



★ **Google App Engine**

Using the Google Plugin for Eclipse

It's easy to use [the Eclipse development environment](#) to develop your Java App Engine application, just as you can to develop any other servlet-based web application. With the Google Plugin for Eclipse, it's even easier. The plugin lets you create, test and upload App Engine applications from within Eclipse.

The Google Plugin for Eclipse also makes it easy to develop applications using [Google Web Toolkit](#) (GWT), to run on App Engine or in any other environment.

This article describes how to install the Google Plugin for Eclipse, create a new App Engine project, and debug it using the development server running within Eclipse. The article also describes how to use the plugin to upload your project to App Engine.

For more information about the plugin, including how to use it for Google Web Toolkit projects, see [the Google Plugin for Eclipse documentation](#).

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Getting Eclipse

The Google Plugin for Eclipse is available for Eclipse 3.3 (Europa), Eclipse 3.4 (Ganymede) and Eclipse 3.5 (Galileo). The "Eclipse IDE for Java EE Developers" includes all of the components you will need for web application development.

In addition to the Google Plugin for Eclipse, we recommend the Web Tools Platform (WTP) plugins for web development. See [the Web Tools Platform website](#). Among other things, WTP provides editing modes for JSP and HTML files.

Installing the Google Plugin for Eclipse

You can install the Google Plugin for Eclipse using the Software Update feature of Eclipse.

To install the plugin, using **Eclipse 3.6 (Helios)**:

1. Select the **Help** menu > **Install New Software....**
2. In the **Work with** text box, enter:

```
http://dl.google.com/eclipse/plugin/3.6
```

Click the **Add...** button. In the dialog that shows, click **OK** (keep the name blank, it will be retrieved from the update site.)

3. Click the triangle next to "Plugin" and "SDKs". Check the boxes next to "Google Plugin for Eclipse 3.6" and "Google App Engine Java SDK". You can also select the "Google Web Toolkit SDK" if you'd like to use [Google Web Toolkit](#) with your apps. Click the **Next** button. Follow the prompts to accept the terms of service and install the plugin.
4. When the installation is complete, Eclipse prompts you to restart. Click **Yes**. Eclipse restarts. The plugin is installed.

The process for installing the plugin for **Eclipse 3.5 (Galileo)** is almost exactly the same, with only a different install location. The location for the Google Plugin for Eclipse 3.5 is as follows:

- ```
http://dl.google.com/eclipse/plugin/3.5
```

To install the plugin, using **Eclipse 3.4 (Ganymede)**:

1. Select the **Help** menu > **Software Updates...** The "Software Updates and Add-ons" window opens.
2. Select the **Available Software** tab. Click the **Add Site...** button. The "Add Site" window opens. For "Location," enter the install location for the Eclipse 3.4 version of the plugin:

```
http://dl.google.com/eclipse/plugin/3.4
```

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