RapidMiner

Lesson 1

Kyle Goslin
College of Computing Technology

After you have opened RapidMiner, you will be greeted with the following screen. The option that we are interested in is creating a "New Process". This will allow us to make a new blank process.

Tutorials
Learn the basics of RapidMiner

Accelerator
Data mining in three simple steps

New Process
Create your own analysis

Open
Open previous analysis

After you have created a new blank process, you will then be able to see RapidMiner with no processes added.

On the top left hand side you will see a list of the various different operators that we can add. In the centre of this screen you will see a blank section where are processes will be kept. On the right hand side of the screen you will see a list of different settings for the process that you have currently clicked on.

If you have a number of different processes on your screen this window to the right is very useful as you can see the settings for each of the different processes.
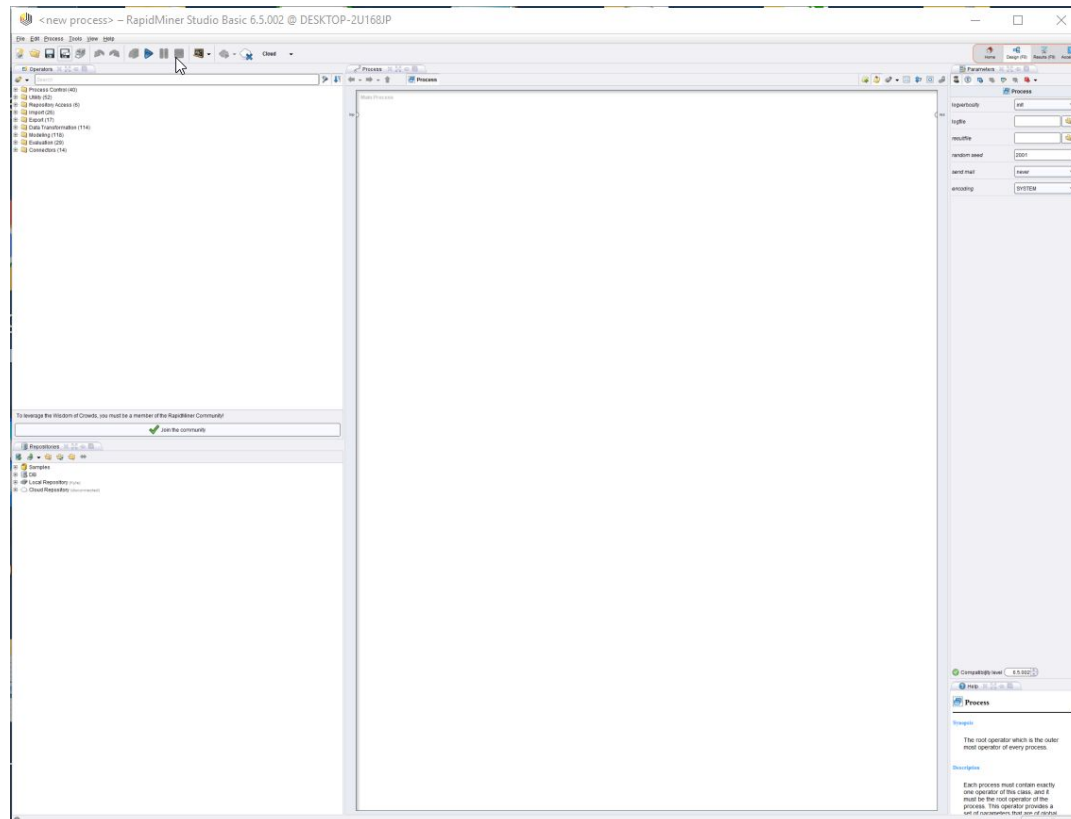
We will now begin making our first process.

To do this, we will need to begin by adding in a Reader that will allow us to read in Excel files. This process is called the "Read Excel" operator. The only duty this operator has is to read in the data into RapidMiner.

In the small search box that is available on the left hand side type in "read excel" and it will help narrow down the set of results.
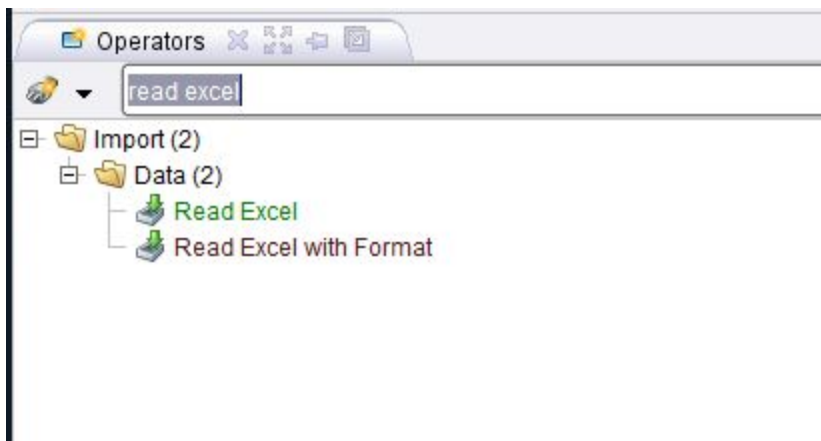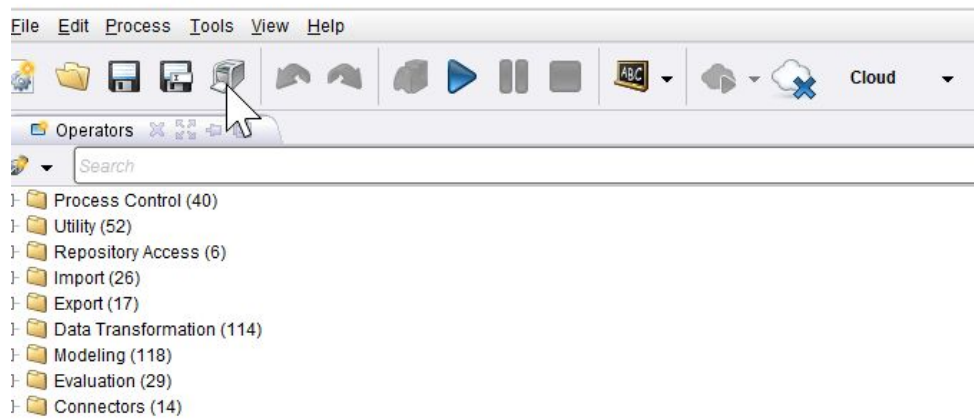
Once you have found the "Read excel" operator, the next thing you need to do is click and hold down the button and drag this operator across into the centre screen.
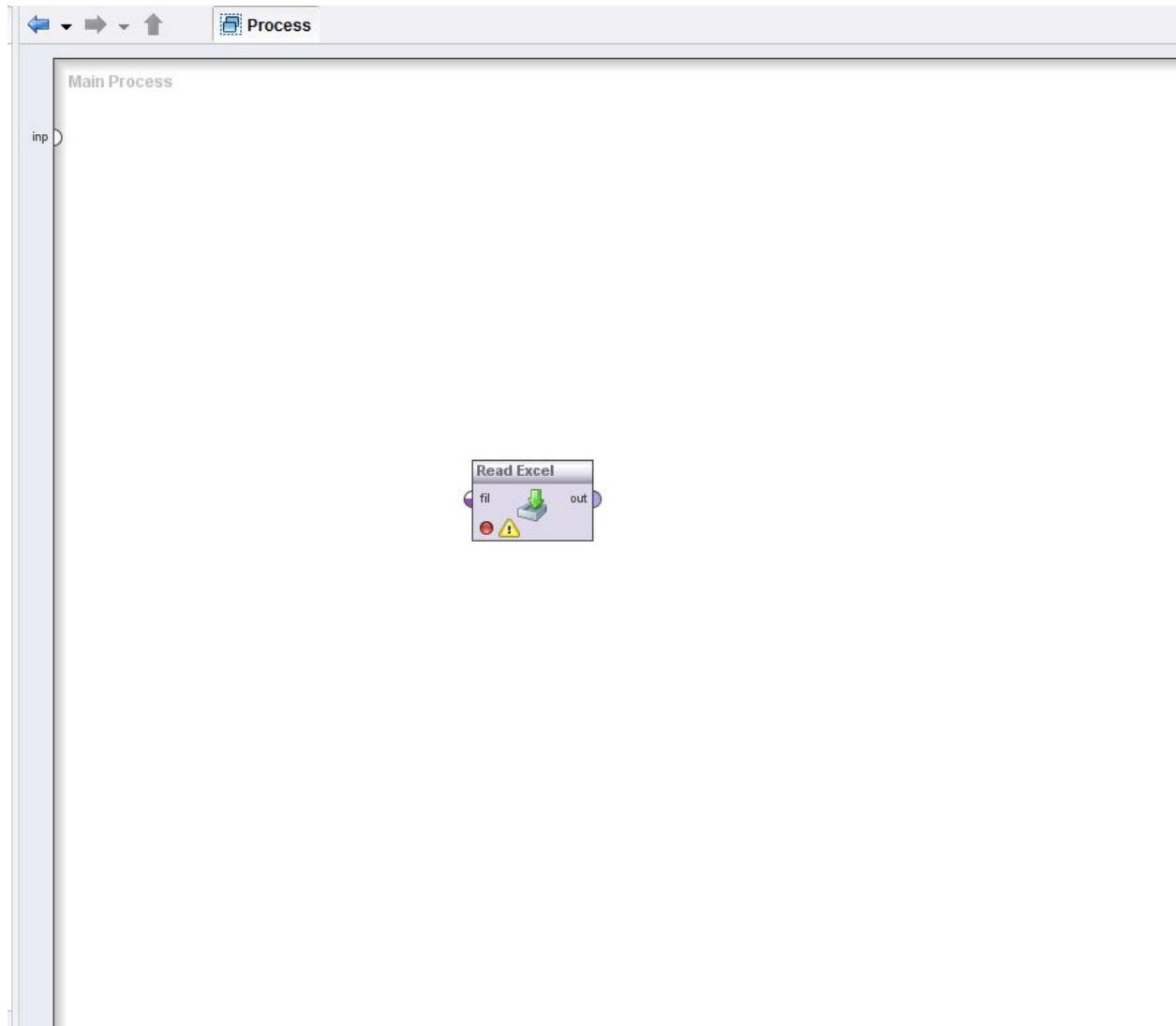
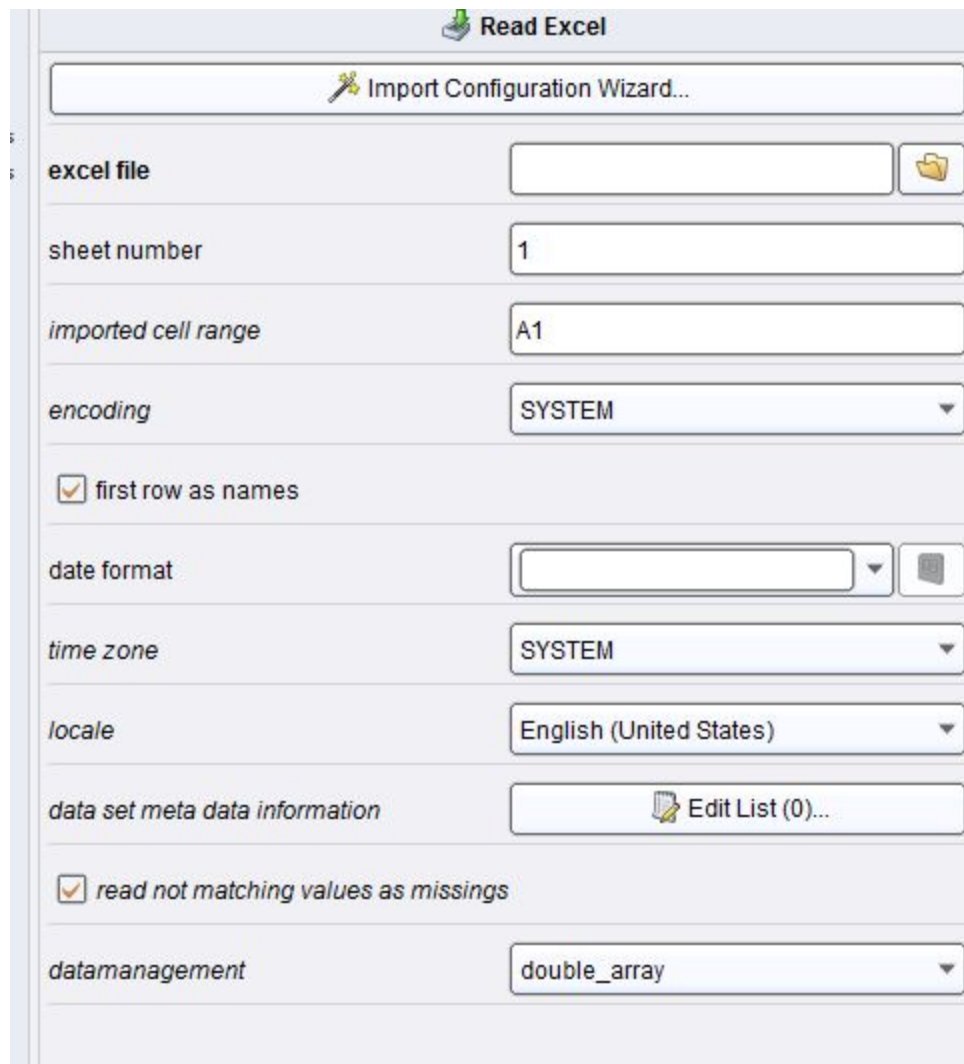By doing this, we will now be able to use the "Read Excel" operator.

After the operator has been added the next step we need to perform is to connect the operator to the right hand side. This is done by clicking on the small circle titled 1 and then clicking on the circle titled 2.

You will notice a small link will be created.
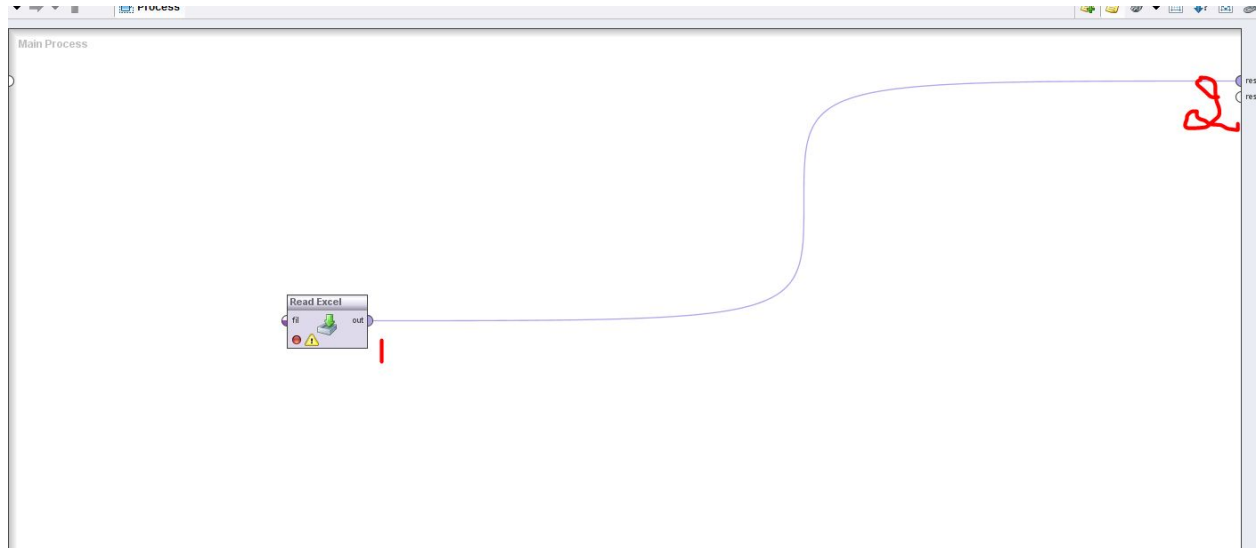
Next we need to tell the operator which of the files we would like to read in. This is done by first clicking on the operator in the centre of the screen, and then looking to the right hand side to see the settings for the operator that has been displayed.

Inside this window on the right hand side, we can see all the options for the operator, click the small folder marked 1, and it will open a browser window allowing you to locate the file.

When you have finished, click the blue play button
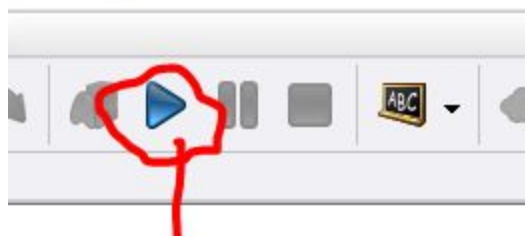
As soon as you press the play button, RapidMiner will then run through the process and then switch you to the Results window shown below:

ExampleSet (11 examples, 0 special attributes, 7 regular attributes)

Row No.	married	children	getting_welf...	more_than...	offered_cou...	refused	non_comp
1	1	1	1	0	3	1	1
2	0	1	1	0	2	1	1
3	1	2	1	0	1	0	1
4	1	3	1	0	1	0	0
5	1	1	1	1	1	0	0
6	1	1	1	1	1	0	0
7	1	1	1	1	2	2	0
8	0	1	1	0	3	3	1
9	0	2	1	1	2	2	1
10	0	3	1	1	1	1	1
11	0	1	1	1	0	1	0

If at any time you want to move back to the designer window, you can use the controls on the top right hand corner of RapidMiner.
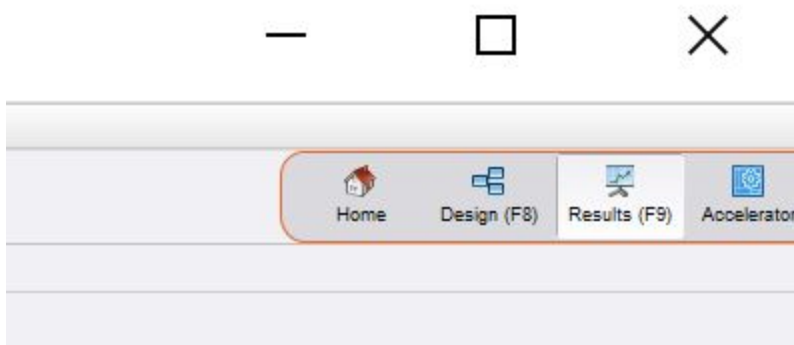
The two main windows we are interested in are the Designer window and the Results window.