

# Tutorial: Pathway and Network Analysis

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## Installation instructions:

### Java

PathVisio and Cytoscape are developed in Java, so they run on any operating system. Please check if you have Java 6 or higher installed on your laptop:

- Go to <http://www.java.com/en/download/testjava.jsp>
- If Java starts and you see the message "Your Java is working", you can go on and install PathVisio and Cytoscape. Otherwise follow the instructions on the website to install Java.
- Information for MacOS users: If you are using Java 6 make sure that you have all updates installed. Cytoscape depends on those changes.

### PathVisio

In the pathway analysis part, we are using the pathway tool PathVisio.

- Go to <http://www.pathvisio.org/downloads/>
- Download the binary installation of PathVisio 3.1.0.
- Extract the zip file and start PathVisio by clicking on the pathvisio.bat file.
  - On Linux and Mac you can run PathVisio by executing the pathvisio.sh file.
- If you encounter any problems, please contact us directly <http://projects.bigcat.unimaas.nl/ncsb2013/contact/>

### Cytoscape

In the network analysis part, we are using the network tool Cytoscape. In this tutorial you are going to use the latest features and improvements that will be released in October 2013. Therefore you will download the installer from a specific page, but in the future you can simply go to <http://cytoscape.org/download.html>.

- Go to <http://projects.bigcat.unimaas.nl/data/ncsb2013/installers/Cytoscape-3.1.0/>
- Windows users: download the 32 or 64bit.exe file and install Cytoscape
- Mac OSX users: download the macos.dmg file and install Cytoscape
- Linux users: download the unix.sh file and install Cytoscape
- Follow the instructions on the screen
- Try to start Cytoscape once, to see if the installation was successful
- If you encounter any problems, please contact us directly <http://projects.bigcat.unimaas.nl/ncsb2013/contact/>