WindowBuilder





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Programación de Aplicaciones Interactivas

Index

What will we talk about?

- What is WindowBuilder
- How to install WindowBuilder
- Short introduction for a quick start
- Distribution of the window
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- Layout Managers
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What is WindowBuilder?

- Java GUI designer
- Makes easy creating complicated windows
- Visual Designer and Java Code
- Drag-and-Drop
- Add event handlers

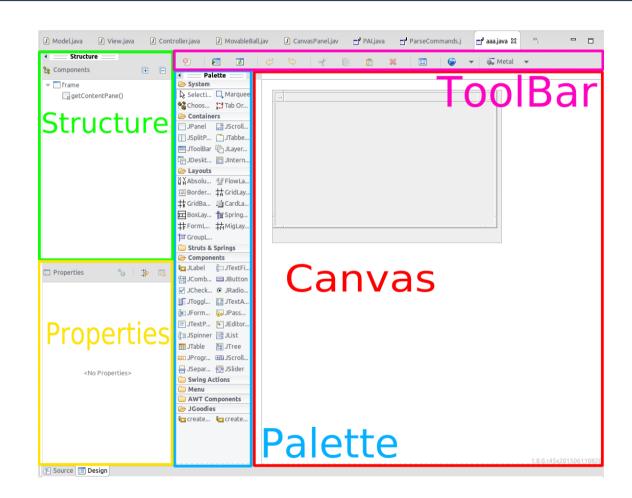


Installation

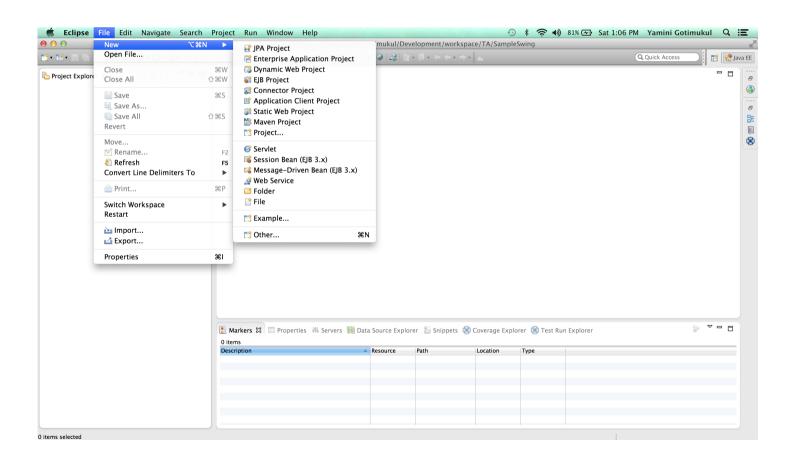
- In Eclipse, click Help > Install New Software...
- Get the proper link from http://www.eclipse.org/windowbuilder/download.php
- In the Available Software dialog, enter the product's update site location and select all the items to install. Click Next to continue.
- Click Next to confirm installation.
- · Accept the license agreement. Click Finish.
- Restart Eclipse.

Distribution of the window

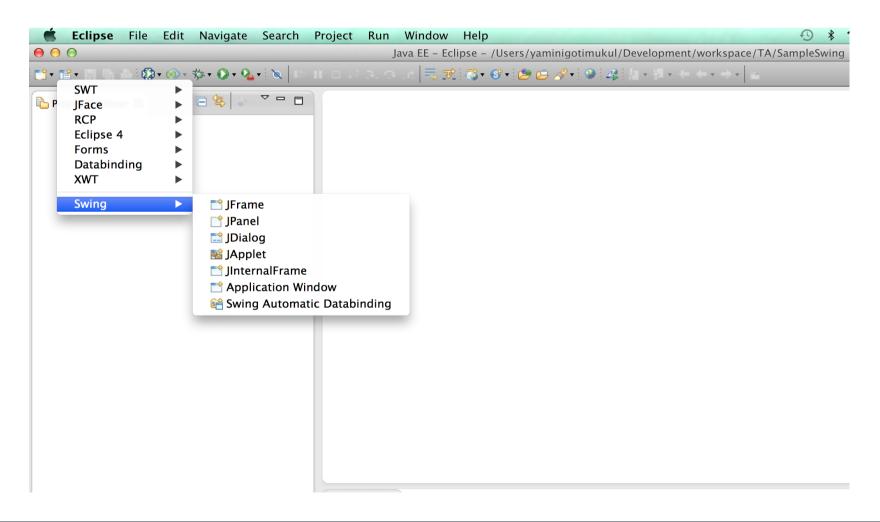
- Design View
- Source View
- Structure View
 - -Component Tree
 - -Property Pane
- Palette
- Toolbar
- Context Menu



Create a new project using the appropriate project wizard



Use class wizard to create your GUI window

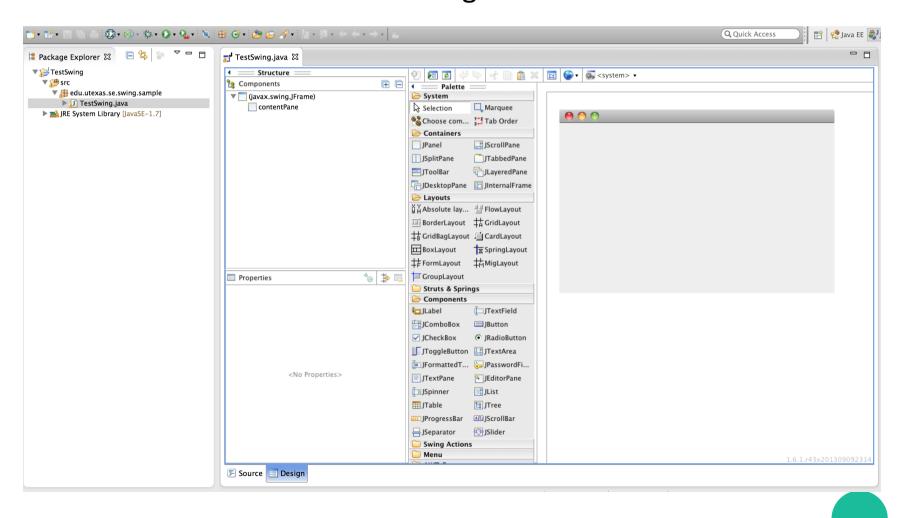


A class with some existing code is created.

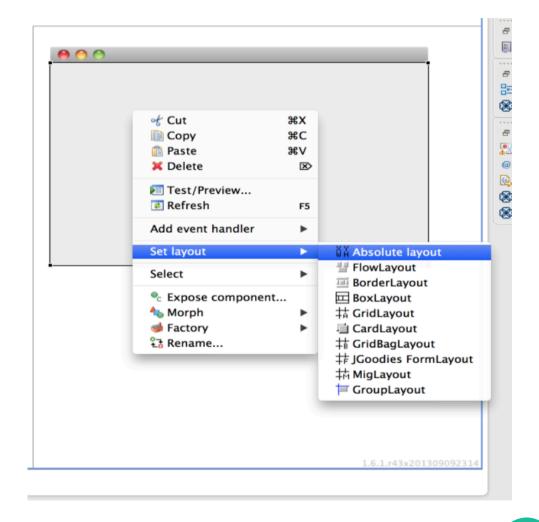
```
\Theta \Theta \Theta
                               Java - TestSwing/src/edu/utexas/se/swing/sample/TestSwing.java - Eclipse - /Users/yaminigotimukul/Development/workspace/TA/Sam
            ☐ Package Explorer 🖾
                                              ₹ TestSwing.java 🛭
▼ ≈ TestSwing
                                                    package edu.utexas.se.swing.sample;
  ▼ # src
                                                   ⊕ import java.awt.BorderLayout; [
    TestSwing.java
                                                    public class TestSwing extends JFrame {
  ▶ MIRE System Library [JavaSE-1.7]
                                                        private JPanel contentPane;
                                                         * Launch the application.
                                                        public static void main(String[] args) {
                                                            EventQueue.invokeLater(new Runnable() {
                                                               public void run() {
                                                                       TestSwing frame = new TestSwing();
                                                                       frame.setVisible(true);
                                                                   } catch (Exception e) {
                                                                       e.printStackTrace();
                                                            });
                                                         * Create the frame.
                                                        public TestSwing() {
                                                            setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                                                            setBounds(100, 100, 450, 300);
                                                           contentPane = new JPanel();
                                                            contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
                                                            contentPane.setLayout(new BorderLayout(0, 0));
                                                            setContentPane(contentPane);
```

To use the windowBuilder click on the "Design tab" at the bottom of the

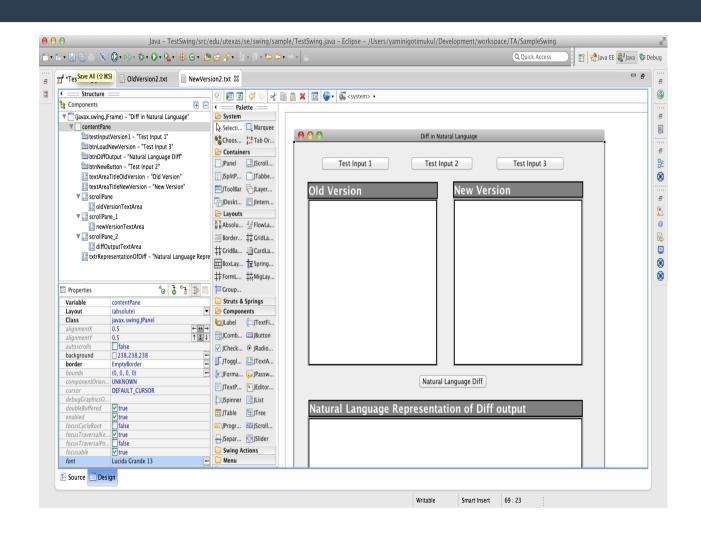
editor



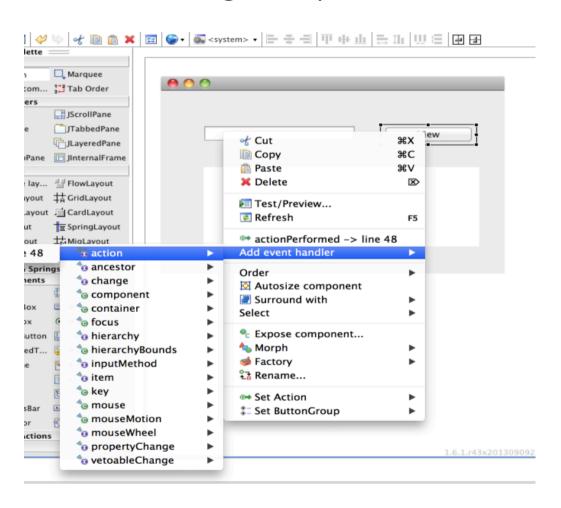
To set layout, right click on the window frame and select " set layout " and select the appropriate layout



Add various components from the Palette and edit their properties using the Property Pane.



Add event handler to various widgets to provide behavior



Tips & Tricks

- Directly editing widget text in the design view
- Adding multiple widgets of the same
- Editing properties of multiple widgets at the same time
- Cofiguring the palette
- Editing advanced widget properties
- Reverting a widget property to its default value
- Hiding code from the parser

Bi-directional Code Generation

- Directly generates Java code
- The tool can read and write almost any format
- Reverse-engineer most hand-written Java GUI code.

Internationalization (i18n)

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Custom Composites & Panels

- Embed any Composite of Jpanel subclass in another window.
- All widgets defined in the are isible in the window they are used.
- Access any widget exposed via public accesors.
- Access exposed custom properties
- Exposed widgets appear in tree with the "exposed" decorator

Factories

- Create a static factory method from any widget
- Factory methods may be parametrized with one or more arguments
- Morph any widget into a factory instance
- Add any factory component to the palette

Visual Inheritance

- Inherit from any Shell, Composite, JFrame, Jdialog, Japplet or JPanel subclass.
- All inherited widgets are visible
- Access inherited widgets exposed via public or protected accesors
- Access inherited custom properties
- Inherited widgets appear in tree with the exposed decorator

Event Handling

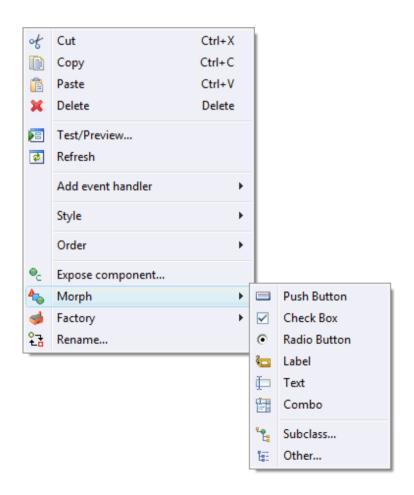
- Adding an Event Handler
 - First way is trough the property pane
 - Second way is to simply right-click on a component, select add event handler.
- Deleting an Event Handler
 - Select the component tree
 - In the property pane, click the method you wish to delete and then press delete.

Menu Editing

- Menus are a must for just abaout all GUIs.
- Only SWT Shells, SWT Applications Windows, and Wing JFrames supports menubars.
- Each window can have at most one Menu Bar, and the only place that you can put a Menu Bar is directly on a window.

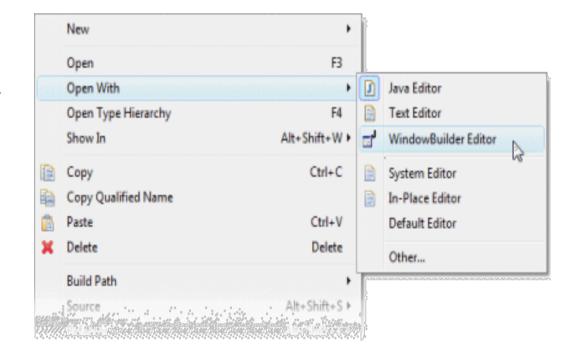
Widget Morphing

 The editor allows you to morph similar components from one type to another.



Editing Existing Windows

Open a file that has not been created by the tool, simply right-click on the file and select Open With > WindowBuilder Editor



Data Binding

Wizards

Swing

- JFrame
- JPanel
- JDialog
- JApplet
- JInternalFrame
- Application Window
- Automatic Data Binding

Bibliography

- ·Help eclipse
- Eclipse windowBuilder
- Eclipse proposals window Builder

END

THANKS!

You can find as alu0100881677 & alu0100898293

Slides and code at Github repo

Any Question?

