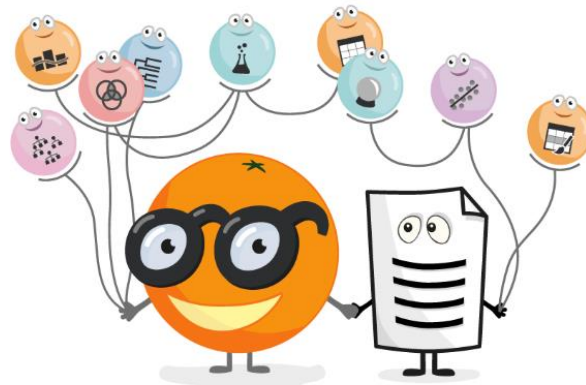
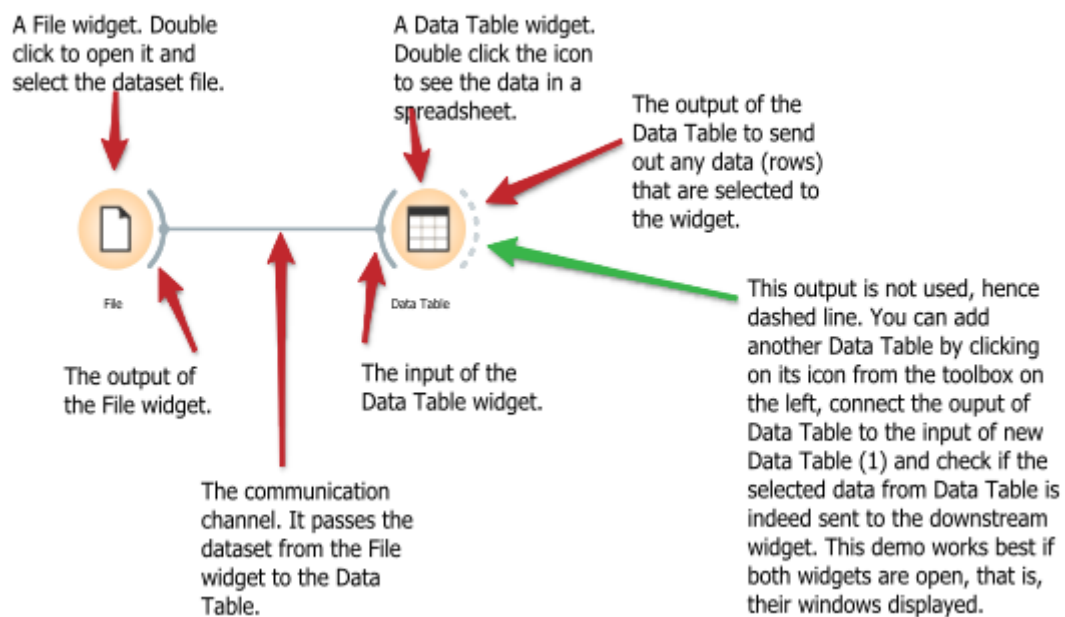


Introduction to Orange Data Analytics and its Workflow



1. File and Data Table



2. Interactive Visualization

This File widget is set to read the Iris dataset. Double click on the icon to change the input data file and observe how this workflow works for some other datasets such as housing or auto-mpg.

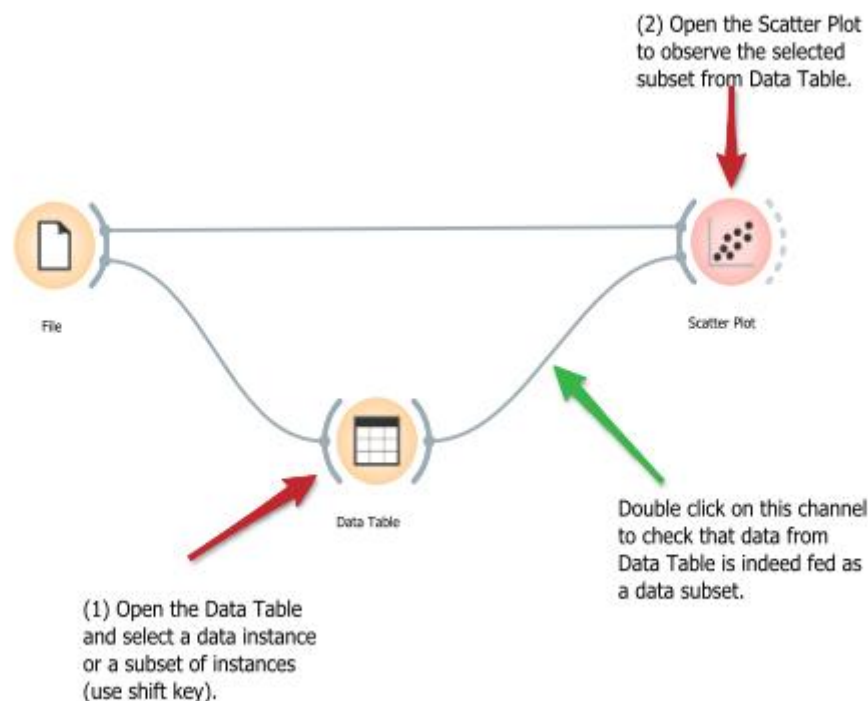
Double click on the Scatter Plot icon to visualize the data. Then select the data subset by selecting the points from the scatter plot.

Data Table widget shows the data subset selected in the Scatter Plot.

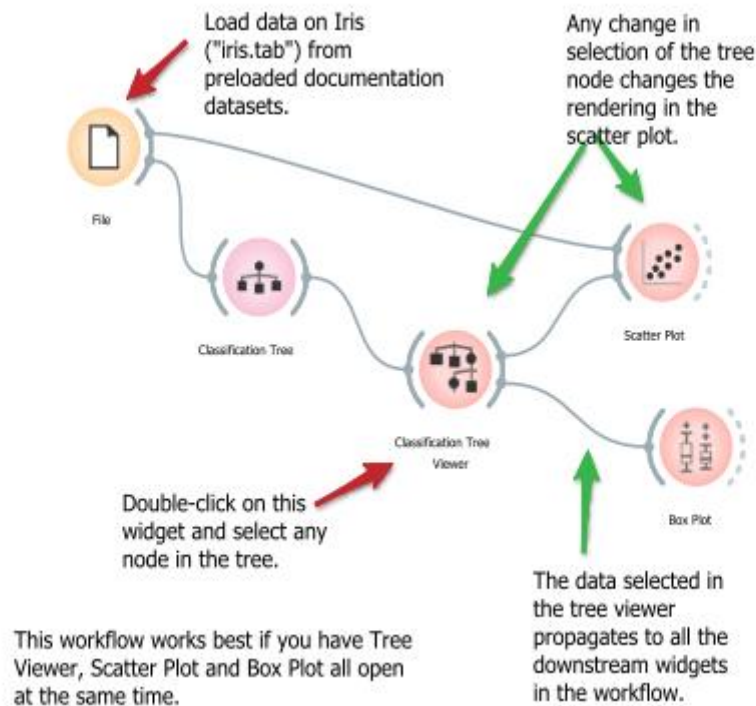


Try to connect some other widget to the output of the Scatter Plot. Say, a Box Plot widget (toolbox, Visualize pane). Box Plot will display distributions of the data subset selected in the Scatter Plot.

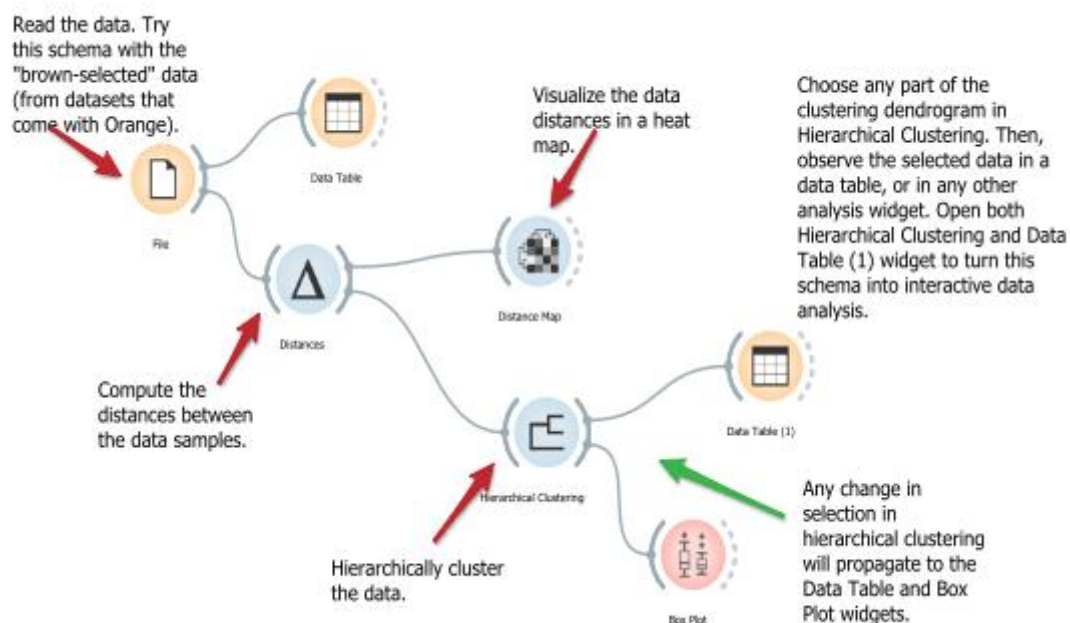
3. Visualization of Data Subset



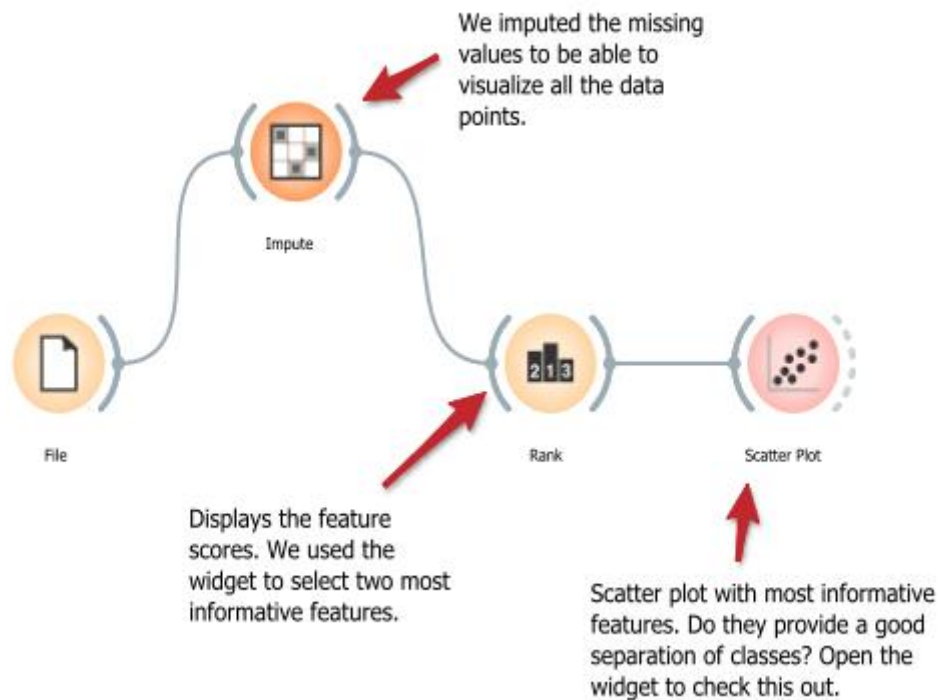
4. Classification Tree



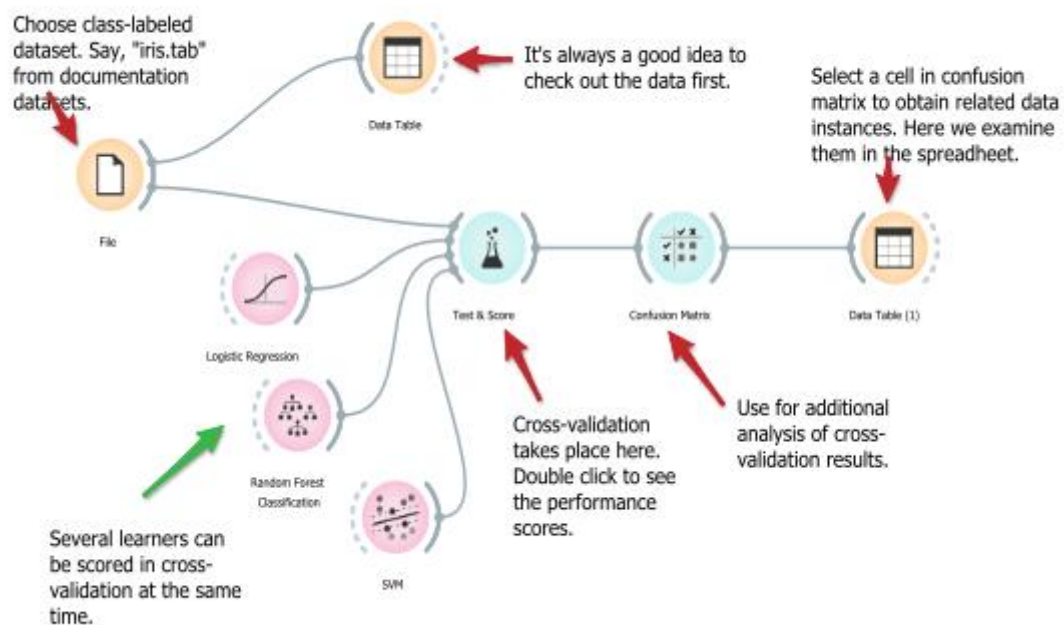
5. Hierarchical Clustering



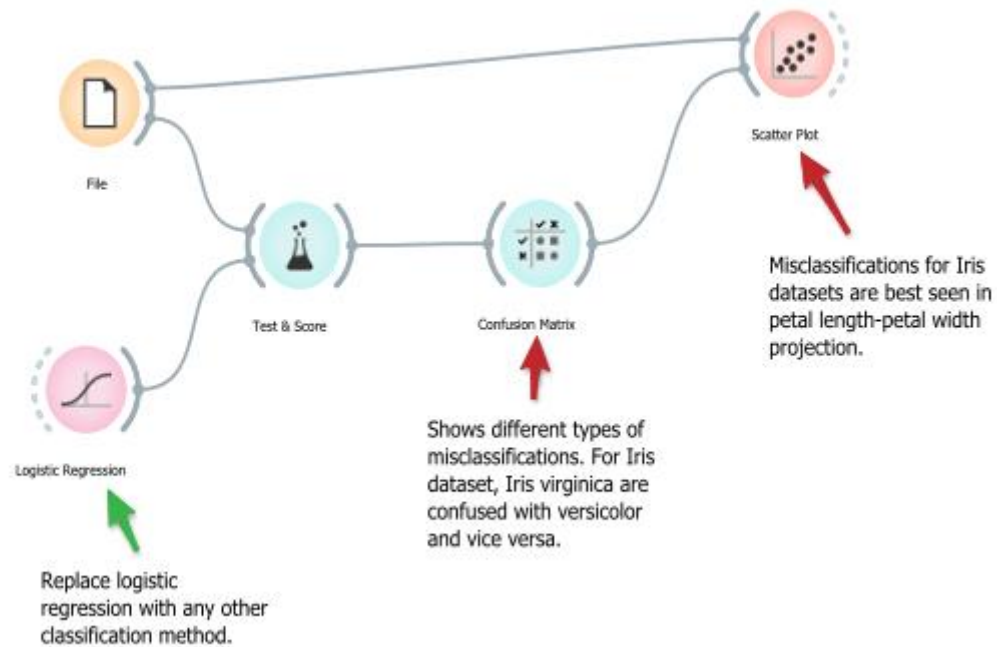
6. Feature Ranking



7. Cross Validation

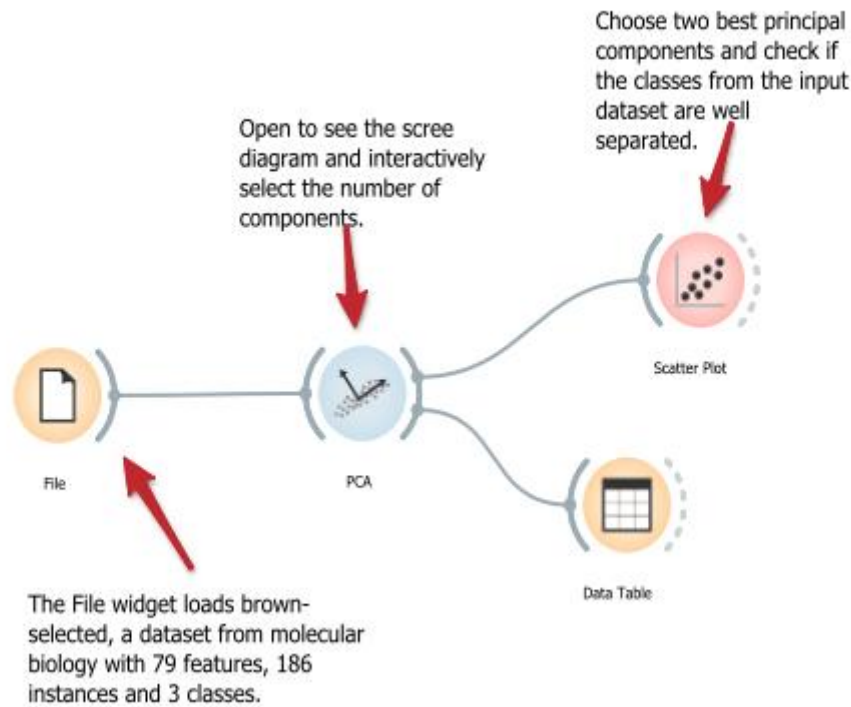


8. Locate Misclassifications



9. Principle Component Analysis

- 9.1. Load the File widget and select brown, a dataset from molecular biology with 79 features, 186 instances and 3 classes.
- 9.2. Open to see the scree diagram and interactively select the number of components.
- 9.3. Choose two best principal components and check if the classes from the input dataset are well separated.



--- End of Activity ---