Eclipse Gui Java Designer Project Documentation

- A. Create a WiindowBuilder Project
 - 1. Create a workspace folder with Windows file explorer or with the Eclipse JDE Launcher.

e Eclipse IDE Launcher	_		×
Select a directory as workspace			
Eclipse IDE uses the workspace directory to store its preferences and developme	nt artifact	s.	
H:\EclipseWorkspace-202406-SWT-Project-Illustration	```	Brov	wse
Use this as the default and do not ask again			
<u>R</u> ecent Workspaces			
Launch		Cance	:

Enter the folder name and path where the Eclipse IDE Launcher is to set up the project. Here, H:\EclipseWorkspace-202406-SWT-Project-Illustration will be used. The Eclipse version is 202406 which is typed into the project location to assure that future entries by an Eclipse IDE will be known before accessing the folder with another version which may destroy the project.

Press the "Launch' button and once the project workspace is created follow the steps below to set up an SWT java project with an application Window.

2. The Eclipse IDE becomes established for the chosen directory in the IDE Launcher:



3. Click on the "Create a project..." selection from the list in the upper left corner of the IDE. DO NOT click on the 'Create a Java project'!!! That is very easy to mistake even after doing GUI apps for a long time but doing so will not build a project in which the selection of further necessary WindowBuilderGUI portions of the project. It is "Create a project..." that will provide the following options that will build a successful starting Window.

There are no projects in your workspace. To add a project:
🖄 <u>Create a Java project</u>
📂 <u>Create a Maven project</u>
📑 <u>Create a project</u>
🚵 Import projects

Click on the "Create a project..." selection to obtain the New Project / Select a wizard dialog in which the WindowBuilder options are provided (see below):

"Create a project..." list item was selected and the "New Project / Select a wizard" dialog box appears:

e New Project		×
Select a wizard	E	
<u>W</u> izards:		
type filter text		×
 > General > Gradle > Java > Maven > Plug-in Development > WindowBuilder 		
? < <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cance	

4. Fully open the "WindowBuilder" folder and select the "SWT/Face Java Project" from the list shown below:



- 5. Select "SWT/JFace Java Project" from the list.
- 6. Select "<u>N</u>ext>"
- B. The "Create a Java Project" dialog is displayed. The SWT packages are now installed into the project manager and the Java project can now continue to wrap the GUI portion.

듣 New SWT/JFace Java Project						×
Create a Java Project Enter a project name.					Î	S
<u>P</u> roject name:						
✓ Use <u>d</u> efault location						
Location: H:\EclipseWorkspace-202406-S					B <u>r</u> owse	
• Use an execution en <u>v</u> ironment JRE:	JavaSE-22				\ \	2
Use a project specific JRE:	jdk-22					
Use def <u>a</u> ult JRE 'jdk-22' and workspace	e compiler prefere	nces		<u>(</u>	Configure JREs	
Project layout						
Use project folder as root for sources	and class files					
<u>Create separate folders for sources ar</u>	nd class files			<u>Con</u>	figure default	
Working sets						
Add projec <u>t</u> to working sets					Ne <u>w</u>	
W <u>o</u> rking sets:					S <u>e</u> lect	
 _ Module						
✓ Create module-info.java file						
Generate comments						
		< <u>B</u> ack	<u>N</u> ext >	<u> </u>	Cancel	

- 1. New dialog: "Create a Java Project" is ready to be filled-in.
- 2. = Enter the project name in the 'Project Name' text box WindowsDemoProject in this case
- 3. == Uncheck 'Module' selections
- 4. === Click the 'Finish' button at the bottom of the dialog

The Create a Java Project dialog box now appears as shown below (Before clicking the 'Finish' button:

듣 New SWT/JFace Java Project				—	o x
Create a Java Project Create a Java project in the workspace or in	an external locatio	on.			S
Project name: SWTExampleProject					
Location: H:\EclipseWorkspace-202406-S					B <u>r</u> owse
 Use an execution environment JRE: Use a project specific JRE: 	JavaSE-22 jdk-22				~
Use def <u>a</u> ult JRE 'jdk-22' and workspace Design to be a set of the set of	e compiler prefere	ences		<u>C</u>	onfigure JREs
 Use project folder as root for sources Create separate folders for sources ar 	and class files Id class files			<u>Cont</u>	ïgure default
Working sets					Ne <u>w</u>
Working sets:					S <u>e</u> lect
Create <u>m</u> odule-info.java file Module name:					
<u>G</u> enerate comments					
0		< <u>B</u> ack	Next >	<u> </u>	Cancel

Click "Finish" and the IDE will appear with the beginning of the project hierarchy as shown below:

The project environment is now ready for selecting an SWT designer. This is done by adding the Window (legal Java name) to the source through the next set of development steps:



C. Create the SWT Interface Wizard

- 1. Right click on the 'src' icon in the upper left corner of the project hierarchy view.
- 2. Click on "new" then in the next dropdown box, click "other" to obtain the new "Select a Wizard" dialog box.
- 3. The "Select a wizard screen in the "New Project" dialog box will appear:

"Select a wizard" dialog box will appear for creating the project "src" (window)

elect a wizard		×
Select a wizard		<u>)</u>
<u>W</u> izards:		
type filter text		×
 General Git Gradle Java Maven Oomph Plug-in Development Tasks User Assistance WindowBuilder 		
? < <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cance	2

4. Fully extend the ">WindowBuilder" folder:



- 5. Select "Application Window" from the "SWT" folder, shown above. This will display the "New SWT application / Create SWT Application" dialog box which will be used to create the skeleton SWT Application Window.
- 6. After clicking on "Application Window", the dialog will enhance the "Next" button. Click the "Next" button.

7. The "New SWT Application" dialog box is now displayed, and all you need to do is fill in the Java name for the Window application. Here it will be "SWTDemoWindow"

듣 New SWT Applic	ation				
Create SWT Applie	cation pty.				J SWT
Source fol <u>d</u> er: SWT Pac <u>k</u> age: Na <u>m</u> e:	ExampleProject/s	src		(default)	Br <u>o</u> wse Bro <u>w</u> se
Create contents in: protected cre public open(public static	eateContents() m) method main() method	ethod			
0	< <u>B</u> ack	<u>N</u> ext >	<u> </u>	sh	Cancel

The "Name:" of the Window a	pplication was filled in:
-----------------------------	---------------------------

e New SWT	Application		o x
Create SWT A	Application he default package is discouraged.		J SWT
Source fol <u>d</u> er: Pac <u>k</u> age: Na <u>m</u> e:	SWTExampleProject/src	(default)	Br <u>o</u> wse Bro <u>w</u> se
Create content protect public public	ts in: ted createContents() method open() method static main() method		
•	< <u>B</u> ack <u>N</u> ext >	<u>F</u> inish	Cancel

8. Click on "Finish" to create the new Window application and store the new Java file in the "src" folder of the project hierarchy.

The code for the new Window is built and stored in the project "src" folder in the java file, "SWTDemoWindow.java". The components for the Window are available in the Design aspect, while the source code is available in the "Source" aspect which are selectable items under the source code view window, shown below in the IDE.





The Window Designer view in the IDE for our project:

//end