Automatic code generation from models with easyUML (NetBeans plugin)

23/10/2017 easyUML 1

Topics covered

- ☐ Introduction to easyUML
- ☐ Hands-on session
- ☐ Other UML tools

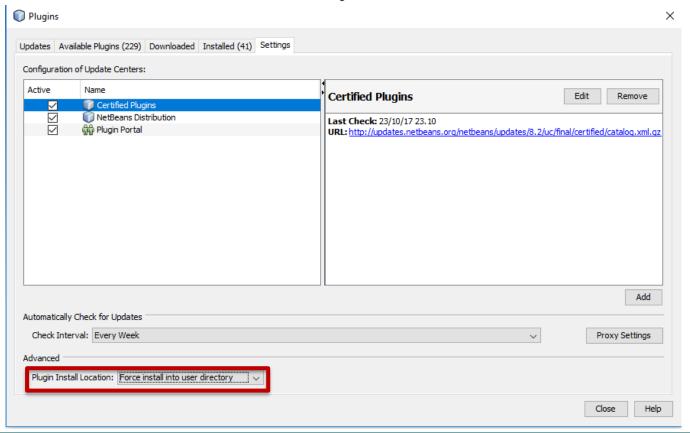
Introduction to easyUML

easyUML

- □ easyUML is a simple plugin for NetBeans
- □ It allows to create UML class diagrams and automatically generate code from diagrams. And viceversa it allows to create UML diagrams from code.
- http://plugins.netbeans.org/plugin/55435/easyuml

Before installation (for lab computers)

- ☐ 'Tools > Plugins' > 'Settings' and set 'Plugin Install Location' into
 - 'Force install into user directory'

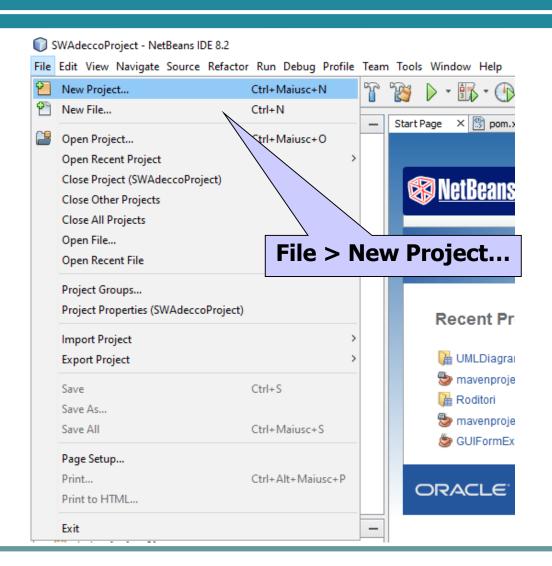


Install easyUML

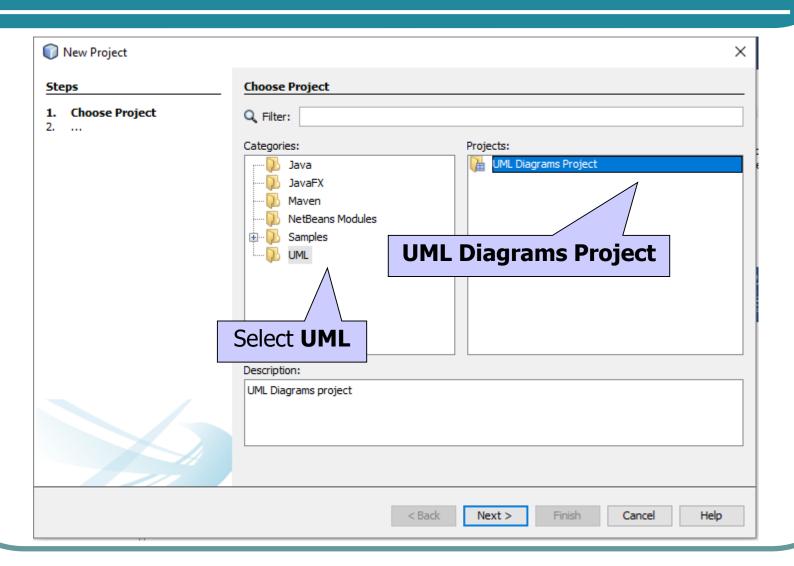
- NetBeans 8.0+:
 - The plugin is available on the NetBeans Plugin Portal Update Center. Use 'Tools > Plugins' action from the NetBeans IDE main menu.
- Manual installation:
 - Download the plugin and extract the archive http://plugins.netbeans.org/plugin/55435/easyuml
 - Install it manually
 From the NetBeans IDE main menu: Tools > Plugins >
 'Downloaded' tab > 'Add Plugins...' button > Go to the directory that contains the plugin and open all the .nbm files > 'Install' button

easyUML: Hands-on session

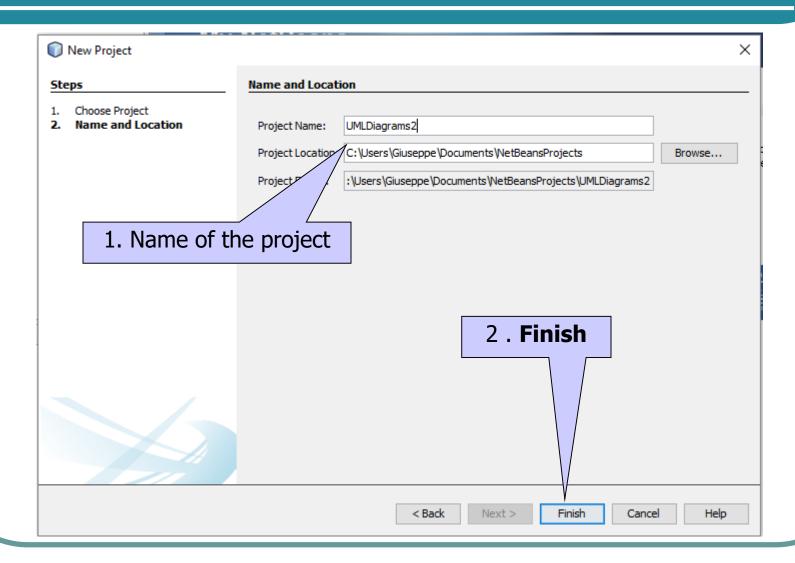
Create new UML project



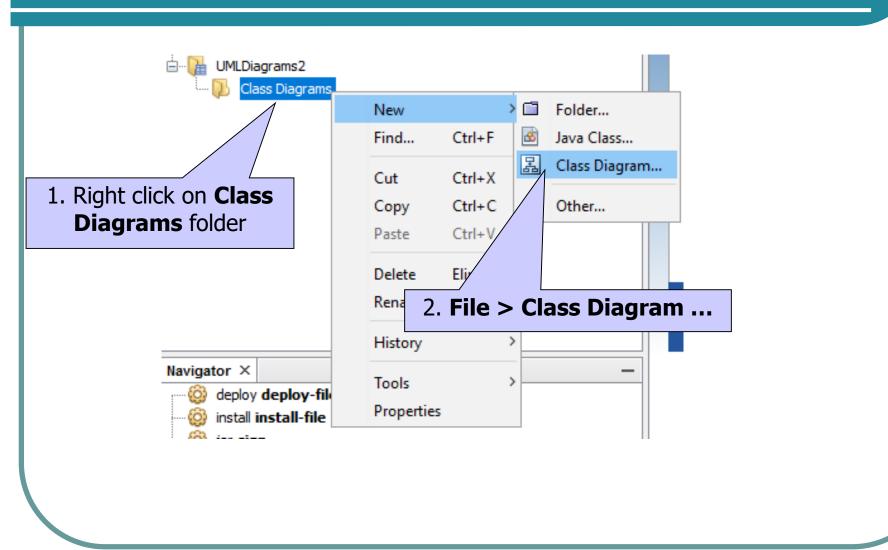
Create new UML project (2)



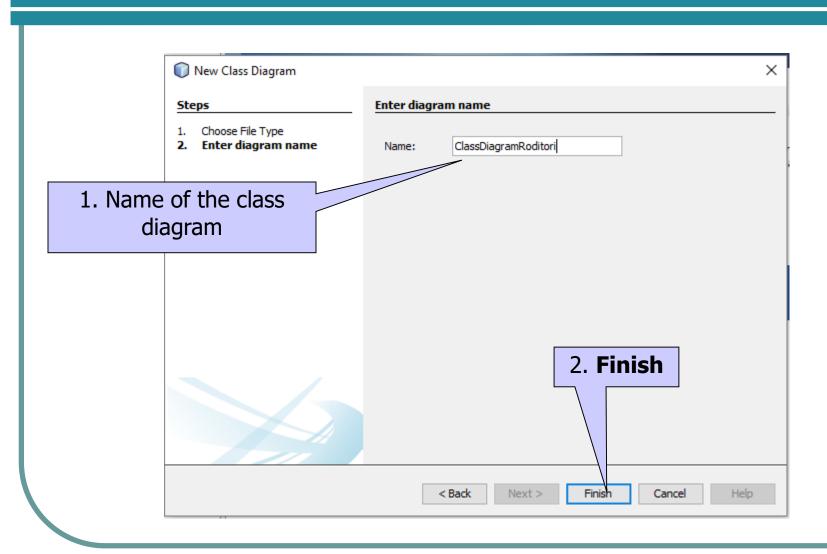
Create new UML project (2)



Add a class diagram

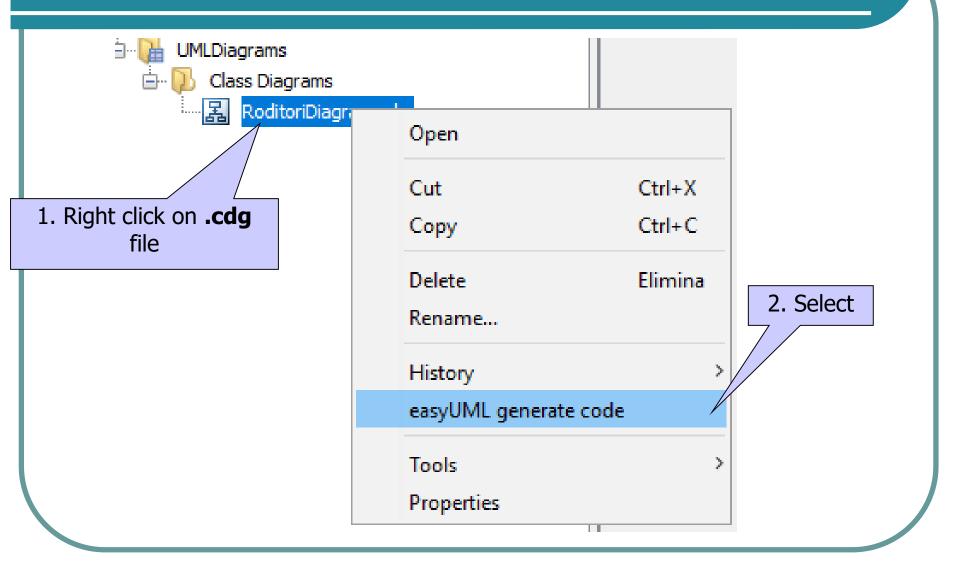


Create a Diagram

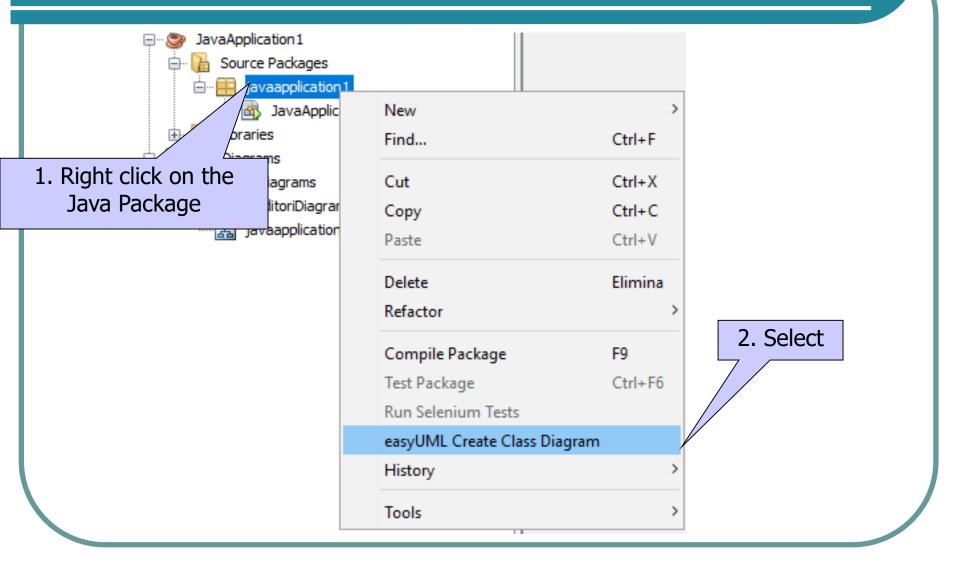


Live Example

Generate code from model



Generate model from code



Other UML tools

- ☐ There are more sophisticated tools for UML design and automatic code generation from UML diagrams.
 - Modelio (open source): https://www.modelio.org/
 - ArgoUML (open source): http://argouml.tigris.org/
 - Umbrello (open source): https://umbrello.kde.org/