# **Installing Netbeans with Maven Support**

# Installing Maven with Netbeans Support

This tutorial will show you how to install Netbeans including support for the Maven build tool.

The tutorial assumes that you have Java JDK (version 1.5.x) (or higher version number) and Maven already installed. (i)

#### Install Netbeans

Netbeans 5.0 can be downloaded from http://www.netbeans.info/downloads/download.php?type=5.0. Windows users should just click on the netbeans-5\_0-windows.exe after download to install netbeans.

Netbeans 5.5 can be downloaded from: http://www.netbeans.info/downloads/index.php

## Install Mevenide

Download (do a "save as" on the link) this small autoupdate module.



We use maven 1.0.2 and consequently we use mevenide 1.0, not mevenide 2.x. (You can install both mevenide 1.0 and 2.x simultaneously if you are using maven 2 for some other projects.)

To install, start NetBeans and select the Tools -> Update Center.

Select the "Install Manually Downloaded Modules (.nbm Files)."

🧃 Update Center Wizard	
Steps         1. Select Location of Modules         2. Select Modules to Install         3. Download Modules and Check Digital Signatures         4. View Certificates and Install	Select Location of Modules  Check the Web for Available Updates and New Modules.  Select Update Center(s) to connect:  Update Center  NetBase Update Center
Modules	NetBeans Hotfix Update Center   Third-party Update Center   Third-party Update Center   NetBeans Update Center Beta   Proxy Configuration To initiate connection to the Update Center server, click Next. Install Manually Downloaded Modules (.nbm Files).
	< Back Next > Finish Cancel

On the next page, select "Add..." from the "Modules to Install" panel and navigate to the location of the downloaded file.

🭯 Update Center Wizard					
Steps	Select Modules to Install (Continued)				
<ol> <li>Select Location of Modules</li> <li>Select Modules to Install</li> <li>Download Modules and Check Digital Signatures</li> <li>View Certificates and Install Modules</li> </ol>	Click Add to select modules from a local disk. Select a directory to include all modules in that directory, or select individual .nbm files.  Modules to Install ents and Settings\tonyj\My Documents\My Downloads\mevenide-netbeans-autoupdate-1.0.nbm Add Remove				
	To have the Update Center check digital signatures, click Next.				
	< <u>B</u> ack Next > Einish Cancel				

On the next page, transfer that file from the "Available Updates and New Modules:" panel to the "Include in install:" panel and click on the "Finish" button.

Update Center Wizard					
Steps	Select Modules to Install				
1. Select Location of Modules	Available Updates and New Modules:	Include in Install:			
<ol> <li>Select Modules to Install</li> <li>Download Modules and Check Digital Signatures</li> <li>View Certificates and Install Modules</li> </ol>	Manually Downloaded Modules	Add > 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
		<u>I</u> otal Size: 9 KB			
	Available <u>V</u> ersion:	nstalled Version:			
		< <u>B</u> ack Next > Einish Cancel			

On the next panel the module will be downloaded.

🧧 Update Center Wizard	
Steps         1. Select Location of Modules         2. Select Modules to Install         3. Download Modules and Check Digital Signatures         4. View Certificates and Install Modules	Download Modules         The Update Center is now downloading modules and/or checking digital signatures.         Mevenide AutoUpdate Server [1/1]         100%         Verified 9 of 9 KBytes.         Done.
	< <u>B</u> ack Next > Einish Cancel

On the next panel select the checkbox next to the downloaded module, and accept any licenses that appear.

🧃 Update Center Wizard		
Steps 1. Select Location of Modules 2. Select Modules to Instal	View Certificates and Install Modules Select the modules you wish to install. If a module is signed, you must view and accept its certificate.	
<ol> <li>Download Modules and Check Digital Signatures</li> <li>Yiew Certificates and Install Modules</li> </ol>	Modules to Install Incl Module Name Mevenide AutoUpdate Server - version 1.0 Signed by: CN=Milos Kleint, OU=Mevenide (http://mevenide.codehaus.org), O=Mevenide	Global
	View Certificate Save Co	ру
	< Back Next > Finish C	Cancel

Finally click finish to dismiss the dialog.

Now go back to **Tools -> Update Center**. Select "Check the web ..." and the "Mevenide Update Center" box, only. Click next. (Note: NetBeans must have access to the Internet for this step to work; make sure proxies and firewalls are configured correctly). Now select the "Mevenide Update Center" node, and click the "Add>" button to move all maven plugins into the righthand box.

🭯 Update Center Wizard		×
Steps         1. Select Location of Modules         2. Select Modules to Install         3. Download Modules and Check Digital Signatures         4. Uigna Contribution	Select Modules to Install Available Updates and New Modules:  Mevenide Update Center  Mevenide Developer Module  Remove	
Modules	Image: Cargo library   Image: Cargo library	
	<u>T</u> otal Size: 0 KB	
	Available Version:         Installed Version:	
	< <u>B</u> ack Next > Einish Cancel	

Wait while the modules download, the click "Next>" to continue.

🧧 Update Center Wizard		×
Steps	Download Modules	
1. Select Location of Modules	The Update Center is now downloading modules and/or checking digital signatures.	
Select Modules to Install     Select Modules and     Shock Digital Signatures	Cargo library [15/15]	
<ol> <li>View Certificates and Install</li> <li>Modulos</li> </ol>	100%	J
modules	Verified 7,104 of 7,104 KBytes.	0
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	Done. Stop	J
	< Back Next > Einish Cancel	1
		,

Click the "Include" checkbox for each plugin and then the "Always Accept" button. All of the Maven plugins should have the "Include" box selected, now. Click next.

Update Center Wizard		
Steps	View Certificates and Install Modules	
<ol> <li>Select Location of Modules</li> <li>Select Modules to Install</li> <li>Download Modules and Check</li> </ol>	Select the modules you wish to install. If a module is signed, you must view and accept its certificate. <u>M</u> odules to Install	
Digital Signatures 4. View Certificates and	Incl Module Name	Global
Install Modules	Wevenide-Grammar - version 0.7 Trusted	
	Netbeans Cargo integration - version 0.5.1           Trusted	
	apache ant library for Mevenide version 1.5.3 Signed by: CN=Milos Kleint, OU=Mevenide (http://mevenide.codehaus.org), O=Meve	
	Mevenide Developer Module - version 1.0	
	jdom library for Mevenide version 1.0.1           Signed by: CN=Milos Kleint, OU=Mevenide (http://mevenide.codehaus.org), O=Meve	
	Mevenide Netbeans project support - version 1.0     Trusted	
	Mevenide J2EE support - version 1.2 Trusted	
	Waven 1.0.2 library for Mevenide - version 1.0.2 Trusted	
	Mevenide AutoUpdate Server - version 1.0.2     Trusted	
	Mevenide-Config - version 0.11 Trusted	
	Version C.7	
	View <u>C</u> ertificate	Copy
	< <u>B</u> ack Next > Einish	Cancel

Now restart Netbeans.

🗃 Restart the IDE 🛛 💽	
The IDE must be restarted to install the modules. You can select Restart the IDE to install the modules and restart the IDE immediately or select Install Later to install the modules the next time the IDE is restarted. Using Cancel will completely revoke the installation.	
<u>R</u> estart the IDE	
🔘 Install Later	
OK Cancel	

## Test the Installation

Now check whether all plugins were loaded successfully.

Go to Tools -> Module Manager -> Maven.

# **Maven Plugins**

📕 Module Manager × Installed Modules: <u>U</u>ninstall Modules Active Version 🗄 💮 🎒 Debugging  $\checkmark$ ^ 🗄 – 🏇 🛛 Developing NetBeans ✓ 🗄 🖞 🎒 Editing ✓ 🗄 🗇 🎒 Help Image: A start of the start of < 🗄 💮 🗿 Infrastructure Image: A start a st 🗄 📆 Java **~** 🖮 📆 Maven ✓ 1.0.2 - 🏇 - Mevenide AutoUpdate Server -- 🎲 - Mevenide Developer Module -✓ 1.0 --👼 - Mevenide J2EE support ✓ 1.2 ✓ 1.0 -👼 - Mevenide Netbeans project support -~ 🎲 🛛 Mevenide XML Grammar 0.7 🗄 🖓 Profiling 🗄 🖓 👘 Task List 🗄 🖑 🎒 🛛 Testing Tools ✓ ¥ Ω Description: Update... ⊆lose Help

All the Maven plugins should have the **Enabled** box checked.

Set these all to Enabled if they are not already. This may clear up errors that can occur during the installation.

#### **Open Project**

To open the cvs projects which you previously checked out, use **File -> Open Project**, then navigate to your cvs installation directory.

If all went well, you should see a small box next to Maven projects that Netbeans can open.

😵 Open Project		
Look in:	🚞 reco	
My Recent Documents Desktop My Documents	GeomConv	verter
	File <u>n</u> ame:	C:\work\reco
	Files of <u>t</u> ype:	Project Folder

To open a project, click on it and select "Open Project Folder".

The project itself will have the following options, which will now call Maven commands.



To build the project, right-click on build in this menu.

The console should show the Maven splash screen.

😵 NetBeans IDE 4.1 - GeomConverter	
<u>File Edit View Build R</u> un Ref <u>a</u> ctor Versioning	<u>T</u> ools <u>W</u> indow <u>H</u> elp
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build:start:	
java:prepare-filesystem:	
java:compile: [echo] Compiling to C:\work\reco\G	eomConverter/targe
java:jar-resources:	
test:prepare-filesystem:	
test:test-resources:	
test:compile:	
test:test:	
[junit] Running org.lcsim.geometry	.compact.CompactRe
[junit] Tests run: 1, Failures: 0,	Errors: 0, Time $\epsilon$
[junit] Running org.lcsim.geometry	.compact.converter
[junit] Tests run: 1, Failures: 0,	Krrors: 0, Time $\epsilon$
(junit) kunning org.icsim.geometry	. compact. converter
Save All finished.	

Now you have successfully installed Maven support into Netbeans.

#### Installing updated code into JAS3

Building the code in netbeans will not automatically cause JAS3 to pick up the latest version. To install the latest version into JAS3 right-click on the org. Icsim project, choose "Execute Custom Goal" then choose "Install\_in\_JAS3".

	NetBeans IDE	5.5 - org.lcsin	1						
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Note, running this goal on org.lcsim will build org.lcsim, and copy the jar files for org.lcsim, GeomConverter, and other required libraries into your local JAS3 extensions directory. You will need to restart JAS3 for it to pick up these changes.

#### **Turning off tests**

If you want to build lcsim.org without running the tests, you can do so by selecting the project in the netbeans project tree, right clicking to get the popup menu and then select "Properties". Then choose "Goal to IDE Action Mappings" and add -Dmaven.test.skip=true to the build goal. This is how I have my settings:

🧧 org.lcsim			×
<ul> <li>org.lcsim</li> <li>General</li> <li>Description</li> <li>Organization and Site</li> <li>Repository</li> <li>Lists</li> <li>Team</li> <li>Reports</li> <li>Dependencies</li> <li>Build</li> <li>Java/Jar</li> <li>Unit Tests</li> <li>Project Files</li> <li>Goal to IDE Action Mappings</li> <li>Plugins</li> </ul>	Build : Clean : Rebuild : Javadoc : Run : Run Single : Debug : Debug : Debug Single : Test : Test Single :	-Dmaven.test.skip=true jar:install jas:install clean clean jar:install javadoc mevenide:run-artifact -Dmaven.mevenide.run.classname=%CLAS5% mevenide:run-class mevenide:debug-artifact -Dmaven.mevenide.run.classname=%CLAS5% mevenide:debug-class test test -Dtestcase=%TESTCLAS5% test:single -Dtestcase=%TESTCLAS5% mevenide:test-single-debug	
<ul> <li>Plugins</li> <li>■ Plugins</li> <li>■ Resolve Values</li> </ul>	Debug Test Single : Multi Project Build : Multi Project Clean :	-Dtestcase=%TESTCLASS% mevenide:test-single-debug  -Dgoal=jar:install multiproject:goal  multiproject:clean  Apply OK C	