What makes decisions hard?

- What differentiates easy from hard?
- What is a general characteristic that makes decisions hard?
- What does this tell you about decision making in general?

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How to make hard choices

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What makes decisions hard?

Ruth Chang's answer

- Neither option is better than the other, but they are also not equally good (on a par)
 - Banker vs. artist
 - Banker + 500 vs. artist

On a par ≠ equally good





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What other factors make decisions hard?

3 types of decision research

- Normative analysis
- Descriptive studies
- Prescriptive interventions

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Normative Analysis

- · Gold standard of rationality
 - "Identifying the best possible choice, given the the state of the world and decision makers' values" (Fischhoff, 2010)
 - The best or most rational way to solve a problem

What are some normative theories?

(There are many)

- · Deductive reasoning:
 - logic
- · Inductive reasoning:
 - statistical principles, probability theory
- Probability judgment:
 - probability theory
- · Decision Making:
 - Subjective expected utility theory

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Descriptive Studies

- · Reveal what people actually do
- Suggest psychological theories of the cognitive mechanisms used to solve problems.
- *Heuristics* = simple strategies

Prescriptive Interventions

- · Methods to improve decision making
- More targeted than just "follow the normative principle"
- Examples:
 - Decision aids
 - Nudges
 - Choice architecture

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Biases

- Bias = way in which actual behavior deviates systematically from normative principle.
- Why are biases important?
 - Highlights areas where reasoning is in need of improvement
 - Sheds light on the cognitive mechanisms underlying reasoning; informs the descriptive theories.

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