, `Smart Insert`, and `1 : 1`.



Michael fixes bug

The screenshot shows an IDE interface with the following components:

- Package Explorer:** Shows a project structure with packages `DiagramMaker` and `DiagramMakerTests`. The `src` directory contains `ui.tools` and `tests.ui.actions`.
- Code Editor:** Displays the source code for `SelectionTool.java`. The `isValidShape` method is highlighted with a red box:

```
public boolean isValidShape(Shape shape) {
    if(shape != null) {
        return !shape.isTransparent();
    } else {
        return false;
    }
}
```
- Outline:** Shows the class structure of `SelectionTool`, including methods `actionPerformed`, `select`, and `isValidShape`.
- Task List:** Lists tasks from a Bugzilla repository, with the current task "12: Can't select elements with partial trans" selected.
- Problems:** Shows a workspace performance report for the selected task, indicating it is the default working changelist.

At the bottom of the IDE, there are status indicators for "Writable", "Smart Insert", and a timer showing "39 : 10".



Michael views failed unit test

The screenshot displays an IDE interface with the following components:

- Package Explorer:** Shows the project structure for `DiagramMaker` and `DiagramMakerTests`. The `tests.ui.actions` package is expanded, showing `SelectTransparencyTest.java #2/2` with a failed test `testMultiSelection() : void`.
- Code Editor:** Displays the source code for `SelectTransparencyTest.java`. The `testMultiSelection()` method is highlighted with a red box:

```
package tests.ui.actions;
import core.element.Rectangle;

public class SelectTransparencyTest extends TestCase {

    public void testSelection() {

    }

    public void testMultiSelection() {
        SelectionTool tool = new SelectionTool();
        Rectangle rect = new Rectangle(0, 0, 10, 10);
        tool.isValidShape(rect);
        tool.isValidShape(null);
    }
}
```
- Outline:** Shows the class structure, including `SelectTransparencyTest #2/2` with methods `testSelection() : void` and `testMultiSelection() : void`.
- Task List:** Lists tasks from a Bugzilla repository, with task `12: Can't select elements with partial trans` selected.
- Problems:** Shows a workspace error: `Can't select elements with partial transparency michael@michael_dev { Working changelist to fix 12 (A...) (default)`. The error is located in `src/ui/tools/SelectionTool.java #3/3`.
- Status Bar:** Shows `Read-Only`, `Smart Insert`, and the time `15:35`.



Michael reruns unit tests with fix

The screenshot shows an IDE interface with several panels:

- JUnit Runner:** Located in the top-left, it shows a successful test run. The status bar indicates "Finished after 0.265 seconds", "Runs: 2/1", "Errors: 0", and "Failures: 0". A red arrow points to the "testMultiSelection" test, which passed in 0.001 seconds. Below it, "Unrooted Tests" are listed with a duration of 0.215 seconds.
- Code Editor:** The central pane displays the source code for `SelectTransparencyTest.java`. The code defines a class that extends `TestCase` and implements two methods: `testSelection()` and `testMultiSelection()`. The `testMultiSelection()` method creates a `SelectionTool` instance and a `Rectangle` object, then calls `tool.isValidShape()` on both. The `testMultiSelection()` method is currently selected and highlighted in blue.
- Outline:** The top-right panel shows the project structure, including the package `tests.ui.actions` and the class `SelectTransparencyTest`. The `testMultiSelection()` method is highlighted in blue.
- Task List:** The bottom-right panel shows a list of tasks. The task "12: Can't select elements with partial trans" is selected and highlighted in blue.
- Problems:** The bottom panel shows the "Problems" view, which lists the task "12: Can't select elements with partial transparency michael@michael_dev" and its location in the workspace.



Michael submits fix

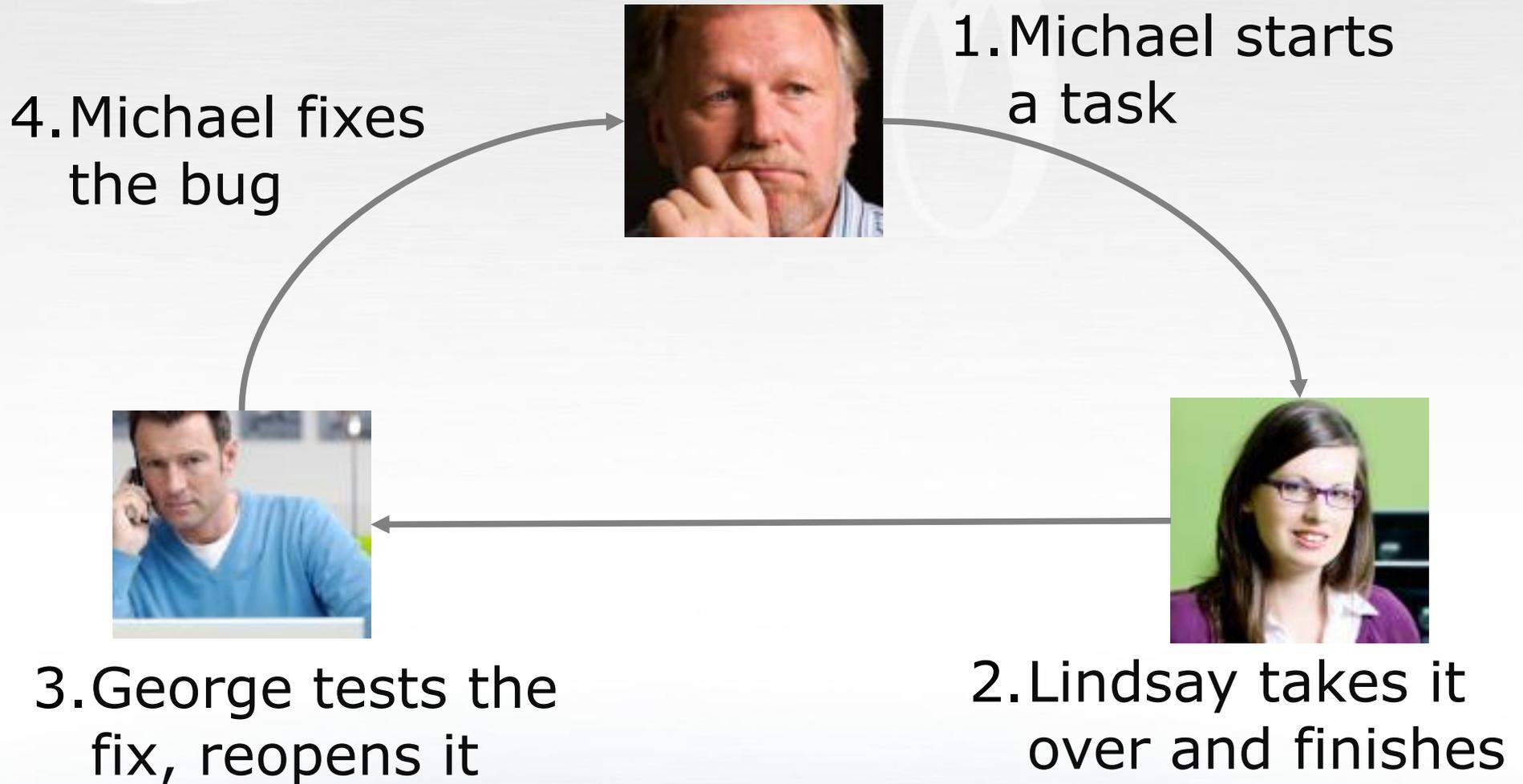
The screenshot shows an IDE window titled 'Java - DiagramMakerTests/src/tests' with a 'Perform Change Specification' dialog box open. The dialog box has a title bar 'Perform Change Specification' and a subtitle 'Changelist: 44'. It contains the following elements:

- Description:** A text area containing the text: 'REOPENED - bug 12: Can't select elements with partial transparency http://10.0.101.101/cgi-bin/bugzilla3/show_bug.cgi?id=12' and 'Check for null param in SelectionTool.isValidShape|'. A blue selection box highlights the first line.
- Files:** A list of files to be changed, with '1/1 selected'. The list includes: '//depot/DiagramMaker/src/ui/tools/SelectionTool.java #3/3 <text><edit>', 'SelectionTool', and 'isValidShape(Shape)'. Each file has a checked checkbox.
- Options:** A checkbox for 'Reopen Files' (unchecked), 'Select All' and 'Deselect All' buttons, and a 'Job status upon submit:' dropdown menu set to 'closed'.
- Jobs:** An empty text area for job details.
- Buttons:** 'Add Job(s)...', 'Remove Job(s)', 'Cancel', and 'Submit' buttons.

In the background, the IDE shows a Package Explorer with 'JUnit' tests, a Task List with 'Can't select elements w...', and a Bugzilla Repository view showing 'Michael's Sprint 2' with bug 12 highlighted.



Scenario



Summary

- Perforce with Eclipse and Mylyn provides task-focused interface
- Easily collaborate on tasks within Eclipse
- Achieve higher productivity and velocity



Thank you!

Q&A

We're available for the rest of the conference to discuss and demonstrate this in person.





Perforce
User Conference

2010