

# Herramientas Libres para Desarrollo de Aplicaciones en la Industria del Software

**Por  
Gustavo González**

# Contenido

- Introducción
- Tipos de Herramientas de Desarrollo
- Diseño y Modelamiento de Software
- Ambientes de Desarrollo (IDE)
  - Aplicaciones Web
  - Aplicaciones Stand-Alone
  - Aplicaciones Distribuidas
- Manejo de Versiones y Control de la Calidad (SQA)
- Conclusiones / Bibliografía / Preguntas

# Introducción

- Investigación sobre Recursos de Desarrollo en la Industria del Software:
  - Escasa / Discriminada
    - Academia / Industria
  - Dependiente del Mercadeo
  - Necesidades vs Paradigmas
    - No coinciden / Análisis deficiente

# Introducción

- Investigación sobre Recursos de Desarrollo en la Industria del Software:
  - Capacitación
    - Carga no deseable / Sin oferta especializada (Ej: GTK+ / Python)
  - Cientos de Lenguajes y Herramientas por explorar están destinadas al anonimato
  - La piratería es un “arte” muy cómodo
    - Ej: 3D Max, Adobe Flash, etc

# Tipos de Herramientas de Desarrollo

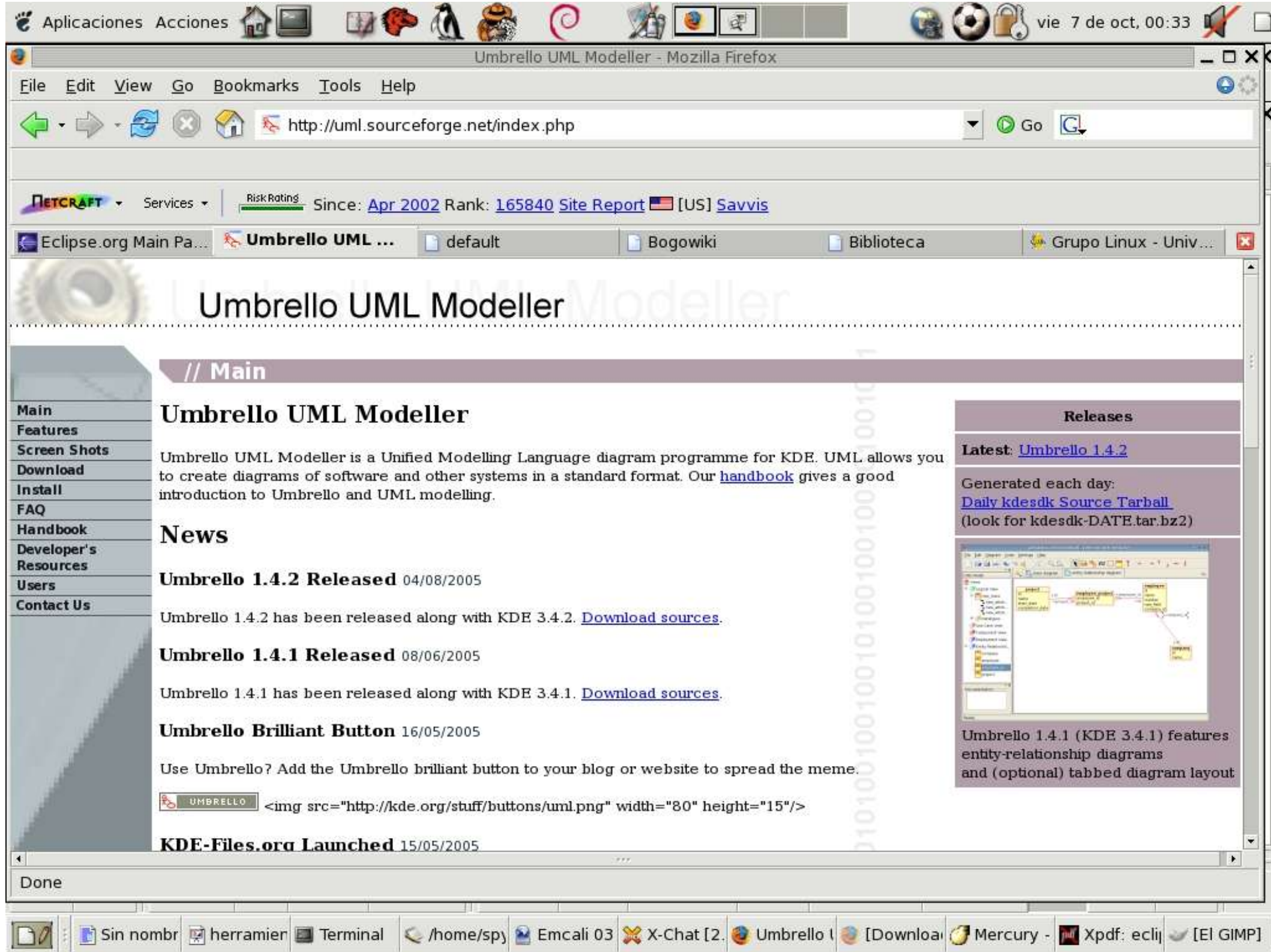
- Ciclo de Desarrollo / Paradigma
  - Análisis y Diseño
  - Implementación
    - Lenguajes de Programación
    - Persistencia (Bases de Datos)
  - Pruebas (SQA)
  - Mantenimiento / Admin Versiones

# Diseño y Modelamiento de Software

- Herramientas para:
  - Definir estructuras de datos
  - Definir Componentes de Software (Ej: Clases)
  - Construir Diagramas de Diseño / Flujo / Relaciones
  - Generar código **parcial**
  - Generar documentación sobre desarrollo

# Diseño y Modelamiento de Software

- **Umbrello** (<http://uml.sourceforge.net>)
  - Características:
    - Enfoque UML
    - Soporte Formato XMI
    - Generador de Código para PHP5
    - Generador de Diagramas E-R
    - Generador de Objetos a partir de Diagramas de Secuencia



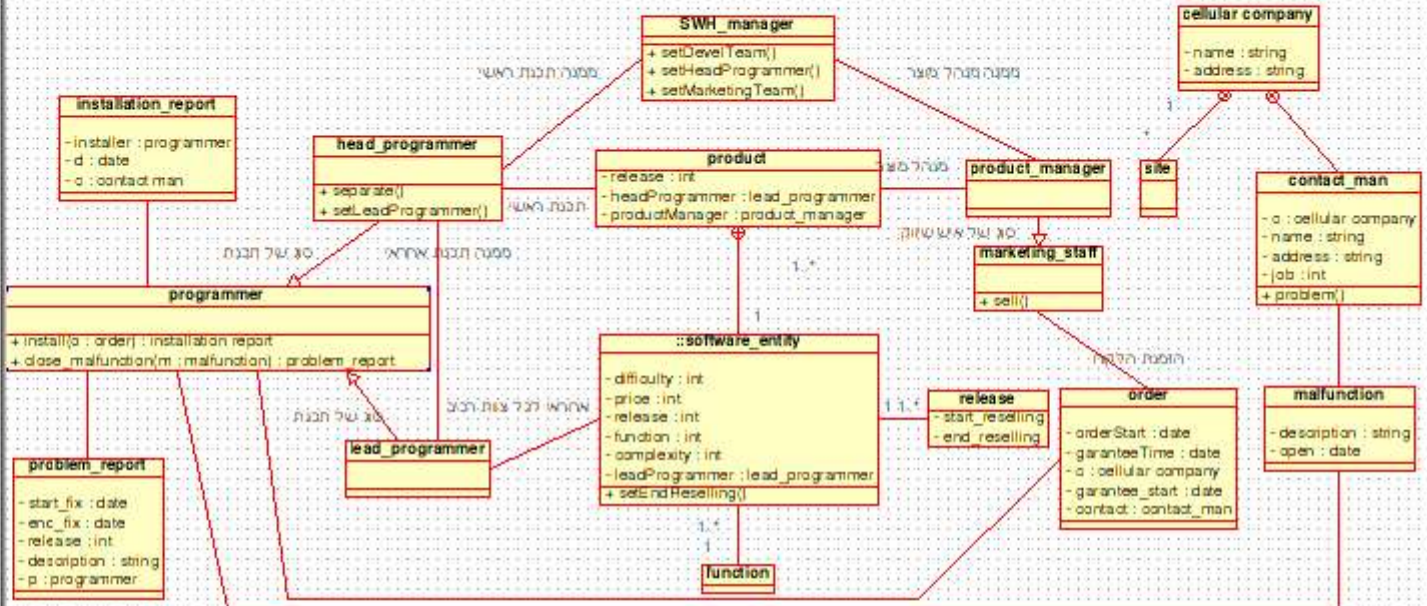


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UML Diagrams

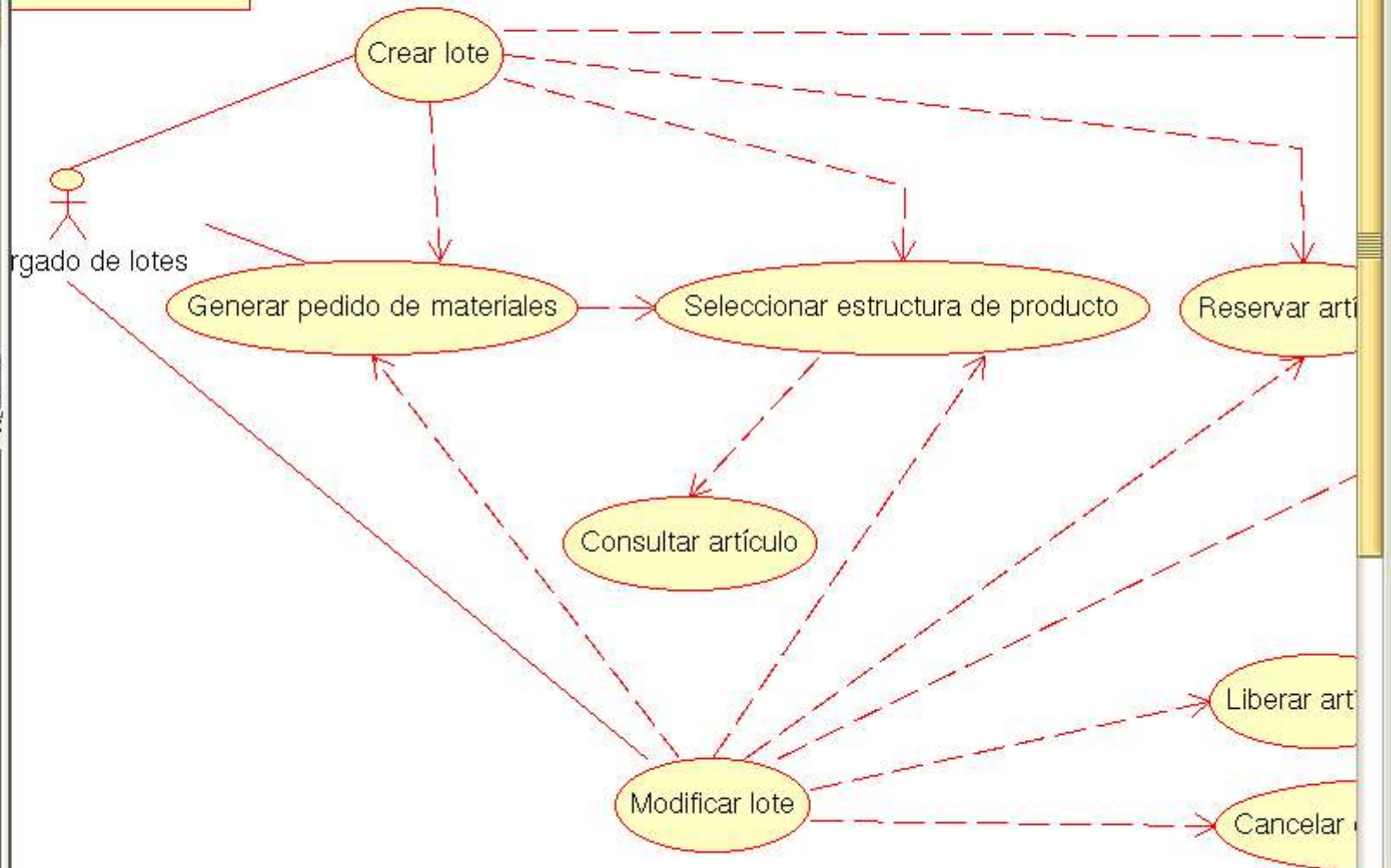
- Use Case View
- Gestión de inve...
- Manejo de Estr...
- Manejo de artíc...
- Manejo de inve...
- Manejo de lotes
- Manejo de prov...
- Encargado de c...
- Encargado de l...
- Encargado de p...
- Operario Pañol

Documentation

Manejo de lotes

Encargado de lotes

Manejo de lotes



# Ambientes de Desarrollo (IDE)

- Características:
  - IDE: Interface Development Environment
  - Ambiente Estructurado para la Implementación de Aplicaciones
  - Generalmente Enfocado a un tipo de Lenguaje o Paradigma (aunque hay excepciones).
  - En algunos casos, facilita el desarrollo de Interfaces de usuario (GUI)



# Ambientes de Desarrollo (IDE)

- Características:
  - Apoya el acceso fácil a información referente a funciones (API), variables, procedimientos
  - Corrige posibles errores léxicos, de sintaxis y semánticos (debug)
  - Invita al desarrollador a realizar una programación estructurada/ordenada

# Aplicaciones Web

- **Eclipse** (<http://www.eclipse.org>)
  - Características:
    - IDE para todo y para nada en particular (Ej: Java / PHP)
    - Multiplataforma (Arquitectura Java)
    - Soporte para toda la plataforma Java (Incluyendo Servlets y JSP)
    - Sistema de Plugins para múltiples funcionalidades especializados según el lenguaje.

Eclipse.org Main Page - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

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http://www.eclipse.org/

Go

NETCRAFT Services

Risk Rating

Since: May 1997 Rank: 2815 Site Report [CA] Eclipse Foundation

Mail :: INBOX

http://www.k...ws/firma.txt

eclipse plugins - Búsque...

Eclipse.org Main Page

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# eclipse.org

what's new

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eclipse 3.1 available now

Welcome to eclipse.org

→

Eclipse is an open source community whose projects are focused on providing an extensible development platform and application frameworks for building software. Eclipse provides extensible tools and frameworks that span the software development lifecycle, including support for modeling, language development environments for Java, C/C++ and others, testing and performance, business intelligence, rich client applications and embedded development. A large, vibrant ecosystem of major technology vendors, innovative start-ups, universities and research institutions and individuals extend, complement and support the Eclipse Platform.

Find out what eclipse is all about - check out the [Eclipse Roadmap](#), [white paper](#), read some technical [articles](#), visit the [newsgroups](#), take a look at the [projects](#), and pick up the latest [downloads](#). Don't forget to check out the [Eclipse Project FAQ](#) and [online documentation](#). You can find out about eclipse-related events, projects, plug-ins and websites on the [Community](#) page. For software licensing, website terms of use, and legal FAQs, please see our [legal stuff](#) page. Eclipse logos and graphics are found on our [logos](#) page. And, our [thanks to HP, IBM, Intel, Magma and Novell](#) for generous donations to our website infrastructure!

What's New

Done

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Terminal

Eclipse.org Main F

Downloads

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[El GIMP]

[eclipse.jpg-1.0 (P



Eclipse plugin resource center and marketplace for Eclipse and Plugin Ecosystem :: Eclipse Plugin Central - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

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http://www.eclipseplugincentral.com/

Go

NETCRAFT Services http://www.eclipseplugincentral.com..

Mail :: INBOX http://www.k...ws/firma.txt eclipse plugins - Búsque... Eclipse.org Main Page Eclipse plugin resour...

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Plugin Directory

Marketplace

Forums

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Active Visitors: 1059

Eclipse Plugin Resource Center and Marketplace

Eclipse Plugin Central (EPIC) offers the Eclipse community and users of IBM WebSphere Studio application development environments (WSAD, WSSD, WSED, etc.) a convenient, information-rich portal that helps software developers find open source and commercial Eclipse plug-ins, tools, and products that enhance the entire Java software development life-cycle.

Eclipse Headlines

**Legacy Composer Announced - Integration Plugin**

RED OAK SOFTWARE ANNOUNCES AVAILABILITY OF LEGACY COMPOSER - ECLIPSE EDITION FIRST COMMERCIAL LEGACY APPLICATION INTEGRATION SOLUTION BUILT AS ECLIPSE PLUGIN DELIVERS SUPERIOR FLEXIBILITY AND ENHANCED BENEFITS [more details](#)

**Classpath Helper project announces Beta Release**

The Classpath Helper project is pleased to announce its Eclipse Beta (0.9) release. [more details](#)

**Dynamic Java PDF library for java Platform**

<http://www.elegantjpdf.com> [more details](#)

More Eclipse News

Progress adds Eclipse, ESB link to apps ...  
Nokia gets more firmly behind Eclipse  
M7 Introduces NitroX Studio - Hibernate, ...  
ULC Visual Editor 4.0 released  
Ezweb for developing dynamic Web sites w ...  
DB Visual Architect 2.0 for Eclipse (200 ...  
IAB Studio, RIA Platform for Eclipse.  
MyEclipse 4.0 GA - The New Standard for ...  
JasperAssistant 2.0.0 for JasperReports ...  
The EclipseVoice Tools Project  
BFO boosts its portfolio with Java PDF V ...  
Eclipse Foundation Announces CDT 3.0

[News Archive](#) | [Tonics](#)

Eclipse Shop

**Featured Plugin**

DbFarmer

**DbFarmer**  
In a short, you can regard dbfarmer as a excellent database tool, it support the following database: Oracle 8.1.x(+) DB2 Universal 7.x(+) MS SQL ...

**Classified**

**Forum Discussions**

**Tomcat For Eclipse**  
Hi  
I'm using Eclipse 3.1, Tomcat 5.5.9, JDK

Done

Sin nombre1

Emcali 01:04

Terminal

Mercury - Jhc

X-Chat [2.0.9]

Eclipse plugin

Downloads

Skype™ - xti

[El GIMP]



Java - Eclipse Platform

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer

Übung 1

Übung 2

Übung 3 - a

src

de.oio.schulung.ejb.client

de.oio.schulung.ejb.eb

Account.java

AccountBean.java

AccountHome.java

de.oio.schulung.ejb.util

JRE\_LIB - C:\java\jdk1.3\jre\lib\rt.jar

concurrent.jar

gnu-regexp.jar

jaas.jar

jacorb.jar

jboss-client.jar

jboss-common-client.jar

jboss-iop-client.jar

jboss-j2ee.jar

jboss-jsr77.jar

jboss-net-client.jar

jboss-system-client.jar

jbossha-client.jar

jbossmq-client.jar

jbossmqha.jar

jbossx-client.jar

jcrt.jar

jmx-connector-client-factory.jar

jmx-ejb-connector-client.jar

jmx-rmi-connector-client.jar

jnet.jar

jnp-client.jar

jsse.jar

log4j.jar

build

metadata

de.oio.schulung.ejb.eb

AccountBean.java

package de.oio.schulung.ejb.eb;

import javax.ejb.CreateException;

import javax.ejb.EntityBean;

import javax.ejb.EntityContext;

import de.oio.schulung.ejb.util.InsufficientBalanceException;

public abstract class AccountBean implements EntityBean {

// abstract getter und setter fuer CMP Attribute (EJB 2.0)

public abstract String getAccountId();

public abstract void setAccountId(String accountId);

public abstract int getBalance();

public abstract void setBalance(int balance);

// Business Methoden

public void debit(int value) throws InsufficientBalanceException {

if (getBalance() > value) {

setBalance(getBalance() - value);

} else {

throw new InsufficientBalanceException();

}

}

public void credit(int value) {

setBalance(getBalance() + value);

}

// EJB Methoden

public String ejbCreate(String accountId) throws CreateException {

Outline

de.oio.schulung.ejb.eb

import declarations

javax.ejb.Create

javax.ejb.Entity

javax.ejb.Entity

de.oio.schulung.

AccountBean

getAccountId()

setAccountId(Str

getBalance()

setBalance(int)

debit(int)

credit(int)

ejbCreate(String

ejbPostCreate(S

setEntityContext

ejbActivate()

ejbPassivate()

ejbRemove()

ejbLoad()

ejbStore()

unsetEntityCont

Tasks (0 items)

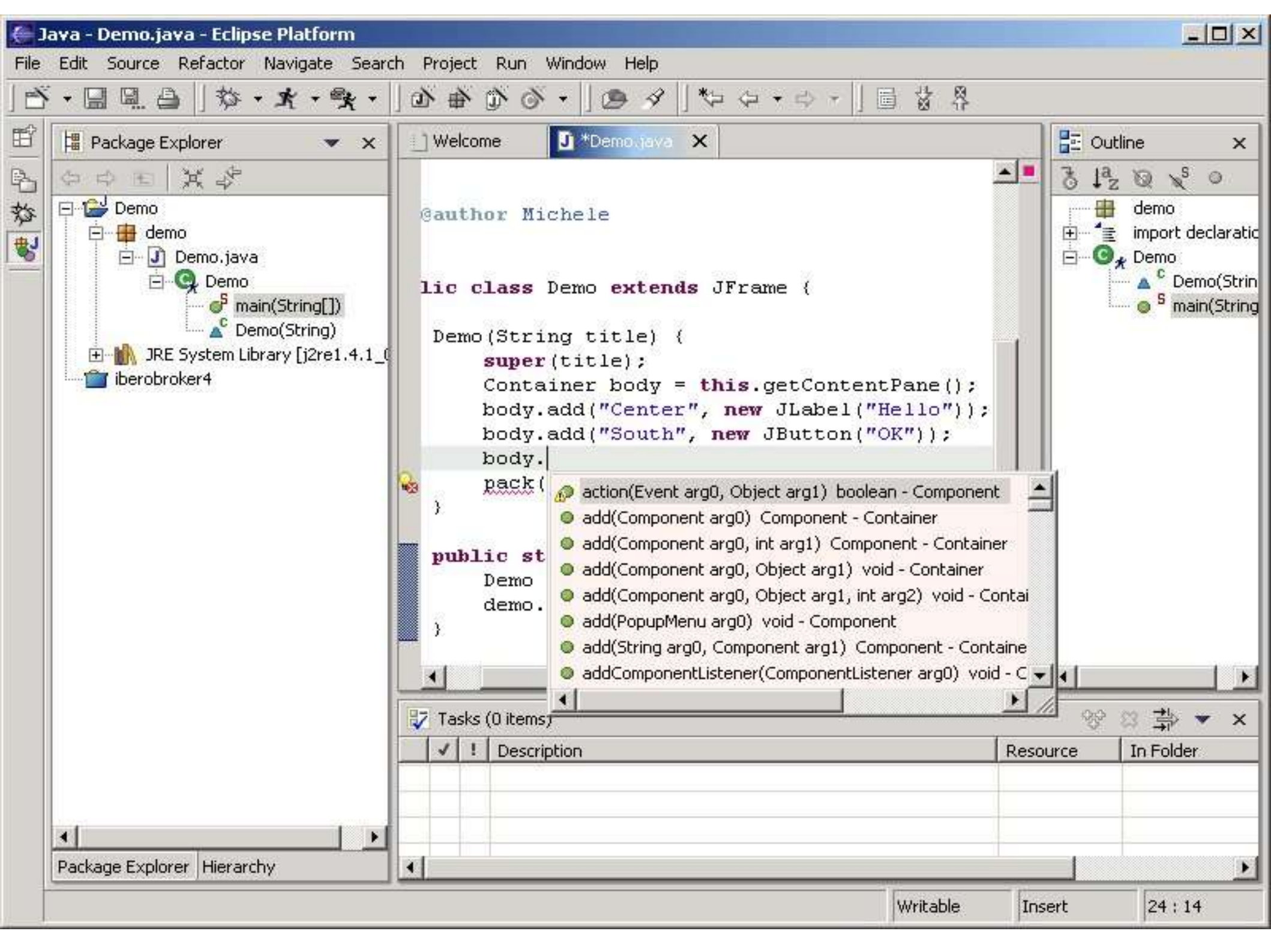
C	!	Description	Resource	In Folder

Package Explorer Hierarchy

Tasks Log Console Console

Writable Insert 7 : 1







# Aplicaciones Web

- **Quanta** (<http://kdewebdev.org>)
  - Características:
    - Ambiente Enriquecido de Desarrollo Web (CSS, XML, XHTML, HTML, PHP)
    - Funcionalidades extensibles a partir de scripts y de archivos XML
    - Plataforma: KDE/Unix
    - Conexión directa a archivos remotos (FTP/SSH)
    - Compatible con servidores de versiones



# KDE Web Dev

## Main KDE Web Dev

Main  
About  
FAQ  
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Links  
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Developer

## Application Areas

Quanta Plus  
Kommander  
KXSL Debug  
KImageMapEditor  
KFileReplace  
KLinkStatus  
Kallery

## Mailing Lists

## Welcome to KDE Web Dev

This site is the home of the kdewebdev module application pages. These applications are listed to the left. We have developed kdewebdev to be a suite of applications that can help to make your work and play a rich and enjoyable experience. Whether you are designing web pages, database back ends, XML document creation or extensive scripting, even if you are looking to create small desktop applications or integrate or extend your desktop, there is something here for you here. This project is our passion and our users have conveyed to us that they have been a source of joy for them too. We hope you find a rewarding experience here.

## 4 Current News Items

**Kommander Mailing List Back Up** Sep 28, 7:03  
This is where to get help using Kommander. The list configuration was lost so you need to re-subscribe now if you were on the list and not already re-subscribed.  
Posted by: Eric Laffoon

**Report from aKademy** Sep 02, 2:25  
Want to know what is happening with Quanta at aKademy? Read on, but we also need to ask for funds, so... how much would you pay for HTML quote handling in PHP? ;-)  
Read all About it  
Posted by: Eric Laffoon



Document Structure

- Selectors [CSS]
  - h1.big
  - h1.small
- Resources (link) [XHTML 1.0 Transitional]
  - demo.css
- Links (anchor) [XHTML 1.0 Transitional]
  - demo.txt
- Document Structure
  - XML PI block
    - version="1.0" encoding="utf-8"
  - DTD block
    - DOCTYPE html PUBLIC "-//W3C//DT
  - html
    - head
      - title
        - Demo page
      - meta
      - meta
      - meta
      - link
    - style
      - h1.big {
        - background-color : #eb0105;
      - h1.small {
        - background-color : #eb0105; col
    - body
      - h1
        - Demo
          - href demo.txt
            - page

## Standard Style Tables Lists Forms Other Useful Scripts

```

1 <?xml version="1.0" encoding="utf-8"?>
2 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
  Transitional//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.d
  t">
3 <html xmlns="http://www.w3.org/1999/xhtml">
4
5 <head>
6   <title>Demo page</title>
7   <meta name="GENERATOR" content="Quanta Plus" />
8   <meta name="AUTHOR" content="KdeWebDev Team" />
9   <meta http-equiv="Content-Type" content="text/html;
10   charset=utf-8" />
11   <link rel="stylesheet" type="text/css"
12   href="demo.css" />
13 </head>
14 <style>
15   h1.big {
16     background-color : #eb0105;
17     color : #69f423;
18     font-size : 4em;
19     font-style : italic;
20   }
21   h1.small {
22     background-color : #eb0105;
23     color : #69f423;
24     font-size : 2em;
25     font-style : italic;
26   }
27 </style>
28 <body>
29   <h1 class="small">Demo <a
30   href="demo. big
31   small
32   /h1>

```

demo.html

Current tag: h1

Attribute Name	Value
Parent tags	body
Namespace	prefix
Attributes	align
Script	onkeyup onkeydown onkeypress onmouseout onmousemove onmouseover onmouseup onmousedown ondblclick onclick
l18n	dir xml:lang lang
Core	title style class id





Standard Style Tables Lists Forms Other Useful Scripts

B I U P nb

```
13 {
14 }
15
16 function qmyClass_method1(int i, int j)
17 {
18     $this->
19 }
20 }
21
22 function qmyFunction(int i, int j)
23 {
24 }
25
26
27 $q = new qmyClass;
28 $f = new foo ;
29 $f2 = new foo2 ;
30 $f3 = new foo3 ;
31 $f_base = new foo_base;
32 $f_included = new includedClass;
33
34 $f->
35 $f2->
36 $f3->
37 $f_base->
38 $q->
39 $x->
40 $f_included->
41 ?>
```

test.php

include

includedClass\_ctor

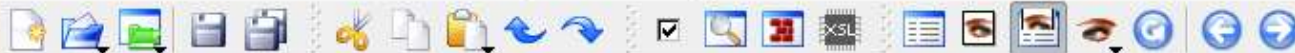
includedClass\_method1

includedClass\_method2

INS

\*

Line: 40 Col: 15



Project Files	Description
kdewebdev-all [local disk]	file:///usr/local/data/de...
+ developer	
+ kallery	
+ kfilereplace	
+ kimagemapeditor	
+ klinkstatus	
+ kommander	
+ kxsldb	
- public_html	Document Base Folder
+ css	
+ docs	
+ images	
- include	
appmenu.php	Application menus
base.inc.php	
common.inc.php	
faq.inc.php	FAQ generator
func.inc.php	
left.inc.php	Left area menus
releases.inc.php	
+ test	
about.php	
applib.php	
donate.inc.php	

Standard Style Tables Lists Forms Other

## Support Quanta using PayPal

### New e-gold optio

**Your contribution makes a difference.** The Quanta project incurs real e: full and part time developers who can work for substantially lower costs. Th difference in what we have delivered. We also invite you to support o Kitty Hooch™.

```
<div class="inMain hatch">
  <!-- content header bar -->
  <div class="mainHead">Welcome to KDE Web Dev</div>
  <dl>
    <dt>.....
  <h2>Support Quanta using PayPal </h2>
  <h3>New <A href="#egold">e-gold</A> optio
    </h3>
  <p><b><span class="firstchar">Y</span></b>our contribution
    makes a
    difference.</b> The Quanta project incurs real expense
    sponsoring full and part time developers who can work
    for substantially lower costs. This has made a huge
    difference in what we have delivered. We <!-- also have
```

demo.html demo.css about.php donate.php

# Aplicaciones Web

- **NVU** (<http://www.nvu.com>)
  - Características:
    - Web Authoring System
    - Basado en el Composer de Mozilla
    - Orientado al diseño Web (comparado con DreamWeaver)
    - Enfocado a usuarios finales (WYSIWYG)
    - Portable a diferentes plataformas pero enfocado a sistemas GNU/Linux



Nvu - The Complete Web Authoring System for Linux, Macintosh and Windows - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

Go

http://nvu.com/

NETCRAFT

Services

Risk Rating

Since: Nov 1997 Rank: 21090 Site Report [US] Verio, Inc.

Eclipse.org Main Page

Ruby on Rails

Nvu - The Complete Web Au...

< NVU >

[Home](#) | [Screenshots](#) | [Developers](#) | [Downloads](#) | [FAQ](#) | [Support](#) | [About Nvu](#)

English

Francais

Italiano

Nederlands

Deutsch

Svenski

Polski

Español

Catalan

<html>

<head>

<title>

The complete

Web Authoring System

for Windows, Mac & Linux

</title>

</head>

Nvu

Finally! A complete Web Authoring System for Linux Desktop users as well as Microsoft Windows and Macintosh users to rival programs like **FrontPage** and **Dreamweaver**.

Nvu (pronounced N-view, for a "new view") makes managing a web site a snap. Now **anyone** can create

Linspire

Proud Lead Sponsor


☒ Tree view

**+ Sales**



SeaWorld  
San Antonio

### Trainer for a Day

 Preview

```
<body> <table> <tbody> <tr> <td>
```




# Aplicaciones StandAlone


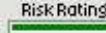
- **Glade** (<http://glade.gnome.org>)
  - Características:
    - Desarrollo de Interfaces de Usuario (GUI)
    - Plataforma: C++ / Gtk+ / Gnome
    - La lógica de las acciones debe ser generada por el programador.
    - Las interfaces son exportadas como archivos XML y cargadas dinámicamente a través de la arquitectura de Gnome.




Glade User Interface Builder - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

 http://glade.gnome.org/  

 Services  Since: [Feb 2002](#) Rank: [151271](#) [Site Report](#) [US] [Red Hat, Inc.](#)

Eclipse.org Main Page glade.png (PNG Image, 6... Glade User Interface... IMDb Search Leyenda de una canción

 [Home](#) · [Screenshots](#) · [Download](#) · [History](#) · [Future](#) · [Mailing Lists](#) · [Links](#) · [Applications](#)

# Glade - a User Interface Builder for GTK+ and GNOME

Glade is a free user interface builder for [GTK+](#) and [GNOME](#), released under the [GNU GPL License](#).

The user interfaces designed in Glade are saved as XML, and by using the [libglade](#) library these can be loaded by applications dynamically as needed. (Glade can also generate C code, though this isn't recommended for large applications.)

By using libglade, Glade XML files can be used in numerous programming languages including C, C++, Java, Perl, Python, C#, Pike, Ruby, Haskell, Objective Caml and Scheme. Adding support for other languages is easy too.

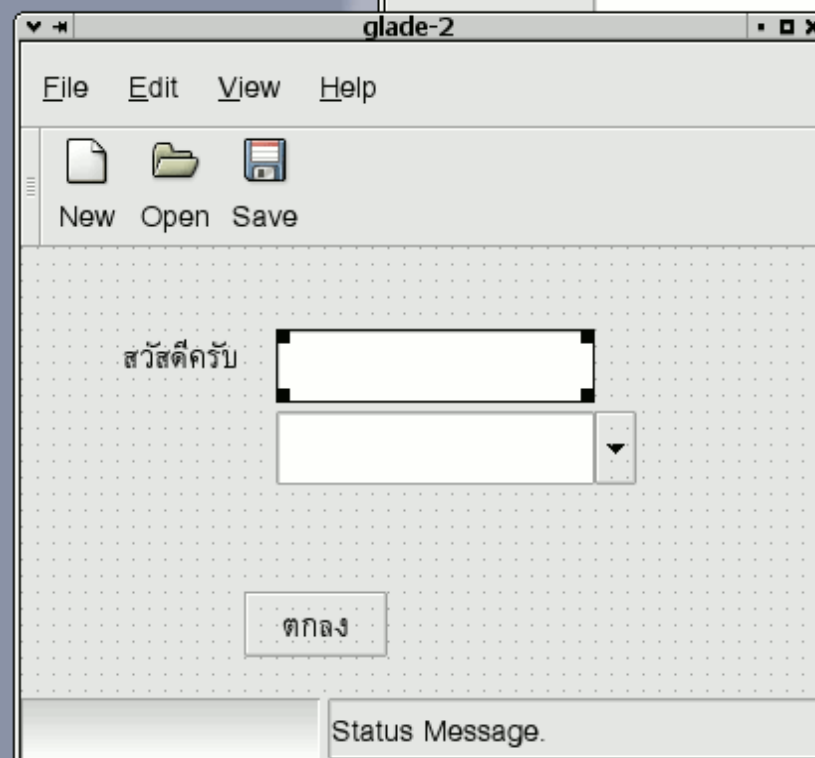
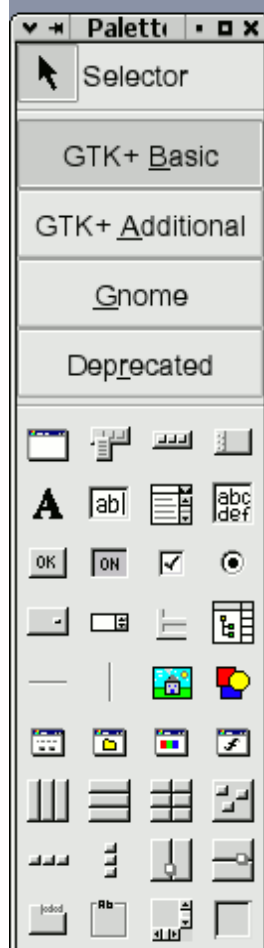
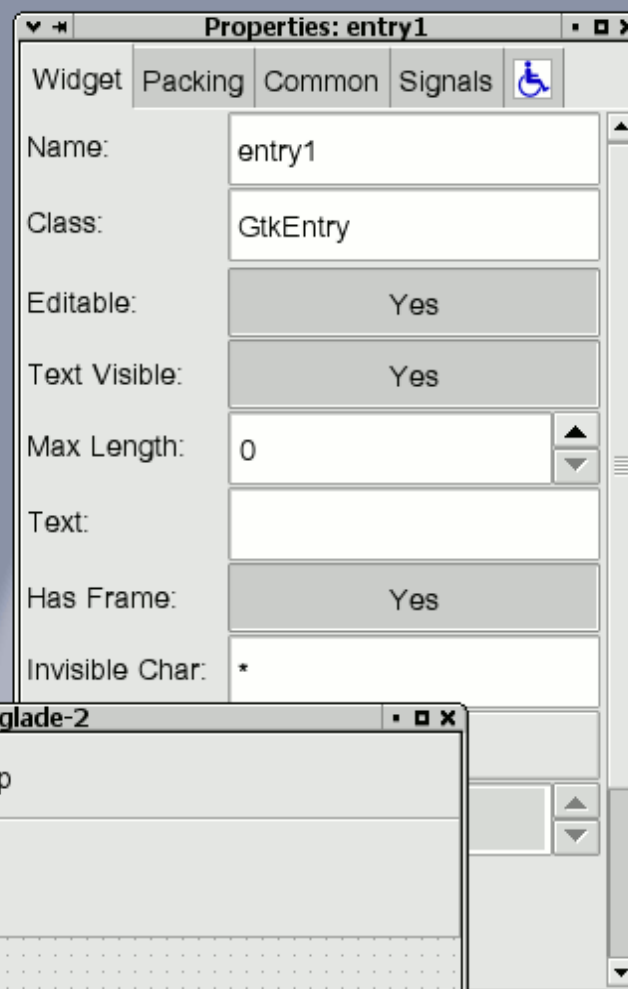
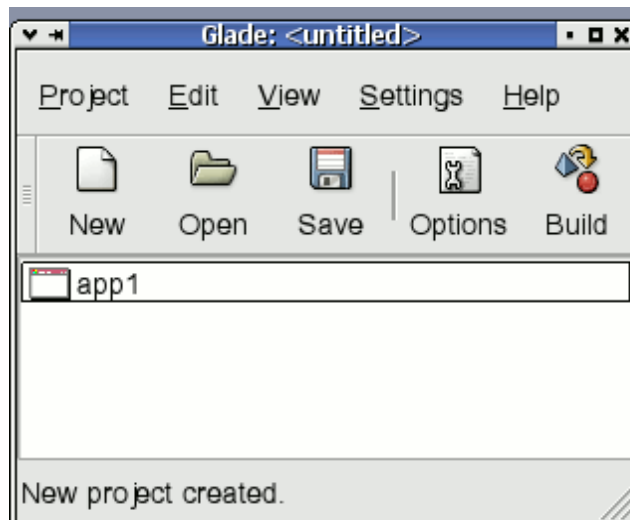
---

## Latest News:

Mar 16 2005

Glade 2.10.0 released !

Done



# Aplicaciones StandAlone

- **Anjuta** (<http://anjuta.sourceforge.net>)
  - Características:
    - Editor Integral Personalizable
    - Plataforma: C++/GTK+/GNOME
    - Compatible con Glade
    - Wizard para creación de Aplicaciones
    - Como editor, puede soportar otros lenguajes: Java, Perl, Pascal, etc



# Anjuta DevStudio

CREDITS RESOURCES SCREENSHOTS DOWNLOADS DEVELOPMENT HOME

## PROJECT

- [Features](#)
- [Project site](#)
- [Released Files](#)
- [ChangeLog](#)
- [Roadmap](#)
- [Hacking](#)
- [Todo](#)

## MAILING LISTS

- [Users list](#)
- [Developers list](#)
- [Announcement list](#)

## DISCUSSION

### FORUMS

- [Help discussion](#)
- [Open discussion](#)

## DOCUMENTATIONS

## LATEST NEWS

### Anjuta DevStudio 2.0.1 released

*kh\_naba - 2005-06-27 02:38* - [Anjuta C/C++ IDE](#)

We are pleased to announce the release of Anjuta 2.0.1, the second development release of Anjuta DevStudio 2.x series.

This is an alpha & unstable release and may not be suitable for production use. However, we encourage to use it and help us with bug reports. Both stable and development release can be used simultaneously, but they should be installed in different install prefix (important).

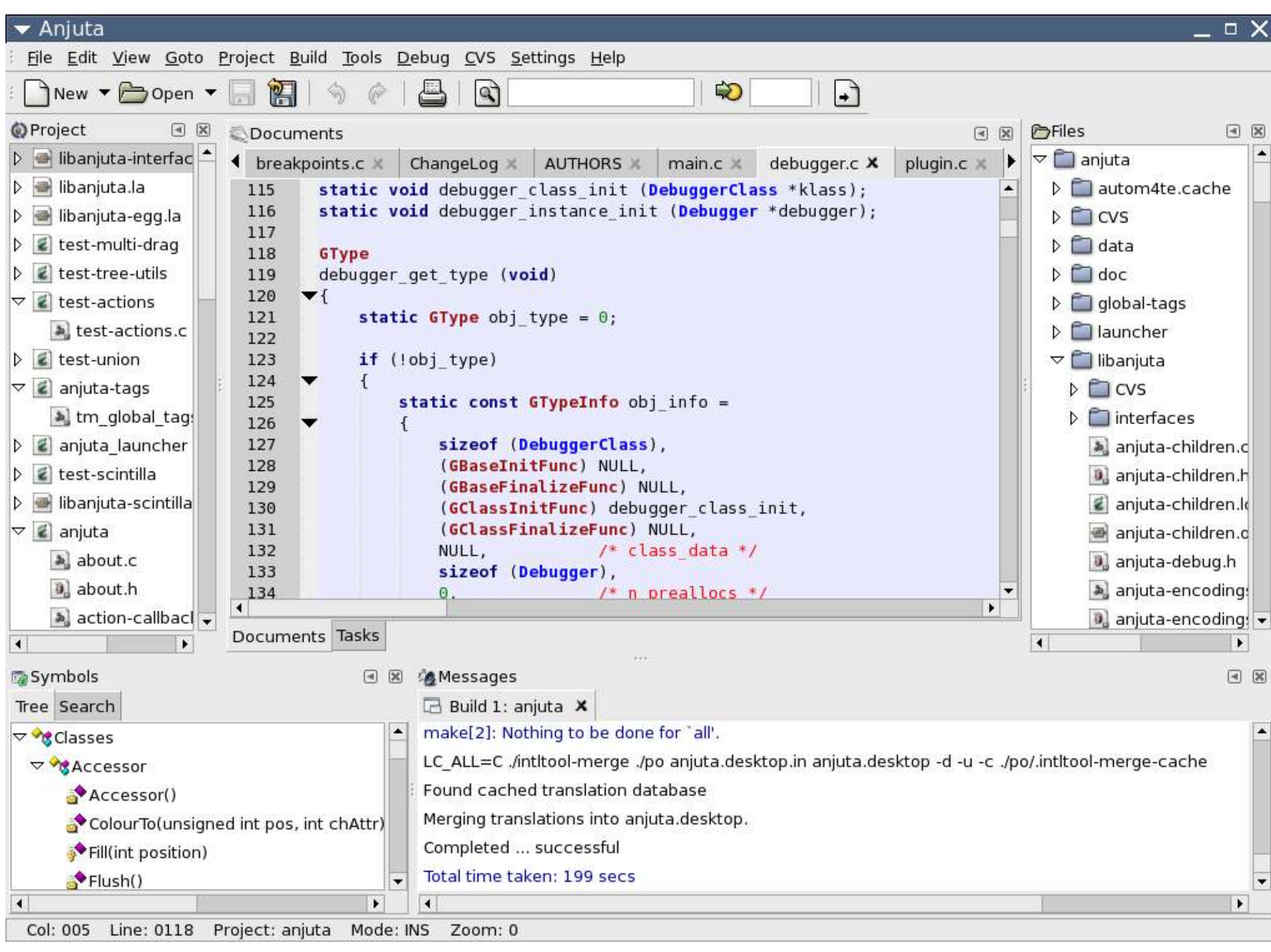
[\[Read More\]](#)

### Anjuta 2.0.0 released!

*kh\_naba - 2005-05-15 03:02* - [Anjuta C/C++ IDE](#)

After much waiting we are please to announce Anjuta 2.0.0, the first release of Anjuta 2.x series.





Project

- libanjuta-interface
- libanjuta-la
- libanjuta-egg.la
- test-multi-drag
- test-tree-utils
- test-actions
  - test-actions.c
- test-union
- anjuta-tags
  - tm\_global\_tag
- anjuta\_launcher
- test-scintilla
- libanjuta-scintilla
- anjuta
  - about.c
  - about.h
  - action-callback

Documents

breakpoints.c x ChangeLog x AUTHORS x main.c x debugger.c x plugin.c x

```
115 static void debugger_class_init (DebuggerClass *klass);
116 static void debugger_instance_init (Debugger *debugger);
117
118 GType
119 debugger_get_type (void)
120 {
121     static GType obj_type = 0;
122
123     if (!obj_type)
124     {
125         static const GTypeInfo obj_info =
126         {
127             sizeof (DebuggerClass),
128             (GBaseInitFunc) NULL,
129             (GBaseFinalizeFunc) NULL,
130             (GClassInitFunc) debugger_class_init,
131             (GClassFinalizeFunc) NULL,
132             NULL, /* class_data */
133             sizeof (Debugger),
134             0, /* n_preallocs */
135         }
```

Files

- anjuta
  - autom4te.cache
  - CVS
  - data
  - doc
  - global-tags
  - launcher
  - libanjuta
    - CVS
    - interfaces
      - anjuta-children.c
      - anjuta-children.h
      - anjuta-children.l
      - anjuta-children.c
      - anjuta-debug.h
      - anjuta-encoding
      - anjuta-encoding

Symbols

Tree Search

- Classes
  - Accessor
    - Accessor()
    - ColourTo(unsigned int pos, int chAttr)
    - Fill(int position)
    - Flush()

Messages

Build 1: anjuta x

make[2]: Nothing to be done for `all'.

LC\_ALL=C ./intltool-merge ./po anjuta.desktop.in anjuta.desktop -d -u -c ./po/intltool-merge-cache

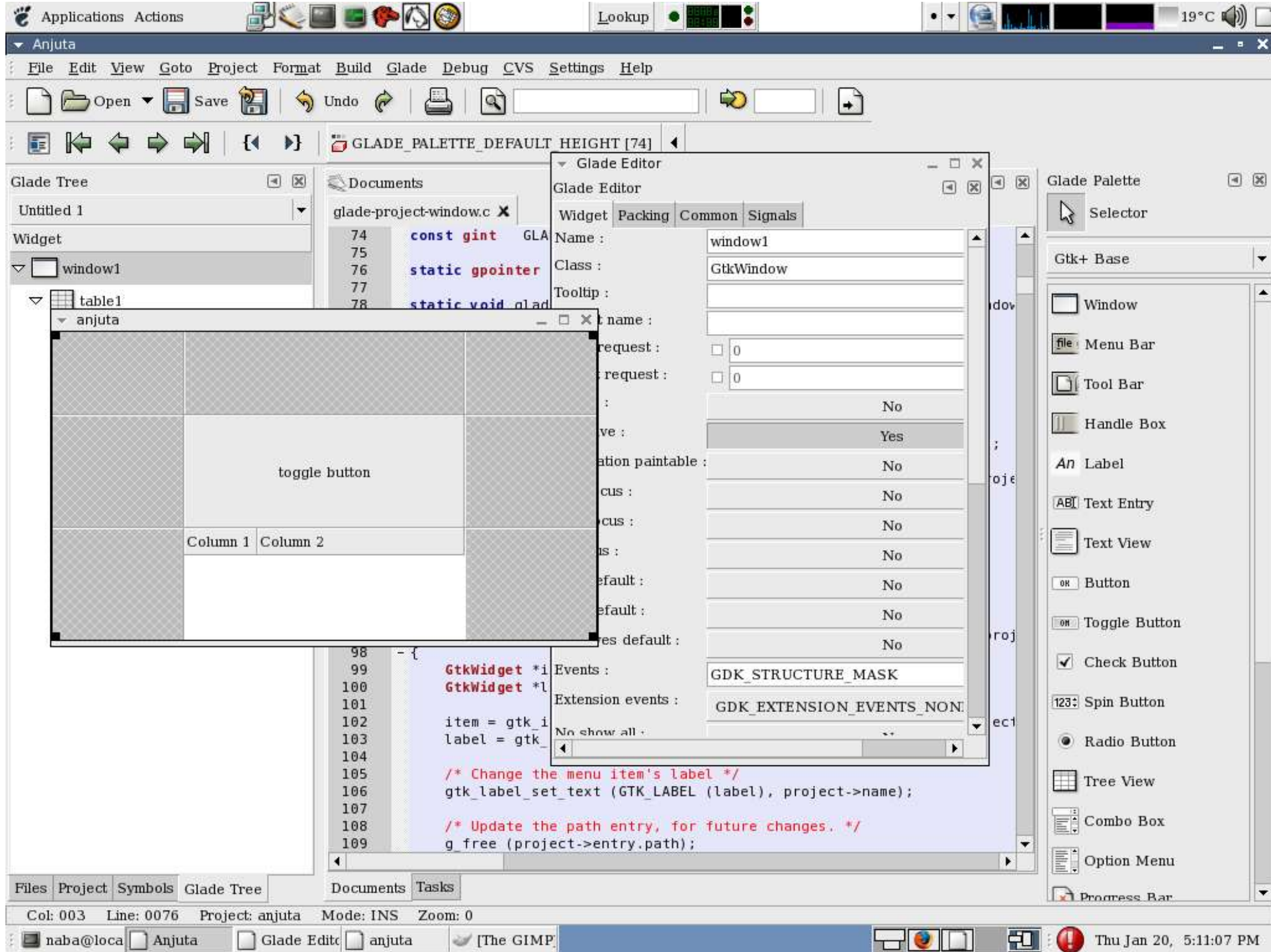
Found cached translation database

Merging translations into anjuta.desktop.

Completed ... successful

Total time taken: 199 secs





# Aplicaciones StandAlone

- **Kdevelop** (<http://www.kdevelop.org>)
  - Características:
    - Asistentes y Potente API para desarrollo rápido (RAD)
      - KDevDesigner/KDevAssistant
    - Plataforma: C++/Qt/KDE
    - Soporte para desarrollo de aplicaciones en Ruby
    - Integración total con Qt Designer y con Subversión



KDevelop - an Integrated Development Environment - Homepage - Mozilla Firefox

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http://www.kdevelop.org/

Services Since: [Aug 1999](#) Rank: [82129](#) [Site Report](#) [DE] [Universitaet Potsdam](#)

Eclipse.org Main Page glade screenshot - Busqueda G... KDevelop - an Integrated D... Mail :: INBOX

[www.kdevelop.org](#)  
**KDevelop**  
KDE DEVELOPMENT ENVIRONMENT

powered by [www](#) [www.kdevelop.org](#)

Quick download

**Current stable version (3.2.2)**  
Current development version (HEAD)

Website navigation

General

Home all versions

Versions 3.2.x HEAD

Features 3.2.x HEAD

Requirements 3.2.x HEAD

Download 3.2.x HEAD

SVN Branches & Compiling 3.2.x HEAD

Changes 3.2.x HEAD

Bugs & wishes 3.2.x HEAD

Documentation

KDevelop needs your help

The KDevelop-Project is looking for volunteer **Chinese**, **Indonesian**, and **Ukranian** translators for this website. If you are willing to do it, visit the [Website translation status page](#). There you'll get all the info you need.

The KDevelop Project

The KDevelop-Project was founded in 1998 to build up an easy to use IDE (Integrated Development Environment) for KDE. Since then, the KDevelop IDE is publicly available under the GPL and supports many programming languages.  
Please contact us for sponsoring or help offers.

News of 2005

**21. September 2005** - KDevelop 3.3 beta 1 (aka 3.2.91) got released to the public together with KDE 3.5 beta 1. You can [download it](#) and see its [Changelog](#).

**11. August 2005** - KDevelop 3.3 alpha 1 (aka 3.2.90) got released to the public together with KDE 3.5 alpha 1. You can [download it](#) and see its [Changelog](#). KDevelop 3.3 runs on KDE >= 3.2 and QT >= 3.2 but can be used to develop both QT3 and QT4 applications.  
KDevelop HEAD (SVN trunk) now requires QT4 and is planned for release

Forum

Discussion board for KDevelop, KDE and Qt related stuff.

On-line chat

You can meet other users and developers on the [#kdevelop](#) channel at [irc.kde.org](#).

Picture Corner

Downloads per hour

Done



File Edit View Project Build Debug Bookmarks Window Tools Settings Help



Global Namespace

(Classes)

(Functions)

Build Project Build Active Target Execute Program Stop

Compile File



File Selector

Filename	Status	Work	Repo
projectmanager.n	up-to-date	1.10	1.10
projectsession.cpp	up-to-date	1.10	1.10
projectsession.h	up-to-date	1.3	1.3
settingswidget.cpp			
settingswidget.h			
settingswidget.ui	up-to-date	1.11	1.11
settingswidget.ui.h	up-to-date	1.2	1.2
splashscreen.cpp	modified	1.15	1.15
splashscreen.h	up-to-date	1.2	1.2
statusbar.cpp	modified	1.15	1.15
statusbar.h	modified	1.8	
toplevel.cpp	modified	1.29	
toplevel.h	up-to-date	1.18	
templates			
vcs	directory		
config.h			

Bookmarks

Classes

\*.o, \*.lo, CVS, autom4te.cache

memory cppcodecompletion.cpp cppsupportpart.cpp splashscreen.cpp

```
#include "splashscreen.moc"

SplashScreen::SplashScreen()
: QObject()
{
    m_splash = new QWidget( /*TopLevel::getInstance()->main(),*/ 0,
        "splash", WStyle_Customize | WStyle_Tool | WStyle_StaysOnTop | WSt
    QVBoxLayout *vbox = new QVBoxLayout(m_splash);
```

## Choose Revisions to Diff

Build Difference Between

☒ Local copy and HEAD☐ Local copy and an arbitrary revision:☐ Two arbitrary revisions/tags:

Revision A:

Revision B:

OK

Cancel

splashscreen.cpp

```
19 SplashScreen::SplashScreen()
20 : QObject()
21 {
```

```
22 m_splash = new QWidget( 0,
23     "splash", WStyle_NoBorder | WStyle_Customize | WStyle_StaysOnTop
24
25     QVBoxLayout *vbox = new QVBoxLayout(m_splash);
26
```

```
22 m_splash = new QWidget( /*TopLevel::getInstance()->main(),*/ 0,
23     "splash", WStyle_Customize | WStyle_Tool | WStyle_StaysOnTop | WSt
24
25     QVBoxLayout *vbox = new QVBoxLayout(m_splash);
26
```

Messages

Application

Difference Viewer

Grep



CvsService

Replace



Watch

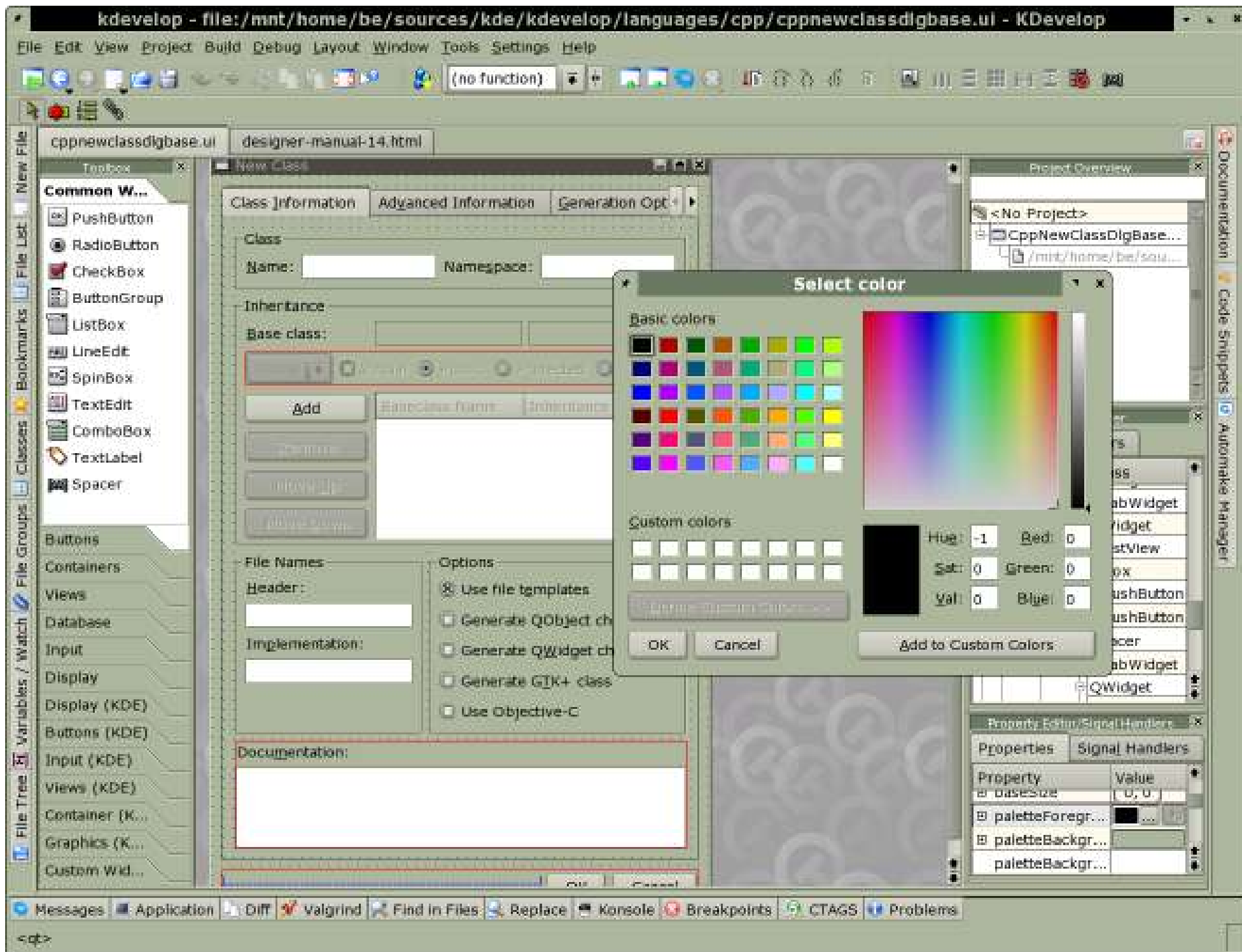


Breakpoints



Frame Stack

Line: 24 Col: 0 INS NORM





trymain - file:/home/duke/play/testit/trymain/src/main.rb - KDevelop

File Edit View Project Build Debug Bookmarks Window Tools Settings Help

(no function)

arks Classes File Groups Variables / Watch

Variable	Value
app	#<KDE::Application:0x3...
children	Array (5 element(s))
[0]	#<Qt::Object:0x3004903...
[1]	#<Qt::SessionManager...
[2]	#<Qt::EventLoop:0x300...
[3]	#<Qt::Object:0x30048df0>
[4]	#<Qt::Translator:0x3004...
metaObject	#<Qt::MetaObject:0x0>
name	"trymain"
receivers	Hash (1 element(s))
["aboutToQuit()"]	Array (1 element(s))
[0]	#<Qt::Connection:0x300...
memberName	"shutDown()"
memberType	SIGNAL
object	#<KDE::Application:0x3...
args	nil
description	"A KDE Application"

Expression to watch:

Add

trymain.rb trymainiface.rb pref.rb main.rb

```
description = I18N_NOOP("A KDE Application")
version = "0.1"
options = [ [ "+[URL]", I18N_NOOP( "Document to open" ), ""

about = KDE::AboutData.new("trymain", I18N_NOOP("TryMain"),
                           KDE::AboutData::License_GPL, "(C) 2005 F
about.addAuthor( "Richard Dale", nil, "Richard_Dale@tipitina
KDE::CmdLineArgs.init(ARGV, about)
KDE::CmdLineArgs.addCmdLineOptions(options)
app = KDE::Application.new

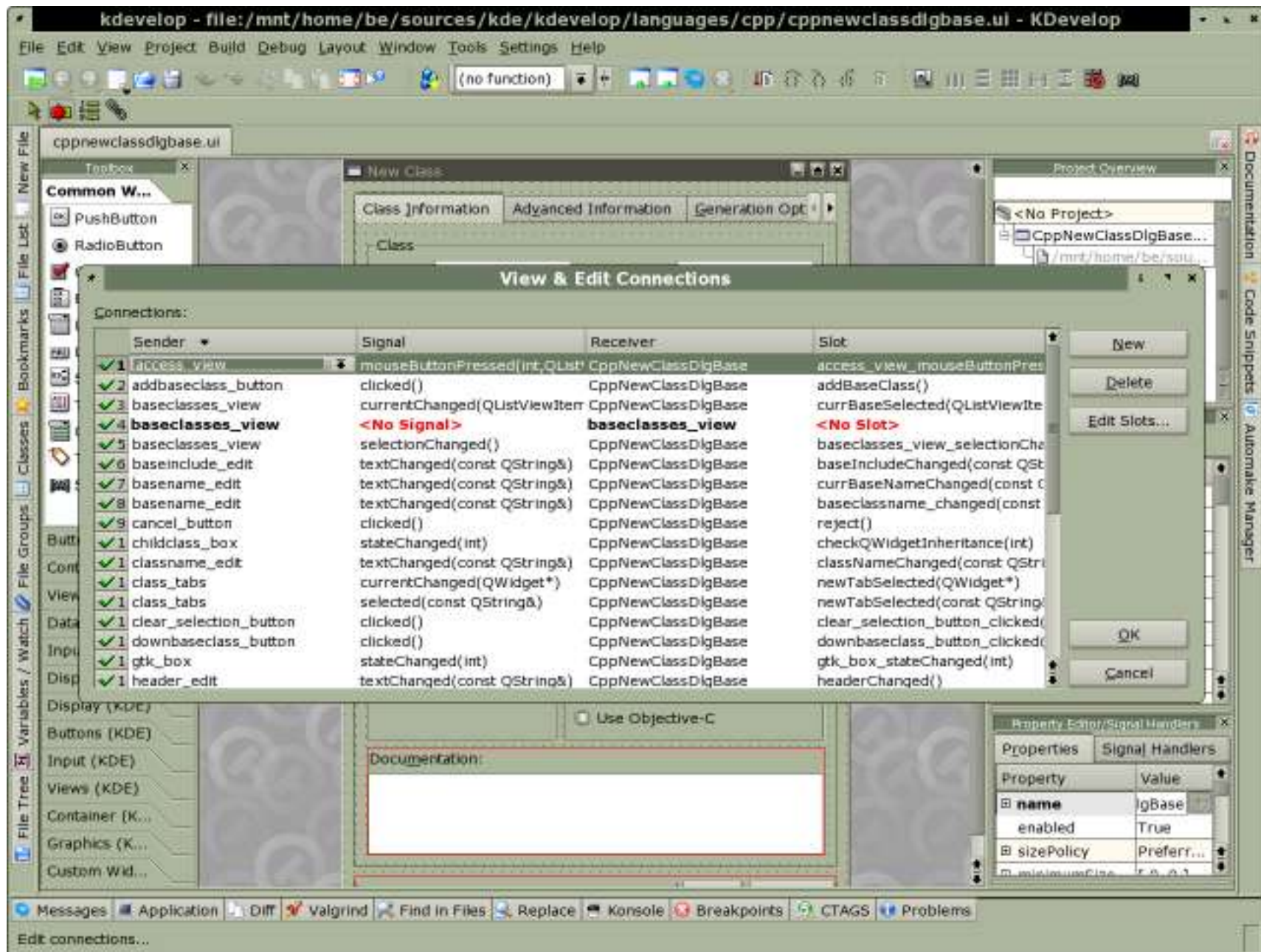
# register ourselves as a dcop client
app.dcopClient().registerAs(app.name, false)

# see if we are starting with session management
if app.restored?
  RESTORE(TryMain)
else
  # no session.. just start up normally
  args = KDE::CmdLineArgs.parsedArgs
  if args.count == 0
    widget = TryMain.new
    widget.show
  else
    for i in 0...args.count do
```

Application Diff Messages Find in Files Replace Konsole Breakpoints CTAGS Frame Stack

1 #<Thread:0x3005b798 run> /home/duke/play/testit/trymain/src/main.rb:22  
#1 /home/duke/play/testit/trymain/src/main.rb:22

Line: 31 Col: 29 INS NORM P



# Aplicaciones StandAlone

- **Mono** (<http://www.mono-project.com>)
  - Características:
    - Implementación Libre del Framework de .NET (Objetivo en desarrollo)
      - CLR (Common Language Runtime), Compiladores, Librerías de .NET, Librerías de integración con Proyectos Libres
    - Multiplataforma



Main Page - Mono - Mozilla Firefox


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Go

http://www.mono-project.com/Main\_Page

Go

NETCRAFT Services Risk Rating Since: Jun 2004 Rank: 11203 Site Report [US] Savvis



start :: use :: contribute

screen shots

download now

manuals & docs

blogs

## What is Mono?

Mono provides the necessary software to develop and run .NET client and server applications on **Linux, Solaris, Mac OS X, Windows, and Unix**. Sponsored by Novell, the Mono open source project has an active and enthusiastic contributing community and is positioned to become the leading choice for development of Linux applications.

[Frequently Asked Questions](#)

## Features

- ♦ [Multi-platform](#)
- ♦ Based on the ECMA/ISO [standards](#)
- ♦ Can run .NET, Java, Python and [more](#).
- ♦ Open Source, Free Software.
- ♦ [Commercially supported](#).

## Mono Project News

### Updated MonoDevelop packages and Mono Installer

Updated versions of MonoDevelop have been uploaded for those users that were experiencing problems with Gtk#. The Linux installer has also been updated.

Packages are available from our [Downloads](#) page.

Race to Linux Challenge

Mono 1.1.9.1 released

Mono 1.1.9 has been released

Mono Meeting at the Microsoft PDC

New Website

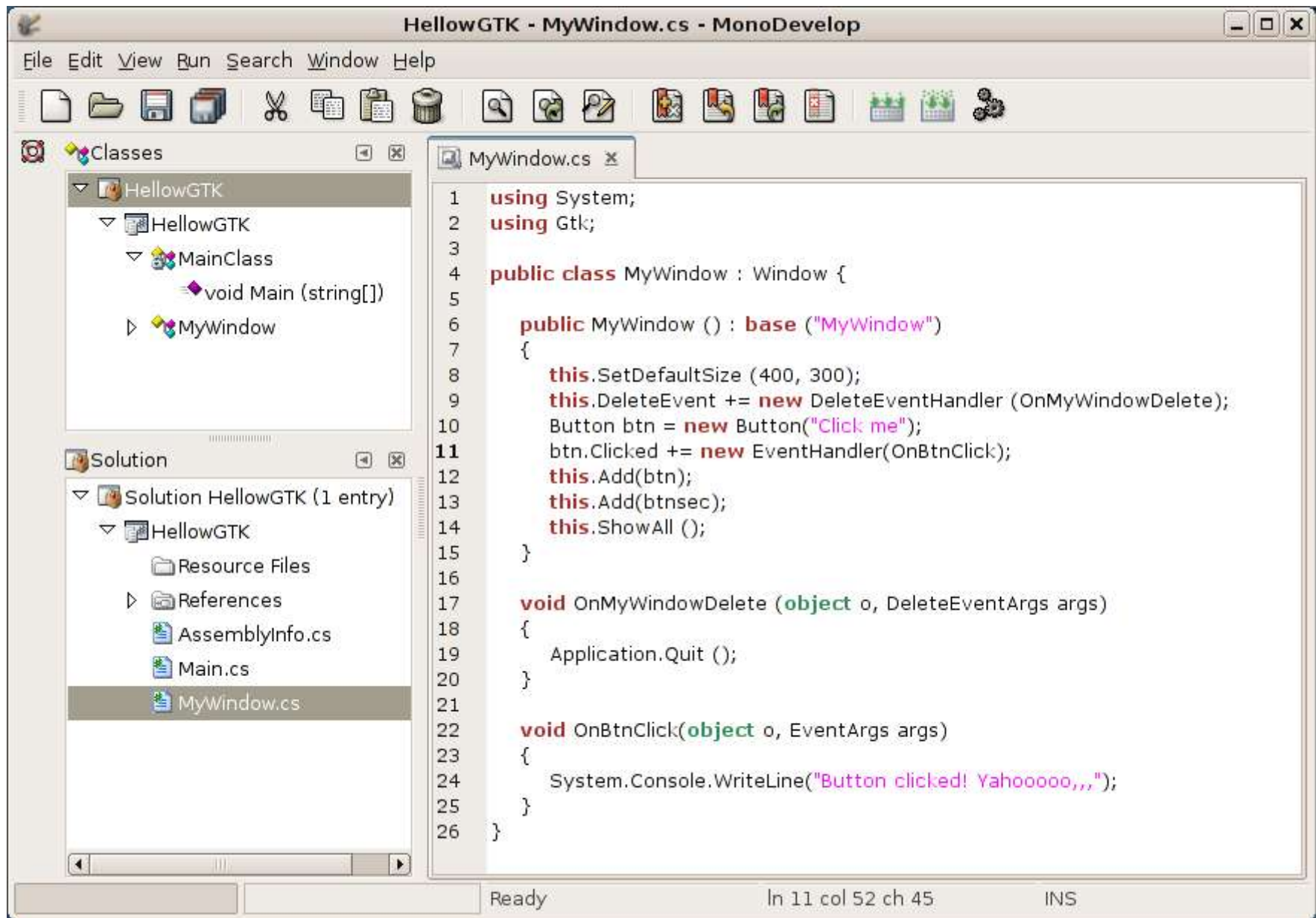
[more...](#)

[Syndicate](#)

Done

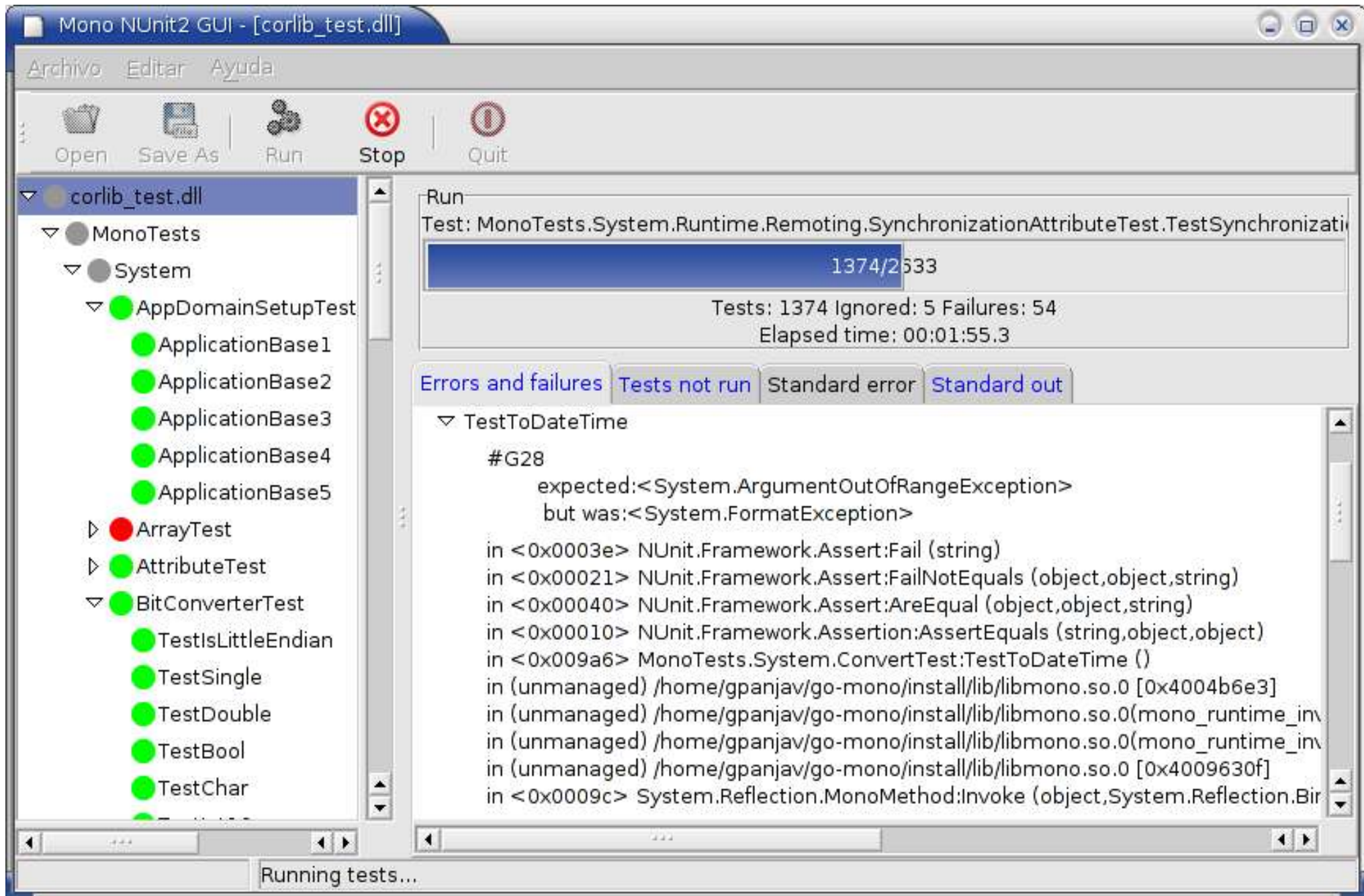
Search

[taskbar icons] Sin nombre1 - OpenOffice. herramientasLibres.sxi - O Emcali 00:01 Main Page - Mono - Mozilla [El GIMP]





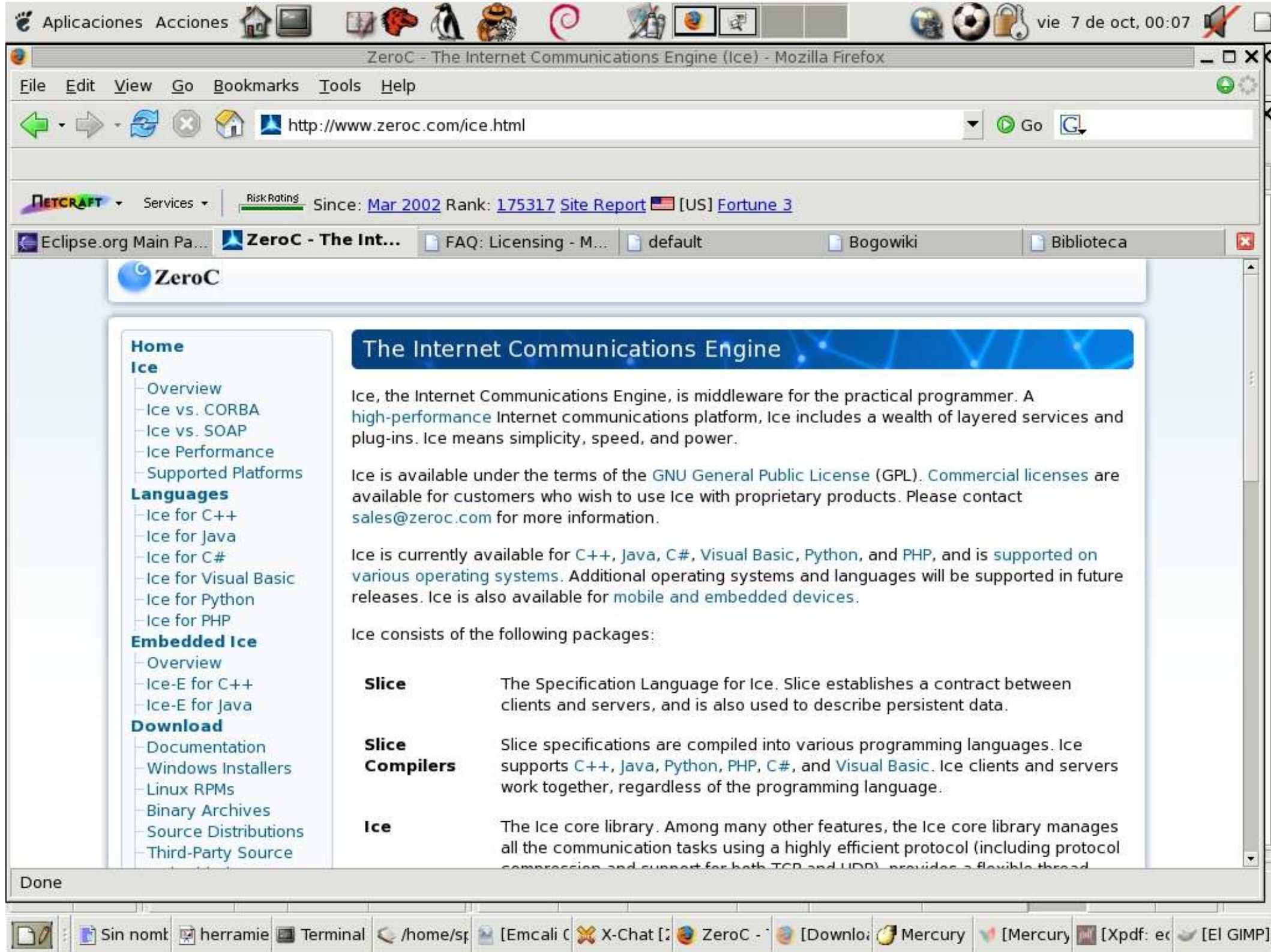






# Aplicaciones Distribuidas

- **ICE** (<http://www.zeroc.com/ice.html>)
  - Internet Communication Engine
  - “Una versión libre y revolucionaria de Corba”
  - Multiplataforma
  - Soporte para C++, Java, C#, Python
- **DCOP** (<http://developer.kde.org/>)
  - Aplicaciones distribuidas bajo KDE



# ZeroC

## Home

### Ice

- Overview
- Ice vs. CORBA
- Ice vs. SOAP
- Ice Performance
- Supported Platforms

### Languages

- Ice for C++
- Ice for Java
- Ice for C#
- Ice for Visual Basic
- Ice for Python
- Ice for PHP

### Embedded Ice

- Overview
- Ice-E for C++
- Ice-E for Java

### Download

- Documentation
- Windows Installers
- Linux RPMs
- Binary Archives
- Source Distributions
- Third-Party Source

## The Internet Communications Engine

Ice, the Internet Communications Engine, is middleware for the practical programmer. A [high-performance](#) Internet communications platform, Ice includes a wealth of layered services and plug-ins. Ice means simplicity, speed, and power.

Ice is available under the terms of the [GNU General Public License \(GPL\)](#). [Commercial licenses](#) are available for customers who wish to use Ice with proprietary products. Please contact [sales@zeroc.com](mailto:sales@zeroc.com) for more information.




Ice is currently available for [C++](#), [Java](#), [C#](#), [Visual Basic](#), [Python](#), and [PHP](#), and is [supported on various operating systems](#). Additional operating systems and languages will be supported in future releases. Ice is also available for [mobile and embedded devices](#).


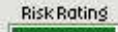

Ice consists of the following packages:

<b>Slice</b>	The Specification Language for Ice. Slice establishes a contract between clients and servers, and is also used to describe persistent data.
<b>Slice Compilers</b>	Slice specifications are compiled into various programming languages. Ice supports <a href="#">C++</a> , <a href="#">Java</a> , <a href="#">Python</a> , <a href="#">PHP</a> , <a href="#">C#</a> , and <a href="#">Visual Basic</a> . Ice clients and servers work together, regardless of the programming language.
<b>Ice</b>	The Ice core library. Among many other features, the Ice core library manages all the communication tasks using a highly efficient protocol (including protocol compression and support for both TCP and UDP), provides a flexible thread

DCOP: Desktop Communications Protocol - Mozilla Firefox


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 <http://developer.kde.org/documentation/other/dcop.html>  Go 

 Services  Since: [Aug 1998](#) Rank: [28358](#) [Site Report](#)  [DE] [University of Kaiserslautern](#)

Eclipse.org Main Pa... **DCOP: Desktop ...** FAQ: Licensing - M... default Bogowiki Biblioteca

# DCOP: Desktop COmmunications Protocol



[Preston Brown <pbrown@kde.org>](#) October 14, 1999

Revised and extended by [Matthias Ettrich <ettrich@kde.org>](#) Mar 29, 2000


HTMLized by Hans Meine [Hans Meine <rastajoe@gmx.net>](#) May 25, 2000

Added a DCOPRef example: Tim Jansen May 12, 2003

## Table of contents

- [1 Motivation and Background](#)
- [2 Implementation](#)
  - [2.1 Model](#)
  - [2.2 Managing DCOP Connections Manually](#)
    - [2.2.1 Establishing the Connection](#)
    - [2.2.2 Sending Data to a Remote Application](#)
    - [2.2.3 Receiving Data via DCOP](#)
    - [2.2.4 Processing Received Calls with Transactions](#)
    - [2.2.5 DCOP Signals](#)

Done

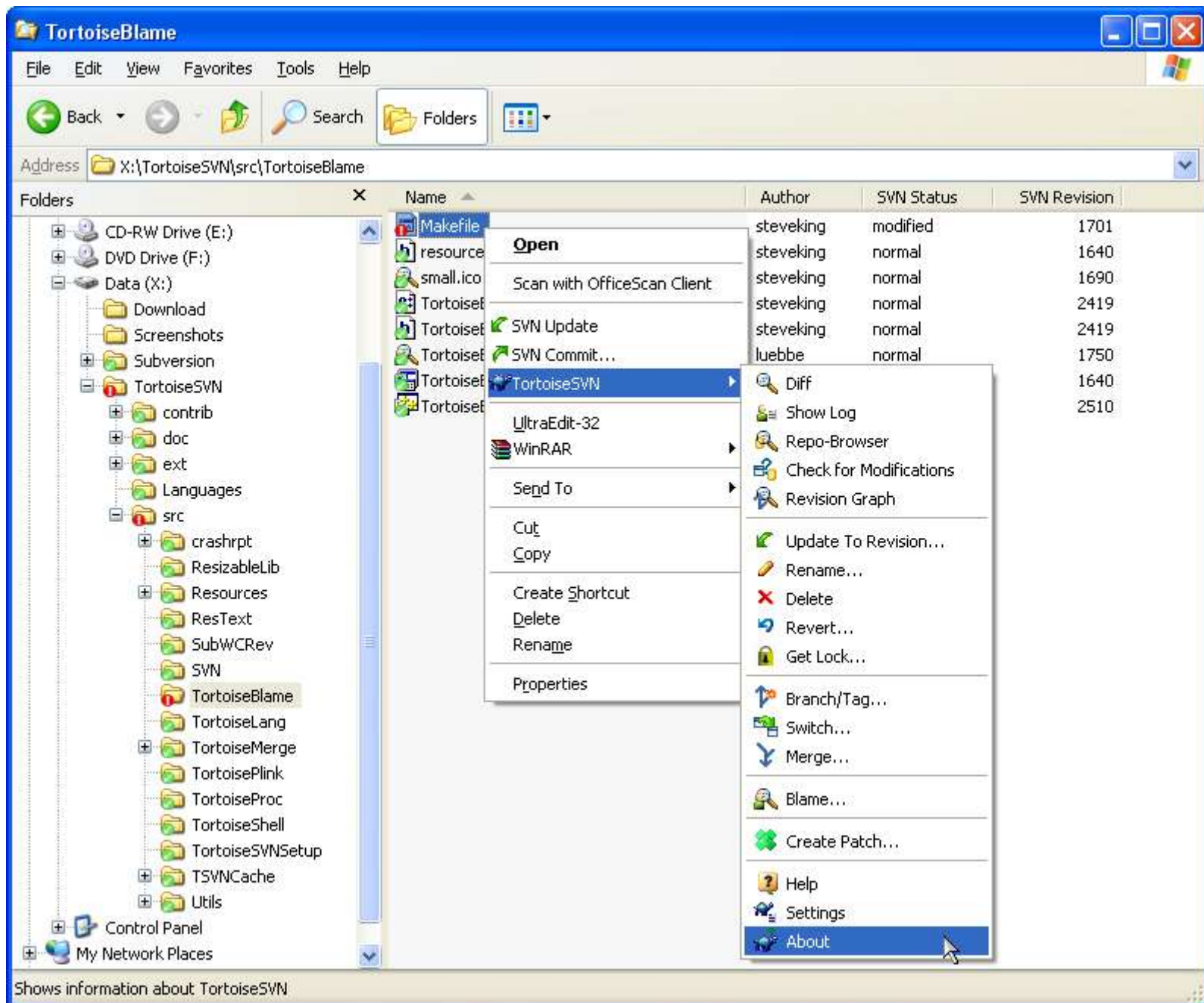
 Sin nomt herramie Terminal /home/sp [Emcali C X-Chat [ DCOP: D [Downlo Mercury Mercury [Xpdf: ec [El GIMP]



# Manejo de Versiones y Control de la Calidad (SQA)

- **Subversion** (<http://subversion.tigris.org>)
  - Multiplataforma
  - Cliente/Servidor
  - Compatible con Apache (Servidor Web)
- **JUnit / CUT / QUnitTest**
  - Aplicaciones para pruebas Unitarias en Java, C++, Python
  - Orientadas a la simplificación y automatización de pruebas







JUnit, Testing Resources for Extreme Programming - Mozilla Firefox

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← → ↺ ×

http://www.junit.org/index.htm

Go

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**JUnit.org**

Other XP sites  
[Object Mentor](#) [XProgramming](#) [Pair Programming](#)

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keep the bar green to keep the code clean...

**JUnit Headlines**  
as of April 07, 2005...

**WmUnit**  
as of February 16, 2005...

**JUnitScenario**  
as of February 22, 2004...

**Test-Driven Plug-In Development**

**Test First Challenges**

**Automated Continuous Testing**  
as of February 16, 2004

**JUnit**  
Welcome to JUnit.org. This site is dedicated to software developers using JUnit or one of the other XUnit testing frameworks. We'll be adding more content and web-based services over time. Initially we'll be providing links to give you a one-stop destination to learn the latest information on unit testing.  
  
Our goal is to serve you. Please tell us what you'd like to see here by contacting us at [junit@objectmentor.com](mailto:junit@objectmentor.com). JUnit support is handled through the [JUnit Yahoo Group](#).  
  
If you are looking for another one of the testing frameworks, you should look on [www.xprogramming.com](http://www.xprogramming.com) under [software](#).

**Overview**  
JUnit is a regression testing framework written by Erich Gamma and Kent Beck. It is used by the developer who implements unit tests in Java. JUnit is [Open Source](#) Software, released under the [Common Public License](#)

**Join the Discussion**

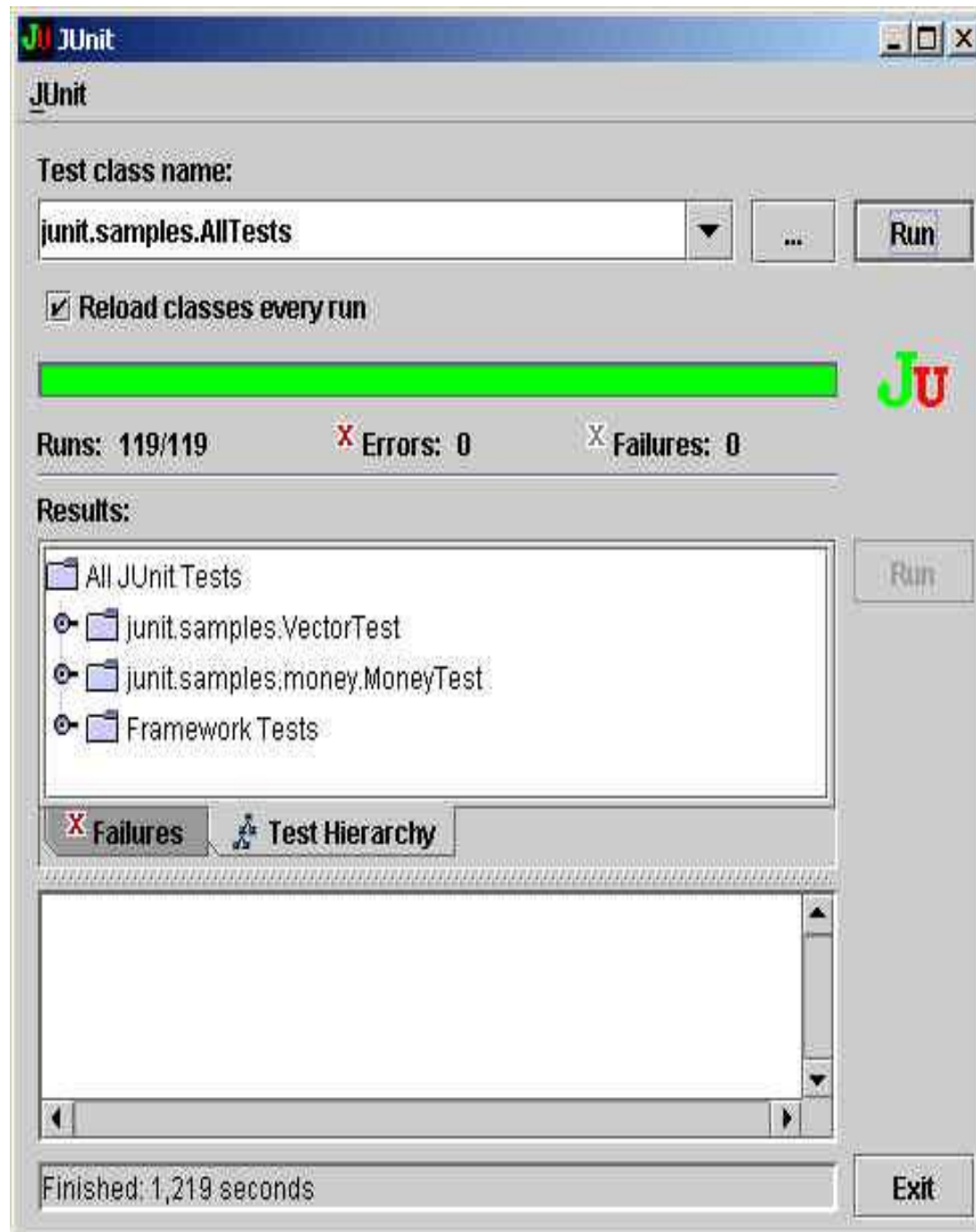
**Supporters:**

**Forged on:**

**Thank you:**

Done

Sin nombr herramienta Terminal /home/spy Emcali 02 X-Chat [2] JUnit, Test [Download] Mercury - [Xpdf: ecl] [El GIMP]



# Conclusiones

- En cualquier etapa de un proceso de desarrollo de software, siempre es posible encontrar alternativas de Software Libre como herramientas de apoyo.
- Las herramientas para desarrollo de software asisten/apoyan al programador pero **NO** definen su destreza (Ej: FrontPage).
- Se debe tener en cuenta el tipo de licenciamiento de las herramientas libres que se escogen para un desarrollo (Ej: Licencias duales).



# Conclusiones

- El número de proyectos libres relacionados con desarrollo de software cada vez es mayor. (Nota: No se mencionó el tema de servidores de aplicaciones libres, ni el tema de dispositivos móviles, tampoco se trataron herramientas para lenguajes como Python, Gambas y Qt)
- Todos los días nacen nuevas herramientas libres para desarrollo de Software. Es necesario investigar constantemente el estado del arte.

# Bibliografía

- <http://www.freshmeat.net>
- <http://www.sourceforge.net>
- <http://www.berlios.de>

# Preguntas