Natural Language Processing

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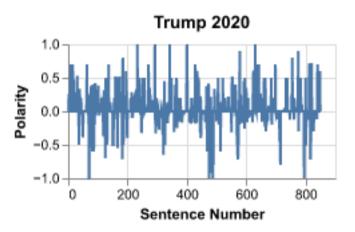
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Do-pair-share: solution

```
with open("files/trump 2020.txt", 'r') as file:
    trump 2020 text = file.read()
doc_trump_2020 = nlp(trump_2020_text)
trump 2020 sentence polarities = []
for i, sentence in enumerate(doc_trump_2020.sents):
    polarity = sentence, .blob.polarity
    trump_2020_sentence_polarities.append({"n": i + 1, "trump_2020_polarity": polarity})
df_trump_2020 = pd.DataFrame(trump_2020_sentence_polarities)
print(f"Trump 2020 Polarity: {doc trump 2020. .blob.polarity:.2f}")
chart3 = alt.Chart(df_trump_2020).mark_line().encode(
   x=alt.X('n', title='Sentence Number'),
   y=alt.Y('trump_2020_polarity', title='Polarity')
).properties(
   title = "Trump 2020".
   width=200.
   height=100
chart3
```

Do-pair-share: solution

Trump 2020 Polarity: 0.07



- Relative to 2016, Trump was more negative
- ▶ But also had less variance in his sentiment