APRENDIZAJE eclipse-plugin

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#eclipseplugin

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Capítulo 1: Empezando con eclipse-plugin

Observaciones

Esta sección proporciona una descripción general de qué es eclipse-plugin y por qué un desarrollador puede querer usarlo.

También debe mencionar cualquier tema grande dentro de eclipse-plugin, y vincular a los temas relacionados. Dado que la Documentación para eclipse-plugin es nueva, es posible que deba crear versiones iniciales de esos temas relacionados.

Examples

Instalación o configuración

Suponiendo que tiene Eclipse IDE para desarrolladores de Java instalado, inicie Eclipse, haga clic en " *Ayuda* " -> " *Instalar nuevo software ...* "

Help	
3	Welcome
?	Help Contents
2	Search
	Show Contextual Help
	Show Active Keybindings Ctrl+Shift+L
	Tips and Tricks
æ	Report Bug or Enhancement
	Cheat Sheets
æ	Perform Setup Tasks
<i>~</i>	Check for Updates
\$	Install New Software
89	Installation Details
\$	Eclipse Marketplace
۲	About Eclipse

Seleccione "--Todos los sitios disponibles-- " en " Trabajar con: " y navegue hasta " Herramientas de desarrollo de complementos de Eclipse ". Seleccione " Eclipse Plug-in Development Environment " marcando la casilla de verificación delante de él.

🖨 Install	— D	×
Available Software Check the items that you wish to install.		
Work with:All Available Sites Find n	→ <u>A</u> d nore software by working with the <u>"Available Software Sites"</u> pre	d ferences.
type filter text		
Name > 000 Database Development > 000 Eclipse CVS Client > 000 Eclipse Java Development Tools > 000 Eclipse Platform > 000 Eclipse Platform SDK > 000 Eclipse Plugin Development Tools > 000 Eclipse Plug-in Developer Resources > 000 Eclipse Plug-in Development Environment > 000 Eclipse Plug-in Development Environment > 000 Eclipse RCP Target Components > 000 Eclipse SDK > 000 Eclipse Target Platform Components > 000 EclipseRT Target Platform Components > 000 Eclipse Tools > 000 General Purpose Tools > 000 JAutodoc > 000 Linux Tools 000 Linux Tools 000 Linux Tools 000 Linux Tools Eclipse plug-in development environment. Eclipse plug-in development environment.	Version 3.12.0.v20160606-1100 3.12.0.v20160606-1100	∧ ↓ More
 Show only the latest versions of available software <u>G</u>roup items by category Show only software applicable to target environment <u>C</u>ontact all update sites during install to find required software 	Hide items that are already installed What is <u>already installed</u> ?	
?	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Car	ncel

Haga clic en " *Siguiente* " para permitir que Eclipse verifique las dependencias necesarias. Haga clic en " *Siguiente* " de nuevo para iniciar la instalación.

Una vez que haya terminado, reinicie Eclipse.

Hola Mundo

Para crear un complemento de Hello World para Eclipse, haga clic en: Archivo -> Nuevo -> Otro ...

• w	orkspa	ice - Java	- Eclipse								
File	Edit	Source	Refactor	Navigate	Search	Project	Run	Wind	ow	Help	
	New					Alt+Shi	ft+N >	12	Java	Project	
	Open	File							Proj	ect	
	Open	Projects f	rom File Sy	stem				B	Pac	kage	
	Close					Ct	rl+W	Ø	Clas	is	
	Close	All				Ctrl+Shif	t+W	œ	Inte	rface	
r=1	Save					0	trl+S	₽ 3	Sou	rce Folder	
	Save A	۷۲						œ	Enu	m	
R	Save A	All				Ctrl+Sh	ift+S	@	Ann	otation	
	Rever	t						含	Java	Working Set	
	Maria							E	JUni	it Test Case	
	Poppe						E2	Ê	Unti	itled Text File	
ล	Pefrer	не					F2	Ċ	Fold	ler	
\$ <u>.</u>	Conve	ert Line De	elimiters To				\$		File		
	conv		chirineers ro					2	Exar	mple	
	Print.	•				C	trl+P	F 9	Oth	er	Ctrl+Shift+N
	Switch	h Workspa	ace				>				
	Restar	t									

Seleccione Proyecto de complemento y haga clic en Siguiente>

e New	—		×
Select a wizard		F	-\$
<u>W</u> izards:			
type filter text			
🗸 🗁 Plug-in Development			^
Category Definition			
Component Definition Forense			
Feature Patch			
🙀 Feature Project			
* Fragment Project			
Plug-in from Existing JAR Archives			
Product Configuration			
Target Definition			
♦ Update Site Project			~
(?) < <u>Back</u> <u>Next</u> > <u>Finish</u>		Cano	cel

El asistente *Nuevo proyecto de complemento* lo guiará a través de las opciones para crear un nuevo complemento.

Ingrese un nombre de proyecto (como HelloWorld) y haga clic en Siguiente>

🖨 New Plug-in Project	—		×
Plug-in Project Create a new plug-in project			
Project name: HelloWorld			
Location: C:\Users\ \workspace\HelloWorld		B <u>r</u> ows	e
Project Settings Create a <u>J</u> ava project			
Source folder: src Output folder: bin			
Target Platform This plug-in is targeted to run with:			
● <u>E</u> clipse version: 3.5 or greater ∨ ○ <u>a</u> n OSGi framework: Equinox ∨			
Working sets			
Add project to working sets		Ne <u>w</u>	
W <u>o</u> rking sets:	\sim	S <u>e</u> lect	
? < <u>Back</u> <u>Next</u> > <u>Finish</u>		Can	cel

En la página *Contenido*, puede configurar el *ID*, la *versión*, el *nombre* y el *proveedor* del complemento.

La versión será *1.0.0.qualifier* por defecto. Puede dejar esto como está, pero es mejor cambiarlo por algo significativo. El wiki de eclipse recomienda una sintaxis como vYYYYMMDD (año, mes, día).

🖨 New Plug-in Project		– D X					
Content Enter the data required to	generate the plug-in.						
Properties							
<u>I</u> D:	HelloWorld						
Version:	1.0.0.201701010000						
N <u>a</u> me:	HelloWorld						
Ven <u>d</u> or:	HelloWorldVendor ~						
Execution Environment:	JavaSE-1.8 V Envi <u>r</u> onments						
Options <u>G</u> enerate an activator, Activator: hellowor This plug-in will make Enable API analysis	, a Java class that controls the plug-in' Id.Activator e contributions to the UI	s life cycle					
Rich Client Application Would you like to create	a rich client application?	⊖ <u>Y</u> es					
?	< <u>B</u> ack <u>N</u> ext > <u>F</u> i	nish Cancel					

En la página *Plantillas*, puede elegir crear su complemento desde cualquier plantilla seleccionándolo y haciendo clic en *Siguiente>*. Alternativamente, puede combinar estas plantillas seleccionando el *asistente de complemento personalizado*, o para crear un nuevo complemento sin una plantilla, deseleccionando la casilla de verificación frente a *Crear un complemento usando una de las plantillas*.

🖨 New Plug-in Project	– D X
Templates Select one of the available templates to gener	ate a fully-functioning plug-in.
<u>Create a plug-in using one of the templates</u> <u>Available Templates:</u>	;
 Custom plug-in wizard Hello, World Command Plug-in with a multi-page editor Plug-in with a popup menu Plug-in with a property page Plug-in with a view Plug-in with an Eclipse 4 handler Plug-in with an Eclipse 4 view Plug-in with an editor Plug-in with an incremental project build Plug-in with sample help content 	 This wizard creates standard plug-in directory structure and adds the following: Command contribution. This template creates a simple command contribution that adds Sample Menu to the menu bar and a button to the tool bar. Both the menu item in the new menu and the button invoke the same Sample Action. Its role is to open a simple message dialog with a message of your choice. Extensions Used org.eclipse.ui.commands org.eclipse.ui.handlers
? < <u>B</u> ack <u>N</u> ex	xt > <u>F</u> inish Cancel

Para la plantilla *Hello, World Command*, hay configuraciones adicionales: el nombre del paquete, el nombre de la clase del manejador y el texto del cuadro de mensaje.

🖨 New Hello World	—		×				
Sample Command	-0						
menu item and a too			P				
<u>J</u> ava Package Name:	helloworld.handlers						
<u>H</u> andler Class Name:	SampleHandler						
<u>M</u> essage Box Text:	Hello, Eclipse world						
?	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish		Cance	I			

Cuando se crea el complemento, puede ejecutarlo haciendo clic con el botón derecho en el plugin.xml → Ejecutar como cl Aplicación Eclipse Esto lanzará una nueva instancia de Eclipse (con su propio espacio de trabajo) que tendrá su complemento cargado.

ቹ Package Explorer 🛛		🖻 🕏	\bigtriangledown	🚯 HelloWorld	X	
 ✓ ¹/₂ Other Projects ✓ ²/₂ HelloWorld 				🔂 Overvie	W	
> 🛋 JRE System	Library [JavaSE-1.8]					
> 🛋 Plug-in Der	pendencies			General Info	mation	
> 🕭 src				This section of	escribes general information about this	plug-in.
> 🗁 icons				ID:	HelloWorld	
> 🗁 Meta-Inf				Version:	1.0.0.20170101000	
🗟 build.prope	erties			Name:	HelloWorld	
International statements and the statement of the stat	New			>	HelloworldVendor	
	0			52		
	Open			F3		
	Open With			>	s plug-in when one of its classes is load	ed
	Show In			Alt+Shift+W >	is a singleton	
	Сору			Ctrl+C		
E	Copy Qualified Name				ironments	
i i i i i i i i i i i i i i i i i i i	Paste			Ctrl+V	nimum execution environments require	d to run t
×	Delete			Delete		
	Duild Date					
	Build Path			ALL CLIC T.		
	Refactor			Alt+Shift+1 >		
2	Import					
2	Export					
	Refresh				associations	
Q.	Assign Washing Sate				sspath settings	
	Assign working sets					
	Validate				. ·	D 1 1
	Run As			>	1 Eclipse Application Alt+SI	nift+X, E
	Debug As			>	🕀 2 OSGi Framework Alt+Sh	ift+X, O
	Profile As			>	Pup Configurations	
	Team			>	Kun Conngulations	

Este complemento de Hello World habrá realizado 3 contribuciones a la GUI de Eclipse:

1. Un menú de muestra (con comando de muestra):

🖨 runtime-EclipseApplication - Resource - Eclipse Platform									
File	Edit	Navigate	Search	Project	Run	Sample Menu	Window	Help	
1	• 🖆	- 8 6	• 9	• - 8	- 1 🖢	Sample C	ommand	Ctrl+6	
P	roject	Explorer 🔀					E 4	\$	
Plug	in.xm	nl:							

```
<extension
      point="org.eclipse.ui.menus">
   <menuContribution
         locationURI="menu:org.eclipse.ui.main.menu?after=additions">
      <menu
            label="Sample Menu"
            mnemonic="M"
            id="HelloWorld.menus.sampleMenu">
         <command
               commandId="HelloWorld.commands.sampleCommand"
               mnemonic="S"
               id="HelloWorld.menus.sampleCommand">
         </command>
      </menu>
   </menuContribution>
</extension>
```

2. Un icono de la barra de herramientas:



Plugin.xml:

```
<extension

point="org.eclipse.ui.menus">

<menuContribution

locationURI="toolbar:org.eclipse.ui.main.toolbar?after=additions">

<toolbar

<itoolbar

id="HelloWorld.toolbars.sampleToolbar">

<command

commandId="HelloWorld.commands.sampleCommand"

icon="icons/sample.gif"

tooltip="Say hello world"

id="HelloWorld.toolbars.sampleCommand">

</command>

</command>

</toolbar>

</menuContribution>

</extension>
```

3. Un atajo de tecla (Ctrl + 6)

Plugin.xml:

```
<extension
    point="org.eclipse.ui.bindings">
    <key
        commandId="HelloWorld.commands.sampleCommand"
        contextId="org.eclipse.ui.contexts.window"
        sequence="M1+6"
        schemeId="org.eclipse.ui.defaultAcceleratorConfiguration">
        </key>
```

Al activar cualquiera de estos 3, la clase Handler se ejecutará:

Plugin.xml:

```
<extension
      point="org.eclipse.ui.commands">
   <category
         name="Sample Category"
         id="HelloWorld.commands.category">
   </category>
   <command
         name="Sample Command"
         categoryId="HelloWorld.commands.category"
         id="HelloWorld.commands.sampleCommand">
   </command>
</extension>
<extension
      point="org.eclipse.ui.handlers">
   <handler
         commandId="HelloWorld.commands.sampleCommand"
         class="helloworld.handlers.SampleHandler">
   </handler>
</extension>
```

SampleHandler.java:

```
package helloworld.handlers;
import org.eclipse.core.commands.AbstractHandler;
import org.eclipse.core.commands.ExecutionEvent;
import org.eclipse.core.commands.ExecutionException;
import org.eclipse.ui.IWorkbenchWindow;
import org.eclipse.ui.handlers.HandlerUtil;
import org.eclipse.jface.dialogs.MessageDialog;
/**
 \star Our sample handler extends <code>AbstractHandler</code>, an <code>IHandler</code> base class.
 * @see org.eclipse.core.commands.IHandler
 * @see org.eclipse.core.commands.AbstractHandler
 */
public class SampleHandler extends AbstractHandler {
    @Override
    public Object execute(ExecutionEvent event) throws ExecutionException {
        IWorkbenchWindow window = HandlerUtil.getActiveWorkbenchWindowChecked(event);
        MessageDialog.openInformation(
                 window.getShell(),
                 "HelloWorld",
                 "Hello, Eclipse world");
        return null;
    }
}
```

Cuando se ejecute la clase Handler, MessageBox mostrará:



Esto es todo lo que hace el plug-in Hello World.

Si desea crear un complemento con más funcionalidad, podría haber elegido la plantilla que mejor se adapte a sus necesidades o crear un complemento a través del *asistente de complemento personalizado* para combinar estas plantillas:

New plug-in project with custom templates	□ ×
Template Selection Choose templates that will contribute content to this plug-in from the list. Click on a template entry to read its description.	-0
<u>A</u> vailable Templates:	
Name Extension Point	Select All
•= template.commonNavigat org.eclipse.ui.navigator.Com •= lcon Decorator •= lcon Decorator	D <u>e</u> select All Select
Grand Control of	Deselect
General Welcome Contri	
16 of 16 selected.	
This template creates an incremental project builder and a project nature. The sample builder checks XML files in the project and adds a problem marker to not well formed files. The builder runs for projects of the sample nature. Select "Enable Sample Buider" or "Disable Sample Builder" command from the "Configure" section of a project context menu, to toggle the nature on a project.	
(<u>Back</u> <u>Next</u> > <u>Finish</u>	Cancel

Lea Empezando con eclipse-plugin en línea: https://riptutorial.com/es/eclipse-plugin/topic/4982/empezando-con-eclipse-plugin

Creditos

S. No	Capítulos	Contributors
1	Empezando con eclipse-plugin	Community, KompjoeFriek