

# Manual Installation Guide of Implementation Tool

## Outline

This guide provides the installation guide for eGov Framework plug-in installation in Eclipse  
This section is based on Development Environment 3.5.1

## Step 1. Downloading Installation File

### Download Eclipse

1. Launch internet web browser to access the Eclipse website (<http://www.eclipse.org/>) to download Eclipse.
2. Download version **4.4.2**

The screenshot shows the Eclipse website's download page for Eclipse Luna SR2 Packages. The page features a navigation menu with 'GETTING STARTED', 'MEMBERS', 'PROJECTS', and 'MORE'. A search bar and a 'DOWNLOAD' button are also visible. The main content area is titled 'Eclipse Luna SR2 Packages' and lists several development environments. The 'Eclipse IDE for Java EE Developers' package is highlighted with a red box. The list includes:

Package Name	Size	Downloads	Supported OS
Eclipse IDE for Java Developers	155 MB	4,189,010 Times	Windows 32-bit 64-bit Mac Cocoa 32-bit 64-bit Linux 32-bit 64-bit
<b>Eclipse IDE for Java EE Developers</b>	254 MB	2,336,061 Times	Windows 32-bit 64-bit Mac Cocoa 32-bit 64-bit Linux 32-bit 64-bit
Eclipse IDE for C/C++ Developers	165 MB	673,312 Times	Windows 32-bit 64-bit Mac Cocoa 32-bit 64-bit Linux 32-bit 64-bit
Eclipse for PHP Developers	132 MB	385,460 Times	Windows 32-bit 64-bit Mac Cocoa 32-bit 64-bit Linux 32-bit 64-bit
Eclipse IDE for Eclipse Committers 4.4.2	205 MB	328,210 Times	Windows 32-bit 64-bit Mac Cocoa 32-bit 64-bit Linux 32-bit 64-bit
Eclipse for Parallel Application Developers	225 MB	226,117 Times	Windows 32-bit 64-bit Mac Cocoa 32-bit 64-bit Linux 32-bit 64-bit
Eclipse for Testers	107 MB	221,447 Times	Windows 32-bit 64-bit Mac Cocoa 32-bit 64-bit Linux 32-bit 64-bit

3. Select Development Environment in accordance with the version used.  
- 32bit/64bit Version
4. Download and unzip attached files  
✓ We recommend installing the program in C:

## Downloading Plug-ins

1. Launch internet web browser to access the eGovFrame website (<http://www.egovframe.go.kr/>, <http://www.egovframe.kr>) and click on download-development environment.

The screenshot shows the eGovFrame website homepage. At the top, there is a search bar and navigation links: '표준프레임워크 소개', '개발 가이드', '다운로드', '개발자 자원', '정보화사업 적용지원', and '알림마당'. The '다운로드' menu is open, displaying a list of development environments. The '개발환경' (Development Environment) option is highlighted with a red box. Below the menu, there are two columns of news items and a 'Member Login' section on the right.

2. Click on Download 3.x located on the left side of the screen.

The screenshot shows the '다운로드' (Download) page on the eGovFrame website. The '개발환경' (Development Environment) section is selected, displaying a list of download links for various versions. The '3.x 다운로드' link is highlighted. The page also features a '다운로드' banner at the top and a navigation bar with 'HOME > 다운로드 > 개발환경'.

- Log-in, download the plug-in, and unzip the file. For easy access, it is recommended that the file is unzipped on the desktop.

## Step 2. Install Plug-in

### Launching Eclipse

- Run eclipse
  - ✓ If "Fail to create Java Virtual Machine" error occurs, define JVM directory in `eclipse.ini` file, which is located where eclipse is installed.

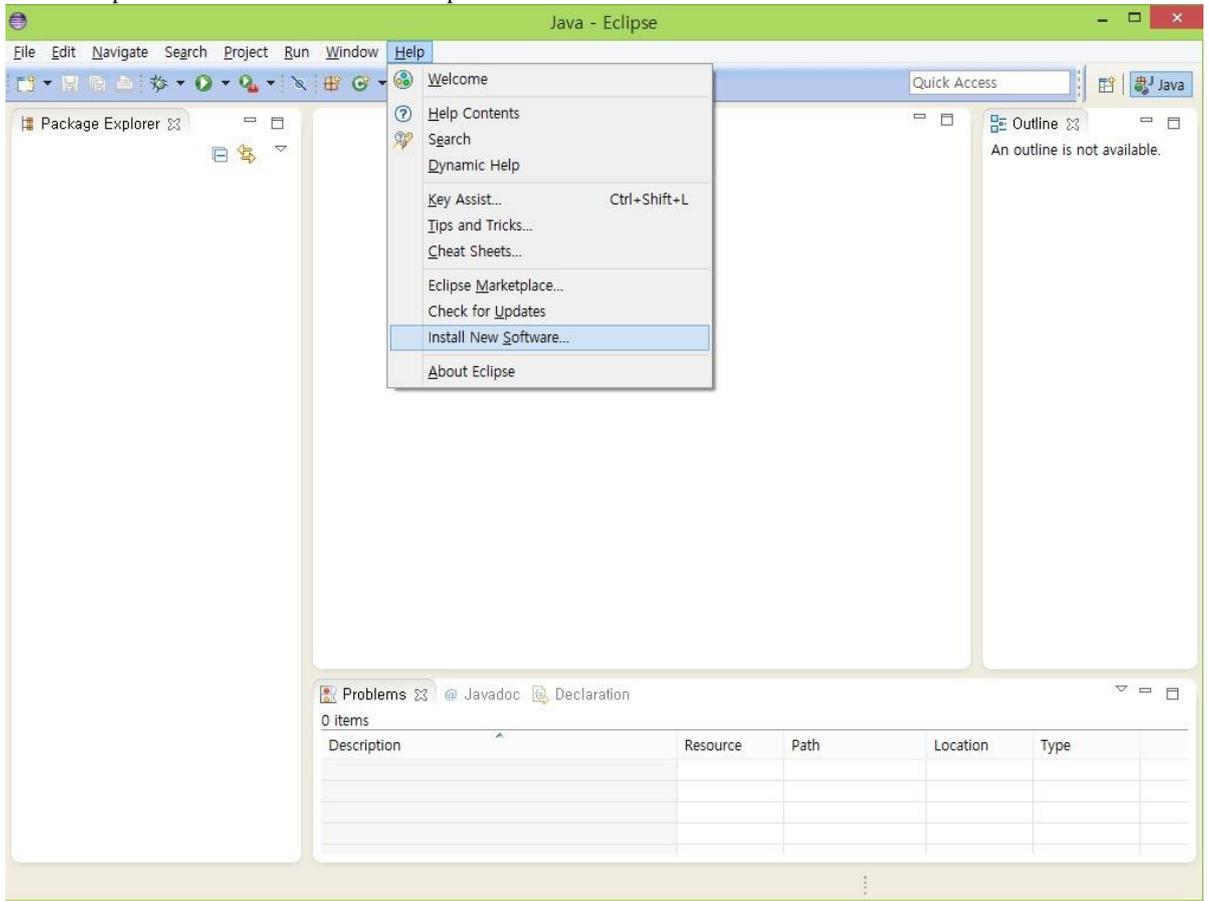
```
-startup
plugins/org.eclipse.equinox.launcher_1.3.0.v20130327-1440.jar
--launcher.library
plugins/org.eclipse.equinox.launcher.win32.win32.x86_1.1.200.v20140116-2212
-product
org.eclipse.epp.package.jee.product
--launcher.defaultAction
openFile
--launcher.XXMaxPermSize
256M
-clearPersistedState
-showsplash
org.eclipse.platform
--launcher.XXMaxPermSize
256m
--launcher.defaultAction
openFile
-vm
C:\weGovFram\bin\jdk1.7.0_21\bin\javaw.exe
--launcher.appendVmargs
-vmargs
-Dfile.encoding=UTF-8
-Dosgi.requiredJavaVersion=1.6
-Xms40m
-Xmx512m
```

✓ JAVA version 1.7 or higher must be installed to use the development environment. Versions **1.7 and 1.8** are both compatible.

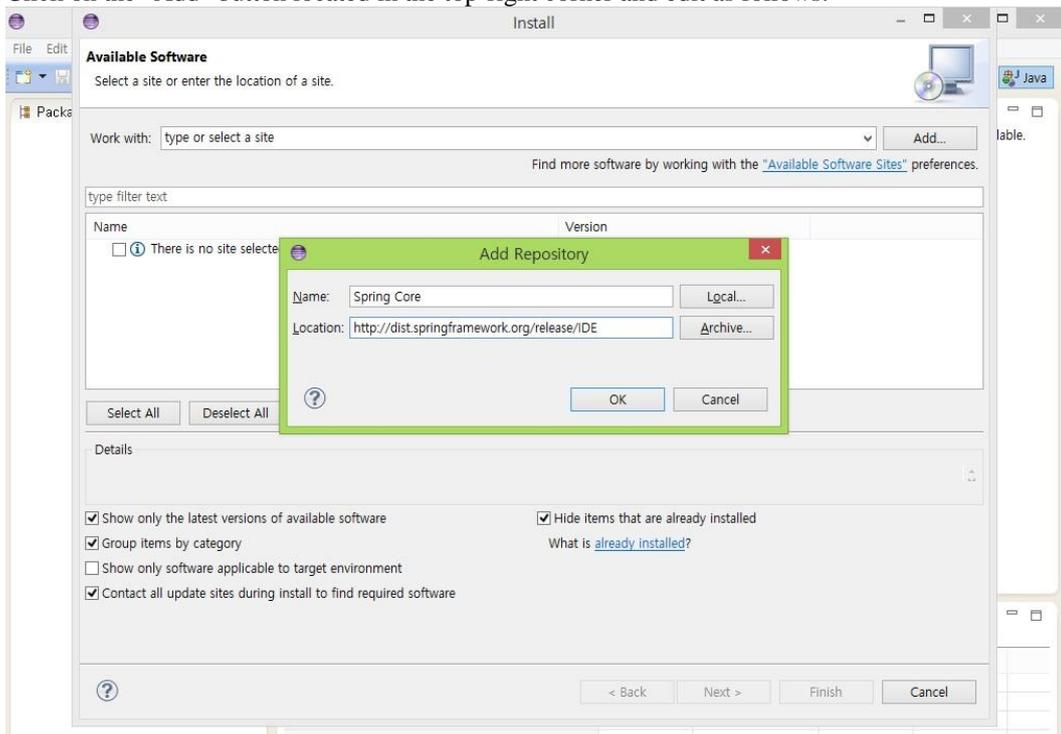
✓ If the **Korean** characters are not correctly displayed in in the configuration file after the plug-in is installed, add the `-Dfile.encoding=UTF-8` option.

# Installation of Spring IDE

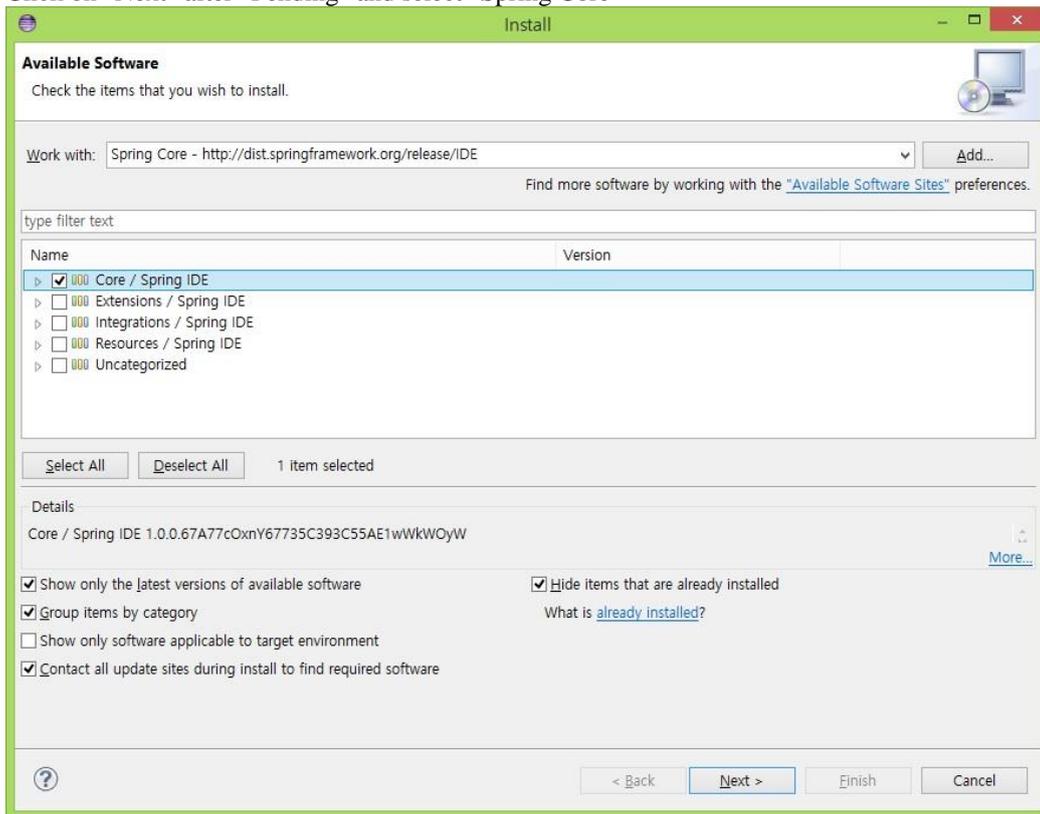
1. Select Help - Install New Software from Eclipse



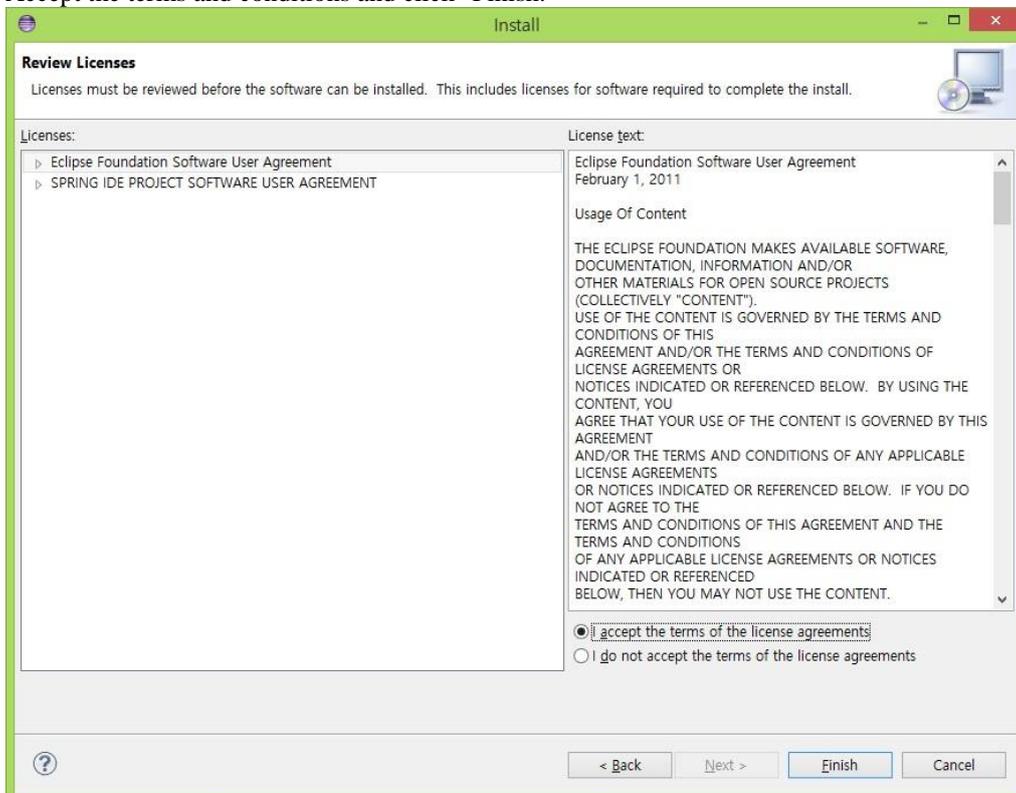
2. Click on the "Add" button located in the top-right corner and edit as follows:



- Click on "Next" after "Pending" and select "Spring Core"



- Accept the terms and conditions and click "Finish."

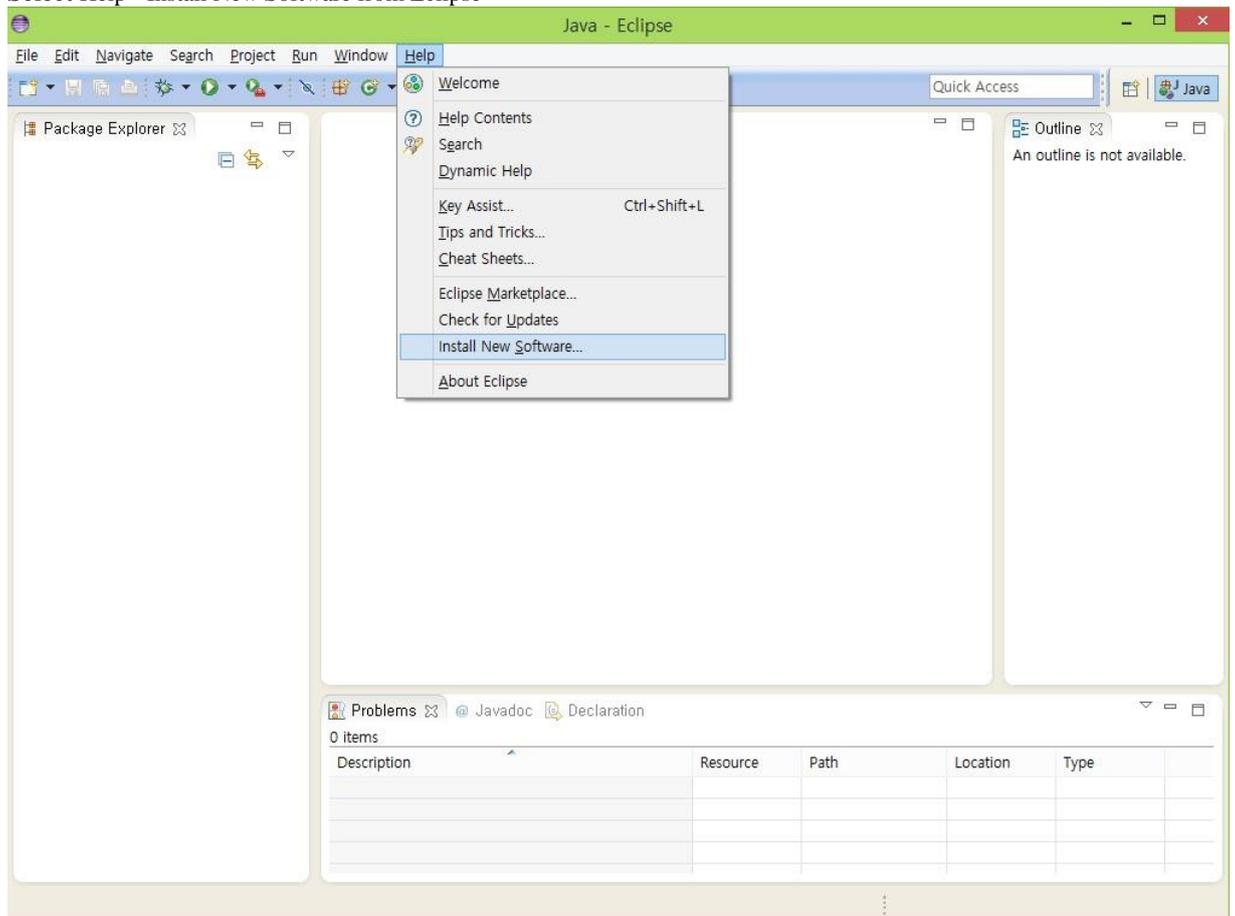


- Restart the program when installation is complete.

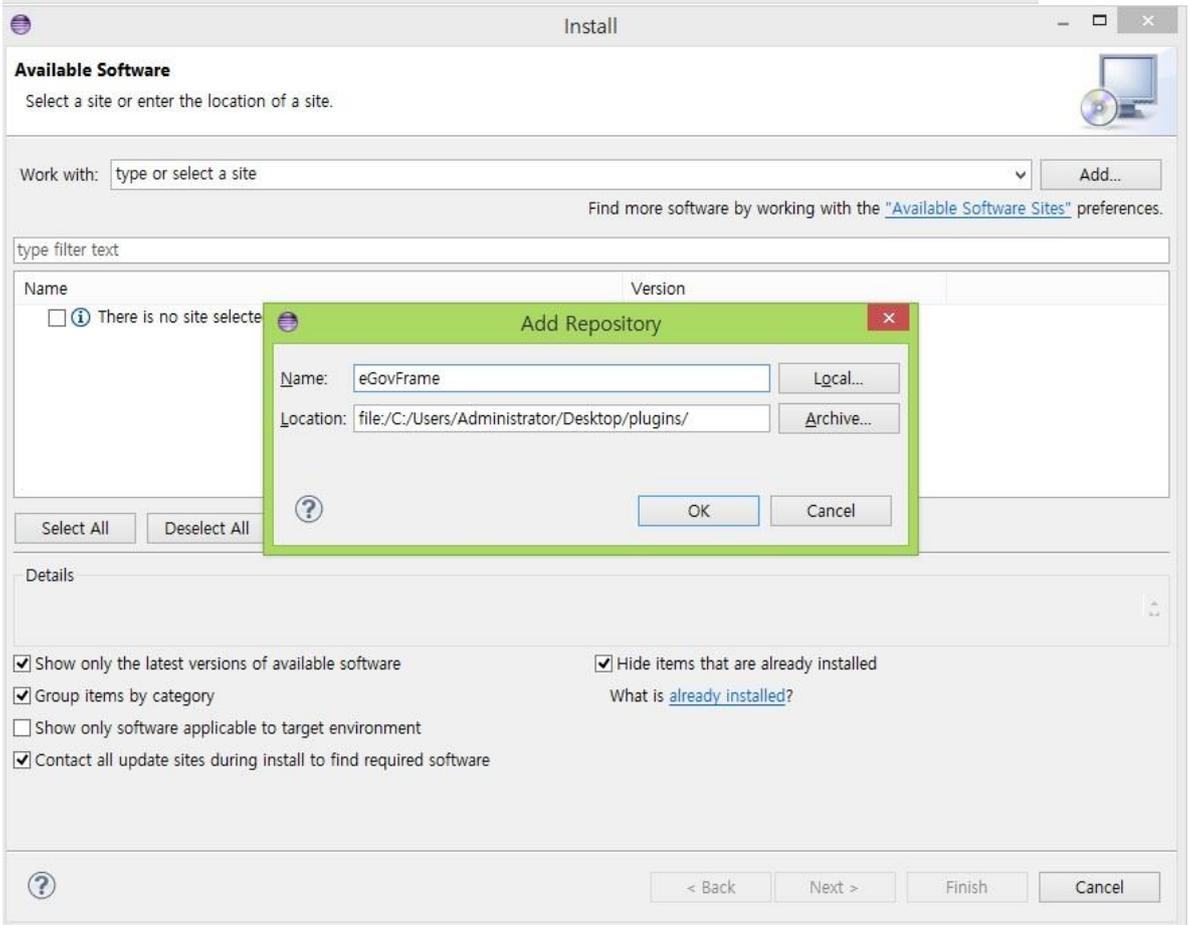
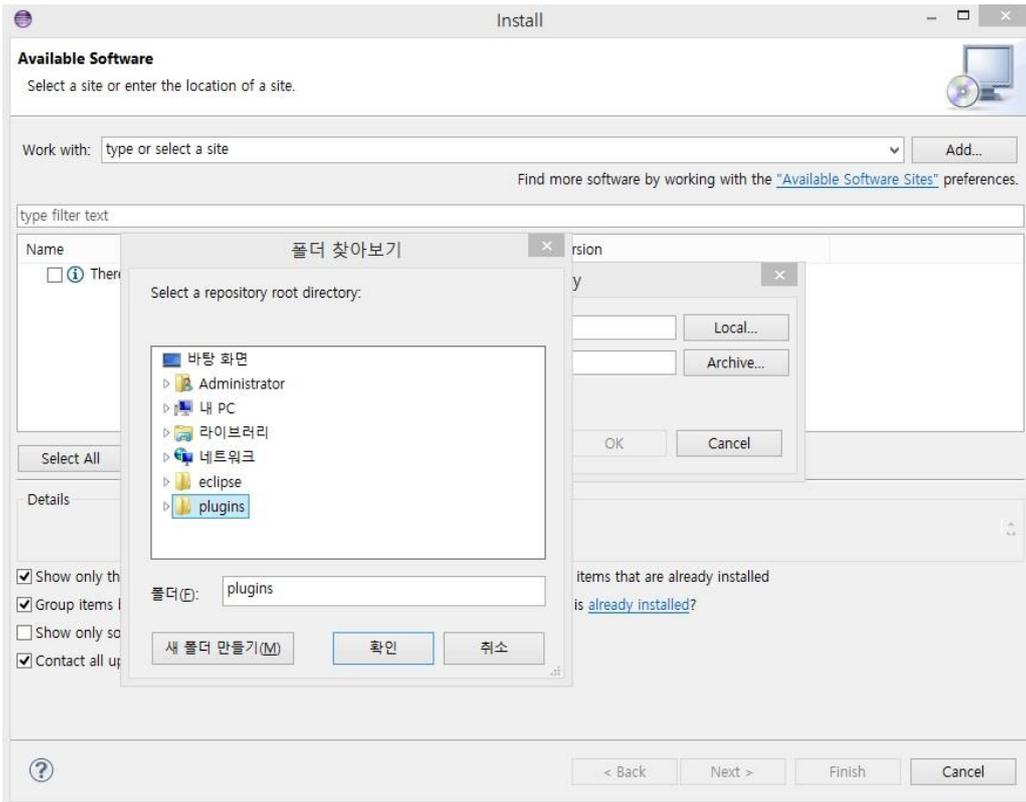
Refer to [Development Environment Installation Guide](#) for information on open SW installation.

## Install eGovFrame Plug-in

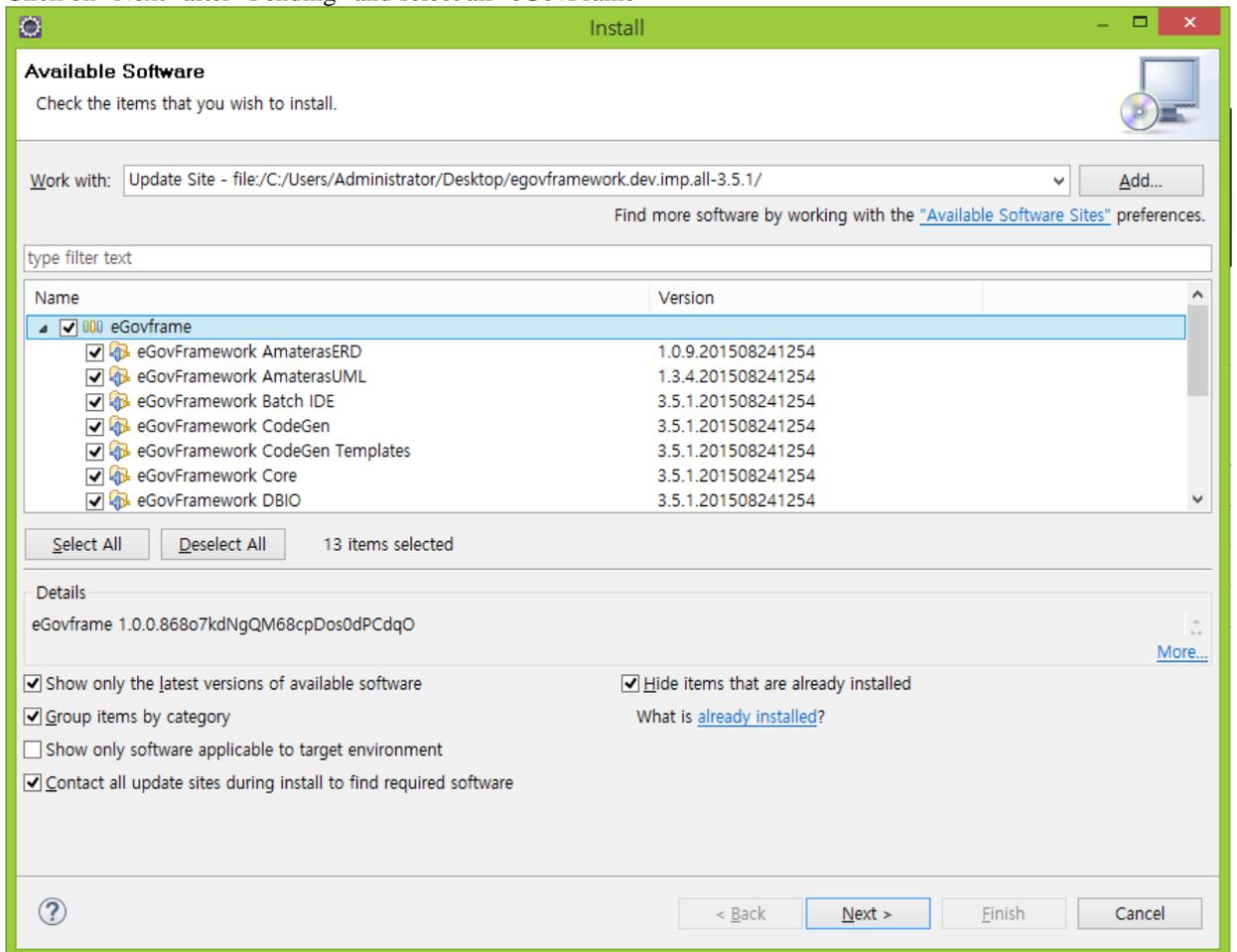
1. Select Help - Install New Software from Eclipse



2. Click on the "Add" button located on the top left corner. Once the "Add Repository" is displayed, click on the "Local" button and designate the folder where the Standard Framework plug-in was downloaded and unzipped.



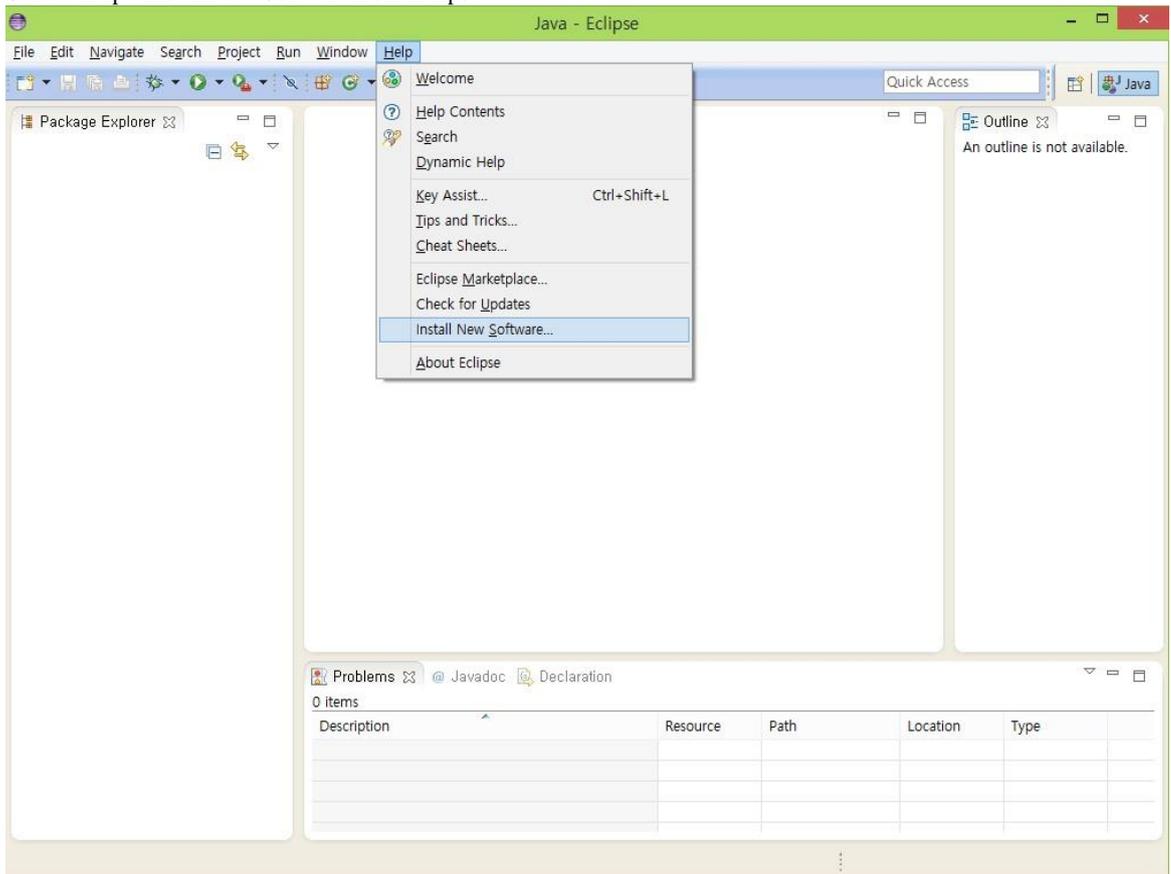
3. Click on "Next" after "Pending" and select all "eGovFrame"



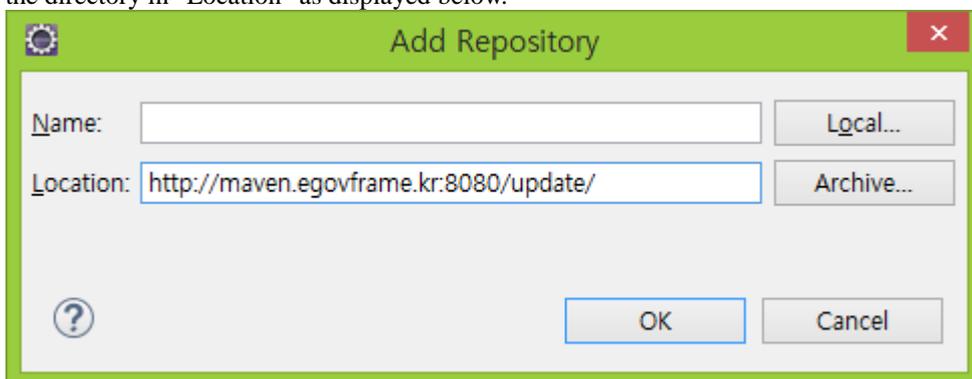
4. Accept the terms and conditions and click "Finish."
5. Restart the program when installation is complete.

## eGovFrame Plug-in Installation from Server

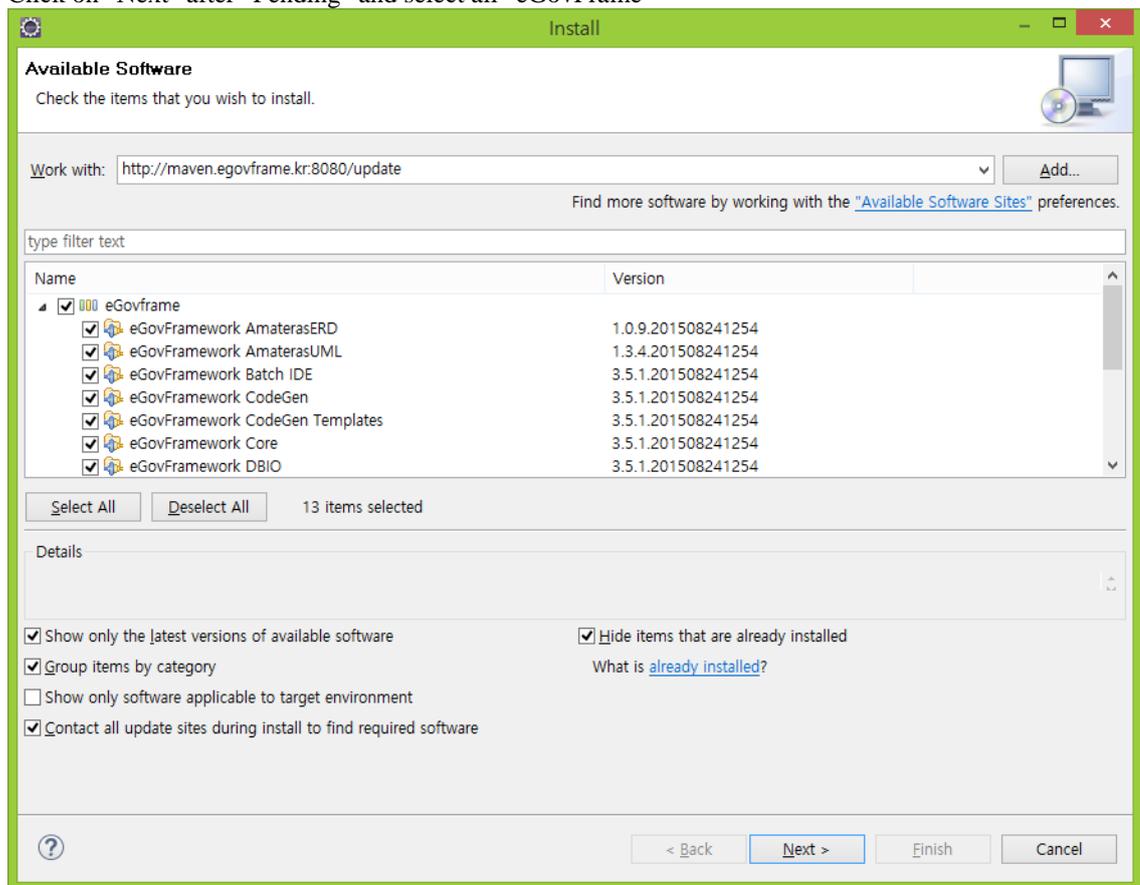
1. Select Help - Install New Software from Eclipse



2. Click on the "Add" button located on the top left corner. When "Add Repository" is displayed, type in the directory in "Location" as displayed below.



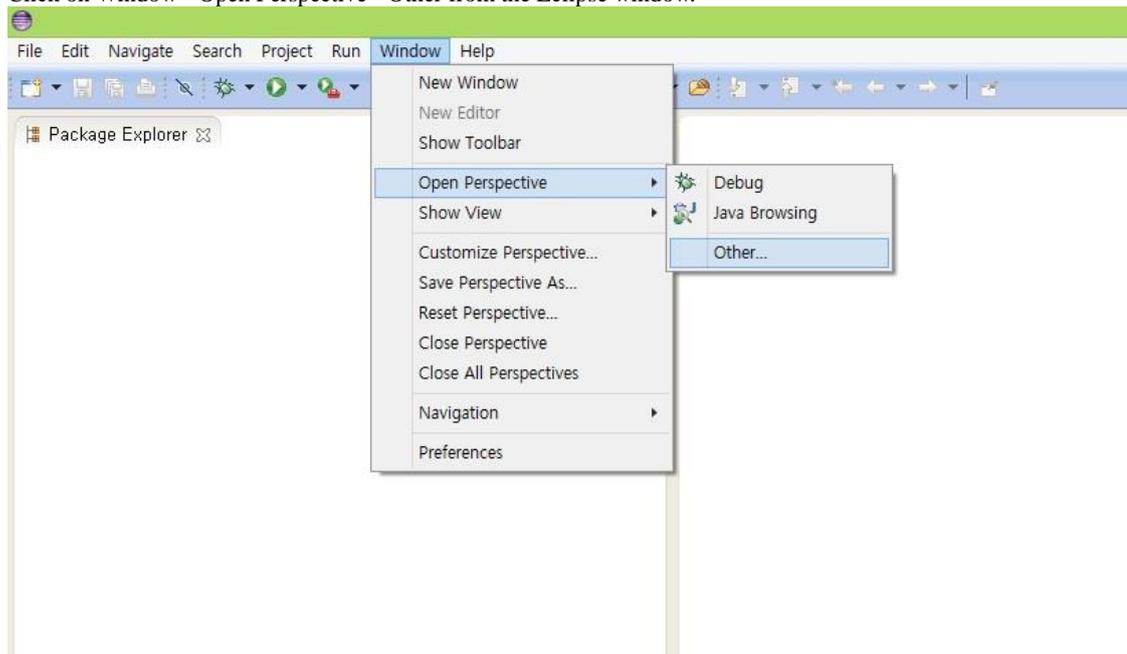
- Click on "Next" after "Pending" and select all "eGovFrame"



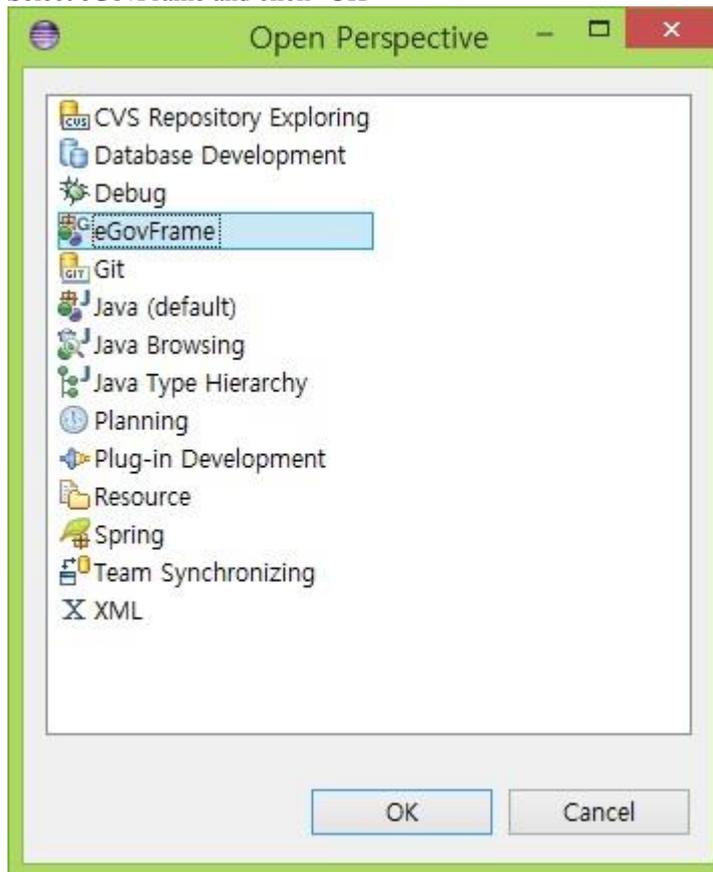
- Accept the terms and conditions and click "Finish."
- Restart the program when installation is complete.

## Confirm Installation

- Click on Window - Open Perspective - Other from the Eclipse window.

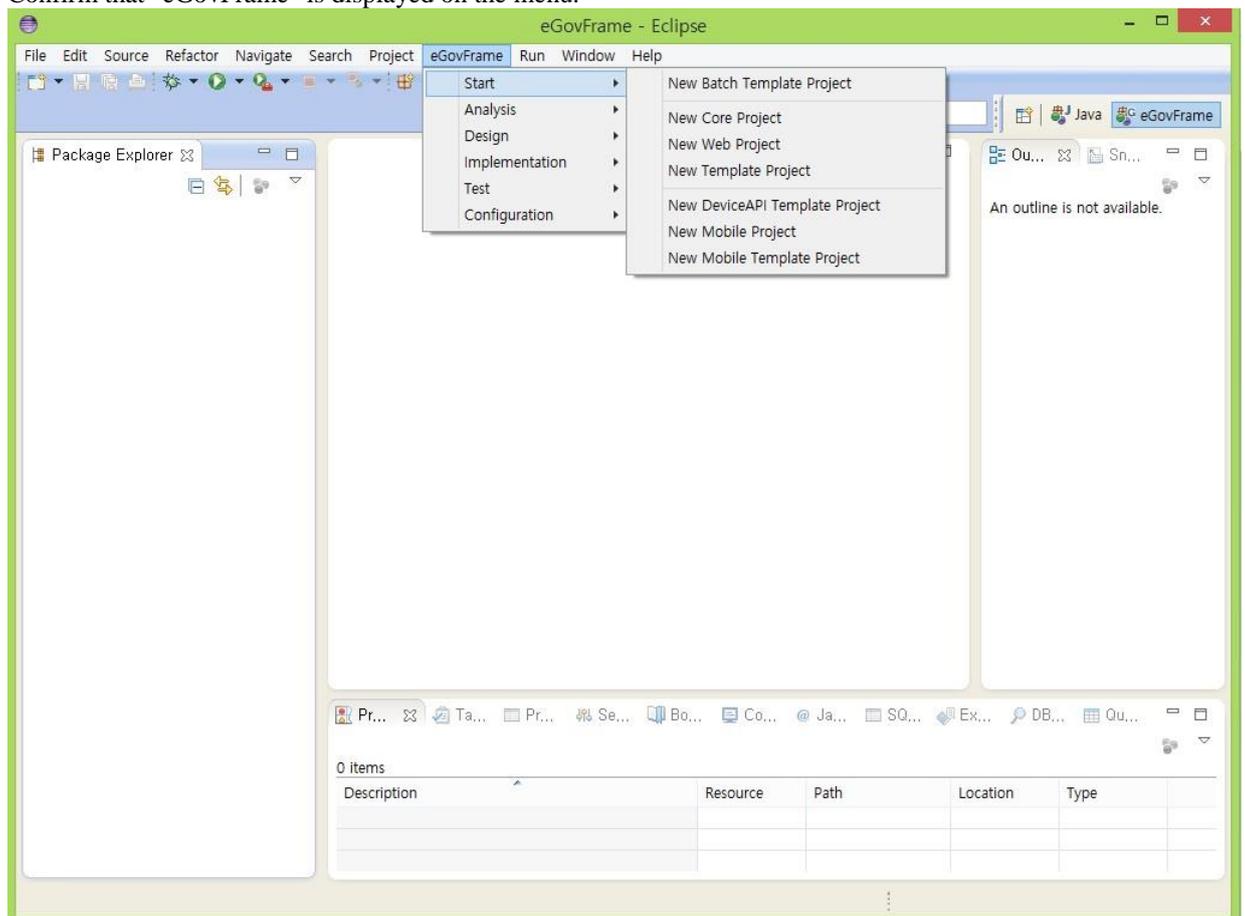


2. Select eGovFrame and click "OK"



3. Click on eGovFrame Perspective located on the top right corner of the main screen.

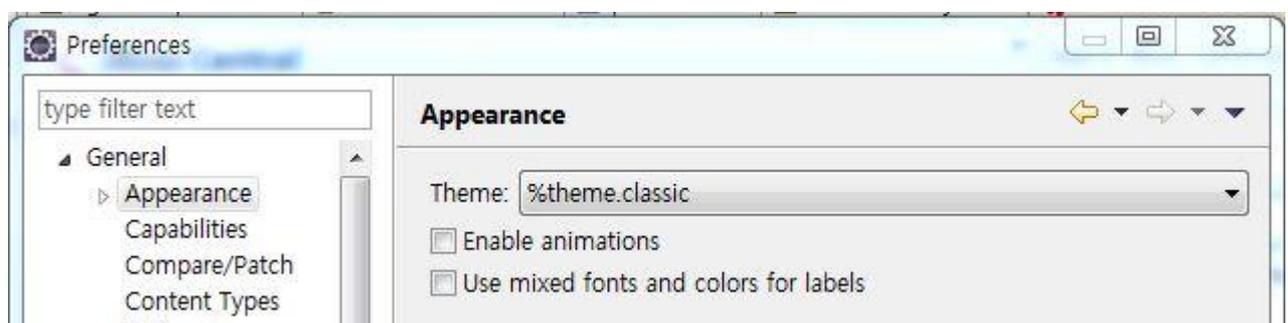
4. Confirm that "eGovFrame" is displayed on the menu.



## Maximum Performance

✓The speed and performance of Eclipse can be enhanced by the following steps: Configuration settings described below are not mandatory. Refer to the following when necessary.

1. Modifying the Eclipse Theme function



1. Go to Window » Preferences » General » Appearance » Theme to change theme as "Classic"
2. Uncheck "Use mixed fonts and colors for labels"
3. Click on "Apply" and re-run Eclipse

## 2. Editing the eclipse.ini file

The following configuration settings can be modified as needed by the following steps.

For memory settings, it is recommended that values proportionate to the computer memory is selected, as follows: (Recommendation: 1~2G : 256m, for 2~3G, 512m, 4G~ : 1024m)

1. Xverify:none  
Skip Class Test. Speeding up the launching process of Eclipse.
2. XX:+UseParallelGC  
Use Parallel Collector. Using Parallel GC
3. XX:-UseConcMarkSweepGC  
GUI response speed is modified by using Parallel Mark-SweepGC function.
4. XX:PermSize=32M  
Standard memory size for Eclipse class loading
5. XX:MaxPermSize=128M  
Maximum memory size for Eclipse class loading
6. Xms256m  
Minimum memory size for Eclipse launching
7. Xmx256m  
Maximum memory size for Eclipse launching