Creating a Vowel Chart in Excel

(Refer to ‘Plotting_template.xlsx’ on the lab website. The instructions below are for ‘Option 1’.)

Plotting the Vowel Measurements

- Insert a basic scatter plot: Insert → Chart → Scatter → Scatter with markers
  (This step varies from each version of Excel – generally speaking, an ‘X Y (Scatter)’ plot is one of the options available when you insert a chart.)
- After you’ve inserted a new chart, right-click the empty box (your blank scatter plot) → <Select Data>.

- Here is how you’ll want to set up your data points in the ‘Select Data’ box:
  o Under the ‘Series’ box, click on <Add> to add a data series.
  o Edit Series:
    Series name: ‘Temp Point 1’ (or whatever you want to call your first temporal point data)
    Series x values: These are your F2_t1 values <select all vowels of that column>
    Series y values: These are your F1_t1 values <select all vowels of that column>
  o Click <Add> in the ‘Select Data Source’ box
  o Edit Series:
    Series name: ‘Temp Point 2’ (or whatever you want to call your first temporal point data)
    Series x values: These are your F2_t2 values <select all vowels of that column>
    Series y values: These are your F1_t2 values <select all vowels of that column>
  o Click <OK>
  o Reversing y- and x- axes:
    Right-click on x- axis → select <Format Axis>
    Check the box that says “Values in reverse order”.
    Do the same for the y- axis.
    You can also adjust your ranges for either axis.
  o Formatting the chart:
    You can label your vowels by:
    - Selecting a particular series/token and right clicking → select <Add Data Labels>. Measurement values will appear → Right-click on the data label (make sure all labels for that series are highlighted) → Format Data Label → Under ‘label contains’, check ‘series name’. You can also move around the text boxes. (Tip: If only one token gets highlighted (not the entire series), it will be the only one that will change.)
    You can also adjust the sizes, colors, and shapes of your tokens by:
    - Selecting a particular series/token and right clicking → select <Format Data Series>. (Tip: Again, if only one token gets highlighted (not the entire series), it will be the only one that will change.)