

COVID-19 Data Visualization on Twitter

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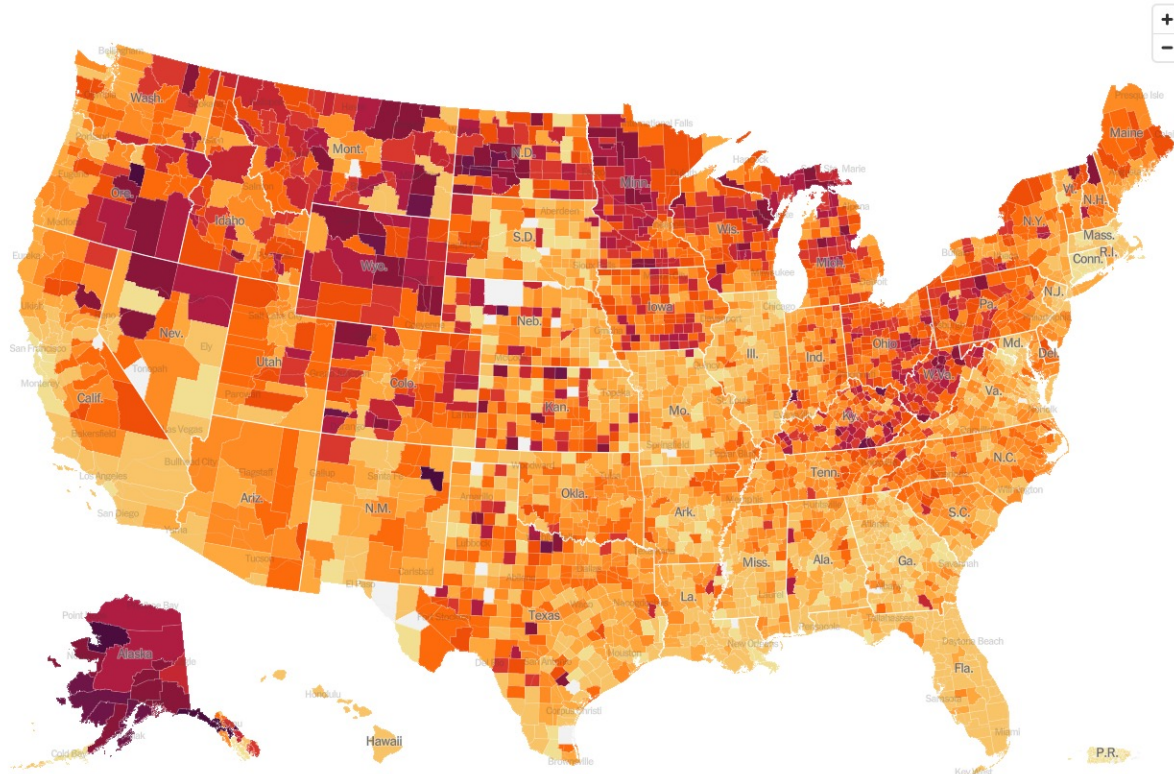
For today:

- Answer Heilmeier questions
 - Answer each question briefly
 - Brief literature survey(>18)
 - Expected innovation
- Plan of activities



1. What are we trying to do/ 4. Who cares

- Twitter is a popular place for COVID discussion
- Find the relationship between the COVID case and the number of tweet in each country



2. How is it done today; What are the limits of current practice

- COVID & Twitter: information preference, interactive visualization, sentiment analysis, location prediction, etc.
- None of them contain the visualization of tweets related to COVID.

3. What's new in our approach? Why will it be successful?

- None of them contain the visualization of tweets related to COVID
- Why success
 - Obtain COVID dataset from CDC
 - Huge dataset regarding the number of tweets
 - Incorporate with machine learning algorithm
 - Few visualization webpages as reference

5. What difference and impact will it make, and how do we measure them

- Visualization:
 - Provide an informational visualization of COVID case distribution across the world on a map
 - An analysis of trend in COVID-related chatter on Twitter
 - Actual COVID case chart over the same time period
 - Word Cloud
 - ...
- Measurement
 - Compare the generated map against the map provided by New York Times
 - Send out surveys

6. What are the risks and payoffs

- Risk
 - Privacy concern over getting users' geo-location
- Payoffs
 - Predict upcoming spikes
 - Provide linguistic/ cultural analysis

7. How much will it cost

- \$0 at present
- 750-hour quota on Amazon EC2
- \$300 free credit on GCP

8. How long it will take

- Plan to finish the project by Sunday, Nov 28.

9. What are the midterm and final “exams” on check for success? How will progress be measured

- Midterm: Finish data cleaning & Realize basic visualization
- Final: Achieve all visualizations and interactions
- Weekly meeting on Sunday

Plan of activity

