EXPERT ELICITATION

Expert Judgement

- Can play a key role in science and decision making, especially for hardto-quantify problems
- Time-consuming if rigorous, not a substitute for collecting data
- Bayesian Priors

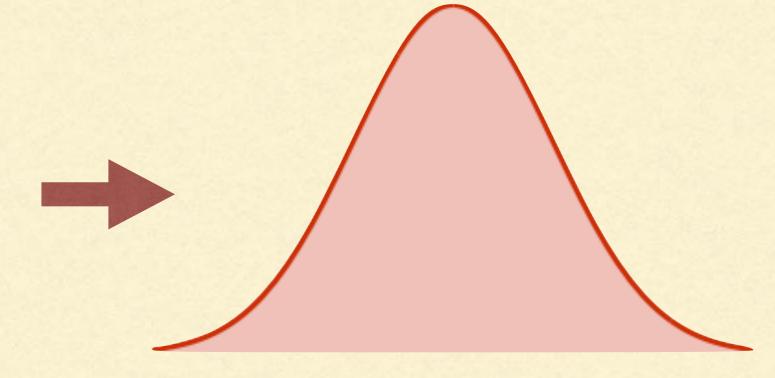


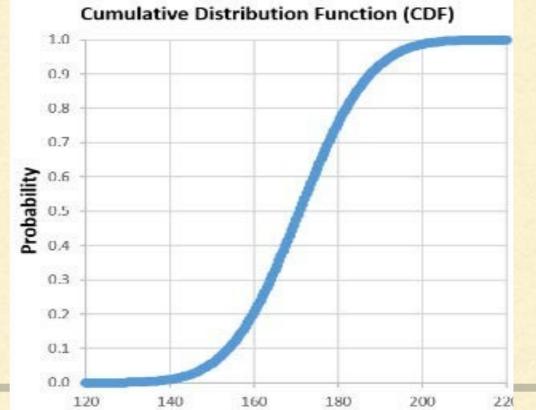
- Model structure
- Scenario development
- Evaluating and weighting forecasts
- Utility and Risk



Expert Elicitation

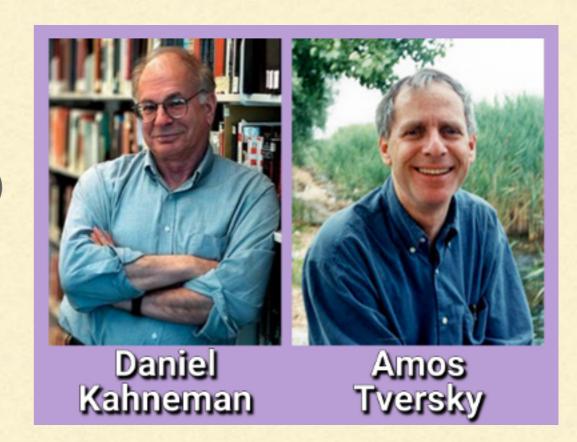






Biases & Heuristics

- Humans are not innate statisticians
- Rely on mental short cuts (heuristics)
- Systematic patterns to error (biases)
- Challenge of elicitation is to ask experts questions in a way that produces unbiased answers

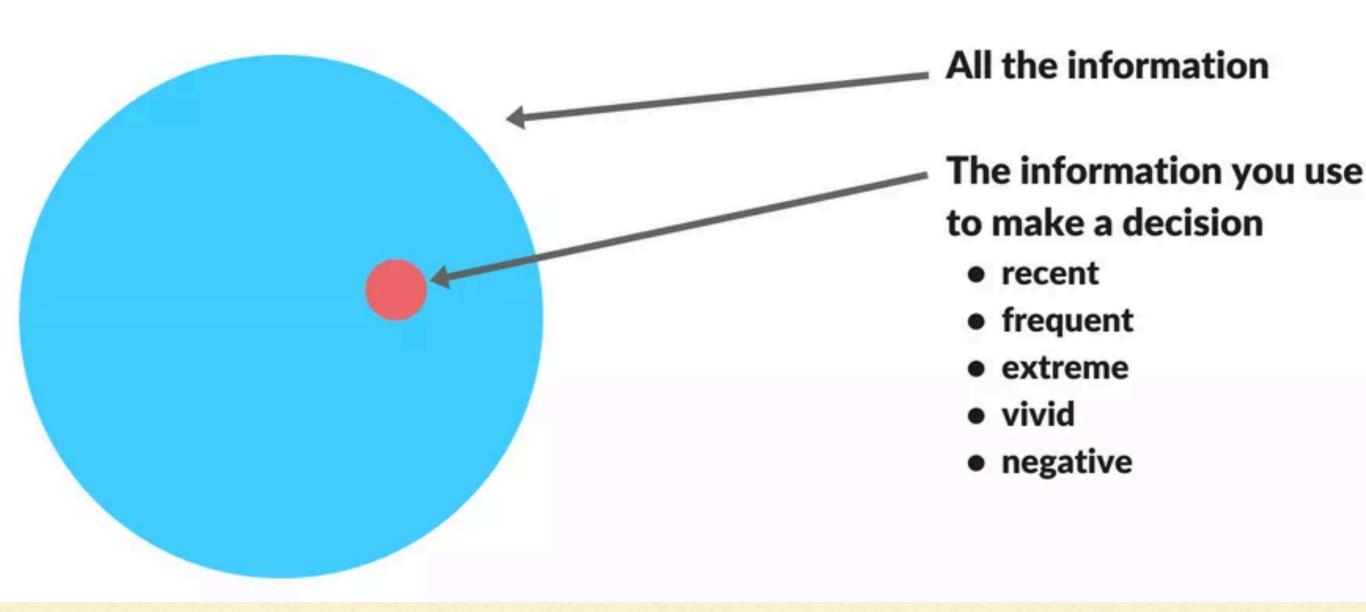


Anchoring

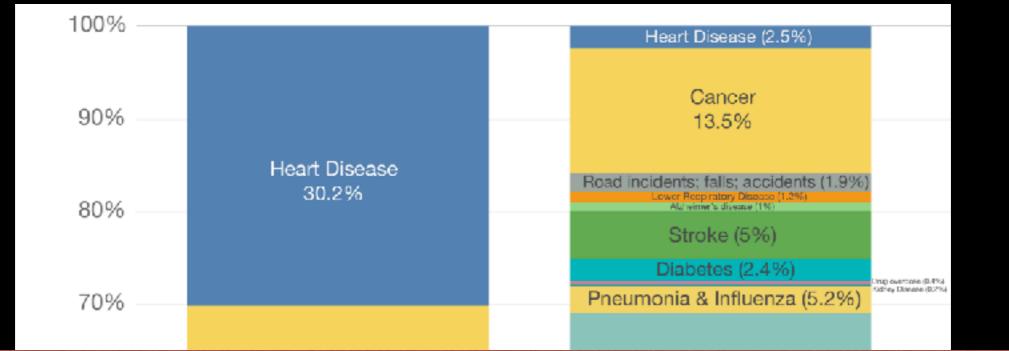
The mind is biased toward the first piece of information ...even if it is irrelevant Don't start with the mean / default

last 2 digits of gov identity number predicts bid on wine

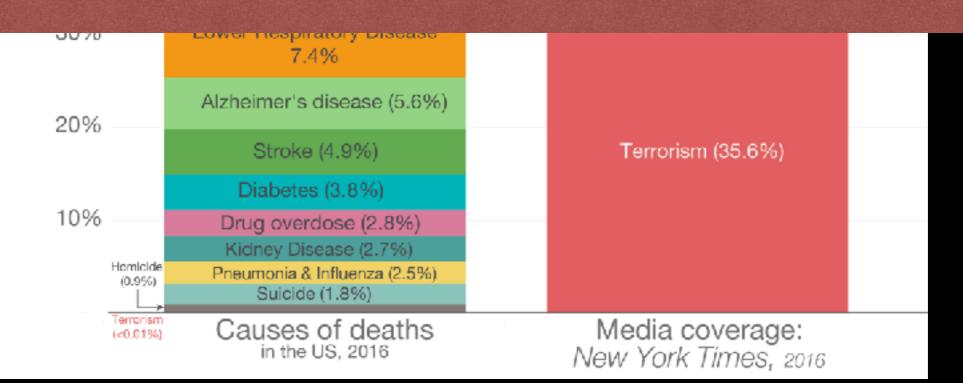
The availability heuristic



Substitutes ease of recall for frequency



Help expert consider additional evidence



THE CONFIRMATION BIAS



0

Imagine a time 10% longer, can you offer an explanation?

Time to get to the airport

0

Time to get to the airport



