

Smart People Can Make Bad Decisions

Intuition, gut feel, experience, instinct — good or bad?
Patterns, rules of thumb, prioritization
Quicker problem solving & decision-making
Good in automatic processes
But, it can often lead to the wrong solution
Cognitive bias can lead to inaccurate and irrational decisions — judgment error

Cognitive Bias

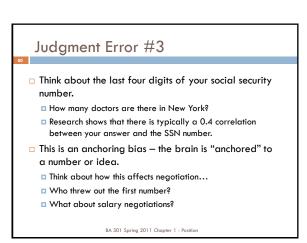
Cognition is the process of thought.
To become acquainted with...
Cognitive Bias is our tendency to make errors in judgment based on cognitive factors — things we know or understand, or think we know or understand.
Cognitive Bias might distort the way we perceive reality.

What Can We Do To Avoid it? Recognize how easy it is to make simple mistakes by using intuition alone. Learn to spot the most common decision-making biases. Learn simple methods for combating these biases in judgment.

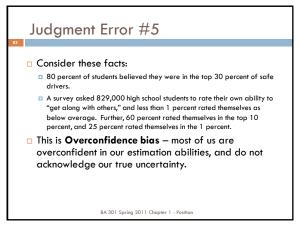
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Rank order the following causes of death in the United States between 1990 and 2000, placing a 1 next to the most common, etc. | Tobacco | Poor diet and physical inactivity | Motor vehicle accidents | Firearms (guns) | Illicit drug use | Now, estimate the number of deaths caused by each of these during that timeframe. | Availability Bias (a cognitive bias) | Things that are more "available" to us, are likely to be interpreted as more frequent or important. | Managers doing performance appraisals often fall victim to this bias.

Judgment Error #2 Mark is finishing his MBA at a prestigious university. He is very interested in the arts and at one time considered a career as a musician. Where is he more likely to take a job? In arts management? Representativeness Bias Many people overlook the "base-rate" data when making these types of judgments. Prospective entrepreneurs spend too much time imagining their success and far too little time considering the base rate for business failures. BA 301 Spring 2011 Chapter 1 - Position



Judgment Error #4 Look at this series of numbers. It conforms to a rule. What is the rule? Propose a new set of numbers. 2, 4, 6 The rule – three ascending numbers. Confirmation bias – a tendency to collect confirming rather than disconfirming information. Thing about buying a new car, hiring a new employee, starting research on a new product line?



□ Consider the following: □ What is the probability of tossing a "tail"? ■ 0.5 □ What is the probability of HHHHH? ■ 0.5x0.5x0.5x0.5x0.5x0.5 □ After four heads in a row, what is the probability of a fifth head? ■ 0.5 (counterintuitive to many people) □ Probability bias — intuition overcomes rationality

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Avoiding Bias

- 1. Do not jump to conclusions.
- Do not assume a relationship is a cause; record and test your decision outcomes.
- Do not base your conclusion only on your experience.
- Do not just look to support your case; look for non-supporting evidence too.
- Do not fall prey to overconfidence; get confidence evidence and ranges.

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