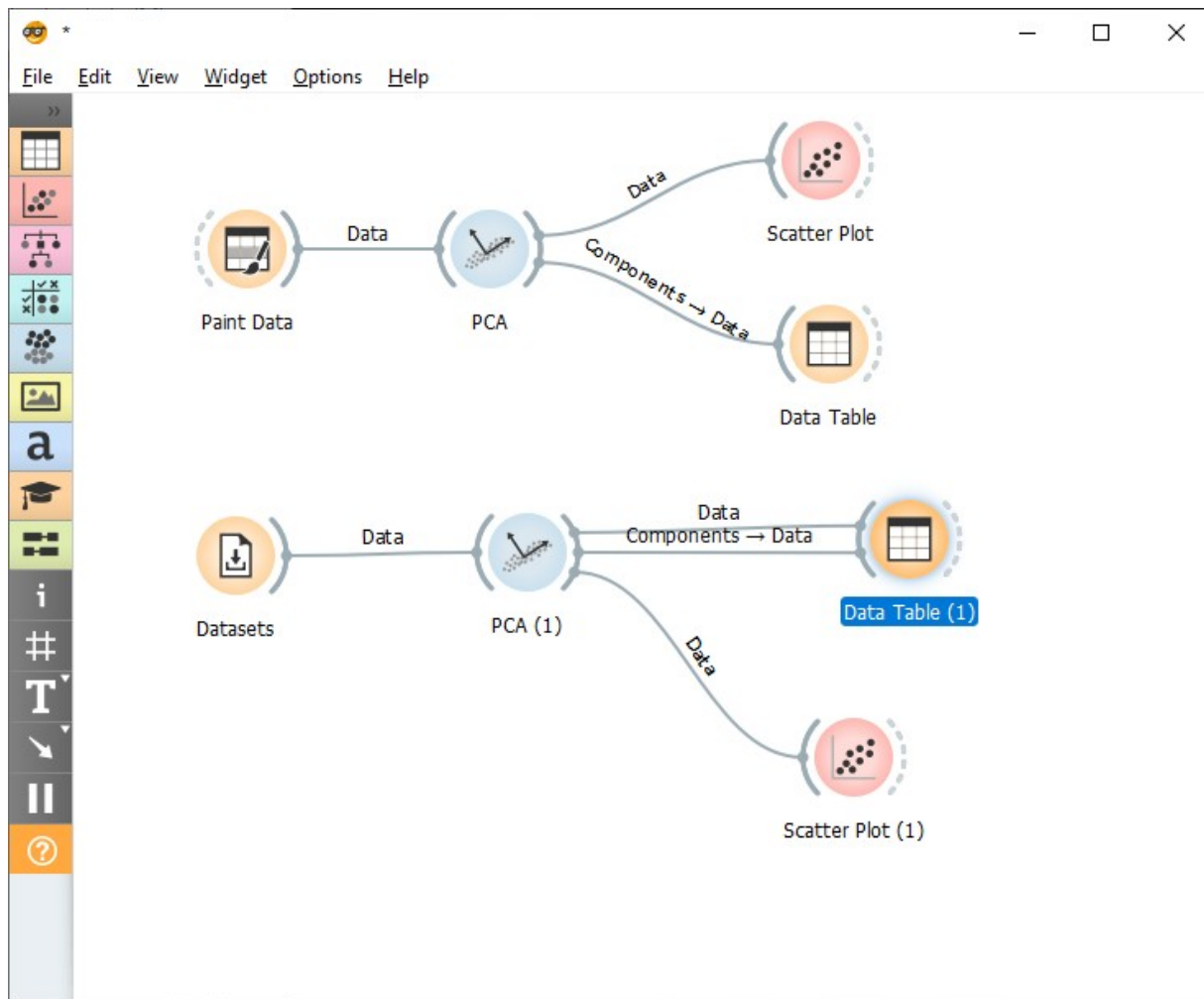


Lesson 9: Principal Component Analysis

<https://www.youtube.com/watch?v=OmaAC8a52YI>



Note: The wine data is now in the Datasets widget. Double-click on “Wine” in the Datasets widget to download the wine dataset.

Exercise: Try different paintings and look at the PCA values in Data Table. What is PC1 picking out from the data?

Exercise: In the Scatter Plot for the wine dataset, use PC1 and PC2 as the two display axes. Is there any other pair of axes which does better?

Exercise: Why do you want fewer features?

Exercise: What if there is a feature that is uncorrelated with the target?

Note: You won't learn the math behind PCA until college, but still try to understand what PC1 is picking out.