Project Title: Wine Recommendations

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Project Description:

We want to compare the ratings of several different varieties of wine with the cost of that wine to identify the best values for wine aficionados.

Data Sets:

<https://www.kaggle.com/zynicide/wine-reviews>

Questions:

1. I am going to the store to buy a bottle of wine, from which country will I get the best wine for my money? The analysis should yield a recommendation of which varietals and countries provide the biggest bang for your buck.
   1. Which country has the best wine rating? (of the top 10 producing countries)
      1. Bar Graphs
         1. Average rating by country (Groupby (country).mean() )
         2. Price by country
         3. Average points by varietal
   2. Linear regression:
      1. If the price of a bottle increases, then does the rating?
   3. Which country has the best price to rating ratio?
   4. Maybe just compare Italy and France? I have always wanted to know who makes better wine.
   5. Pie charts
      1. In the US, what is the split of varietals?
      2. Of US producers, where is the most wine produced (provinced)?

**Tasks/Responsibilities:**

* Andy: Data clean-up - Git Boss
* Jeannaej: Write up/graphs analysis
* Natalia: general & graphs analysis
* Sharon: presentation/general analysis

**Notes:**

* **Data clean up - Any**
* **General analysis**
* **Graphs of analysis**
* **Write up**
* **Presentation done by noon, sat 20 feb**

**If time allows:**

EXTRA: Recommend a single bottle of wine

1. I am in vintner in America and I have a specific grape that I want to grow, but I do not know where it grows best. Is there a way to find out where this grape grows best?
   1. Where the grape variety grows the most? Easy or hard to grow?
   2. Where growing the grape is the most profitable?
   3. Where the wine would be rated the highest?
      1. Histogram of average rating by region
   4. Only one varietal of US grapes, groupby(“Region”).mean()
   5. Country = US, groupby(“province”).value\_counts()