

# How to change the text/icon displayed...

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[Pete Hendry](#) 4 posts since

Aug 21, 2002

I'd like to add new information to each file in the project view (and possibly package view). This may include the directories/package names as well. This information may be in iconic form or it may be text (prefixed or suffixed to the default text).

So, if I have a project view with directory structure

```
src/  
  com/  
    example/  
      Test.java
```

I may want to show something like

```
100 src/  
100 com/  
100 example  
89 Test
```

or perhaps an icon before each file to show if it is read-only.

How to change the text/icon displayed...

If this is possible, then how is it handled differently if the option to flatten empty packages is selected? So I may want

100 com.example

89 Test

in the package view.

Thanks for any pointers. I've gone through the OpenAPI stuff 3 or 4 times now and no joy.

It will be nice when this is finally documented to a standard that is usable. I'm sure it is a great API but not really usable currently without a lot of wasted time (which will put off so many plugin writers unfortunately).



Guest 1. **Re: How to change the text/icon displayed for each file/directory in project view** Jan 30, 2006 3:01 PM

Hello Pete,

You can achieve this by implementing the `TreeStructureProvider` interface and replacing the standard file nodes passed to your `modify()` method with your custom nodes inherited from the `AbstractTreeNode` class. Your implementation of `AbstractTreeNode.update()` can modify the icons or text of the node by setting the fields of the `PresentationData` instance passed to that method.

We understand that the current OpenAPI documentation is not always adequate

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for accomplishing complex tasks like this one, but we're constantly working on improving the documentation.

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Dmitry Jemerov

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"Develop with pleasure!"

How to change the text/icon displayed...



[StanAccy](#) 495 posts since

Mar 18, 2003 2. **Re: How to change the text/icon displayed for each file/directory in project view** Feb 5, 2010 10:39 PM

Dmitry

How do you register this new Implementation with IDEA so that the custom code gets called?



[StanAccy](#) 495 posts since

Mar 18, 2003 3. **Re: How to change the text/icon displayed for each file/directory in project view** Feb 11, 2010 11:07 PM

Here's how I got this to work (with no thanks to the SDK documentation):

I make no reps as to whether this is the best way to achieve this functionality.

Add the following to your plugins META-INF/plugin.xml:

```
<extensions defaultExtensionNs="com.intellij"> <iconProvider
implementation="com.test.TestIconProvider"/></extensions>
```

then implement this class:

```
public class TestIconProvider extends IconProvider{ private final Icon icon;
public TestIconProvider() { this.icon = IconLoader.getIcon( "test_icon.PNG" ); }
```

How to change the text/icon displayed...

```
@Override public Icon getIcon( @NotNull PsiElement psiElement, int i ) {  
    Language language = psiElement.getLanguage(); String languageDisplayName =  
    language.getDisplayName();  
  
    if( !languageDisplayName.equals( "XML" ) ) { return null; }  
  
    if( psiElement.getText().contains( "<somepecificxmlstringthatdefinesyourcustomxml" ) ) {  
    return icon; } else { return null; } } }
```



[Alexey Java](#) 45 posts since

May 18, 2011 4. **Re: How to change the text/icon displayed for each file/directory in project view** Jun 7, 2011 2:25 AM

add to the "extensions" section of plugin.xml file:

```
<!-- Provides icons for ..... files shown in the Project View -->  
  
<iconProvider implementation="gw.plugin.ij.MylIconProvider"/>
```

the class file:

```
public class MyIconProvider extends IconProvider {  
  
    private Map<String, Icon> icons = new HashMap<String, Icon>();  
  
    public MyIconProvider() {
```

How to change the text/icon displayed...

```
icons.put(GosuClassFileType.EXT, Gosulcons.FILE_CLASS);
```

```
icons.put(GosuProgramFileType.EXT, Gosulcons.FILE_PROG);
```

```
icons.put(GosuEnhancementFileType.EXT, Gosulcons.FILE_ENH);
```

```
}
```

```
@Override
```

```
public Icon getIcon(@NotNull PsiElement psiElement, int i) {
```

```
    String fileExtension = psiElement.getContainingFile().getVirtualFile().getExtension();
```

```
    return icons.get(fileExtension);
```

```
}
```

```
}
```