



software development with Eclipse 3.2

Stefan Marx, Marx-Consulting

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ZAIK, Uni Cologne



roadmap

- intro
- Eclipse: *The* tool for Java development
some standard features at a glance (HelloWorld)
- handling of larger projects with medium source
- amount of classes and resources
- excursion: JEE and JBI themes
- WSAD, RAD and all the plugins
- discussion



The IDE

- standard features for coding: class browsing, completion, debugging & testing
- perspectives (Java, Debug, version tracking, modelling)
- views (resources, object handling, models etc.)
- menus and handling as usual
- complete coverage of all operating systems functions over all platforms (Unices, Windows and Mac OS)



Package Explo... Hierarchy

- ▼ HelloWorld
 - ▶ com.marxconsulting.start
 - ▶ JRE System Library [JVM 1.4.2 (

```

package com.marxconsulting.start;

public class Main {

    /**
     * @param args array of strings
     */

    public static void main(String[] args) {
        // some trivial output
        System.out.println("Hello Eclipse 3.1!");

        Boolean b = Boolean.TRUE;

        if(b.equals(Boolean.TRUE)) {
            System.out.println("b ist wahr!");
        } else {
            System.out.println("b ist nicht wahr!");
        }
    }
}

```

Outline

- com.marxconsulting.s
 - ▼ Main
 - main(String[])

Problems Javadoc Declaration Console

```

Main [Java Application] /System/Library/Frameworks/JavaVM.framework/Versions/1.4.2/Home/bin/java (27.08.2005 16:14:46)
Hello Eclipse 3.1!
b ist wahr!

```



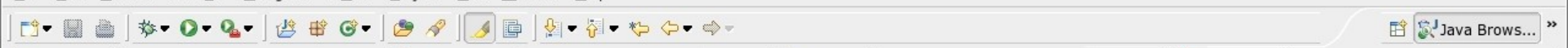
Eclipse and open source

- core three tier architecture tools:
JBoss, tomcat, struts & tiles, Java server pages
- programming tools:
ant, Junit, Java doc, zillion data base tools
- patterns and architectur:
Spring, Hibernate, JEE tooling
- advanced programming
RCP (rich client platform), plugin development
and eclipse enhancements
- the eclipse community at www.eclipse.org



plugins, plug-ins, plug-ins

- for example
<http://www.eclipseplugincentral.com>
- tremendous amount for nearly every purpose, lot's of them cpl'ed
- a uncomplete list from
<http://www.eclipse-magazin.de/plug-ins>



Projects

- poi
 - src/contrib/src
 - src/examples/src
 - src/java
 - src/scratchpad/src
 - src/scratchpad/testcases
 - src/testcases
 - commons-logging-1.0.1.jar

Packages

- org.apache.poi.hdf.data
- org.apache.poi.hdf.model

Types

- TestHDFDocument

Members

- import declarations
- TestHDFDocument(String)
- testStopJUnitComplainintAboutNoTests()
- fixme_testEmpty()
- fixme_testSimple()
- fixme_testSimpleList()
- fixme_testSimpleTable()

ReadTitle.java TestHDFDocument.java

```
package org.apache.poi.hdf.model;

import junit.framework.TestCase;

/**
 * Class to test HDFDocument functionality
 *
 * @author Bob Otterberg
 */
public class TestHDFDocument
    extends TestCase
{
    public TestHDFDocument( String name )
    {
        super( name );
    }

    public void testStopJUnitComplainintAboutNoTests()
        throws Exception
    {
    }

    /**

```

Console

<terminated> TestHDFDocument [Java Application] /usr/lib/jvm/java-1.4.2-sun-1.4.2.08/jre/bin/java (24.09.2005 17:07:28)

Time: 0.002

OK (1 test)



from Eclipse to RAD

- IDE market changes with a clear Eclipse direction (i. e. Borland, BEA, IntelliJ etc.)
- WSAD and RAD IDE tools are the clear leader in the application server market while beating BEA as a former top performer during the hype
- the IBM tooling goes far beyond (BPEL etc.)

.. all that didn't solve some non-tooling dilemma:

how to do it really right in software



Eclipse resources

- Jim D'Anjou, Scott Fairbrother, Dan Kehn, The Java Developers's Guide to Eclipse, Addison- Wesley, Boston, 2. 2005, 3- 8273- 2254- 5 (The one and only)
- www.eclipse.org
- www.java-magazin.de // Jax et al
- www.java-magazin.de
- www.ibm.com
- Java User Groups Cologne and the one in your home town