



Techniken der Projektentwicklung

Aufgabenstellungen zur Thematik der Präsentationstechniken

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2. Termin

Präsentationstechniken

Heute:

- 1 Aufgabenstellungen (Thema: Eclipse) für Kurzvorträge
- 2 Einführung in Präsentationstechniken
- 3 Gruppeneinteilung und Themenzuordnung

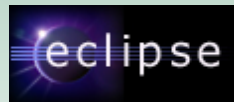
Nächstes Mal:

- Präsentation ausgewählter Kurzvorträge
- Dauer: ca. 15 Minuten
- Diskussion

Architektur der Werkzeugplattform Eclipse

Wichtige Schlüsselwörter

- Eclipse Ursprünge, Lizenzierung und Historie
- *Platform Runtime, Plug-In, Extension Points, SWT, Workbench, Workspace, ...*



Referenzen

- The Eclipse Whitepaper, eclipse.org
- Die Programmierumgebung Eclipse, Java Spektrum

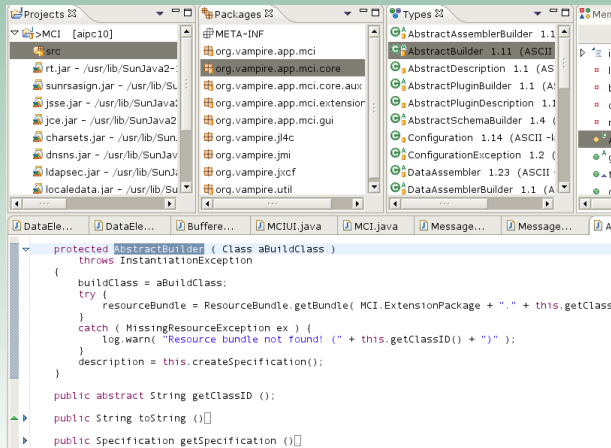
Java Perspektive(n)

Referenzen

- Java Development User Guide

Schlüsselwörter

- Java Views
- Java Browsing
- Project Builder
- Search
- ...



The screenshot displays an IDE interface with three main panes at the top: Projects, Packages, and Types. The Projects pane shows a project named 'MCI [aipc10]' with a 'src' folder containing various JAR files. The Packages pane shows a package structure for 'org.vampire.app.mci.core'. The Types pane lists several abstract classes and interfaces, including 'AbstractAssemblerBuilder 1.1', 'AbstractBuilder 1.11 (ASCII)', 'AbstractDescription 1.1 (AS', 'AbstractPluginBuilder 1.1 (A', 'AbstractPluginDescription 1.1', 'AbstractSchemaBuilder 1.4 (', 'Configuration 1.14 (ASCII-l', 'ConfigurationException 1.2 (', 'DataAssembler 1.23 (ASCII', and 'DataAssemblerBuilder 1.1 (A'. Below these panes, a code editor shows the implementation of the 'AbstractBuilder' class, which is a protected abstract class that throws 'InstantiationException' and has methods for building a class, getting a class ID, and getting a specification.

```

protected abstract Builder ( Class aBuildClass )
    throws InstantiationException
{
    buildClass = aBuildClass;
    try {
        resourceBundle = ResourceBundle.getBundle( MCI.ExtensionPackage + "." + this.getClass
    }
    catch ( MissingResourceException ex ) {
        log.warn( "Resource bundle not found! (" + this.getClassID() + ")" );
    }
    description = this.createSpecification();
}

public abstract String getClassID ();

public String toString (){}

public Specification getSpecification (){}

```

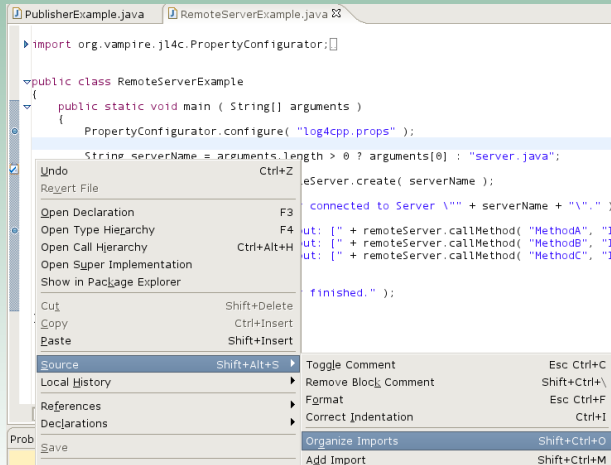
Der Eclipse Java Editor

Referenzen

- Java Development User Guide: Using the Java editor

Schlüsselwörter

- Content/code assist
- Code formatting
- Quick fix
- Templates
- ...



The screenshot shows the Eclipse IDE with two Java files open: PublisherExample.java and RemoteServerExample.java. The RemoteServerExample.java file is active, showing a class with a main method. A context menu is open over the line `String serverName = arguments.length > 0 ? arguments[0] : "server.java";`. The menu items include:

- Undo (Ctrl+Z)
- Revert File
- Open Declaration (F3)
- Open Type Hierarchy (F4)
- Open Call Hierarchy (Ctrl+Alt+H)
- Open Super Implementation
- Show in Package Explorer
- Cut (Shift+Delete)
- Copy (Ctrl+Insert)
- Paste (Shift+Insert)
- Source (Shift+Alt+S)
- Local History
- References
- Declarations
- Save
- Toggle Comment (Esc Ctrl+C)
- Remove Block Comment (Shift+Ctrl+\)
- Format (Esc Ctrl+F)
- Correct Indentation (Ctrl+I)
- Organize Imports (Shift+Ctrl+O)
- Add Import (Shift+Ctrl+M)

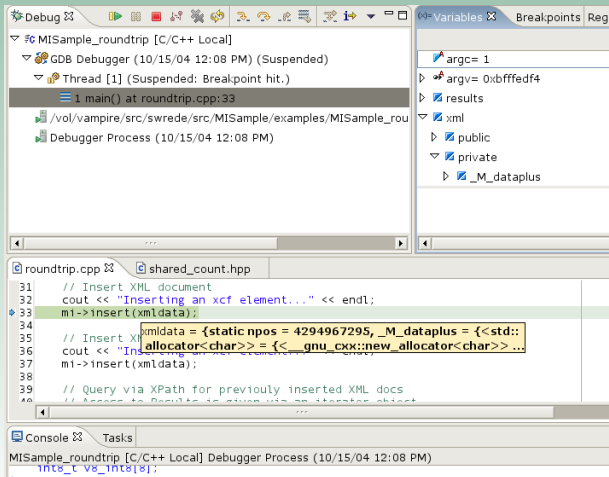
Debug Perspektive(n)

Referenzen

- Java Development User Guide: Debugger

Schlüsselwörter

- Debug View
- Launch config's
- Breakpoints
- Watches
- ...



Debug View

Variables

```

31 // Insert XML document
32 cout << "Inserting an xcf element..." << endl;
33 mi->insert(xmldata);
34
35 // Insert XML document
36 cout << "Inserting an xml element..." << endl;
37 mi->insert(xmldata);
38
39 // Query via XPath for previously inserted XML docs
40 // Access to Results is given via an iterator object
  
```

Console

```

MISample_roundtrip [C/C++ Local] Debugger Process (10/15/04 12:08 PM)
int8_t v8_int8[8];
  
```

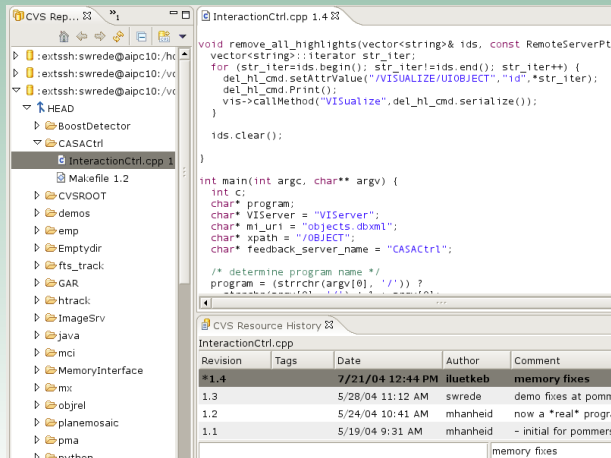
CVS Repository Exploring Perspektive

Referenzen

- Workbench User Guide: Team programming with CVS

Schlüsselwörter

- Repository locations
- CVS Basisfunktionen
- Resource history
- ...



The screenshot shows the CVS Repository Exploring (CVSRE) interface. On the left, a file tree displays the repository structure, including folders like 'CVSROOT', 'demos', and 'emp', and files like 'InteractionCtrl.cpp' and 'Makefile 1.2'. The main window displays the source code for 'InteractionCtrl.cpp 1.4'. The code includes a function 'remove_all_highlights' and a 'main' function. Below the code editor, a 'CVS Resource History' window is visible, showing a table of revisions for 'InteractionCtrl.cpp'.

| Revision | Tags | Date | Author | Comment |
|----------|------|------------------|----------|----------------------|
| *1.4 | | 7/21/04 12:44 PM | iluettek | memory fixes |
| 1.3 | | 5/28/04 11:12 AM | swrede | demo fixes at pomr |
| 1.2 | | 5/24/04 10:41 AM | mhanheid | now a *real* progr |
| 1.1 | | 5/19/04 9:31 AM | mhanheid | - initial for pommer |

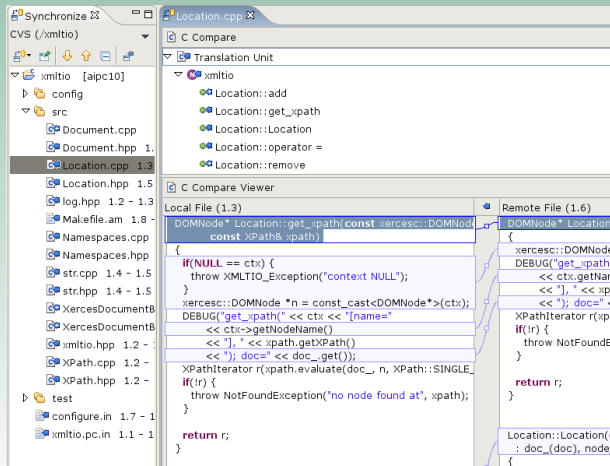
CVS Synchronize Perspektive

Referenzen

- Workbench User Guide: Team programming with CVS

Schlüsselwörter

- Synchronize View
- Comparing Resources
- Merging
- ...



The screenshot displays the Eclipse IDE in the CVS Synchronize perspective. On the left, the 'Synchronize' view shows a project tree for 'xmlio' with 'Location.cpp 1.3' selected. The main editor area shows a comparison between the local file (version 1.3) and the remote file (version 1.6). The code in the local file is highlighted in blue, and the code in the remote file is highlighted in light blue. The code is a C++ function 'DOMNode* Location::get_xpath(const xerces::DOMNode& xpath)'.

```

Local File (1.3)
DOMNode* Location::get_xpath(const xerces::DOMNode&
const XPath& xpath)
{
    if(NULL == ctx) {
        throw XMLTIO_Exception("context NULL");
    }
    xerces::DOMNode *n = const_cast<DOMNode*>(ctx);
    DEBUG("get_xpath(" << ctx << " (name="
        << ctx->getNodeName()
        << "], " << xpath.getXPath()
        << "]; doc=" << doc->get());
    XPathIterator r(xpath.evaluate(doc_, n, XPath::SINGLE
    if(!r) {
        throw NotFoundException("no node found at", xpath);
    }
    return r;
}

Remote File (1.6)
DOMNode* Location
{
    xerces::DOMNode
    DEBUG("get_xpath(
        << ctx.getNan
        << "], " << xp
        << "]; doc=" <<
    XPathIterator r(xp
    if(!r) {
        throw NotFou
    }
    return r;
}
Location::Location(
: doc_(doc), node,
{

```

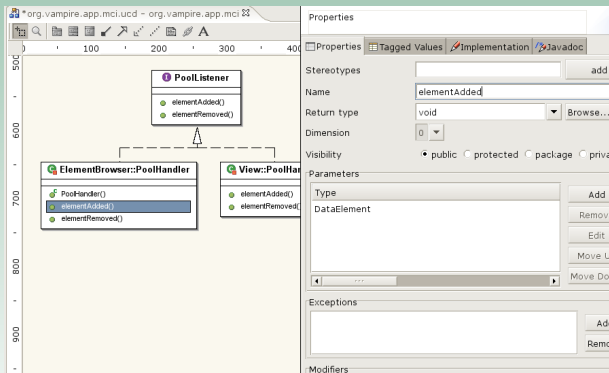

Das Omondo UML Studio Plugin

Referenzen

- Eclipse UML User Guide

Schlüsselwörter

- Plugin Architektur
- Code generation
- Reverse engineering
- ...



The screenshot displays the Eclipse UML Studio interface. The main workspace shows a UML class diagram with the following elements:

- PoolListener** (Interface):
 - Operations: `elementAdded()`, `elementRemoved()`
- ElementBrowser::PoolHandler** (Class):
 - Operations: `PoolHandler()`, `elementAdded()`, `elementRemoved()`
- View::PoolHandler** (Class):
 - Operations: `elementAdded()`, `elementRemoved()`

Relationships: `ElementBrowser::PoolHandler` and `View::PoolHandler` both implement `PoolListener` (indicated by dashed lines with hollow triangle heads).

The Properties window on the right is open to the 'Tagged Values' tab, showing the configuration for the `elementAdded` property:

- Name:** `elementAdded`
- Return type:** `void`
- Visibility:** `public`
- Parameters:** `DataElement`



Aufgabenstellung: Präsentationen zu Eclipse

Ziele dieser Präsentation

- Erkennen wichtiger Inhalte
- Informationstransfer im TdPE-Team
- Praktische Übung!

Rahmenbedingungen

- Vortrag in Gruppen mit 3 bis 4 Teilnehmern
- Dauer des Vortrags: ca. 15 Minuten
- Folien als PDF Dateien
- Abgabe: `/vol/tdpe/groupX/session2/teamY.pdf`
- Bis: Tag vorm nächsten Termin bis 12 Uhr Mittags



Zusammenfassung: Themen zur Werkzeugplattform Eclipse

Konzepte und Architektur

- 1 Architektur der Werkzeugplattform Eclipse

Perspektiven, Editoren und Views

- 2 Java Perspektive
- 3 Eclipse Java Editor
- 4 Debug Perspektive (Java)
- 5 CVS Repository Exploring
- 6 CVS Team Synchronize

Features und Plugins

- 7 Omondo UML Studio

