External Data Source:

1. **Information the data contains**: Average monthly temperature in the U.S. from January 2013 to July 2016 (in Fahrenheit)

**Link**: <https://www.statista.com/statistics/513628/monthly-average-temperature-in-the-us-fahrenheit/>

**Data Usage**: we use the average monthly temperature in the U.S. from January 2015 to December 2015 to examine

* the relationship between popularity (number of reviews) of winter receipts and temperature in a year.
* the relationship between number of posts and temperature

1. **Information the data contains**: Unemployment Rate from year 2006 to 2016

**Link**: <http://data.bls.gov/timeseries/LNS14000000>

**Data Usage**: we use the unemployment rate from year 2006 to 2016 to examine

* the relationship between unemployment rate and cooking time of posts
* the relationship between unemployment rate and the number of posts
  + Your hypothesis for combining the data.
  + The results of combining the data, and if it validates or invalidates your hypothesis.
  + Briefly describe the chart’s significance for your application and the action you could take (if any) given the new information.

Chart1:

TODO: Insert chart

**Hypothesis**: we expect the lower of the temperature, the more number of reviews of winter recipes

**The result of combining the data**: validates our hypothesis??

**Significance and Action**: We can recommend popular winter recipes on the main page of our website when the temperature is low

Chart2:

TODO: Insert chart

**Hypothesis**: we expect the lower of the temperature, the more number of posts. (People tends to cook at home rather than go out to eat)

**The result of combining the data**: validates our hypothesis??

**Significance and Action**:

Chart3:

TODO: Insert chart

**Hypothesis**: we expect the higher of unemployment rate, the longer of the cooking time of the posts

**The result of combining the data**: validates our hypothesis??

**Significance and Action**: We can recommend popular recipes with longer cooking time on the main page of our website when the unemployment rate is high

Chart4:

TODO: Insert chart

**Hypothesis**: we expect the higher of unemployment rate, the more number of posts

**The result of combining the data**: validates our hypothesis??

**Significance and Action**:

Chart5:

TODO: Insert chart

**Hypothesis**: we expect the higher CPI leads to more number of posts

**The result of combining the data**: validates our hypothesis??

**Significance and Action**: