

Capstone Exercise

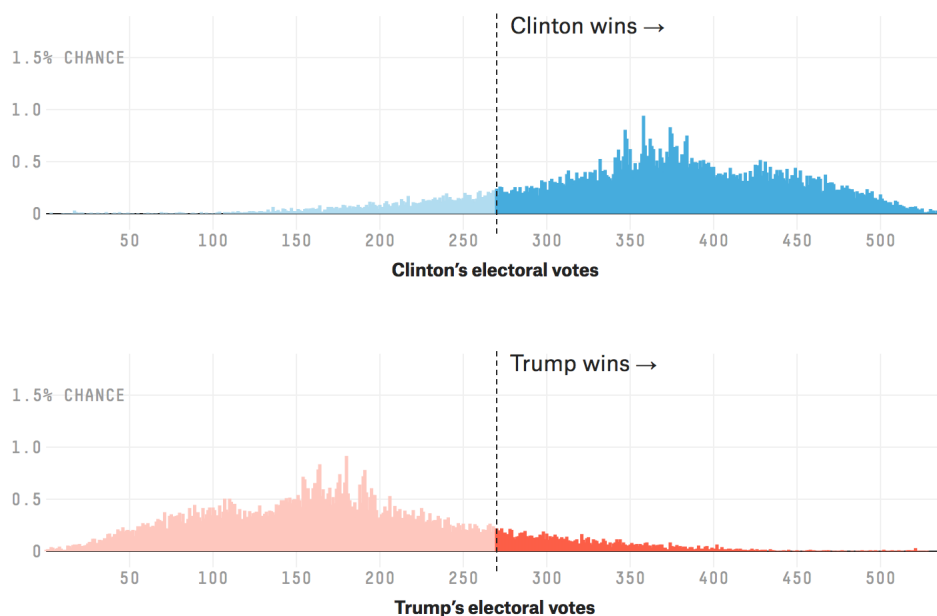
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Motivation

Nate Silver, who used Bayesian models to accurately predict Barack Obama's 2008 election is at it again in 2016 ([official methods link](#))! His model results in the below estimates, which, by this point, should look pretty familiar.

What to expect from the Electoral College

In each of our simulations, we forecast the states and note the number of electoral votes each candidate wins. That gives us a distribution for each candidate, where the tallest bar is the outcome that occurred most frequently.



Problem

1. Write out the DAG and joint distribution for this problem.
2. How would you decide who wins each state? Who wins the national vote? Remember candidates must accumulate 270 of 538 state-level electoral votes to win the election.
3. As the election season progresses, there is more and more information to use to inform priors. Think about how might you incorporate a weight, w , for each of the priors. We will discuss this as a group.