

# **Installation Guide**

## **1. Install Java SDK**

Make sure to install <u>Java SE Development Kit 7</u> or later version for your operating system. Mac OS X users can find some instructions <u>here</u>.

## 2. Install Eclipse

JDeodorant is compatible with Eclipse versions 3.7.x (Indigo), 4.2.x (Juno), 4.3.x (Kepler), 4.4.x (Luna), and 4.5.x (Mars). You can download the latest version for your operating system from <u>here</u>. Make sure to select either the **Eclipse IDE for Eclipse Committers** or the **Eclipse IDE for Java EE Developers** packages. The plug-in does not work with the Eclipse IDE for Java Developers.

# **3. Install JDeodorant**

The installation of JDeodorant is very easy! You have two options:

a) Eclipse Marketplace Client: Go to Help -> Eclipse Marketplace..., search for JDeodorant in the Find: box, and click Install.



b) Eclipse Update Site: Go to Help -> Install New Software... and enter the URL http://users.encs.concordia.ca/~nikolaos/update/ in the Work with: box.

Available S Check the i	<b>oftware</b> tems that you wish to install.		
Work with: http://java.uom.gr/~jdeodorant/update/			Add Sites" preferences.
type filter te	xt		
Name		Version	
⊳ 🔽 000 J	Deodorant 5.0		

#### 4. Configuring JDeodorant

To allow the analysis of large projects, edit the **eclipse.ini** file inside the Eclipse installation folder and add the following parameters.

-vmargs -Xms128m -Xmx2048m -XX:PermSize=128m

You can adjust the –Xmx value according to your Operating System and available memory. The maximum value for –Xmx argument ranges from 1.4G to 1.6G on **32-bit Windows** systems and is limited to 2G on **32-bit Linux** systems. A higher value for –Xmx argument can be achieved by using a combination of 64-bit operating system, 64-bit Java VM and x86\_64 Eclipse SDK release.

To access the eclipse.ini file in **Mac OS X**, right-click the Eclipse application icon, then click **Show Package Contents** to open a new Finder window displaying a Contents folder. Open the Contents folder, and then open the MacOS folder, in which the eclipse.ini file resides.

#### 5. Attach Java source code

If you are using the latest version of Eclipse and JDK, this step is performed automatically.

#### In any case, go to Window -> Preferences -> Java -> Installed JREs

In the list of Installed JREs you should be able to see jdk1.7.0\_xx as shown in the next Figure. If not, click on the Search... button and point to the directory where JKD is installed (usually in Program Files\Java in Windows OS).

If you have multiple Installed JREs make sure that the jdk1.7.0\_xx is selected as the default one.

Preferences						
type filter text	Installed JREs		⇔ • ⇔ • •			
<ul> <li>▷ General</li> <li>▷ Ant</li> <li>▷ Help</li> <li>▷ Install/Update</li> </ul>	Add, remove or edit JRE definitions. By default, the checked JRE is added to the build path of newly created Java projects. Installed JREs:					
<ul> <li>Java</li> <li>Appearance</li> <li>Build Path</li> <li>Code Style</li> <li>Compiler</li> <li>Debug</li> <li>Editor</li> <li>Installed JREs</li> <li>JUnit</li> <li>Properties Files Editor</li> <li>JDeodorant</li> <li>Plug-in Development</li> </ul>	Name	Location C:\Program Files\Java\jdk1.5.0_22 C:\Program Files\Java\jdk1.7.0_51	Add Edit Duplicate Remove Search			
▷ Run/Debug ▷ Team			~			
OK Cancel						

Select jdk1.7.0\_xx and click Edit...

The Java library **rt.jar** should have a **Source attachment** pointing to the Java SDK source code (usually in **Program Files\Java\jdk1.7.0\_xx\src.zip** in Windows OS).

If there is no **Source attachment** value, click on the **Source attachment...** button and browse to the location of the **src.zip** file.

More detailed instructions for Windows OS and Mac OS X can be found <u>here</u>.

(	🗎 Edit JRE		
	JRE Definition Specify attributes for a .	RE	
	JRE home:	C:\Program Files\Java\jdk1.7.0_51	Directory
	JRE name:	jdk1.7.0_51	
	Default VM arguments:		Variables
	JRE system libraries:		
	C:\Program File	Add External JARs	
	Source attac	Source attachment: C:\Program Files\Java\jdk1.7.0_51\jre\lib\rt.jar	
<ul> <li>@ Javadoc loca</li> <li>▷  C:\Program Files</li> <li>▷  C:\Program Files</li> </ul>		ation: http://download.oracle.com/javase/7/docs/	Source Attachment
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	C:\Program Files\Java\jdk1.7.0_51\jre\lib\charsets.jar		Un
	C:\Program File	s/Java/Jokt.7.0_D1/Jre/IID/Jtr.jar	P
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