Rapid Miner

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Outline

- Rapid Miner installation
- Rapid Miner key components
- Process view
- Parameter setting
- Process creation and execution
- Result views

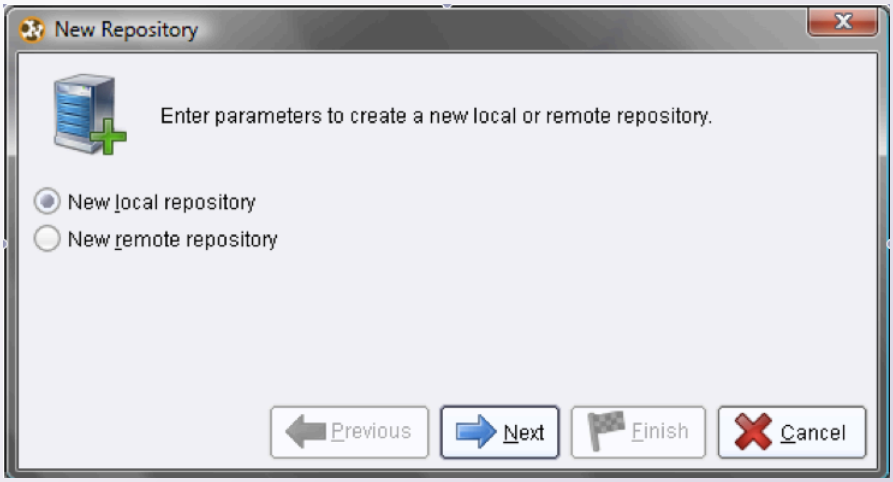
Rapid Miner Installation

- Installation Versions
  - Windows executable
    - Double click on “rapidminer-xxx.exe” and follow the instruction on the screen
  - Java version (for any other platform)
- Java Version
  - Unpack the downloaded archive file
  - Make sure you have Java 6.0 or higher installed on your machine
  - $ cd <install location>/rapidminer
  - $ ./scripts/RapidMinerGUI
  - *Follow the steps to create a new local repository (first time only)*

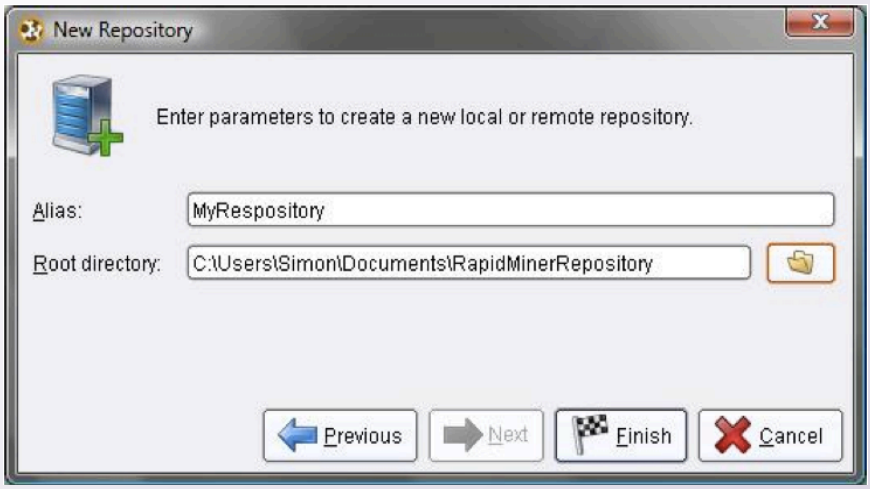
Rapid Miner Installation

- Further details
  - Wiki: http://rapid-i.com/wiki/index.php?title=Main_Page
  - User forum: http://forum.rapid-i.com/
  - Main website: http://rapid-i.com/
- Tutorials
  - Available via the *Help -> rapidMiner Tutorial...* Menu option
  - Examples of processes are also available and many of them can be tested easily with the GUI version

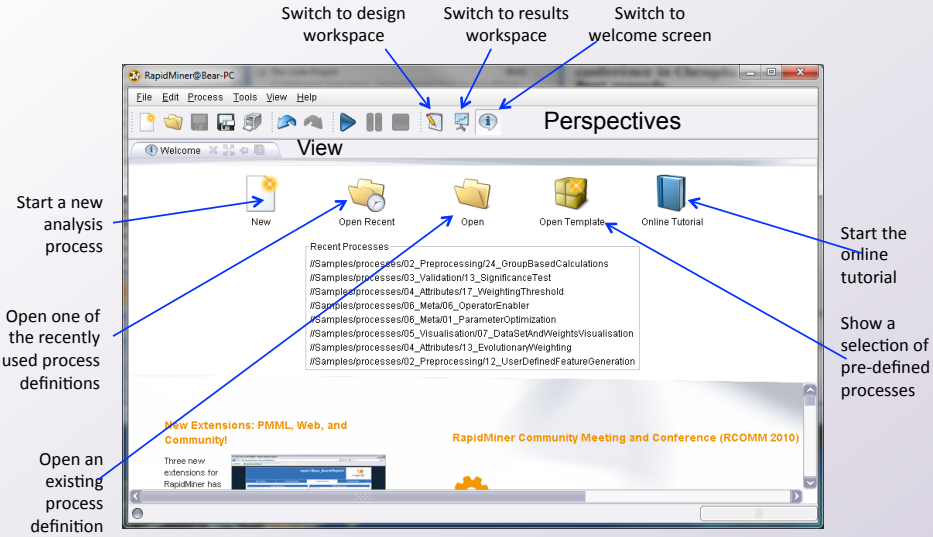
RapidMiner Installation



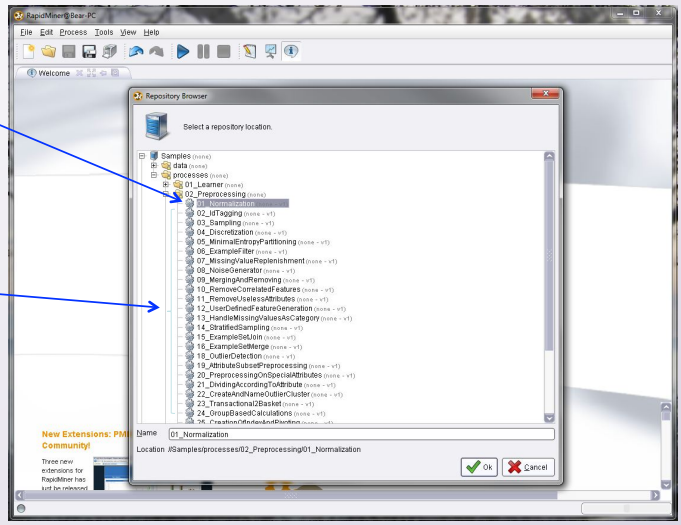
RapidMiner Installation



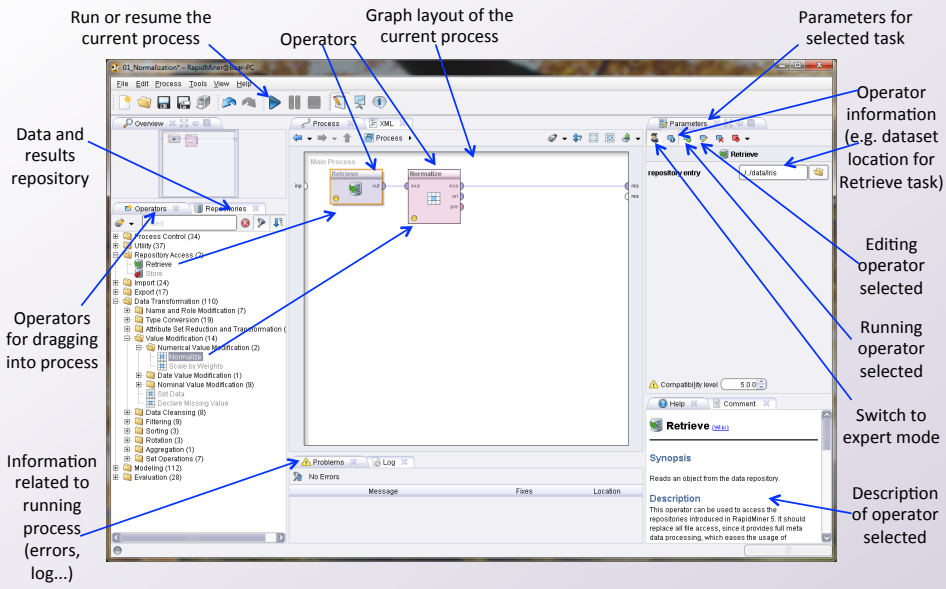
Rapid Miner - Getting Started



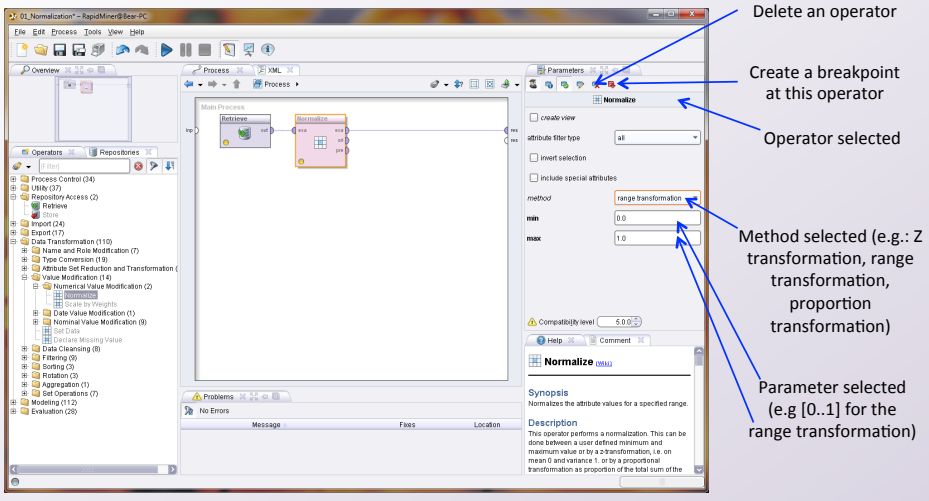
Open Existing Process



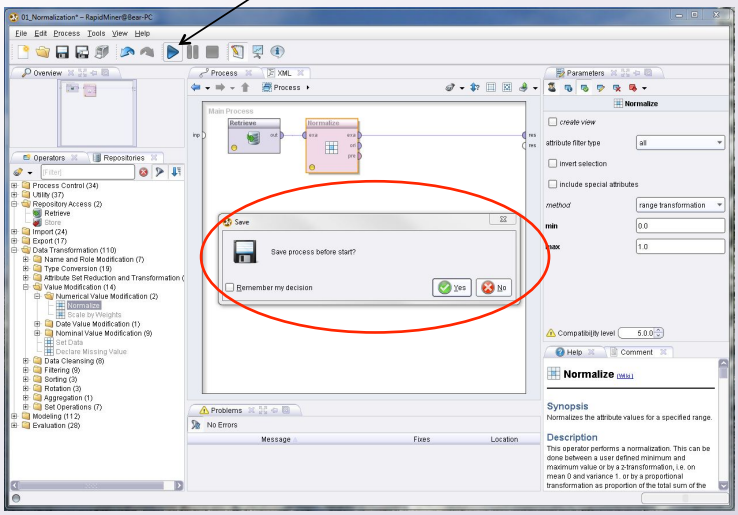
Process View



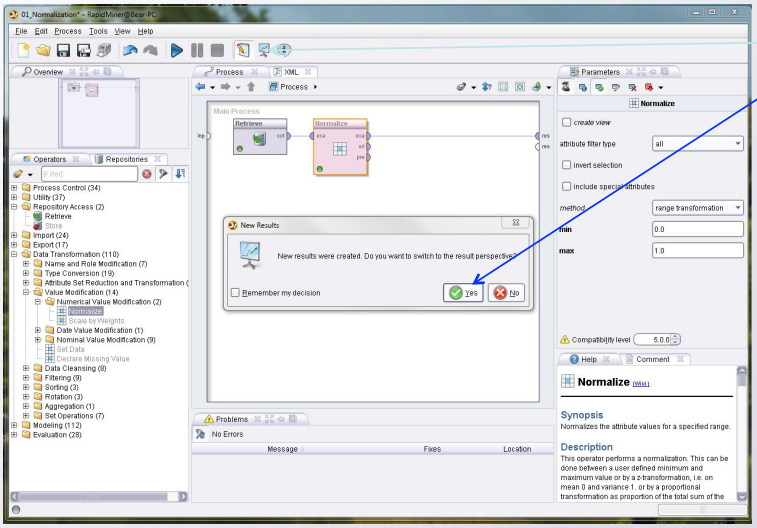
Parameter Setting (Expert mode)



Process Execution

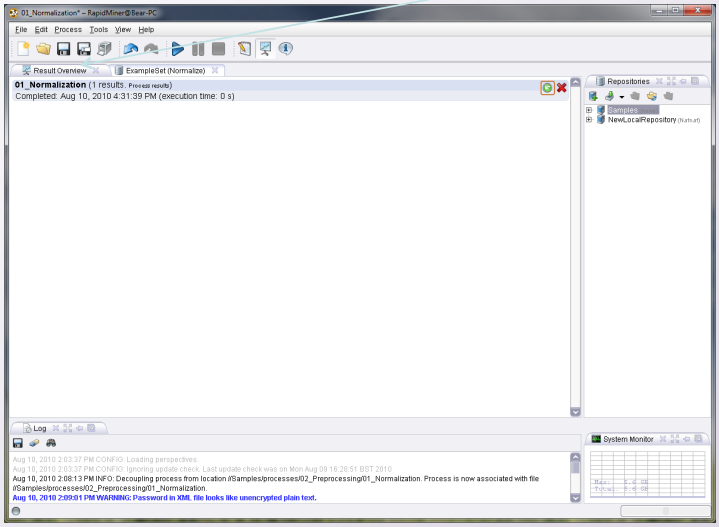


Process Execution

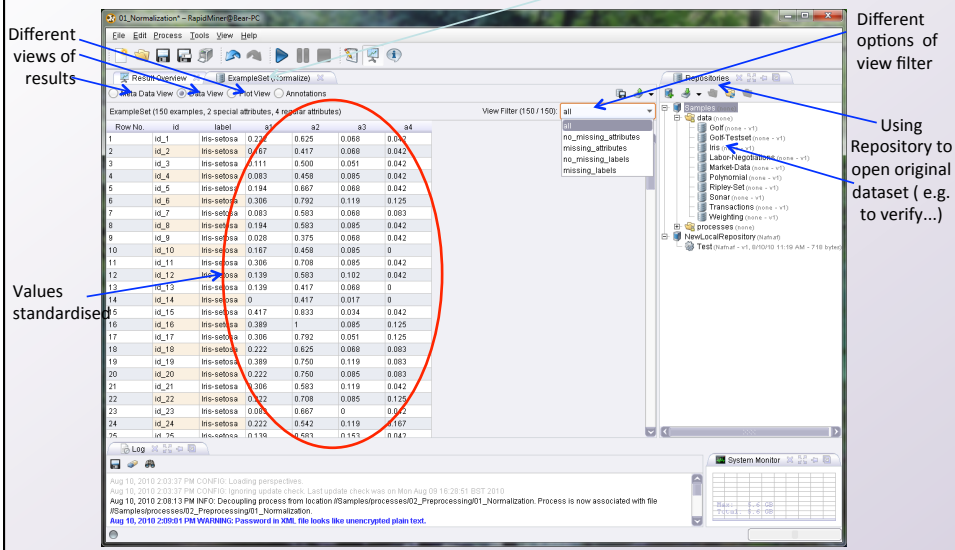


Switch to result perspective to see results

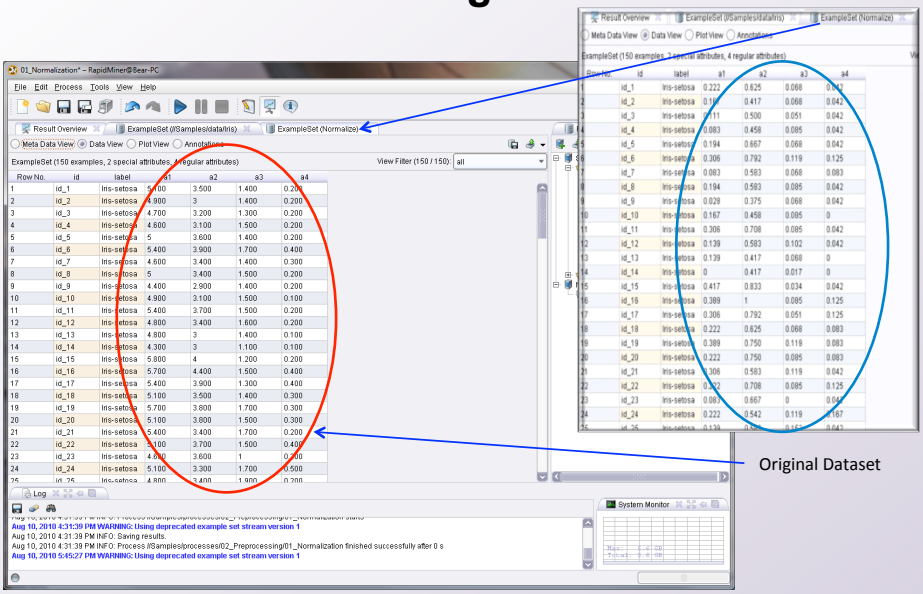
Process Execution
– Results Overview



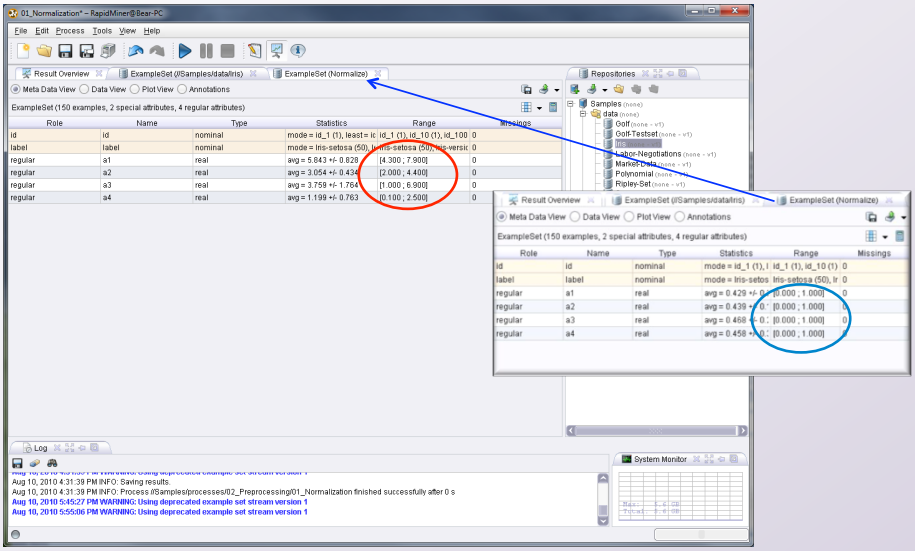
Process Execution – Results



Results vs. Original Dataset

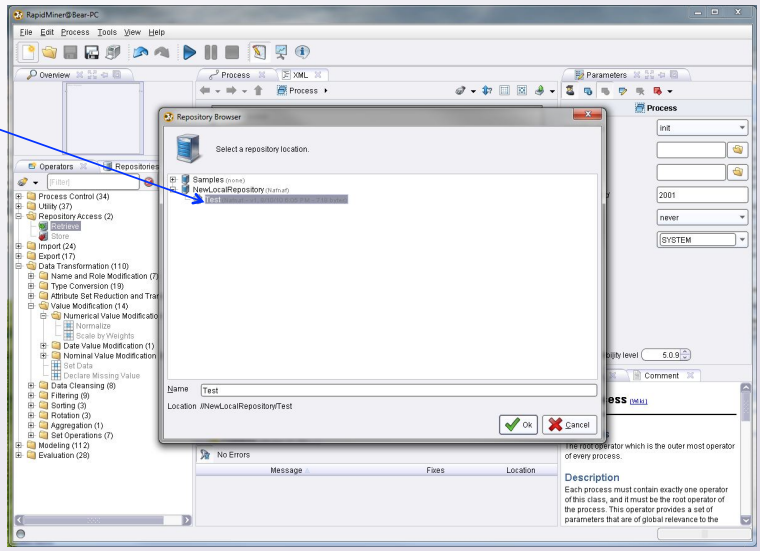


Results: Metadata view



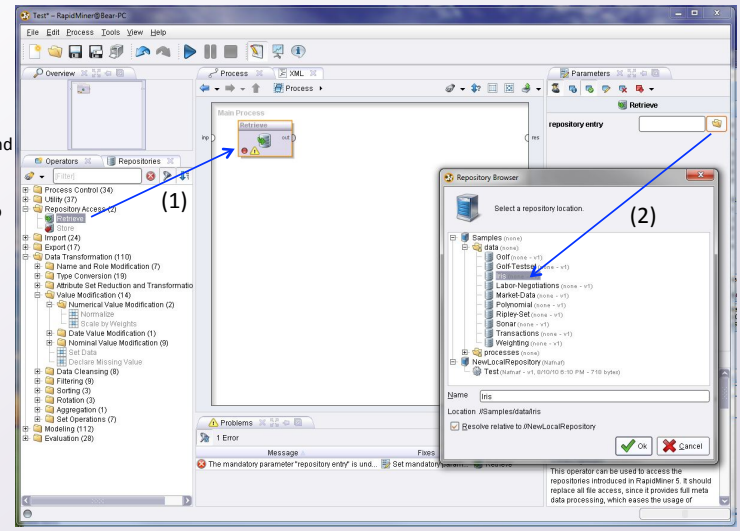
Create a new Process

Select a location to store this new process



Create a new Process (cont.)

1. Click and Drag the Retrieve Operator to the Graph Layout



2. Select dataset for this Retrieve Operator

Create a new Process (cont.)

3. Click and Drag the Normalise Operator to the Graph Layout

4. Click and Drag to create links between Retrieve Operator and Normalise Operator as well as between Normalise Operator and **res** (result)

5. Click on Run icon to execute this process. We will obtain the same results as the previous example