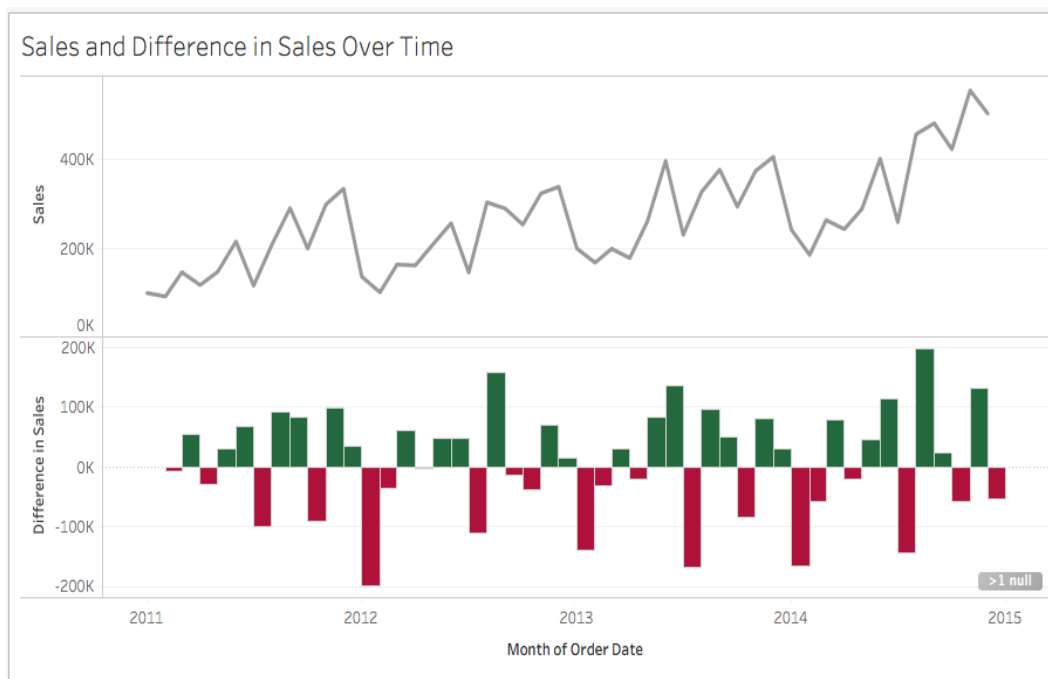


1. Using the **Global Superstore.xls** datafile, do the following:
 - (a) (3 points) Load the **Orders** sheet.
 - (b) (4 points) Create a new calculated field, call it **Profit Ratio**, using the formula below.

$$\text{SUM}([\text{Profit}]) / \text{SUM}([\text{Sales}])$$
 - (c) (4 points) Create a parameter, call it **Profit Ratio**. Set the data type to float, current value 0.1. Check range and use the following: minimum 0.05, maximum 0.3, and step size 0.05.
 - (d) (4 points) Create a new calculated field, call it **Regions and Profit Ratio** using the formula below.

$$[\text{Profit Ratio}] > [\text{Parameters}].[\text{Profit Ratio}]$$
 - (e) (6 points) Create an appropriate visualization that shows the regions that have a profit ratio greater than or equal to the value of the parameter **Profit Ratio**. List the regions that have a profit ratio greater or equal to 20%.
2. Using the **Global Superstore.xls** datafile, do the following:
 - (a) (5 points) Duplicate the chart below.



- (b) (3 points) Using the chart from part(a), what is the month and year the has the biggest difference in sales?

¹Make sure you submit a *.twb file in Blackboard.