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Appendix A: Copyright and License

This article describes how to create and use Eclipse Wizards. It is based on the Eclipse 4.4 release but covers also the Eclipse 3.x releases.

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1. Eclipse Wizards

1.1. What is a wizard

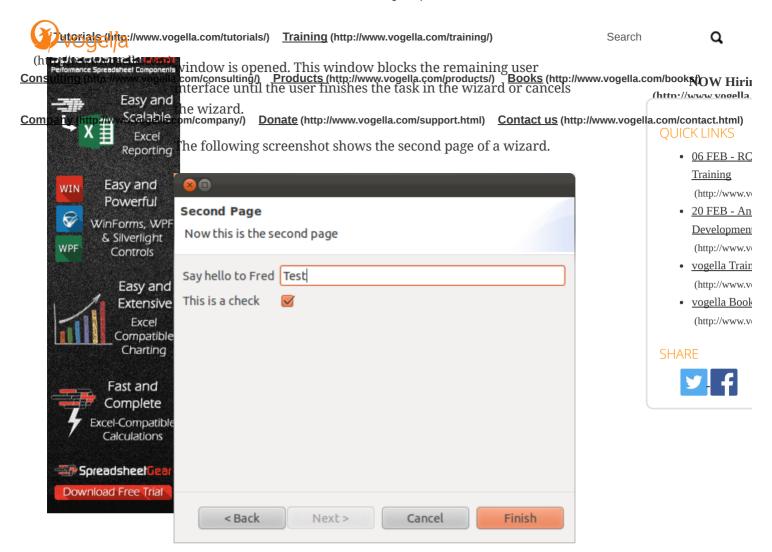
In Eclipse, a wizard is commonly used for the creation of new elements, imports or exports. It can also be used for the execution of any task involving a sequential series of steps. A wizard should be used if there are many steps in the task, and they must be completed in a specific order.



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JFace orders the buttons differently depending on the platform.

1.2. Wizards and WizardPages

The Wizard class from the org.eclipse.jface.wizard package provides the functionality to build custom wizards. This class controls the navigation between the different pages and provides the base user interface, for example, an area for error and information messages.

A wizard contains one or several pages of the type WizardPage. Such a page is added to a Wizard object via the addPage() method.

A WizardPage must create a new Composite in its createControl() method. This new Composite must use the Composite of the method parameter as parent. It also must call the setControl() method with this new Composite as parameter. If this is omitted, Eclipse will throw an error.

1.3. Starting the Wizard

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WizardDialog | Products (http://www.vogella.com/products/)
WizardDialog | New WizardDialog(shell, new YourWizardClass());

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Typically, a wizard is opened via a menu or toolbar entry or via a SelectionListener on a button.

1.4. Changing the page order

To control the order of the WizardPage object, you can override the getNextPage() method in the Wizard. This allows you to change the order of the pages depending on the data in the wizard and pages.

The following code snippet demonstrates this approach.

JAVA

```
// todo is an object available in the wizard
private TodoWizardPage1 page1 = new TodoWizardPage1(todo);
private TodoWizardPage2 page2 = new TodoWizardPage2();
private TodoWizardPage3 specialPage = new
TodoWizardPage3(todo);
@Override
public void addPages() {
  addPage(page1);
  addPage(page2);
  addPage(specialPage);
@Override
public IWizardPage getNextPage(IWizardPage currentPage) {
    if (todo.isDone()) {
       return specialPage;
    if (currentPage == page1) {
        return page2;
    return null;
```

1.5. Working with data in the wizard

To use the same data in different pages of your wizard, pass them to the wizard pages via their constructor parameters.

The isVisible() method is called whenever the WizardPage either gets visible or invisible. Call the super.isVisible() method and check the current status of the page. If the page is visible, assign the data of your object to the user interface components.

1.6. Updating the Wizard buttons from a WizardPage

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(http://www.vogella.com) button in the wizard becomes active.

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The Wizard class defines the canFinish method in which you Company (http://www.vogella.com/company/) Donate (http://www.vogella.com/support.html) Contact us (http://www.vogella.com/contact.html) Contact us (http://www.vogella.com/contact.html) **QUICK LINKS**

> If the status changes, you can update the buttons in the Wizard (e.g., the Next and the Finish button) from a WizardPage via the getWizard().getContainer().updateButtons() method call.

1.7. Adding your wizard to the New, Import and **Export commands**

In Eclipse 3.x you can register a wizard via the org.eclipse.ui.newWizards extension point.

This includes your wizard in the standard dialog for new projects which can be used via the command org.eclipse.ui.newWizard.

This is also possible for the export and import wizard commands.

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2. Exercise: Wizards Example

The following gives an example of a wizard with two pages.

Create the following MyPageOne and MyPageTwo classes.

label1.setText("Put a value here.");

text1.setText("");

}

GridData gd = **new**

text1.setLayoutData(gd);

setControl(container);
setPageComplete(false);

return text1.getText();

@Override

@Override

}

// required to avoid an error in the system

text1 = new Text(container, SWT.BORDER |

text1.addKeyListener(new KeyListener() {

public void keyPressed(KeyEvent e) {

public void keyReleased(KeyEvent e) {

}

SWT.SINGLE):

(!text1.getText().isEmpty()) {

});

GridData(GridData.FILL_HORIZONTAL);

public String getText1() {

setPageComplete(true);

}

container.setLayout(layout); layout.numColumns = 2;

text1.setText("");

}

}

GridData gd = **new**

text1.setLayoutData(gd);

check.setSelection(true);

setControl(container); setPageComplete(false);

(!text1.getText().isEmpty()) {

});

GridData(GridData.FILL HORIZONTAL);

setPageComplete(true);

@Override

@Override

if

}

Label labelCheck = **new** Label(container,

labelCheck.setText("This is a check"); Button check = **new** Button(container,

// required to avoid an error in the system

Label label1 = new Label(container,

label1.setText("Say hello to Fred");

text1 = new Text(container, SWT.BORDER |

text1.addKeyListener(new KeyListener() {

public void keyPressed(KeyEvent e) {

public void keyReleased(KeyEvent e) {

// TODO Auto-generated method

SWT.NONE);

SWT.CHECK);

SWT.NONE):

SWT.SINGLE);

stub

```
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        torials (http://www.vogella.com/tutorials/)
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                                              return text1.getText();
                                                                                     Books (http://www.vogella.com/books/OW Hirii
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                                                                                                               QUICK LINKS
                          Create the following class called MyWizard.
                                                                                                                   • 06 FEB - RC
                                                                                                                     Training
                                                                                               JAVA
                            package de.vogella.rcp.intro.wizards.wizard;
                                                                                                                     (http://www.v
                                                                                                                   • 20 FEB - An
                            import org.eclipse.jface.wizard.Wizard;
                                                                                                                     Developmen
                                                                                                                     (http://www.v
                            public class MyWizard extends Wizard {
                                                                                                                   • vogella Train
                                                                                                                     (http://www.v
                                     protected MyPageOne one;

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                                     protected MyPageTwo two;
                                                                                                                     (http://www.v
                                     public MyWizard() {
                                              super();
                                              setNeedsProgressMonitor(true);
                                     }
                                     @Override
                                     public String getWindowTitle() {
                                              return "Export My Data";
                                     }
                                     @Override
                                     public void addPages() {
                                              one = new MyPageOne();
                                              two = new MyPageTwo();
                                              addPage(one);
                                              addPage(two);
                                     }
                                     @Override
                                     public boolean performFinish() {
                                              // Print the result to the console
                                              System.out.println(one.getText1());
                                              System.out.println(two.getText1());
                                              return true;
                                     }
```

To show the wizard you could, for example, add a Button to your part and call the Wizard via a SelectionListener on the Button.

}

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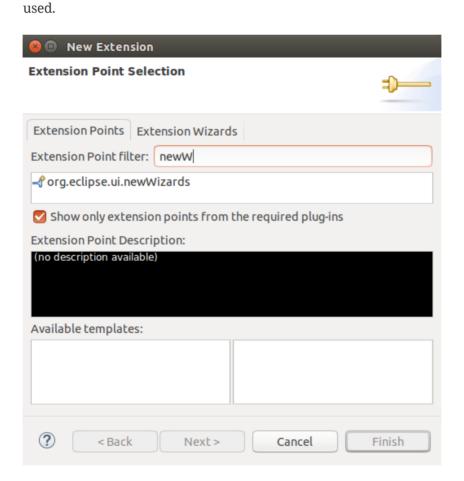
```
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 (http://www.vogella.com) button.addSelectionListener(new SelectionAdapter() {
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                                public void widgetSelected(SelectionEvent e) {
                                                                                              (httn://www.vngella
                                       WizardDialog wizardDialog = new
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                                               new MyWizard());
                                       if (wizardDialog.open() == Window.OK) {
                                                                                                  • 06 FEB - RC
                                               System.out.println("Ok pressed");
                                                                                                    Training
                                       } else {
                                                                                                    (http://www.v
                                               System.out.println("Cancel pressed");
                                                                                                   20 FEB - An
                                       }
                                }
                                                                                                    Developmen
                        });
                                                                                                    (http://www.v
                                                                                                   vogella Train
                                                                                                    (http://www.v
                      3. Exercise: Eclipse IDE New Wizard

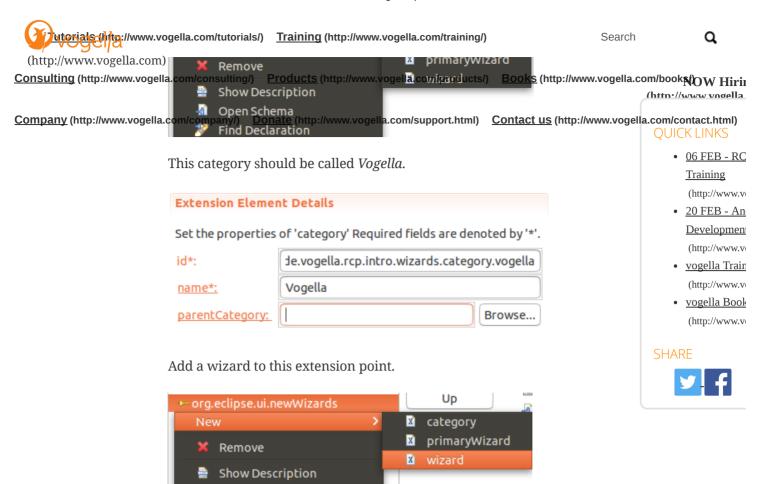
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                                                                                                    (http://www.v
                      Provide a wizard in the New dialog of the Eclipse IDE.
                      3.1. Using the org.eclipse.ui.newWizards extension
                      point
```

When a wizard should be provided as new wizard in the *New* dialog, the *org.eclipse.ui.newWizards* extension point has to be

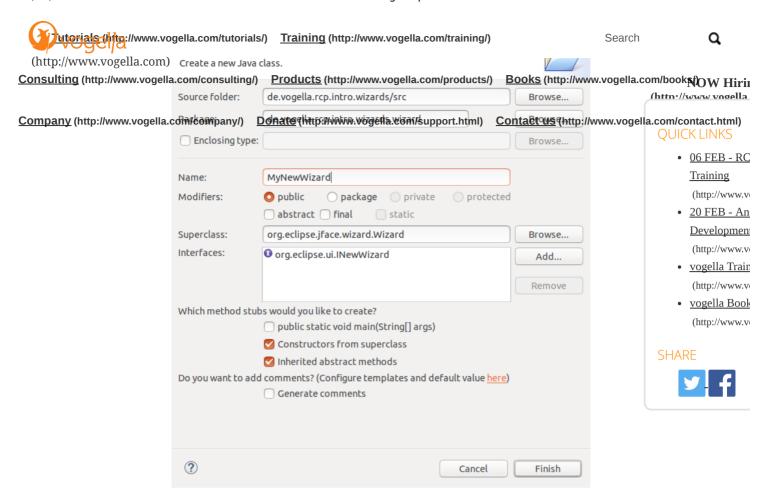


Add a category to this extension point.

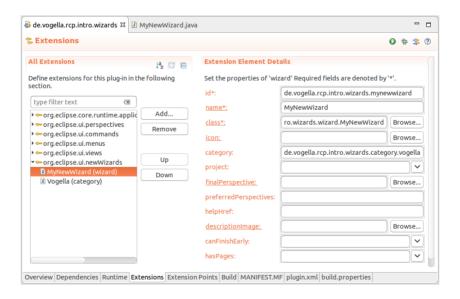


When clicking on the *class**: hyperlink of the wizard entry, the following dialog will appear. Use the data depicted on the image.

Open Schema



The result will look like this:



3.2. Implement the INewWizard interface

The MyNewWizard implementation will look similar to this:

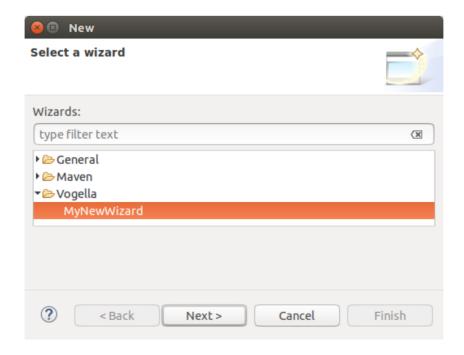


3.3. Validate

}

Optionally the two wizard pages from previous exercises can be added to this new wizard.

Start an Eclipse IDE and open the *New* dialog by using the File ► New ► Other... menu or simply press CTRL + N and choose the MyNewWizard wizard.





4.2. Implement an import wizard

Implementing an *import wizard* is pretty similar to implementing a new wizard.

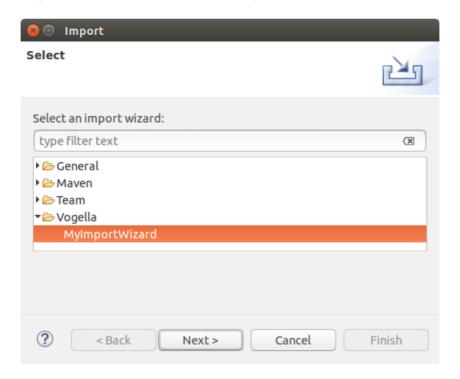
The main difference is that the *org.eclipse.ui.importWizards* extension point and the IImportWizard interface has to be used.

Therefore almost every step from [exercise-new-wizard] can be adapted.

4.3. Validate

Optionally the two wizard pages from previous exercises can be added to this new wizard.

Start an Eclipse IDE and open the *Import* dialog by using the File ▶ Import... menu and choose the MyImportWizard wizard.



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(http://www.eclipse.org/articles/article.php?file=Article-[FaceWizards/index.html]

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