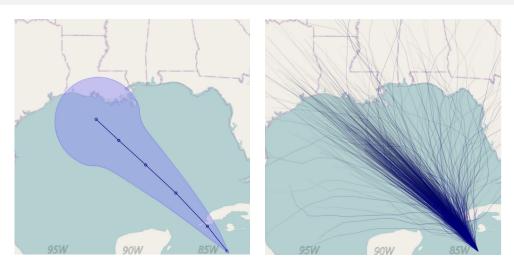
The New York Times election needle, as used in the 2016 election, oscillated in proportion to the uncertainty in the current predicted presidential vote margin as returns were counted in real time, an example of a hypothetical outcome plot.

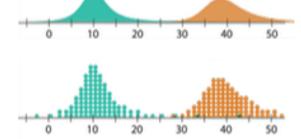


Hurricane error cones (left), employed by NOAA and journalists, are often misinterpreted by people (e.g., by thinking that they depict predicted size instead of uncertainty). Line ensembles (right), a **frequency framing** visualization, mitigate this misinterpretion.



Compared to density plots, quantile dotplots (another **frequency framing** uncertainty visualization), are easier for people to estimate intervals from and yield higher-quality decisions in incentivized decision-making experiments.

Density plots



Quantile dotplots