Extracting Source Code from E-Mails

Alberto Bacchelli, Marco D’Ambros, Michele Lanza
REVEAL @ Faculty of Informatics
University of Lugano
Program Comprehension
Analyzing the Evolution
Exploring the Source Code

Program Comprehension

Inspecting the Defects
Studying the Developers’ Interactions
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```c
#include "dos.h"
#include "win95.h"
#include "win98.h"
#include "sco_unix.h"

class WindowsVista extends WindowsXP implements Nothing {
}

int totalNewFeatures = 3;
int totalWorkingNewFeatures = 0;
float numberOfBugs = 345889E+08;
boolean readyForRelease = FALSE;

void main {
    while (!CRASHED) {
```
Hi Bob,
I have used swidget version add(LabelledLayout.getSeperator()); from org.argouml.uml.ui.LabelledLayout earlier and it worked fine.
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```

Could you help me, please?

Thanks,
Zoran
Lucene - Java

IndexReader overwrites future commits when you open it on a past commit

Created: Thursday 10:27 AM  Updated: Thursday 10:36 AM

Component/s: Index
Affects Version/s: None
Fix Version/s: 3.1.4.0

Time Tracking: Not Specified

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Here is the code I have implemented:

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Got the latest argo CVS, under Netbeans, with lots of screengrabs for other users, but I am getting a javax/makefile error.
This is the method:

add(super.getClass());

I'm using NB 3.3.3...win 98
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</tr>
<tr>
<td>Freenet</td>
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</tr>
<tr>
<td>JMeter</td>
<td>Feb 2001</td>
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<td>9,810</td>
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<tr>
<td>Mina</td>
<td>May 2007</td>
<td>18,565</td>
<td>12,869</td>
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<td>ArgoUML</td>
<td>Jan 2000</td>
<td>24,876</td>
<td>24,876</td>
<td>379</td>
</tr>
<tr>
<td>Freenet</td>
<td>Apr 2000</td>
<td>22,095</td>
<td>22,095</td>
<td>378</td>
</tr>
<tr>
<td>JMeter</td>
<td>Feb 2001</td>
<td>21,637</td>
<td>9,810</td>
<td>370</td>
</tr>
<tr>
<td>Mina</td>
<td>May 2007</td>
<td>18,565</td>
<td>12,869</td>
<td>374</td>
</tr>
<tr>
<td>OpenJPA</td>
<td>Oct 2006</td>
<td>14,992</td>
<td>6,328</td>
<td>363</td>
</tr>
<tr>
<td>System</td>
<td>Mailing Lists</td>
<td>Sample Size</td>
<td>Confidence level 95%</td>
<td>Error 5%</td>
</tr>
<tr>
<td>----------</td>
<td>---------------</td>
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<tr>
<td>ArgoUML</td>
<td>Jan 2000, 24,876, 24,876</td>
<td>379</td>
<td></td>
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</tr>
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<td>Freenet</td>
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</tbody>
</table>
Web application for e-mail annotation
## Benchmark

<table>
<thead>
<tr>
<th>System</th>
<th>Mailing Lists</th>
<th>Sample</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inception</td>
<td>E-Mails</td>
<td>Filtered</td>
<td>Size</td>
</tr>
<tr>
<td>ArgoUML</td>
<td>Jan 2000</td>
<td>24,876</td>
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**miler.inf.usi.ch/code**
I. E-mail classification - containing code
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    .makeKey("layout", "tabdocumentation"));

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Thanks,
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Could you help me, please?
Thanks,
Zoran
E-mail classification - on occurrences of keywords

F-Measure

Threshold

ArgoUML
JMeter
OpenJPA
Freenet
Mina
E-mail classification - on occurrences of keywords

**F-Measure**

![Graph showing F-Measure vs Threshold for different tools: ArgoUML, JMeter, OpenJPA, Freenet, Mina. The graph indicates the best threshold where F-Measure is maximized.](image-url)
E-mail classification - on occurrences of keywords

![Graph showing Precision, Recall, and F-Measure vs. Threshold]
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Zoran
E-mail classification - on frequency of special characters

F-Measure

Best Thresholds

ArgoUML

JMeter

Freenet

Mina

OpenJPA
E-mail classification - on frequency of special characters

- ArgoUML
- JMeter
- Freenet
- Mina
- OpenJPA

Best threshold: 0.25

F-Measure

Threshold
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Thanks,
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On 09-Oct-08, at 11:59 PM, Hans Schwaebli wrote:

Will you upgrade to JUnit 4 also? Would be nice.

SWTBot is independent of Junit, so technically it should work :)

If you're talking about PDE support for SWTBot, that's hard. I'm not sure if PDE supports junit 4. I'll be pushing for this in eclipse 3.5, though.

I just tried a sample junit test with SWTBot and things work great!

```java
public class FooTest {
    @Test public void thisFails() throws Exception {
        fail("\"\";
    }
    @Test public void pass() throws Exception {
    }
}
-- Ketan
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    }

    @Test public void pass() throws Exception {
    }

    -- Ketan
```
E-mail classification - on the end of lines

![Graph showing F-Measure vs Threshold for various software tools: ArgoUML, JMeter, Freenet, OpenJPA, and Mina. Each line represents a different tool, with F-Measure decreasing as the threshold increases.]
You may need to check it out from version control or save some changes to it.
Here is the stack trace:

org.openide.util.RequestProcessor$Holder: Posted StackTrace(task
org.netbeans.core.ModuleActions$1@7a1192 [-19220, 1, -1])

at org.openide.util.RequestProcessor.fillInStackTrace(RequestProcessor.java:300)
at java.lang.Throwable(Throwable.java:90)
at java.lang.Exception(Exception.java:38)
at org.openide.util.RequestProcessor(RequestProcessor.java:280)
at org.openide.util.RequestProcessor.createHolder(RequestProcessor.java:333)
at org.openide.util.RequestProcessor.post(RequestProcessor.java:100)
at org.openide.util.RequestProcessor.post(RequestProcessor.java:73)
at org.netbeans.core.ModuleActions.invokeAction(ModuleActions.java:123)

at org.openide.awt.Actions.invokeAction(Actions.java:390)
at org.openide.awt.Actions$ButtonBridge.actionPerformed(Actions.java:369)
at javax.swing.AbstractButton.actionPerformed(AbstractButton.java:1504)
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at org.openide.awt.Actions$ButtonBridge.actionPerformed(Actions.java:369)
at javax.swing(AbstractButton.java:1450)
at javax.swing(AbstractButton.java:1504)
E-mail classification - on the end of lines, plus regex

![Graph showing precision and recall for Freenet]

- Precision
- Recall
- Freenet
E-mail classification - on the end of lines, plus regex

<table>
<thead>
<tr>
<th>Library</th>
<th>1.0</th>
<th>0.8</th>
<th>0.6</th>
<th>0.4</th>
<th>0.2</th>
<th>0.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>ArgoUML</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freenet</td>
<td>1.0</td>
<td>0.8</td>
<td>0.6</td>
<td>0.4</td>
<td>0.2</td>
<td>0.0</td>
</tr>
<tr>
<td>JMeter</td>
<td>1.0</td>
<td>0.8</td>
<td>0.6</td>
<td>0.4</td>
<td>0.2</td>
<td>0.0</td>
</tr>
<tr>
<td>Mina</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OpenJPA</td>
<td>1.0</td>
<td>0.8</td>
<td>0.6</td>
<td>0.4</td>
<td>0.2</td>
<td>0.0</td>
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</tbody>
</table>
E-mail classification - on the end of lines, plus regex

<table>
<thead>
<tr>
<th></th>
<th>Recall</th>
<th>Precision</th>
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<tr>
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<td>0.92</td>
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<tr>
<td>Freenet</td>
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<tr>
<td>JMeter</td>
<td>0.96</td>
<td>0.91</td>
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<tr>
<td>Mina</td>
<td>0.80</td>
<td>1.00</td>
</tr>
<tr>
<td>OpenJPA</td>
<td>0.88</td>
<td>0.89</td>
</tr>
</tbody>
</table>
Hello
Got the latest argo CVS, under Netbeans, with lots of screengrabs for other users, but I am getting a javax/makefile error. This is the method:

```
add(super.getClass());
```

I'm using NB 3.3.3...win 98
Here's the stacktrace.

```
org.openide.util.RequestProcessor$Holder: Posted StackTrace (task
org.netbeans.core.ModuleActions$1@7a1192 [-19220, 1, -1])
at org.openide.util.RequestProcessor$Holder.fillStackTrace (RequestProcessor.java:300)
```

thanks
Denny
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Thanks,

Zoran
Line classification - on frequencies of special characters
Line classification - on frequencies of special characters

- Precision
- Recall
- Freenet

- Best Threshold
- Threshold = 1
Line classification - on frequencies of special characters

ArgoUML

Freenet

JMeter

Mina

OpenJPA

Chars Freqs, $T = 1$

Chars Freqs, $T = \text{Best}$
Line classification - on frequencies of special characters

<table>
<thead>
<tr>
<th>Software</th>
<th>Threshold</th>
<th>Recall</th>
<th>Precision</th>
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</thead>
<tbody>
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<td>0.11</td>
</tr>
<tr>
<td>Freenet</td>
<td>1</td>
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<td>0.05</td>
</tr>
<tr>
<td>JMeter</td>
<td>1</td>
<td>0.98</td>
<td>0.22</td>
</tr>
<tr>
<td>Mina</td>
<td>1</td>
<td>0.98</td>
<td>0.14</td>
</tr>
<tr>
<td>OpenJPA</td>
<td>1</td>
<td>0.95</td>
<td>0.16</td>
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Line classification - on frequencies of special characters

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<td>0.62</td>
<td>0.19</td>
</tr>
<tr>
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<td>5</td>
<td>0.40</td>
<td>0.17</td>
</tr>
<tr>
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Line classification - on the end of line, plus regex

- **ArgoUML**
- **Freenet**
- **JMeter**
- **Mina**
- **OpenJPA**

- **Chars Freqs, T = 1**
- **Chars Freqs, T = Best**
- **End of line, plus regex**
Line classification - on the end of line, plus regex

- **ArgoUML**: Recall 0.89, Precision 0.93
- **Freenet**: Recall 0.88, Precision 0.94
- **JMeter**: Recall 0.86, Precision 0.97
- **Mina**: Recall 0.84, Precision 0.90
- **OpenJPA**: Recall 0.73, Precision 0.93
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**ArgoUML**

- Chars Freqs, T = 1
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- End of line, plus regex
- Start and end of line, plus regex

**Freenet**

**JMeter**

**Mina**

**OpenJPA**
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</tr>
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</tr>
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</tr>
<tr>
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<tr>
<td></td>
<td>Recall</td>
<td>Precision</td>
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<td>----------</td>
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</tr>
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<td>0.93</td>
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</tr>
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</tr>
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</tr>
</tbody>
</table>

classification on the end of line, plus regex

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<thead>
<tr>
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import javax.swing.ImageIcon;

private static String orientation =
    Configuration.getString(Configuration
        .makeKey("layout", "tabdocumentation"));

//make new column with LabelledLayout
add(LabelledLayout.getSeperator());

    consequences = new UMLTextArea2(
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Could you help me, please?
Thanks,
Zoran
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private static String orientation = Configuration.getString(Configuration.makeKey("layout", "tabdocumentation"));

// make new column with LabelledLayout
add(LabelledLayout.getSeperator());

consequences = new UMLTextArea2(new UMLModelElementValue(DepthsArgo.CONSEQUENCES_TAG));
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Could you help me, please?
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Hi Bob,

I have used swidget version addLabelledLayout.getSeparator(); from org.argouml.uml.ui.LabelledLayout earlier and it worked fine. There is another class LabelledLayout in org.fgris.widgets that has method getSeparator(), but it also does not work. However, after transfer to new ArgoUML version there was no error in code, but elements were not arranged in two columns any more. Here is the code I have implemented:

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import javax.swing.ImageIcon;

private static String orientation =
    Configuration.getString(Configuration
        .makeKey("layout", "tabdocumentation"));

make new column with LabelledLayout
addLabelledLayout.getSeparator();

consequences = new UMLTextArea2(
    new UMLModelElementTypeValue(DepthsArgo.CONSEQUENCES_TAG));
```

Could you help me, please?

Thanks,

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Hi Bob,

I have used swidget version addLabelledLayoutSeparator(); from org.argouml.uml.LabelledLayout earlier and it worked fine. There is another class LabelledLayout in org.fugis.widgets that has method getSeparator(), but it also does not work. However, after transfer to new ArgoUML version there was no error in code, but elements were not arranged in two columns any more. Here is the code I have implemented:

```java
import javax.swing.ImageIcon;

private static String orientation =
    Configuration.getString(Configuration.makeKey("layout", "tabbedocumentation"));

constraints = new UMLTestArea2(new UMLModelElementValue(DepthsArgo.CONSEQUENCES_TAG));
```

Could you help me, please?

Thanks,
Zoran
Hi Bob,

I have used switch version addLabelledLayoutSeparator(); from org.argouml.uml.ui.LabelledLayout earlier and it worked fine.

There is another class LabelledLayout in org.fgns.widgets that has method getSeparator(), but it also does not work. However, after transfer to new ArgoUML version there was no error in code, but elements were not arranged in two columns any more. Here is the code I have implemented:

```java
import java.swing.ImageIcon;

private static String orientation = Configuration.getString(Configuration
    .makeKey("layout", "tab:documentation"));

// make new column with LabelledLayout
addLabelledLayoutSeparator();

consequences = new UMLTestArea2(
    new UMLModelElementValue(DepthsArgo.CONSEQUENCES_TAG));
```

Could you help me, please?

Thanks,

Zoran
Subject: Re: [argoumi-dev] Problem with LabelledLayout class
From: Zoran Jeremic (jerem_@yahoo.com)
Date: Jan 18, 2009 1:38:11 pm
List: org.argoumi.argoumi.dev

Hi Bob,

I have used swidget version addLabelledLayout getSeparator(); from org.argoumi.uml.ui.LabelledLayout which has method getSeparator(), but it also does not work. However, after transfer to new ArgoUML version there was no error in code, but elements were not arranged in two columns any more. Here is the code I have implemented:

```java
import javax.swing.ImageIcon;
private static String orientation = Configuration.getAttribute(Configuration.
    makeKey("layout", "tablodocumentation"));

// make new column with LabelledLayout
addLabelledLayout addLabelledLayout getSeparator();

// consequences = new UMLTestArea2;
// new UMLModelElementValue(DepthsArgo.CONSEQUENCES_TAG));

Could you help me, please?
Thanks,
Zoran
```

---

I. E-mail classification - containing code

II. Line classification - containing code

---

On 09-Oct-08, at 11:59 PM, Hans Schwabili wrote:

Will you upgrade to JUnit 4 also? Would be nice.

SWTBot is independent of JUnit, so technically it should work :) If you're talking about PDE support for SWTBot, that's hard. It's not sure if PDE supports junit 4. I'll be pushing for this in eclipse 3.5 though.

I just tried a sample junit test with SWTBot and things work great!

```
public class FooTest {
   @Test public void thisFails() throws Exception {
      fail(""");
   }
   @Test public void pass() throws Exception {
      
   }
}
```

-- Ketalan

---

Hello
got latest argo CVS, under Netbeans, with lots of screen grabs for other users, but I'm getting a java/makefile error. This is the method:

```
add(super.getClass());
```

I'm using NB 3.3.3... win 98
Here's the stack trace:

```
org.netbeans.util.RequestProcessor$Holder: Posted StackTrace
task
org.netbeans.core.ModuleActions$1@7f71192 (-19220_1_11) at org.netbeans.util.RequestProcessor$Holder.clinStack Trace
(RequestProcessor java 300)
```

thank
Denny
Hi Bob,

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```java
import javax.swing.ImageIcon;

private static String orientation = Configuration.getString(Configuration.makeKey("layout", "tabdocumentation"));

//make new column with LabelledLayout
add(LabelledLayout.getSeperator());

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Could you help me, please?
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Role of source code in e-mails
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