
INFS 5116 – DATA VISUALISATION

Workshop Week 9

Quiz

Kahoot quiz on design principles

Lessons in storytelling

Mini-lecture

Scenarios for group work

1. Recall the scenario where we have analysed customer feedback for an app. The primary metric of interest was Net Promoter Score (NPS), which was tracked over time and compared to a set of competitors' scores. There was also some written customer feedback categorised into themes.

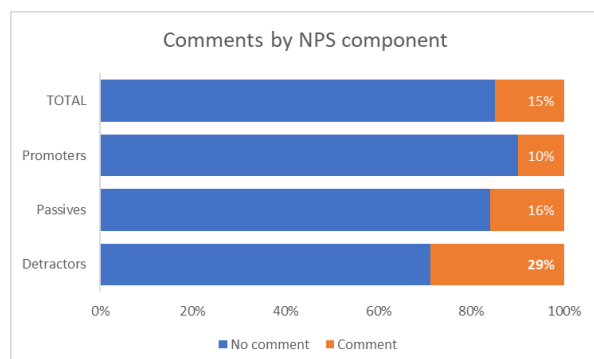
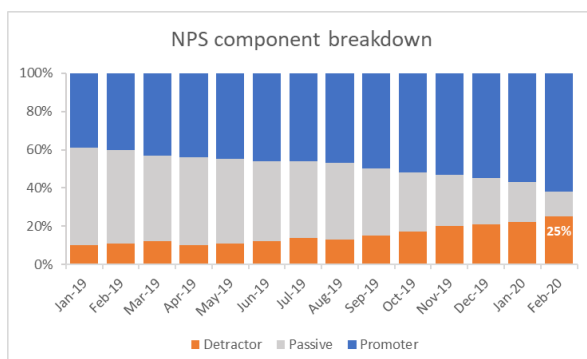
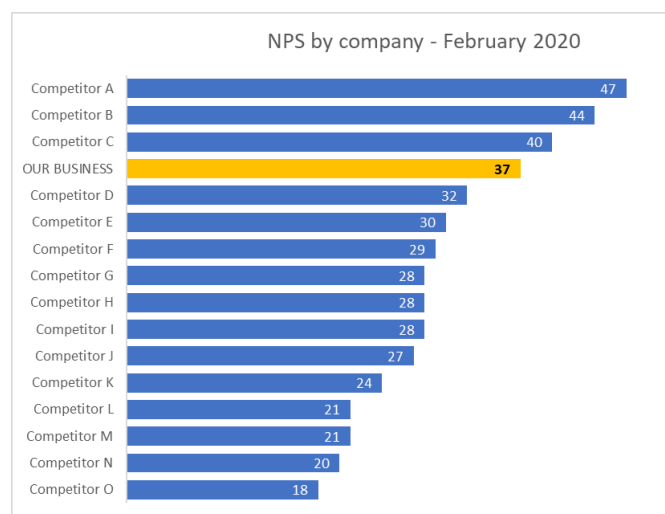
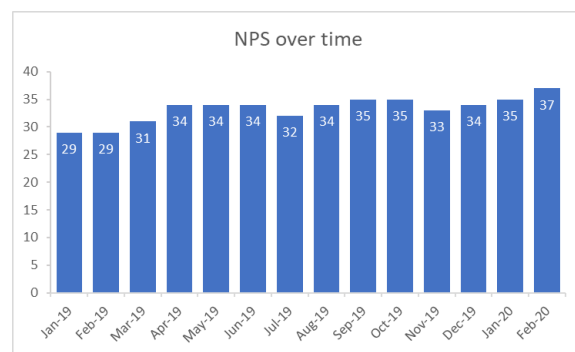
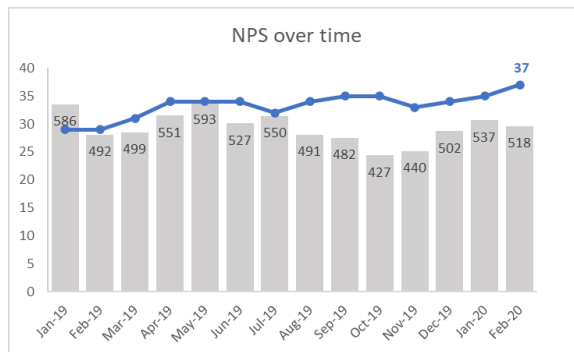
Key points from analysing the data were as follows:

- While NPS has generally increased over time, underlying feedback has become increasingly polarized, with both promoter and detractor populations increasing as a proportion of the total over time.
- Analysis of detractor comments indicates a theme of concerns over latency and speed.

You would like to highlight these findings and use them to recommend giving priority to latency improvements for the app.

Review the graphs shown below and then do the following:

- (a) Formulate your 'big idea' for this situation. It should be a sentence that articulates your point of view and conveys what's at stake for your product.
- (b) Have a closer look at the graphs. Write a sentence or two about each graph that describes the primary takeaway message from that graph.
- (c) Based on your answers to parts (a) and (b), brainstorm which graphs you would include and create a brief outline of your story. ***How would you structure your narrative?***



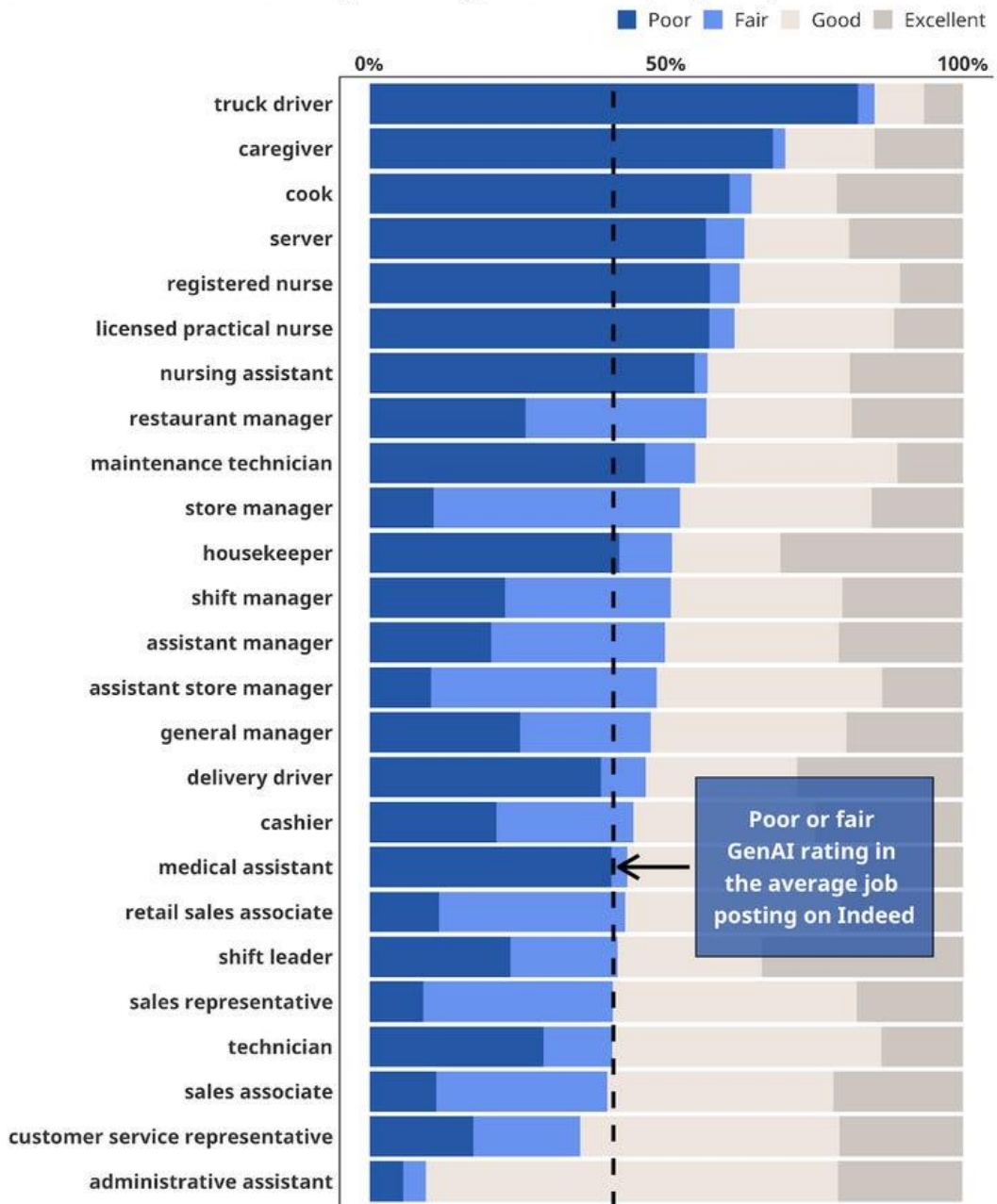
2. **What's the story?** Examine the graphics shown below. Formulate your 'big idea' for each situation. It should be a sentence that articulates your point of view and conveys insights from the graphic.

Graphic 1

Which jobs were most and least at risk of being affected by AI? The Indeed researchers looked at the 25 most common jobs posted on Indeed over the period — which accounted for 22% of the platform's total job postings — and compiled the percentage of skills for each role that, per their analysis, ChatGPT could perform at excellent, good, fair, and poor levels.

High-Demand Jobs Least Exposed to GenAI Change

Top 25 Occupations Account for 22% of Job Postings on Indeed,
Evaluation of Skills in Indeed Job Postings, United States, Aug '22 - Jul '23



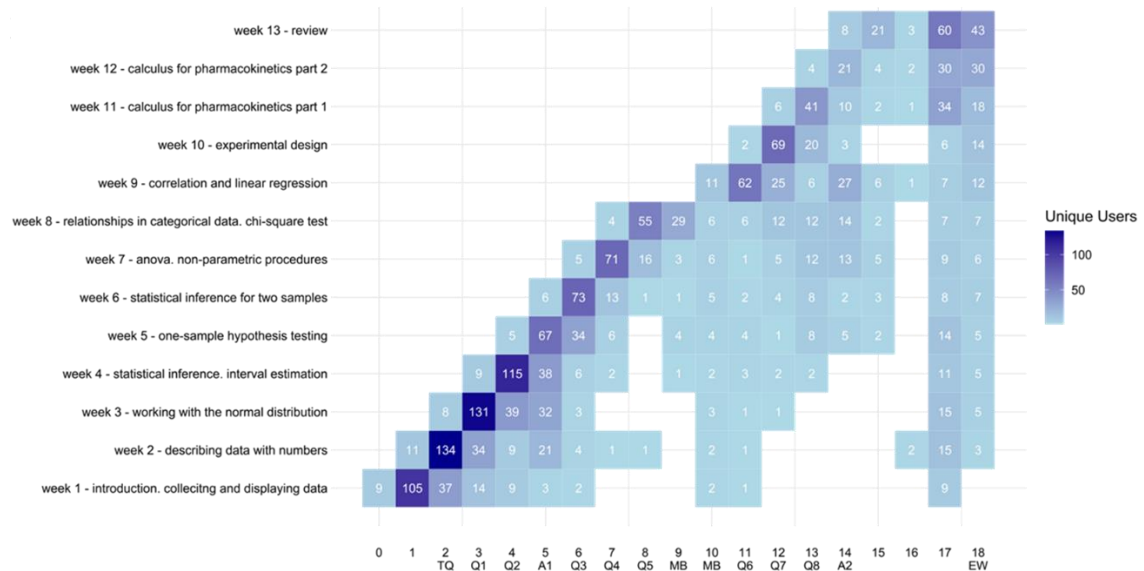
Source: Indeed.

indeed

Graphic 2

How do students engage with content videos in a first-year 'quantitative methods' course for health sciences students?

Q1, Q2 etc refer to weekly quizzes, A1 and A2 are two major assignments and EW stands for exam week.

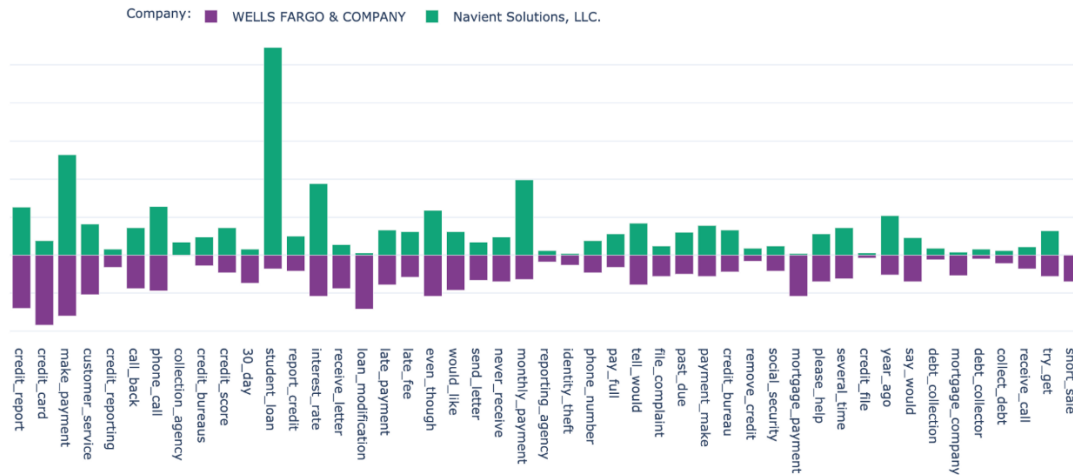


Graphic 3

What do bank customers complain about?

Source: <https://medium.com/plotly/nlp-visualisations-for-clear-immediate-insights-into-text-data-and-outputs-9ebfab168d5b>

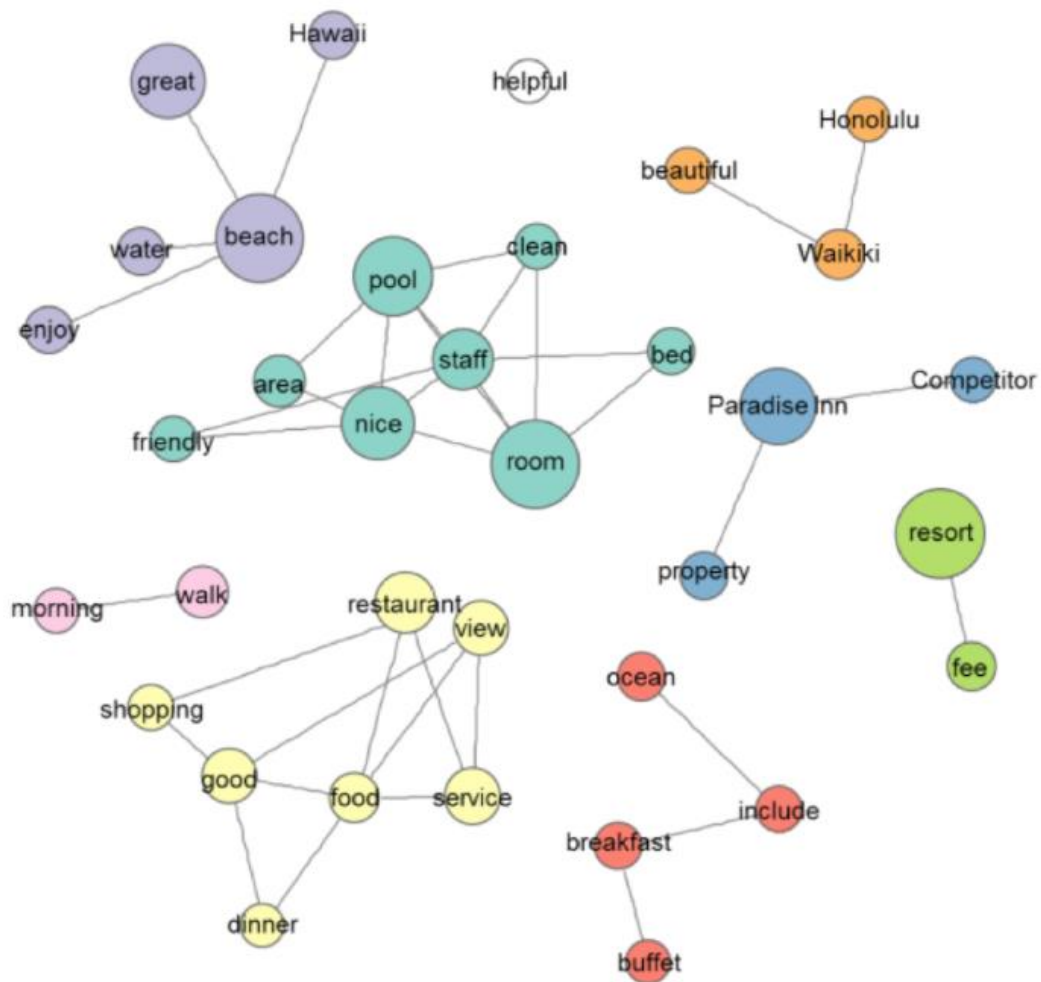
Comparison: Navient Solutions, LLC. | WELLS FARGO & COMPANY



Graphic 4

What do customers talk about in reviews for a resort hotel in Hawaii, located near Waikiki beach?

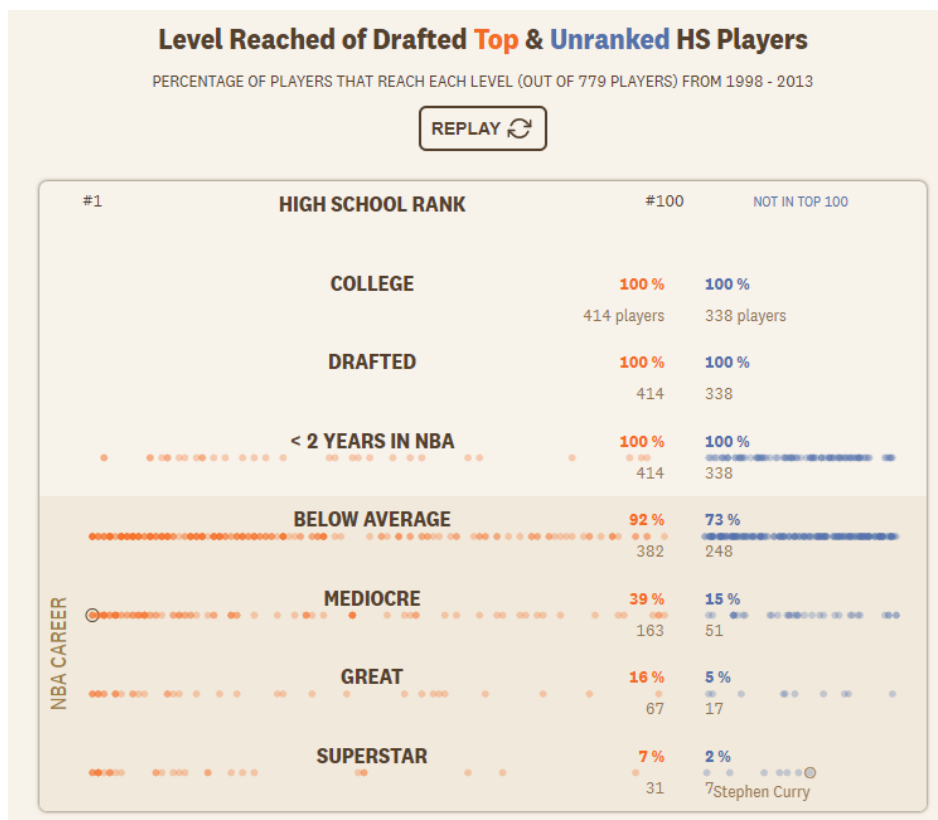
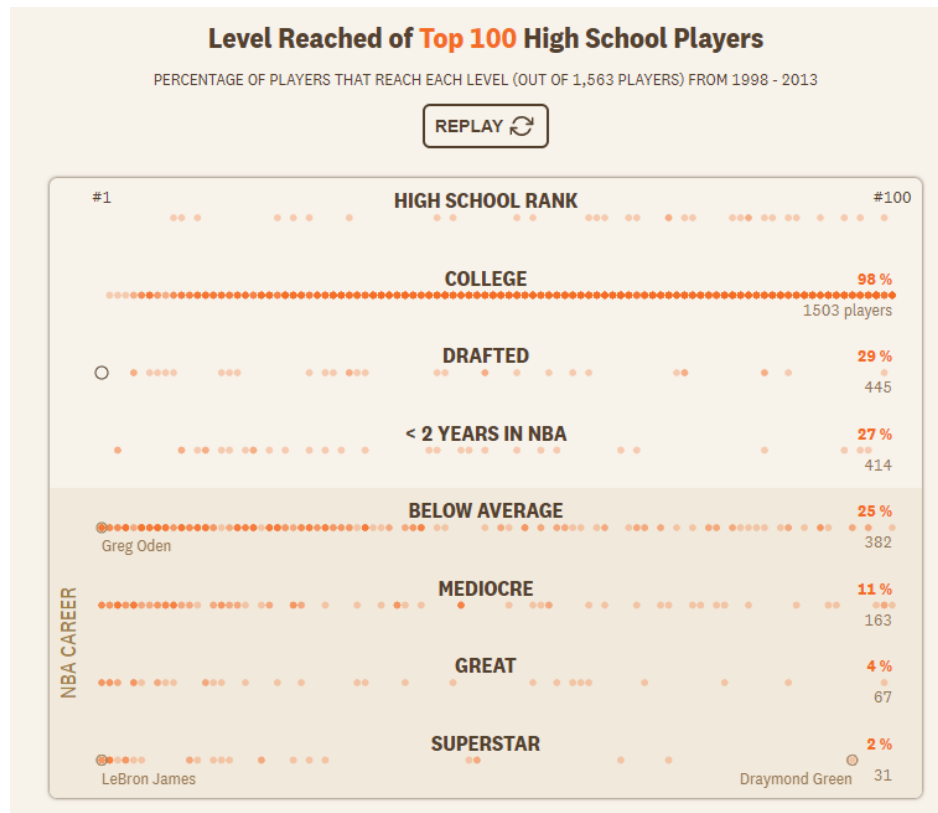
Source: <https://uxmag.com/articles/text-analytics-for-everyone>



Graphic Set 5

What happens to talented high school basketball players?

Source: <https://pudding.cool/2019/03/hype/>



Graphic Set 6

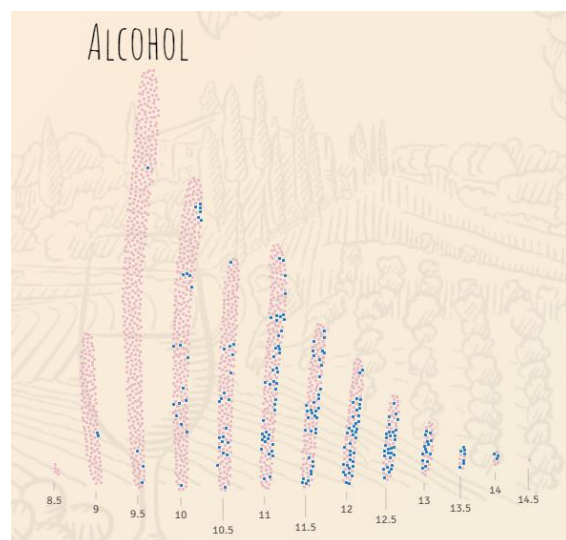
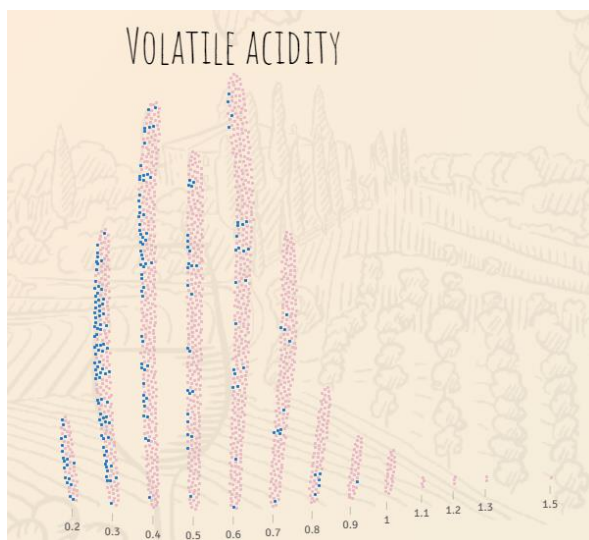
Source: <https://pudding.cool/2021/03/wine-model/>



wines of **lower quality** (anything rated below 7) and wines of **high quality** (wines rated 7 and above).

Note, how the majority of medium quality wines mingle in the centre. As such, "**high-quality**" for this dataset really does mean good from the assessors perspective, while "**low-quality**" includes truly low-quality wines as well as average wines resulting in a proportionally larger class.

Models don't particularly like this imbalance and we would typically counter this with **helpful techniques**; but we'll keep it simple here.



Graphic Set 7

The following data are Google trend scores based on global searches. They're rated 1-100. Source: <https://rhythm-of-food.net>

