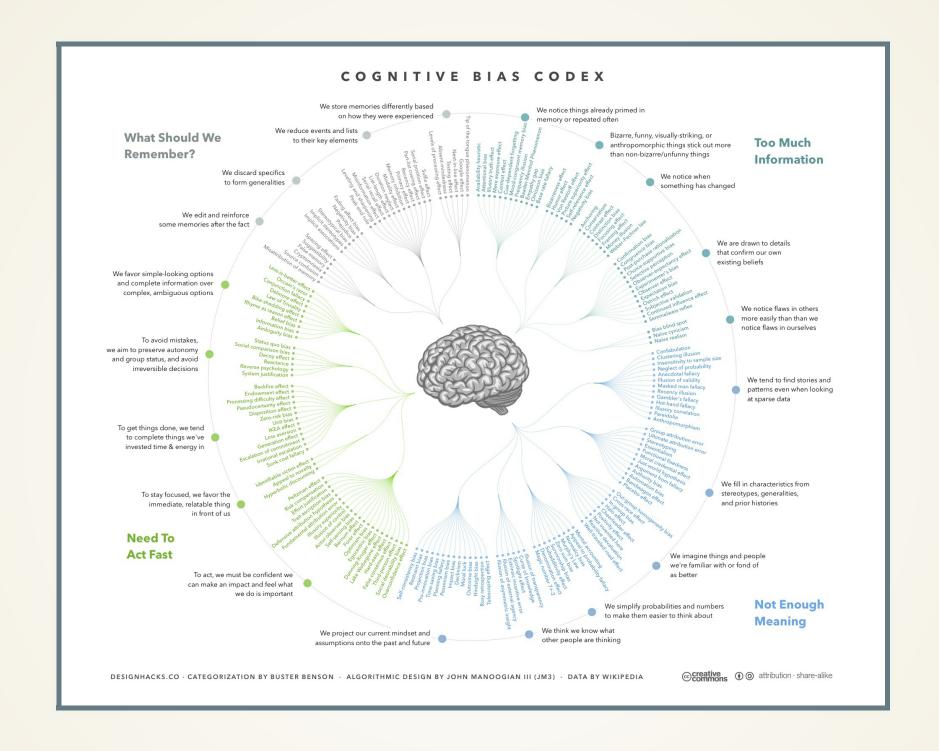
DECISION-MAKING FOR TEAMS HOW TO OVERCOME COGNITIVE BIASES

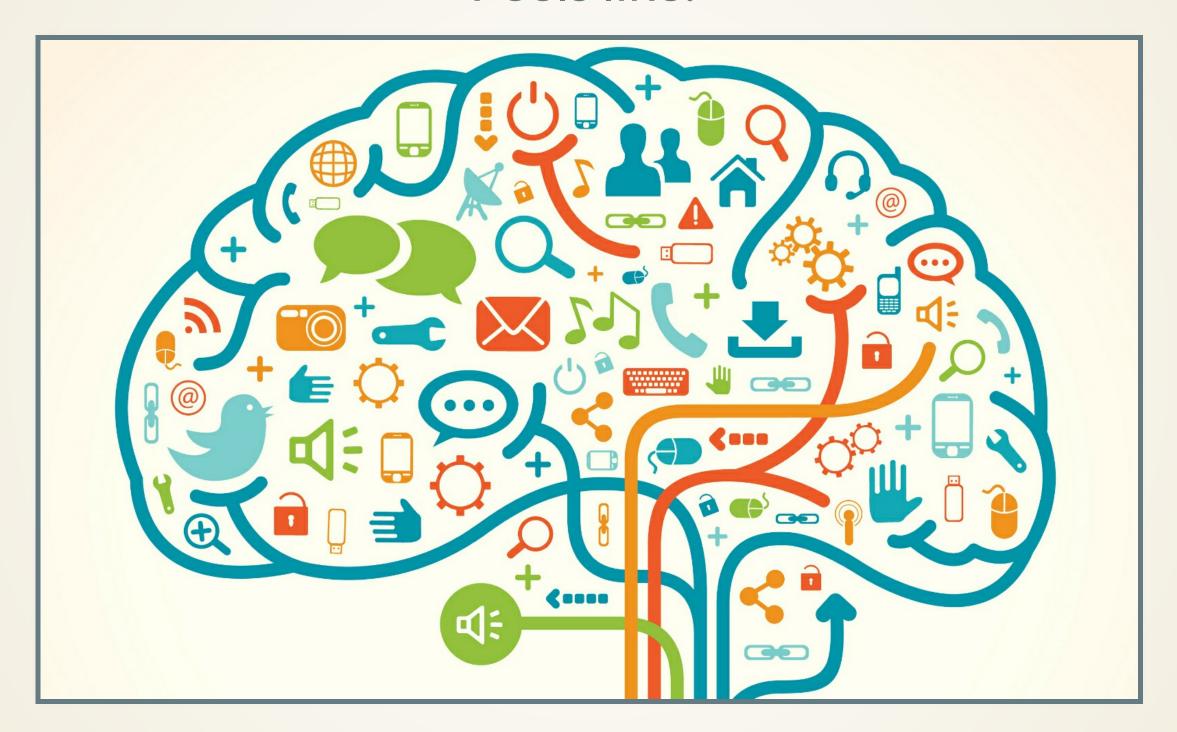
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COGNITIVE BIAS?



Feels like:



Bias arises from various processes that are sometimes difficult to distinguish. These include

source https://en.wikipedia.org/wiki/Cognitive_bias

information-processing shortcuts (heuristics)

 noisy information processing (distortions in the process of storage in and retrieval from memory)

• the brain's limited information processing capacity

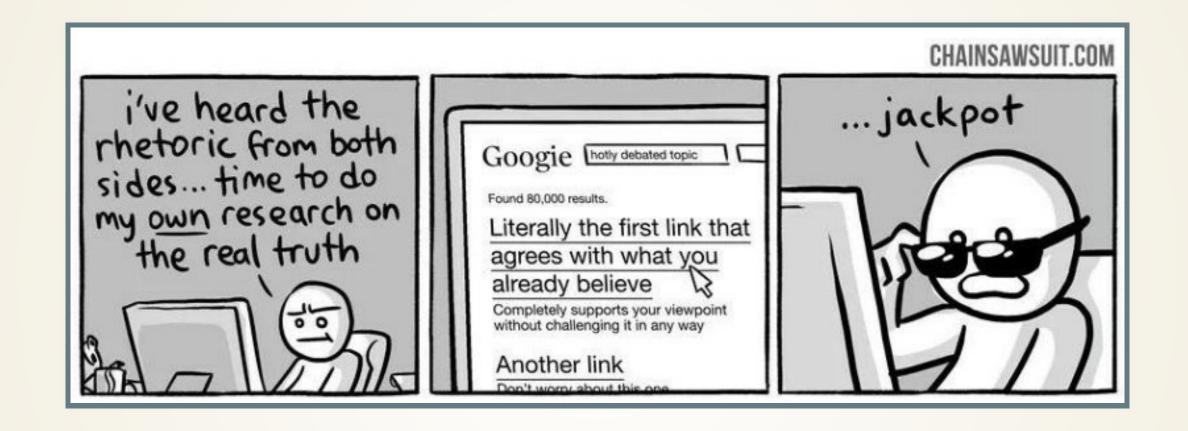
emotional and moral motivations

social influence

Biases can be distinguished on a number of dimensions. For example,

source https://en.wikipedia.org/wiki/Cognitive_bias

 there are biases specific to groups (such as the risky shift) as well as biases at the individual level. Some biases affect decision-making, where the desirability of options has to be considered (e.g., sunk costs fallacy). Others such as illusory correlation affect judgment of how likely something is, or of whether one thing is the cause of another. A distinctive class of biases affect memory, such as consistency bias (remembering one's past attitudes and behavior as more similar to one's present attitudes).



source http://chainsawsuit.com/comic/2014/09/16/on-research/

Some cognitive biases that influence decision making

source https://www.translatemedia.com/us/blog-us/cognitive-biases-influence-decision-making/

source http://www.businessinsider.de/cognitive-biases-that-affect-decisions-2015-8

source http://www.businessinsider.de/cognitive-biases-2015-10

Affect heuristic

Anchoring bias

Availability bias

Bandwagon-jumping

Blind spots

Choice-supportive bias

Clustering illusion

Confirmation bias

Conformity

Conservatism

Curse of knowledge

Decoy effect

Herding

Illusion of control

Information bias

The 'ostrich' effect

Outcome bias

Overconfidence

The placebo effect

Planning fallacy

Pro-innovation bias

Priming

Recency bias

Salience

Selective perception

Status quo bias

Stereotyping

Survival bias

Zero-risk bias



But is this really that bad to be biased?

Experiment time...

"JANE ELLIOT AND THE BLUE-EYED CHILDREN EXPERIMENT"

"THE ROBBERS CAVE EXPERIMENT - MUZAFER & SHERIF"

"THE THIRD WAVE EXPERIMENT - RON JONES"

"STANFORD PRISON EXPERIMENT - PHILIP ZIMBARDO"

But we aren't boyscouts, high school students or at Stanford University, right?

But aren't we biases by saying this?

So how could we prevent biased decision-making in our daily work?

Any ideas?

Four problems that biases help us to address:

source https://betterhumans.coach.me/cognitive-bias-cheat-sheet-55a472476b18

Problem 1: Too much information.

 We notice things that are already primed in memory or repeated often. Bizarre/funny/visually-striking/anthropomorphic things stick out more than non-bizarre/unfunny things. We notice when something has changed.

 We are drawn to details that confirm our own existing beliefs. We notice flaws in others more easily than flaws in ourselves. Problem 2: Not enough meaning.

We find stories and patterns even in sparse data.

 We fill in characteristics from stereotypes, generalities and prior histories whenever there are new specific instances or gaps in information. We imagine things and people we're familiar with or fond of as better than things and people we aren't familiar with or fond of. We simplify probabilities and numbers to make them easier to think about. We think we know what others are thinking.

 We project our current mindset and assumptions onto the past and future. Problem 3: Need to act fast.

 In order to act, we need to be confident in our ability to make an impact and to feel like what we do is important. In order to stay focused, we favor the immediate, relatable thing in front of us over the delayed and distant. In order to get anything done, we're motivated to complete things that we've already invested time and energy in. In order to avoid mistakes, we're motivated to preserve our autonomy and status in a group and to avoid irreversible decisions. We favor options that appear simple or that have more complete information over more complex, ambiguous options. Problem 4: What should we remember?

• We edit and reinforce some memories after the fact.

We discard specifics to form generalities.

We reduce events and lists to their key elements.

We store memories differently based on how they were experienced.

Great, how am I supposed to remember all of this?

1. Information overload sucks, so we aggressively filter.

Noise becomes signal.

2. Lack of meaning is confusing, so we fill in the gaps.

Signal becomes a story.

3. Need to act fast lest we lose our chance, so we jump to conclusions. Stories become decisions.

4. This isn't getting easier, so we try to remember the important bits. Decisions inform our mental models of the world.

Sounds pretty useful! So what's the downside?

1. We don't see everything. Some of the information we filter out is actually useful and important.

2. Our search for meaning can conjure illusions. We sometimes imagine details that were filled in by our assumptions and construct meaning and stories that aren't really there.

3. Quick decisions can be seriously flawed. Some of the quick reactions and decisions we jump to are unfair, self-serving and counter-productive.

4. Our memory reinforces errors. Some of the stuff we remember for later just makes all of the above systems more biased and more damaging to our thought processes.

So... really, how do I avoid of being biased?

Nothing we do can make the 4 problems go away.

Cognitive biases are just tools, useful in the right contexts, harmful in others.

They're the only tools we've got and they're even pretty good at what they're meant to do.

You can't avoid being biased - You are biased.

You need to deal with being biased.

Be aware of your biases.

Reflect yourself about your own biases.

Try to understand which biases are driving the people around you.

Be relaxed about the biases of others.

Give others hints about their cognitiv biases.

Talk about cognitive biases with your colleagues, friends, family etc. to find out what is driving them in their decisions.

Cognitive biases are dynamic as the situations, discussions, decisions etc. are - people could change strategies and minds, so biases are not static, but centextual.

So... Questions?

