

3-D plotting and animations are situational tools that, although used sparingly, can sometimes really help bring a point across.

Keep in mind that you want to best visualize and convey the story the data is telling, and usually animations are over the top, but they do have their place, especially in exploratory analysis where you're trying to a visual understanding of your the 3-D distribution of your data.

1 Exercise 1 - Time Lapse of Prices

In this exercise we're going to be using our carrot and onion data that we used in Exercise Sheet 4 and before, and create an animated time lapse of this data.

1. Load in the carrot and onion data into an appropriate format
2. Set up a 3-D plot
3. Create two separate line graphs, one for onion and one for carrot, on the 3-D plot, and color each graph appropriately.
4. Animate the graphs to start plotting the first data point, and then each subsequent step plot the next 5 data points for each data set.
5. Add in an extra animation that pans across by changing the viewing angle slightly in each iteration.