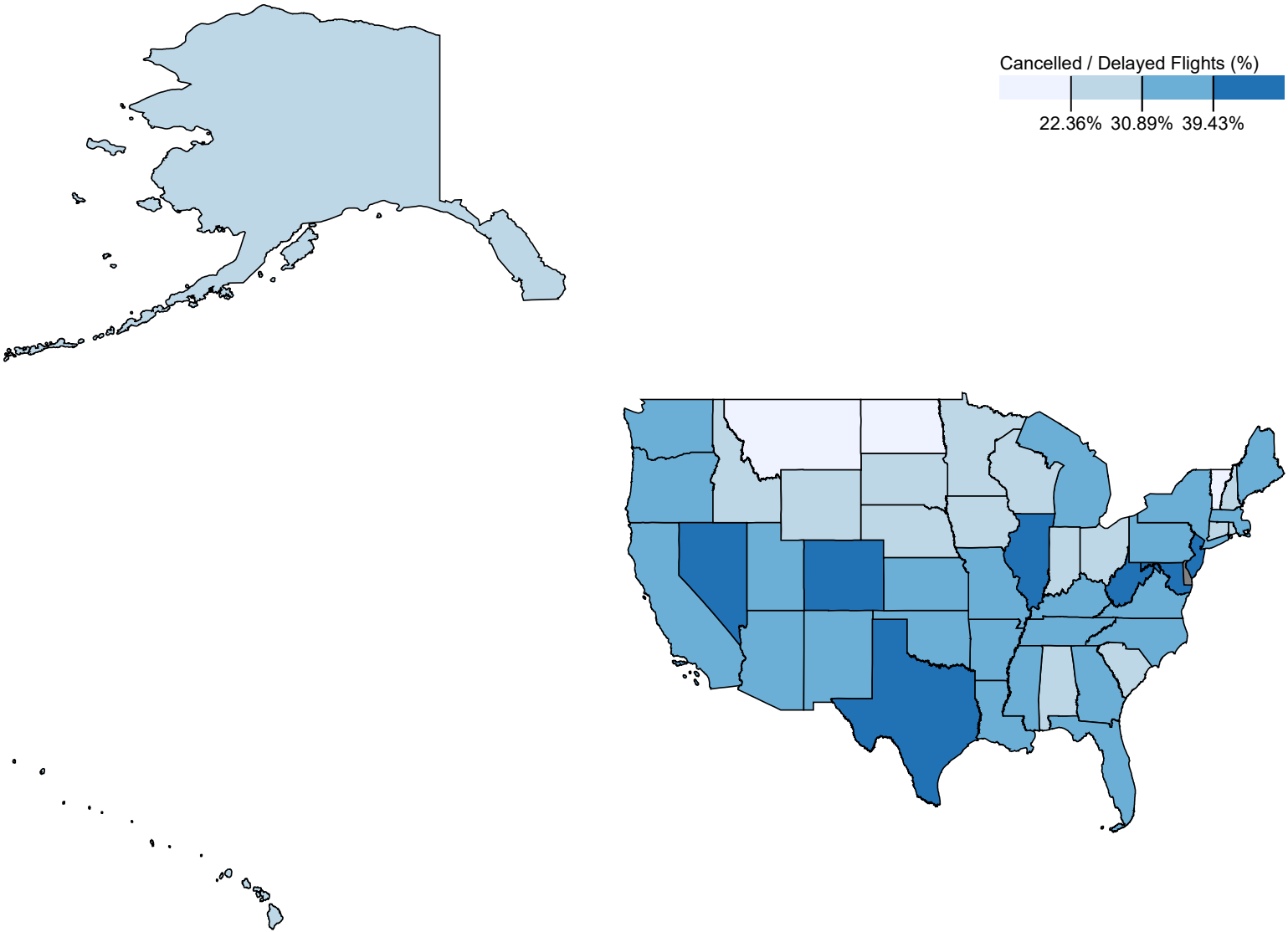


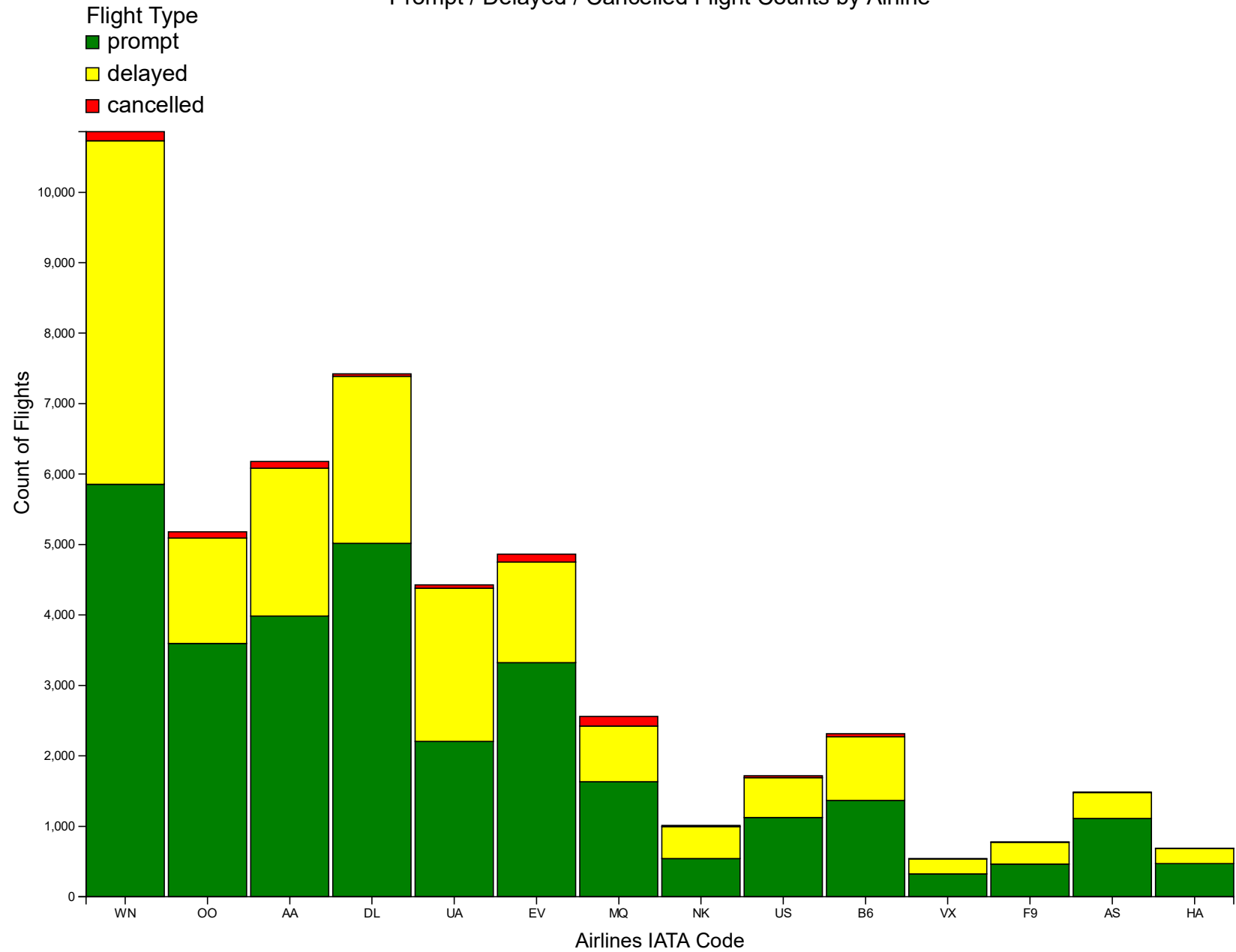
Visual Summary for Flights Within the U.S.

☒ Blue Color Scheme ☐ Red Color Scheme ☐ Green Color Scheme ☐ Orange Color Scheme ☐ Purple Color Scheme

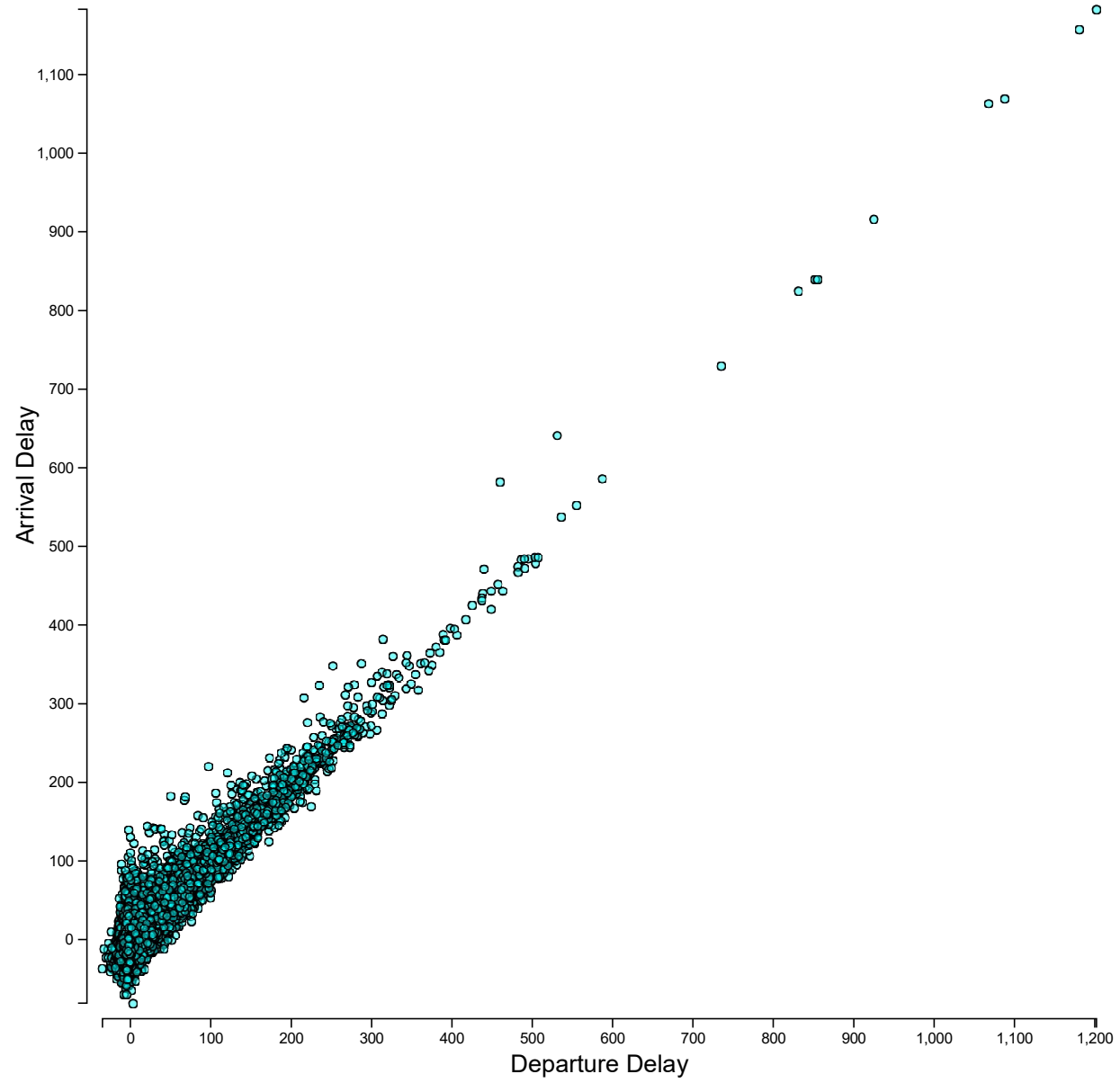
Frequency of Cancelled or Delayed Flights by State



Prompt / Delayed / Cancelled Flight Counts by Airline



Departure Delay vs. Arrival Delay



A/B test to determine if the airline has an impact on whether or not a flight will be cancelled or delayed:

Null Hypothesis: The proportion of cancelled / delayed flights for Southwest Airlines is about the same as that of other airlines.

Alternative Hypothesis: The proportion of cancelled / delayed flights for Southwest Airlines is greater than that of other airlines.

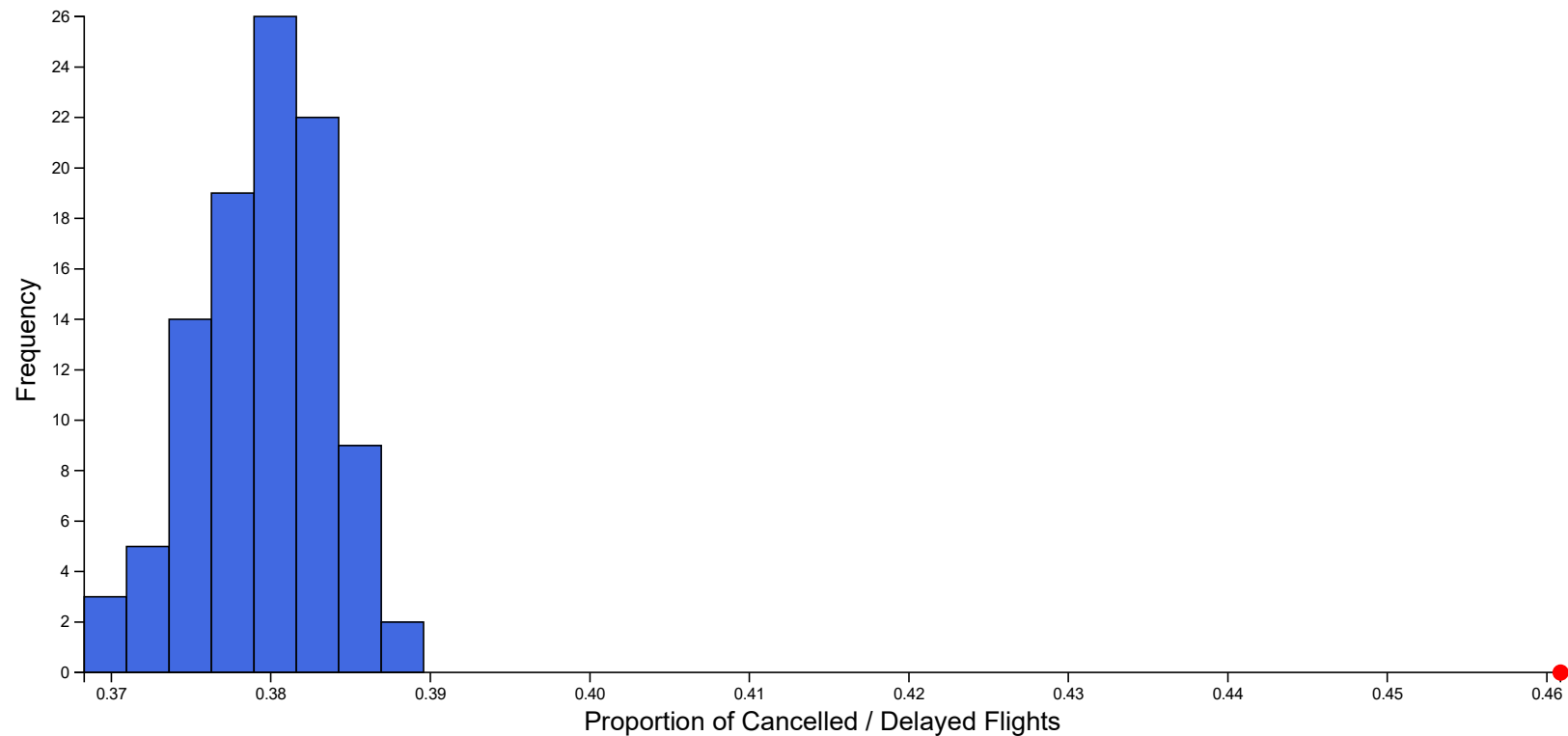
We performed an A/B test with 100 simulations to see the distribution of the proportion of Cancelled / Delayed Flights to our target airline, Southwest Airlines.

We then plotted a red point to represent the observed proportion.

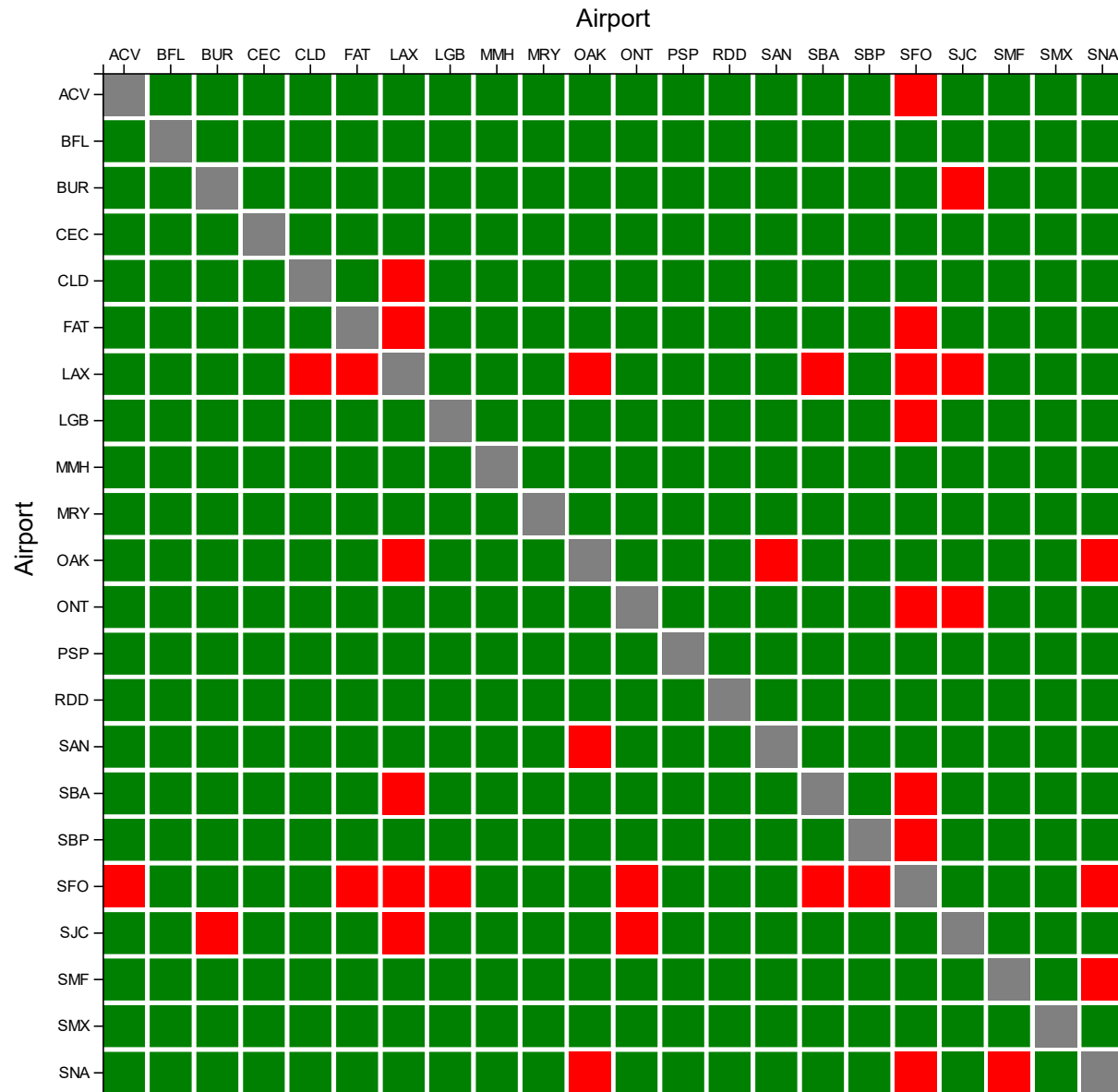
Our p-value is: 0.

Reject Null Hypothesis: true

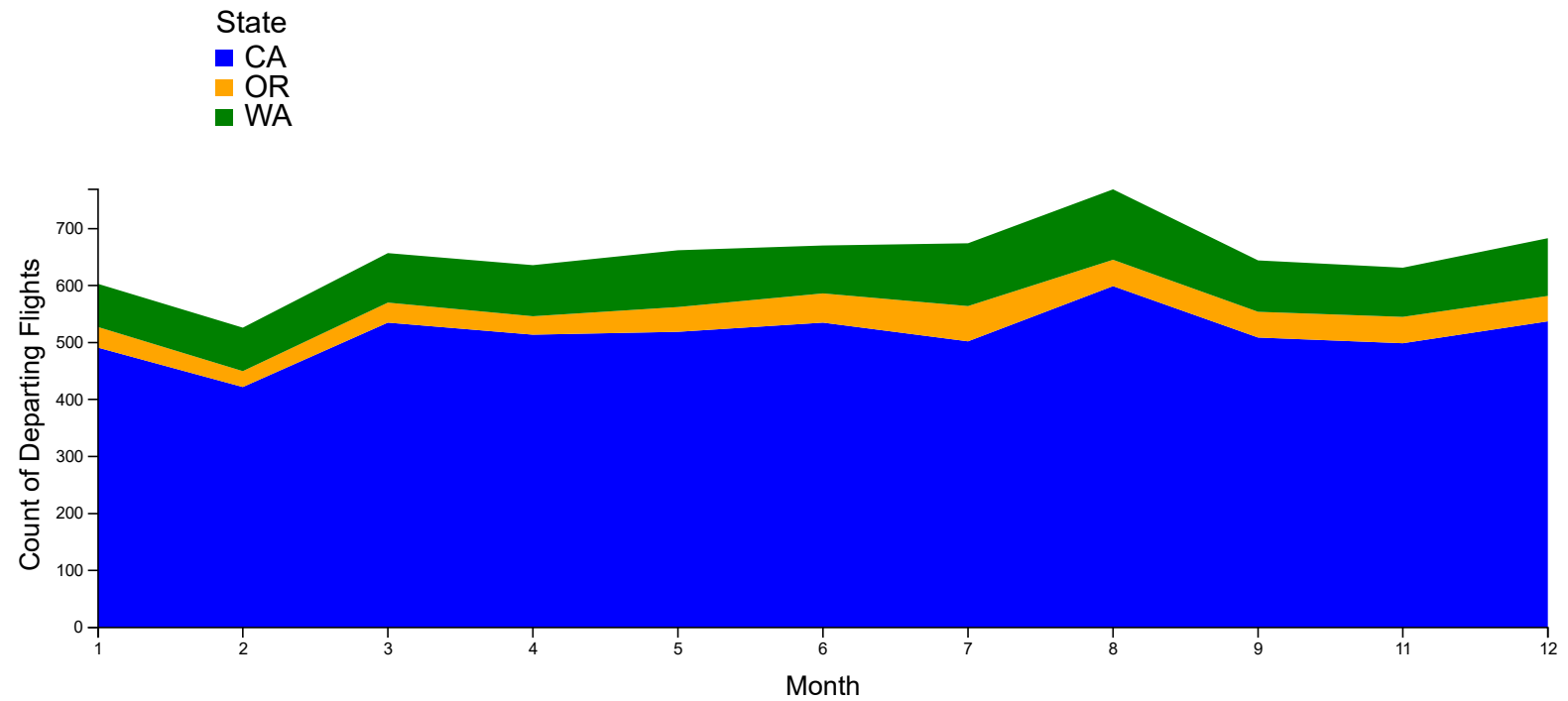
Expected Distribution of Cancelled / Delayed Flights Under the Null Hypothesis



Flight Paths Within California



Flight Count by State Over Months



Code and Visualizations by Justin Nguyen and Garrick Su

[View on GitHub](#)