



Data Visualization

5 Insights in September 2020

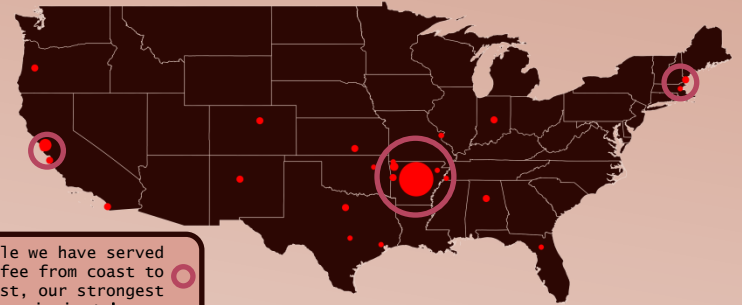


Mapping

The most intuitive way to associate information with location is by mapping. The chart to the right shows the locations of customers in the United States who have purchased our coffee. The larger the marker, the more coffee sold!

Editor: Pycharm, Jupyter Notebooks
Packages: Pandas, Geopandas, Matplotlib,

June - September Sales



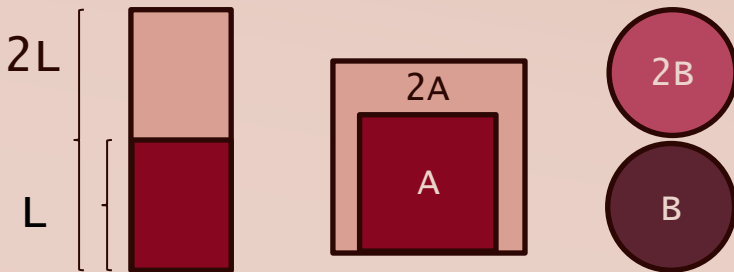
1

Aesthetics

Some comparisons of physical properties are easier to make than others. People can more accurately identify something that is twice as long than they can something twice as bright.¹

Editor: PowerPoint

2x Length > 2x Area > 2x Brightness



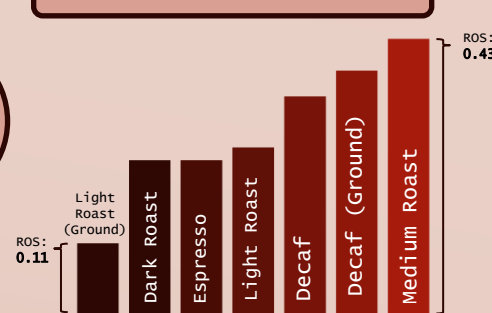
2

Business Insights

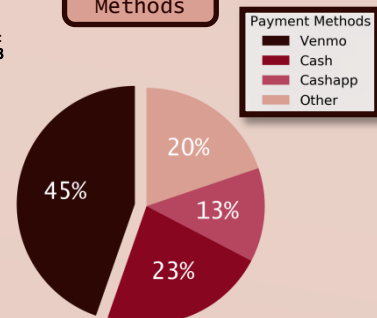
We sell medium roast coffee at a rate of 0.43 bags per day. Medium roast coffee is our fastest-selling item. 80% of our customers pay using Venmo, Cash, or Cashapp. Linking our business bank account to Venmo would be especially helpful.

Editor: Pycharm
Packages: Pandas, Matplotlib

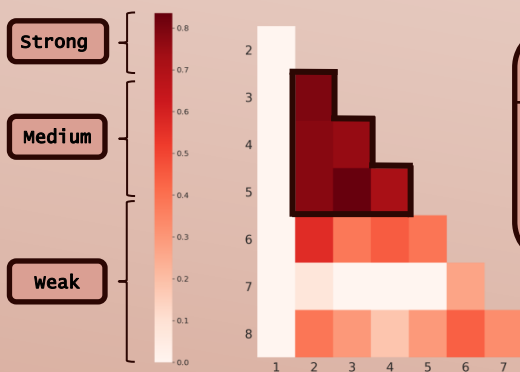
Product Rate of Sale (ROS)



Payment Methods



3



2019 World Happiness Report

1. Happiness Score
2. Happiness Score
3. GDP Per Capita
4. Social Support
5. Life Expectancy

4

Statistics

The heat map to the left shows how strongly different variables correlate with one another. In this case, the strongest correlation is between variable 3 (GDP Per Capita) and variable 5 (Life Expectancy).²

Editor: Jupyter Notebooks
Packages: Pandas, Seaborn, Matplotlib

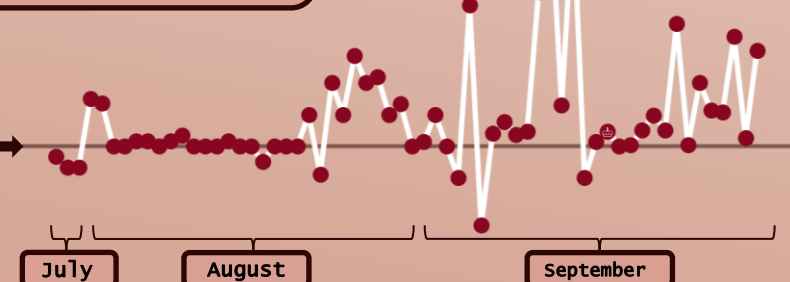
Time Management

Google Calendar data can be downloaded in an excel file format.³ The red dots in the graph to the right represent each consecutive day I learned about data science. Time spent learning is represented by the height of the dot.

Editor: Pycharm
Packages: Pandas, Matplotlib

Average: 117 Min
Maximum: 5.2 Hrs
Minimum: 15 Min

90 Min



5

SOURCES

1. Wilkinson, L. & Wills, G. (2005). The grammar of graphics. New York: Springer. Pg. 260
2. World Happiness Report Data, <https://www.kaggle.com/unsdsn/world-happiness>
3. Google Calendar to Excel file converter, <https://www.gimereport.com/>
4. Icons made by Pixel Perfect, <https://www.flaticon.com/authors/pixel-perfect>
5. USA Map shape file retrieved from <https://www.census.gov/geographies/mapping-files/2018/geo/carto-boundary-file.html>

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