Lab 5: Selections & Grouping

Activity 0

1. Structure code - add everything in callback function
2. Date format provided - use it to process every data item
3. Load dataset - nest it

```
var nested = d3.nest()
    .key(function(c) {
        // Returns 'Technology', 'Food & Drink', or 'Airlines'
        return c.sector;
    })
    .rollup(function(leaves) {
        console.log(leaves);
    })
    .entries(stockData1); // entries returns a key-value array
```

Activity 1

1. Append trellis groupings
    a. Position them on the 4 gray backgrounds
    b. Use similar code from starter code

```
var trellisG = svg.selectAll('.trellis')
    .data(nested)
    .enter()
    .append('g')
    .attr('class', 'trellis')
    .attr('transform', function(d, i){
       //use similar code as has been used
     });
```

Activity 1

2. Create scales for each “path”
    a. xScale - time
    b. yScale - price

2.1 Create line interpolator

```
var lineInterpolate = d3.line()
    .x(function(d) { return xScale(d.date); })
    .y(function(d) { return yScale(d.price); });
```

Activity 1

3. Create line chart

a. d.values is an array

b. [d.values] in an array containing a single array

c. lineInterpolate handles processing x and y from each data item

```
trellisG.selectAll('.line-plot')
    .data(function(d){
        return [d.values];
    })
    .enter()
    .append('path')
    .attr('class', 'line-plot')
    .attr('d', lineInterpolate)
    .style('stroke', '#333');
```

Activity 1

4. Create axes for each subplot

5. Add color to each line