Lecture 11 Higher Order Cognition

- > Choice blindness experiment give survey, give same survey but flip guestions half of pol don't realise they explain the opposite choice
- → Choice Musion!

(Concepts and Categories

- How to cartegorise
- * 2 principles of cognitive economy

 - 1. Reduce discrimination reduce number of lables

 → MacBook Think Book Surface ... → laptop (when type doesn't matter)

 2. Informativeness allow inference about members of that category.

 ¬ Product? → lantons > Product? > laptops!
- Balancing the two use base category zoom in or out of necessary.

Hypothesis testing

- -> Guess the set of numbers: 2,4,6. You are allowed to test hypothesis by giving other three numbers > ppl: 8,10,12 aha even numbers - but actual set is just Z.
- * Confirmation bias tendency to look for positive results
- and confirming evidence rather than disconfirming ones.

 * Evolution theory adaptive brain > better for natural selection? Is cheater detection evolved?

#3 Decision Making

- Prospect Theory by Kahneman & Tversky (Nobel Prize!)

 Walne function, risk function, reference points
- * Value function
 - * Dimmshing sensitivity higher base value, less attention to change
 - > \$10+\$10 good
 - > \$ 10000000 + \$10 meh
 - * Loss aversion feel worse upon loss than gain of the same amount
 - → + \$1000 \$1000 ×
 - * Framing effect describe in terms of gain is / describe in terms of loss
- * Risk Function ppl tend to:
 - overestimate small percentage
 - underestimate larger percentage
 - (certainty is exception)
 - Applicable: botteries, medical warning ...
- weight

 o% probability

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- * Reference point
 - Influences how loss and gain me defined
 - > Tricking ppl put worse toaster for higher \$, then ppl more likely to buy better toaster for less #.

#4 Bounded Rationality Limited cognitive resources - we make mental shortents * Availability of info - based frequency estimation on exposure to info

Do more ppl die from shark attack or hit by falling

airplane parts? — ppl say shark attack (lots of news

report), which is the opposite of what's time. * Fluency -> Harrol to read stock names predicted to be of bad performing stock * Representativeness * Anchoring - random number affect irrelevent gresses

* Affective heuristies - emotion affect judgement

> How much you would donate to save 10 baby soak? } PPl give

amount