

Eclipse RCP Part III

Automotive Financial Services Insurance Life Science & Healthcare Public Sector
Telecommunications & Media Travel & Logistics Utilities Automotive Financial
Services Insurance Life Science & Healthcare Public Sector Telecommunications
& Media Travel & Logistics Utilities Automotive Financial Services Insurance
Life Science & Healthcare Public Sector Telecommunications & Media Travel
& Logistics Utilities Automotive Financial Services Insurance Life Science
Healthcare Public Sector Telecommunications & Media Travel & Logistics
Utilities Automotive Financial Services Life Science & Healthcare Public
Sector Telecommunications & Media Travel & Logistics Utilities Automotive
Financial Services Insurance Life Science & Healthcare Public Sector
Telecommunications & Media Travel & Logistics Utilities Automotive
Financial Services Insurance Life Science & Healthcare Telecommunications
& Media Travel & Logistics Utilities Automotive Financial Services Insurance
Life Science & Healthcare Public Sector Telecommunications & Media Travel &
Logistics Utilities Automotive Financial Services Insurance Life Science &
Healthcare Public Sector Telecommunications & Media Travel & Logistics Utilities
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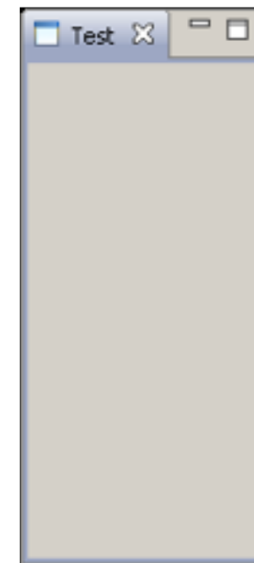
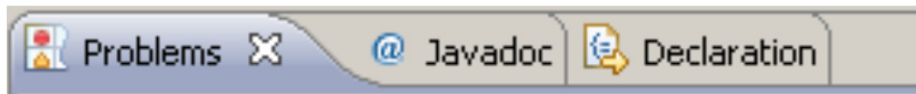


Objective

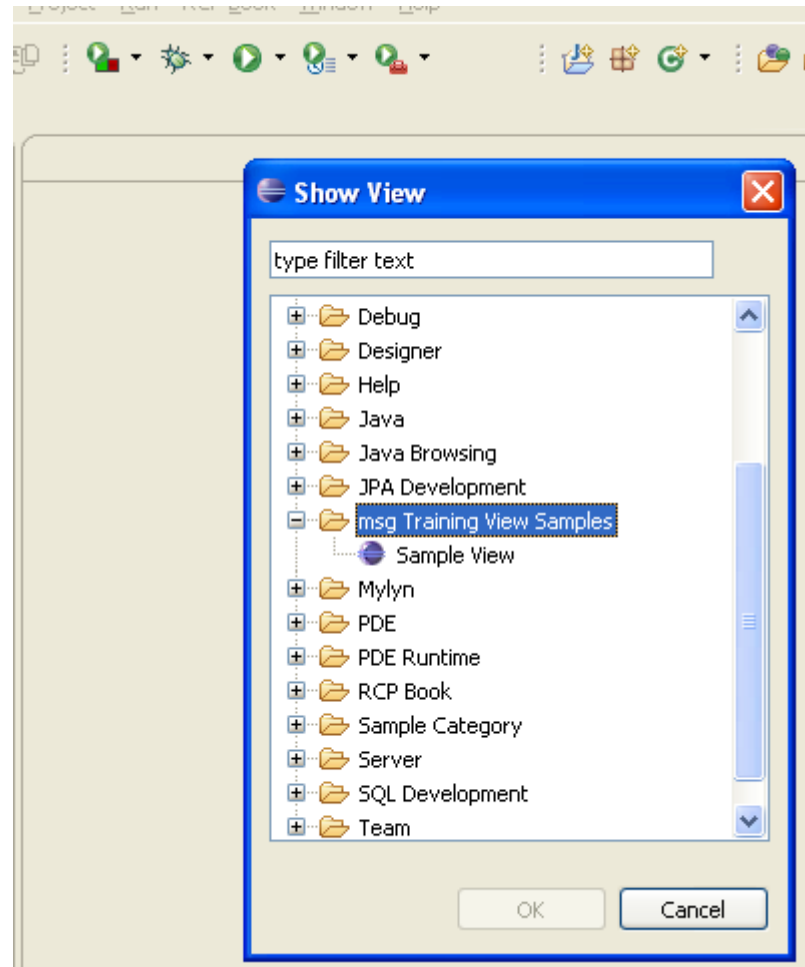


- Building your first view
- Understanding extension points

- A view is like a window in the Eclipse workbench.
 - Views can be opened, closed, minimized and maximized by the user. This can also be done programmatically
- A view has an own toolbar with (optional) actions
- There is always one active view/editor at a time
- Views can be tabbed in a viewstack:



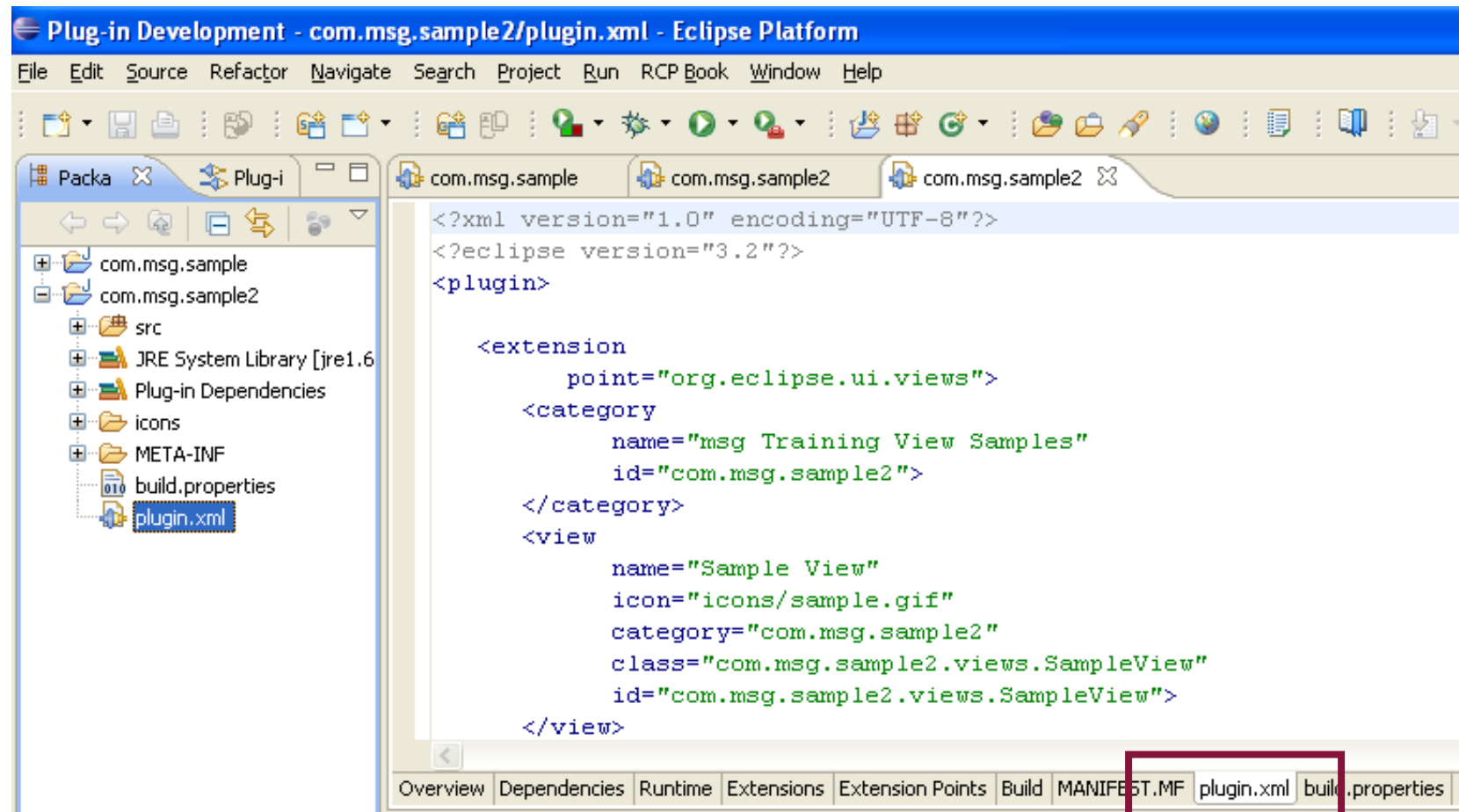
Example



The information is available without loading the plug-ins

```
<?xml version="1.0" encoding="UTF-8"?>
<?eclipse version="3.2"?>
<plugin>

  <extension
    point="org.eclipse.ui.views">
    <category
      name="msg Training View Samples"
      id="com.msg.sample2">
    </category>
    <view
      name="Sample View"
      icon="icons/sample.gif"
      category="com.msg.sample2"
      class="com.msg.sample2.views.SampleView"
      id="com.msg.sample2.views.SampleView">
    </view>
    </extension>
  </extension>
```



Extensions

All Extensions

Define extensions for this plug-in in the following section.

- org.eclipse.ui.views
 - msg Training View Samples (category)
 - Sample View (view)
- org.eclipse.ui.perspectiveExtensions

Add...

Edit...

Up

Down

Extension Element Details

Set the properties of "view". Required fields are denoted by "*".

category:

class:

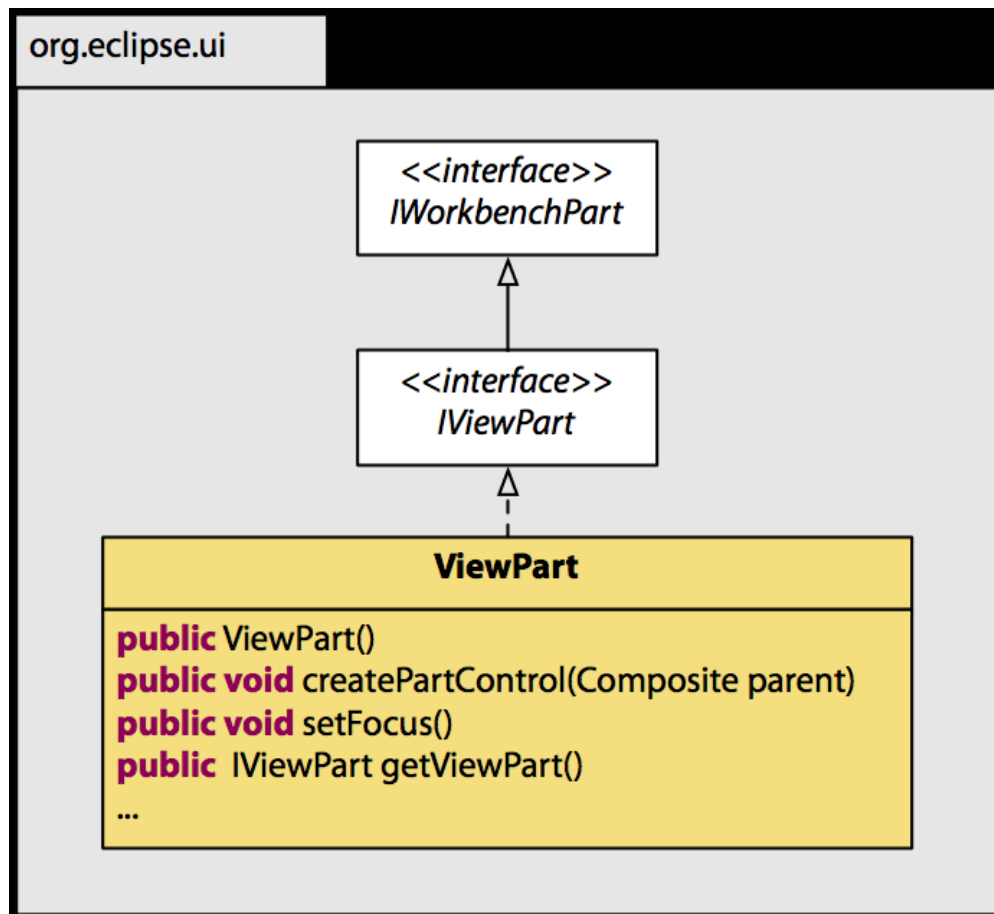
icon:

id:

name:

Overview Dependencies Runtime Extensions Extension Points Build MANIFEST.MF plugin.xml build.properties

- The specified view class is implemented using ViewPart



Sample view implementation

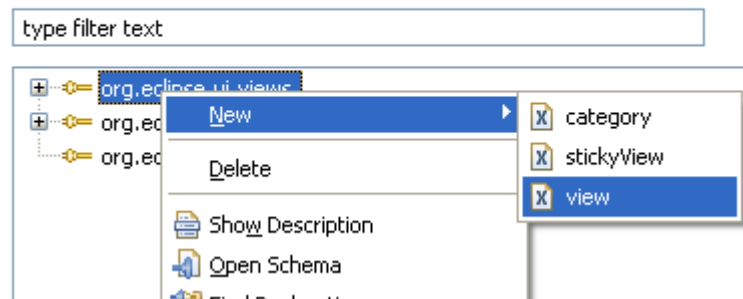


```
public void createPartControl(Composite shell) {  
  
    shell.setLayout(new FillLayout());  
  
    DateTime calendar = new DateTime (shell, SWT.CALENDAR);  
    calendar.addSelectionListener (new SelectionAdapter () {  
        public void widgetSelected (SelectionEvent e) {  
            System.out.println ("calendar date changed");  
        }  
    });  
  
    DateTime time = new DateTime (shell, SWT.TIME);  
    time.addSelectionListener (new SelectionAdapter () {  
        public void widgetSelected (SelectionEvent e) {  
            System.out.println ("time changed");  
        }  
    });  
  
}
```


- Add another view to the extension “**org.eclipse.ui.views**”
→ right click on org.eclipse.ui.views

All Extensions

Define extensions for this plug-in in the following section.

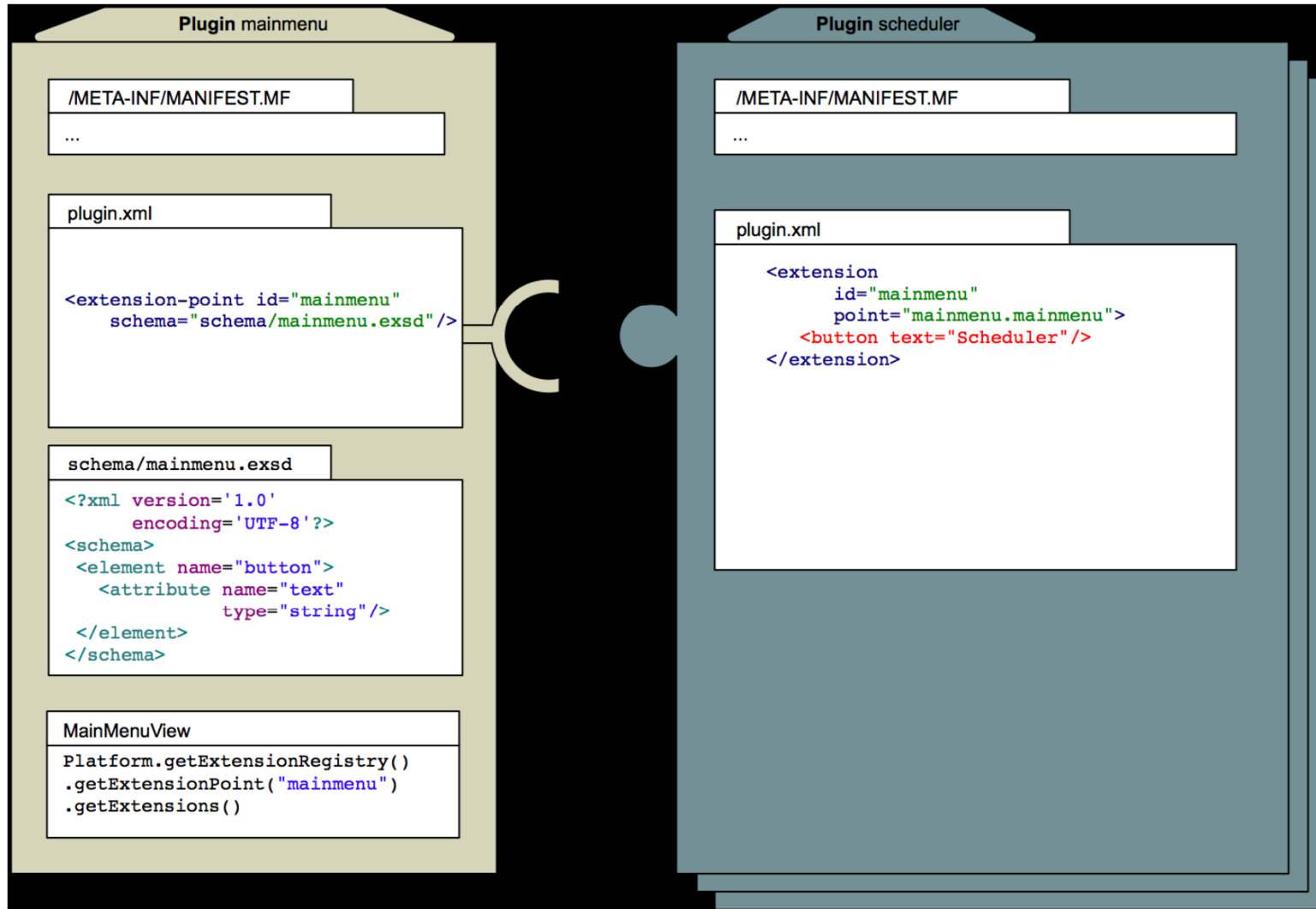


Extension Element Details

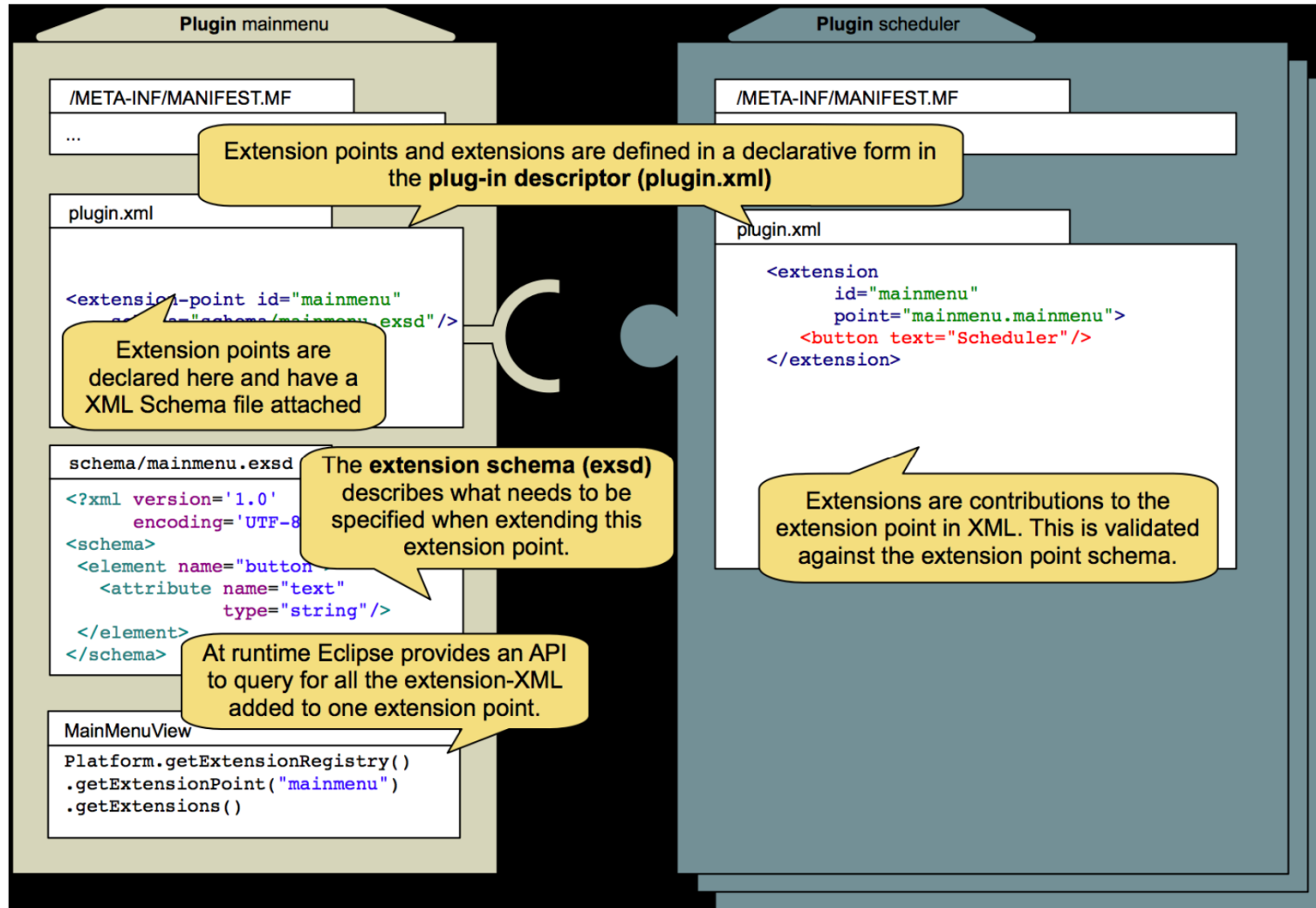
Set the properties of "view". Required fields are denoted by "**".

<u>id*</u> :	<input type="text" value="com.msg.sample.view1"/>
<u>name*</u> :	<input type="text" value="name"/>
<u>class*</u> :	<input type="text" value="com.msg.sample.ViewPart1"/> <input type="button" value="Browse..."/>
<u>category</u> :	<input type="text"/> <input type="button" value="Browse..."/>
<u>icon</u> :	<input type="text"/> <input type="button" value="Browse..."/>
<u>fastViewWidthRatio</u> :	<input type="text"/>
<u>allowMultiple</u> :	<input type="text"/> <input type="button" value="v"/>
<u>restorable</u> :	<input type="text" value="true"/> <input type="button" value="v"/>

plug-in concept

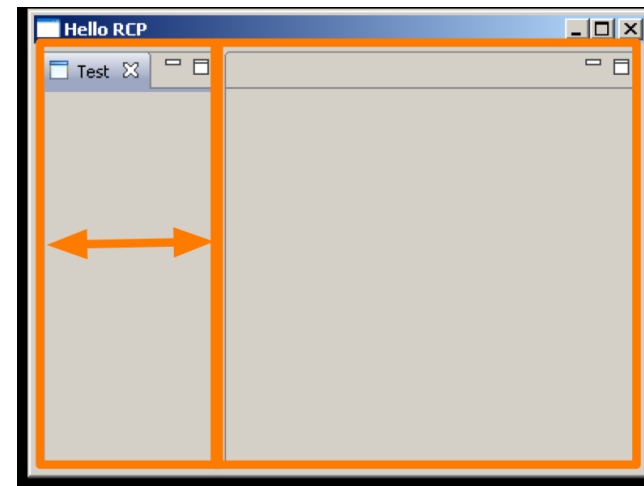
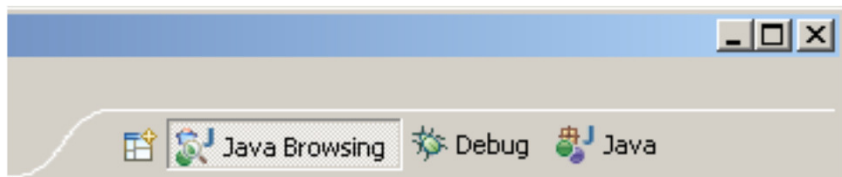


how it fits together

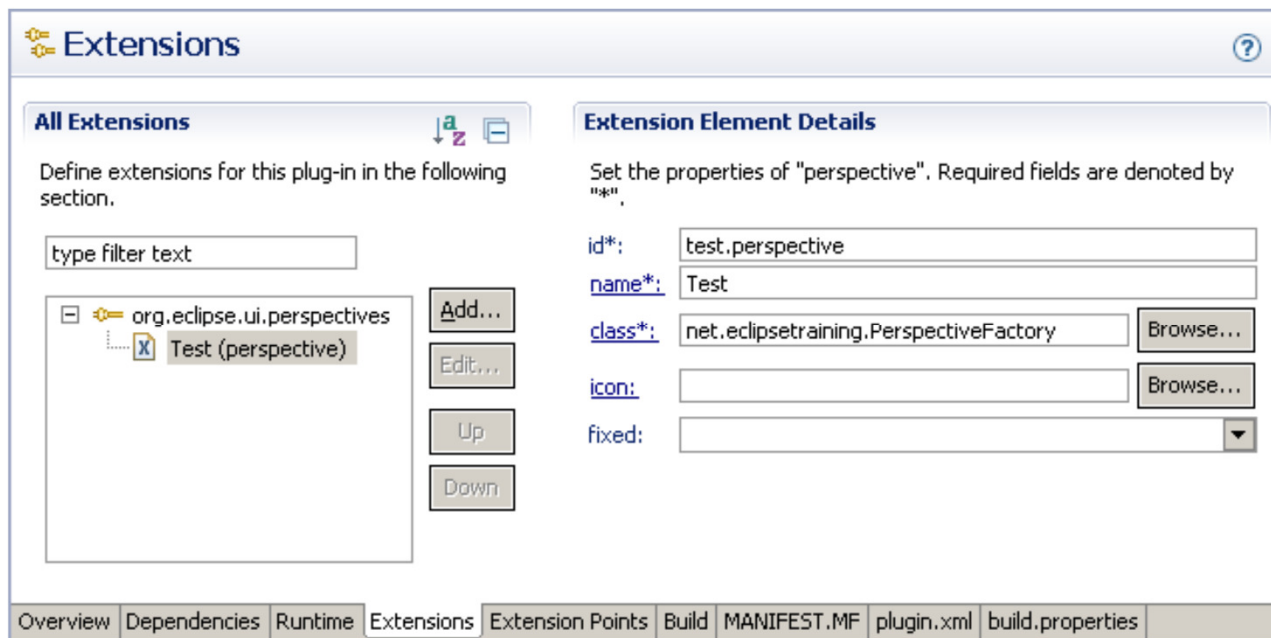


- Dozens of extension points are provided by the Eclipse platform
- plug-ins and can be used to extend Eclipse and its workbench
- Examples for workbench extension points:
 - `org.eclipse.ui.perspectives`
 - `org.eclipse.ui.views`
 - `org.eclipse.ui.editors`
 - `org.eclipse.ui.newWizards`
- Full extension point reference: Help > Platform Plug-in Developer Guide > Reference > Extension Points Reference
- Declare new extension points to make your plug-ins extensible

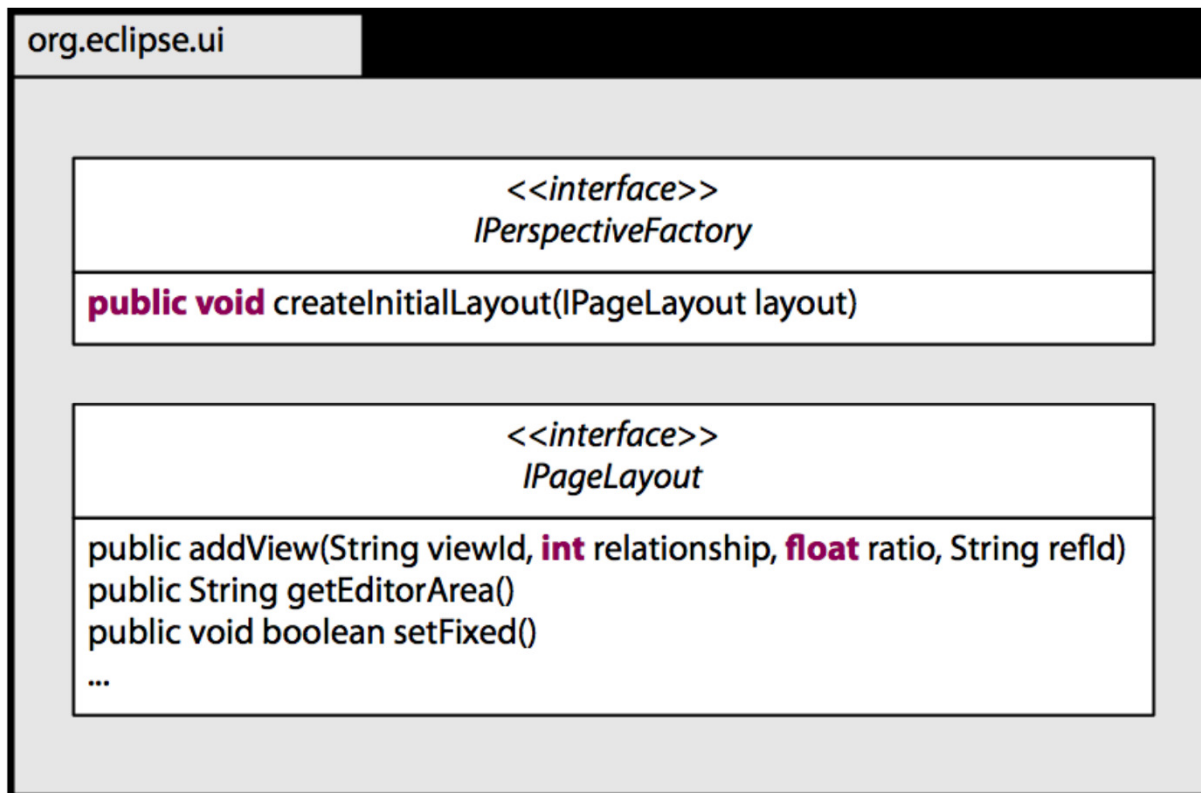
- A perspective defines the arrangement (size and position) of workbench elements like views and editors
- It can define items for the menu and toolbar
- Perspectives can be switched by the user, for example using the PerspectivesBar
- Typically used for "bundling" of application- or role-specific functionalities, e.g.: end user mode, administration mode, report mode etc.



- Perspectives can be contributed using the extension point **org.eclipse.ui.perspectives**



- The specified PerspectiveFactory class configures the initial layout of the perspective



```
public class Perspective implements IPerspectiveFactory {  
  
    public void createInitialLayout(IPageLayout layout) {  
        String editorArea = layout.getEditorArea();  
        layout.setEditorAreaVisible(false);  
  
        layout.addView(NavigationView.ID, IPageLayout.LEFT, 0.25f,  
            editorArea);  
  
        IFolderLayout folder = layout.createFolder("messages",  
            IPageLayout.TOP, 0.5f, editorArea);  
        folder.addPlaceholder(View.ID + ":*");  
        folder.addView(View.ID);  
  
        layout.getViewLayout(NavigationView.ID).setCloseable(false);  
    }  
}
```


- Create a RCP Application
- Add two (or more) views to your application
- Add two perspectives to your application and implement the layout in the perspective factory
- Enable the perspective tool bar (see snippets)
- Try to configure your perspective using the code-snippets

Vielen Dank für Ihre Aufmerksamkeit



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