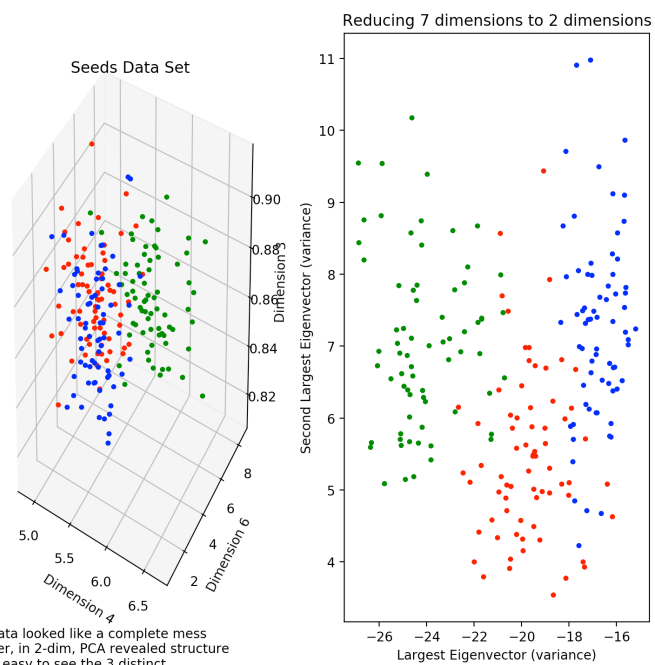
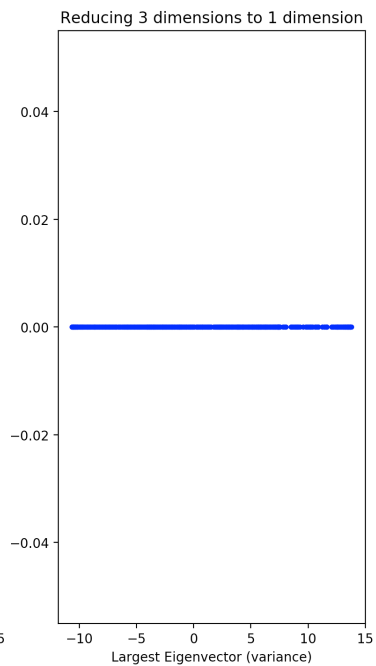


PCA once again does a fine job at retaining the inherent variability in the swissroll data set in 2-dimensions, but there's virtually no information to gain at the 1-dimensional reduction. Concerning the goal of this data set, it is true that farthest neighbors are still kept far from each other. However, nearest neighbors blend in on top of one another. PCA doesn't reveal nearest neighbors!



The seeds collection of data looked like a complete mess in the 3-dim plot. However, in 2-dim, PCA revealed structure from the chaos! It is now easy to see the 3 distinct classes.

