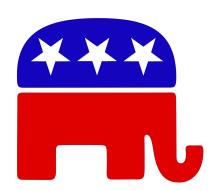


# Yet Another US Election Vis

Group 3

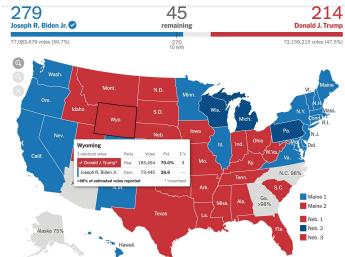
Junran Yang Guangan Chen Dang Mai



## Topic

- U.S. Election Visualization
  - Election results
  - One party wins
- Dynamic (Shift) rather than Static (Results)





## Topic

Trend?

**Shift of Voting?** 

**Parties?** 



**Correlation?** 

**GDP** growth, **GPD** value?

#### Dataset

```
MIT Election Data Science Lab : U.S. Election data from 1976-2016

election_shift_rate = dem_last_year_percent - dem_start_year_percent

avg_total_vote_years = average(total vote of each selected year)

US States GDP at market prices : U.S. States GDP from 1976 to 2016

gdp_growth_rate = (state_last_year_gdp_value - state_start_year_gdp_value) / state_start_year_gdp_value
```

### Work distribution

#### **Teamwork**

Topic discussion; data encoding

#### **Junran Yang**

Mockup; Data Collection; Control Pane; Map Visualization

#### **Guangan Chen**

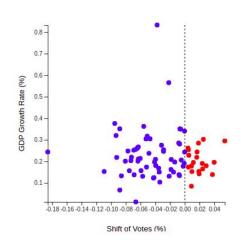
Data Collection; Map Visualization

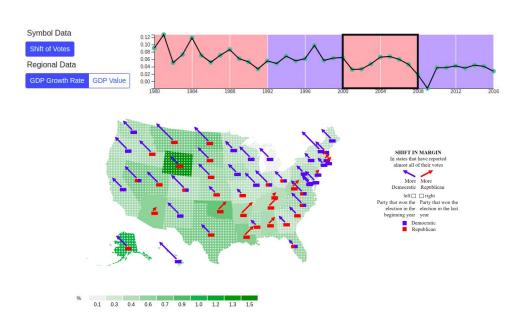
#### **Dang Mai**

**Auxiliary Visualization** 

## Difficulties

- Finding appropriate visualization
- Aggregate the shift of voting and GDP data
- Decision of normalization





## Tool Interface

- Control Pane
  - Data Option
  - Year Selection
  - Selected States
- Map Visualization
  - Choropleth
  - Arrow Glyph
  - Auto Selection
- Auxiliary Visualization
  - Individual and Summary Line Chart
  - Scatterplot

## User Tasks and Interesting Findings

- How does the election periods change? And GDP data? (Control Pane)
- Are some states always for Democrats or Republicans? (Individual Line Chart)
- How does the economy of states that shift towards Republicans (or Democrats) perform? (Summary Line Chart)
- What is the correlation between GDP values and shift of votes? (Map and Summary Line Chart)
- What is the correlation between GDP growth rates and shift of votes? (Map and Summary Line Chart)
- How votes shift between each periods? (Control Pane and Map)
- How much would a party win over another? (Summary Line Chart)