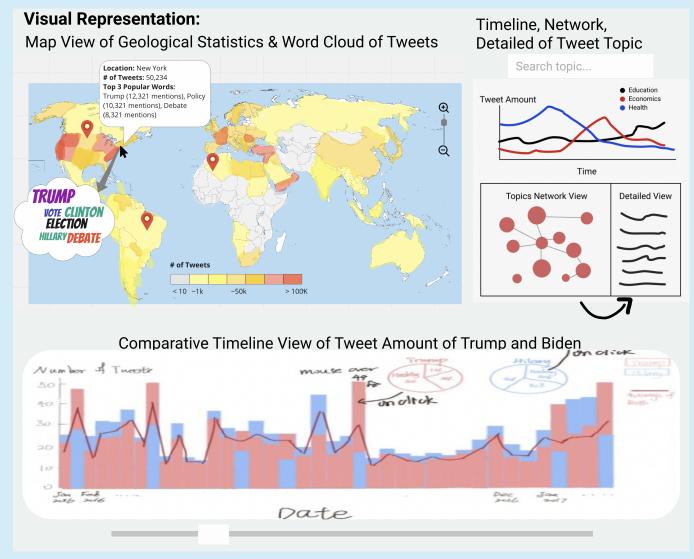
# Visualizing Tweets during the Final Debate of 2020 US Presidential Election

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#### Milestones:

M1: Data cleaning and preliminary analysis (Week 1: 11/9-14)

M2: Visualizing word frequency & hashtag analysis (Week 2: 11/15-21)

M3: Topic Modeling and visualizing popular topics (Week 3: 11/22-28)

M4: Combining features in M2&3 into final product (Week 4: 11/29-12/5)

M5: Debug, polish, and create video demo and report (Week 5: 12/6-12/10)

#### **Problem and Motivation:**

- The presidential debate triggers millions of discussion on Twitter over the world.
- Build an interactive visualization that facilitate understanding of topics, sentiments, and global attitudes on Twitter.

## **Data Description:**

- Tweets on Oct. 21-23 (Oct. 22 is final debate)
- Debate related hashtags like #trump, #biden, #president, #debate are used to find tweets.
- Data collected using the Tweet API
- Attributes include tweet content, user location, favorite/retweet count, etc.

### **Implementation Details:**

- Load everything in the browser
- NLP Analysis:
  - NLTK (Tokenization, n-grams)
  - Gensim (Topic Modeling)
- Visualization:
  - Tableau (Interface, Maps)
  - D3 (More design flexibility)
- Tutorials:
  - Vizception Tableau Software Tutorial on Tableau & D3 Intergration (https:// www.youtube.com/watch? v=U9KtO7hx9qw)