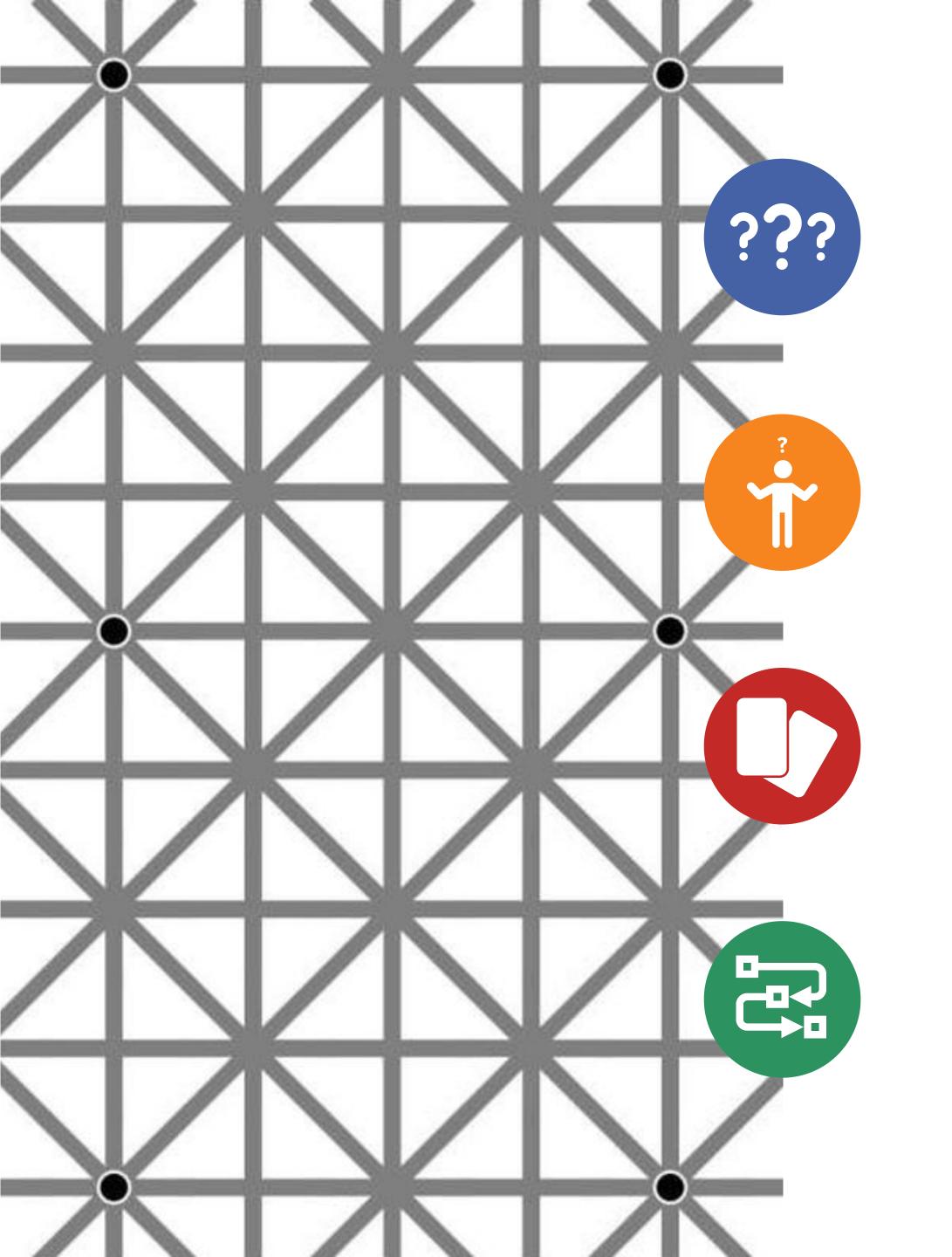


Boosting Your Bias Immunity

LAUREN ISAACSON

Market & UX Research Consultant

Curio Research

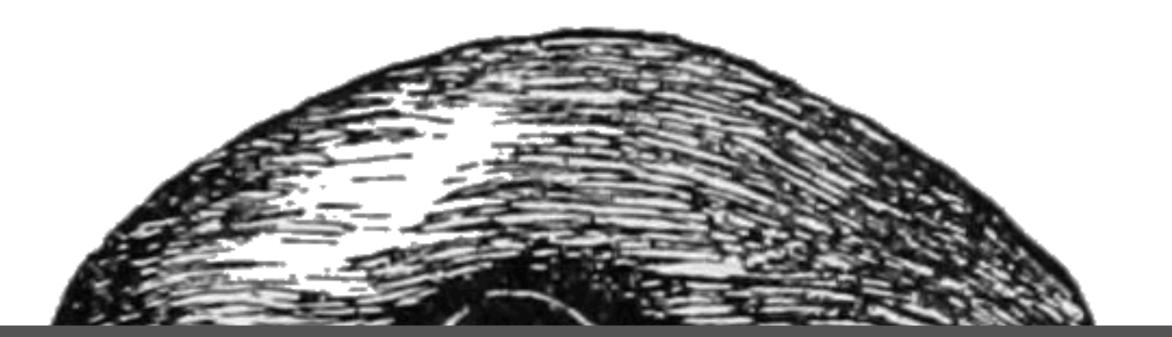


PERFECTLY IMPERFECT BRAINS

TYPES OF BIAS

HEURISTIC CARD EXERCISE

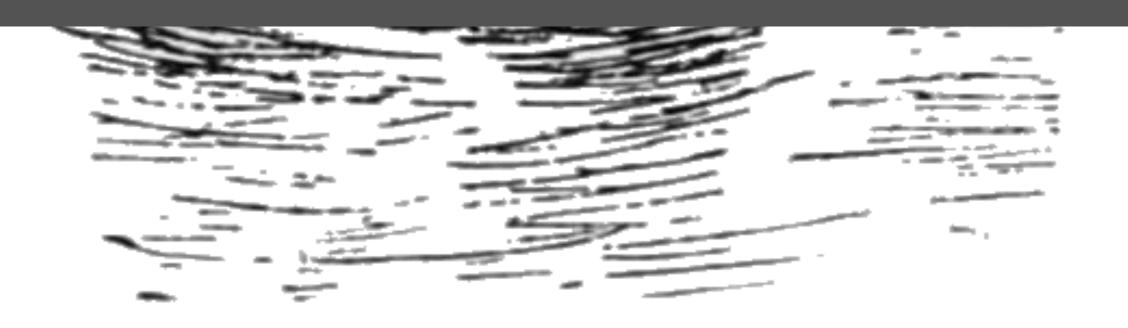
AVOIDING BIASED DECISIONS





Our Perfectly Imperfect Brains

Seeing is not necessarily believing

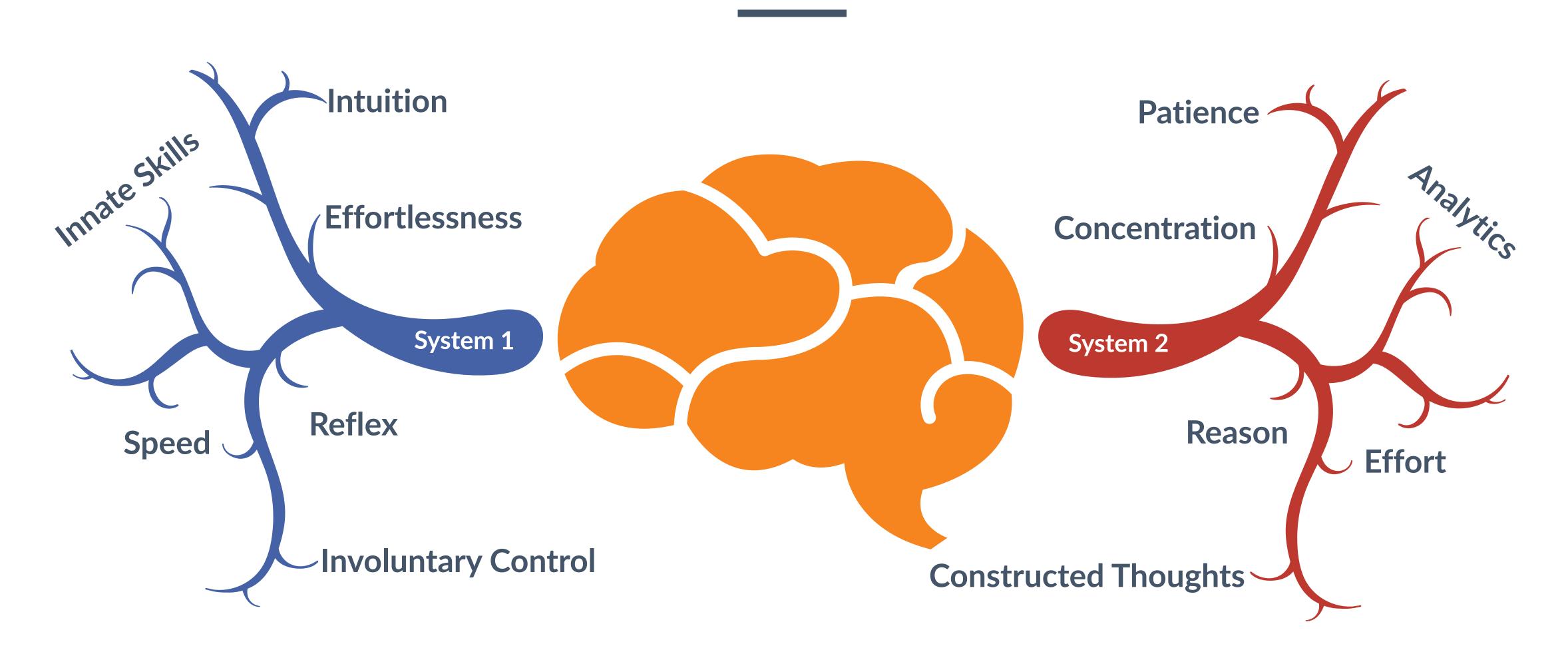


"A cognitive bias refers to the systematic pattern of deviation from the norm or rationality in judgement, whereby inferences about other people and situations may be drawn in an illogical fashion. Individuals create their own 'subjective social reality' from their perception of input."

-Wikipedia

Thinking Fast and Slow

The foundation of behavioural economics



Primary Sources of Bias



Efficiency and Defence



Avoid bodily and ego harm







System 1

Biased Algorithms



Do robots get hangry?

IDEA

Objective Robot Judges

Use prior sentencing data to train computers to make objective judgements in criminal cases.

Objective Consistency

Judgements don't fluctuate with the time of day or whether the judge just ate. Machines don't bring emotion into decisions.



Uneven Fairness Baseline

The system is defined as fair, but the definition of what is fair differs. We see the system the algorithm is based off as fair, but what if it's not?

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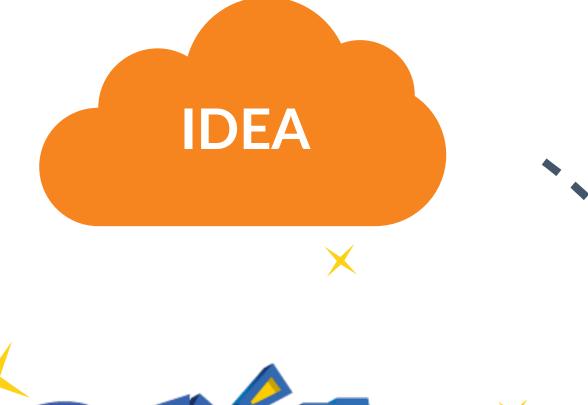
Biased Data Sets



Who is the target audience anyway?



Reuse data from a game popular with tech centric runners.



Quick Turn Around

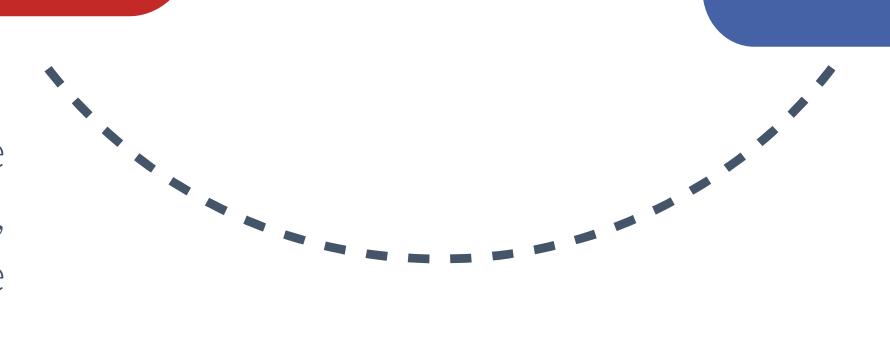
POSITIVE

Launched across the US with accurate geolocation data which otherwise would have taken a long to gather and deploy.

NEGATIVE

Lack of Inclusion

People who played Ingress were not the same as PG players, leaving many fans with nowhere nearby to play,



Biased Cultures

IDEA



Blind to potential outcomes by intention

Focus on Shareholder Value

Boeing swapped a culture of safety and engineering excellence for a culture of maximum shareholder value.

Boeing Sold More 737s than AirBus

Boeing was first to market, met shareholder expectations, and were able to market the plane as an upgrade rather than a new product.

NEGATIVE

Two Avoidable Plane Crashes

The patches and shortcuts required to make the plane work with the new engines made it impossible to fly.

POSITIVE

@curio_research



Bias is like polluted air

- Impossible to avoid, but filterable.
- Filtering requires identification of potential influencing biases.





Types of Bias

Name Thy Enemies

The World of Biases

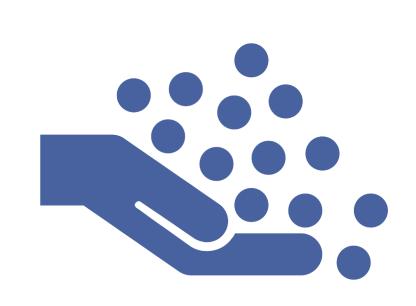
Using bias to understand bias

There are over 170 types of cognitive biases

The World of Biases

Using bias to understand bias

There are over 170 types of cognitive biases









ABUNDANT INFORMATION

Selective filtering
We can't take it all in

LIMITED CONTEXT

We can't know everything, so we fill in the gaps

LIMITED TIME

We need to act fast

LIMITED MEMORY

We can't remember everything, so what sticks?

Abundant Information



Selective filtering, we can't take it all in



are odd than we do things that are common

Limited Context



We can't know everything, so we fill in the gaps



FRAMING EFFECT

We judge items and subjects by how they are presented

PLACEBO EFFECT

Believing something works can be just as powerful as something that actually works

FUNDAMENTAL ATTRIBUTION ERROR

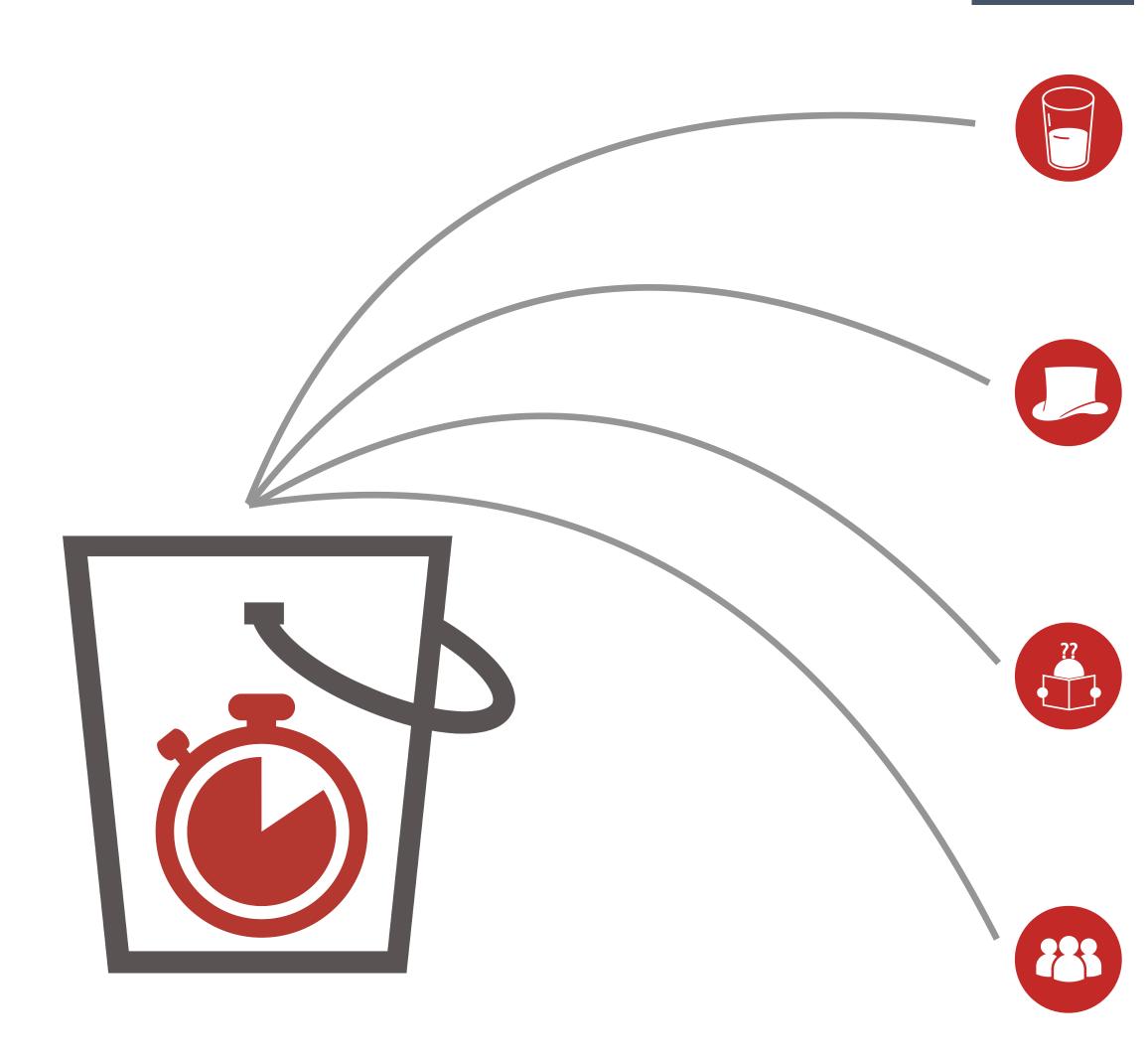
We judge others by what we see in the moment, but we judge ourselves based on the situation

IN-GROUP BIAS

We favour people who belong to the same group as ourselves

Limited Time

We need to act fast



OPTIMISM BIAS

We overestimate the probability of a positive outcome

BARNUM EFFECT

We connect things through leaps of imagination because we don't have all the facts

DUNNING-KRUGER

When you're not an expert, there is a tendency to think layperson's knowledge is all there is

GROUPTHINK/BANDWAGON EFFECT

Opinions are based on fitting in with the group rather than evidence.

Limited Memory



We can't remember everything, so what sticks



NEGATIVITY BIAS

Negative events and feelings stay with us longer than positive ones

SPACING EFFECT

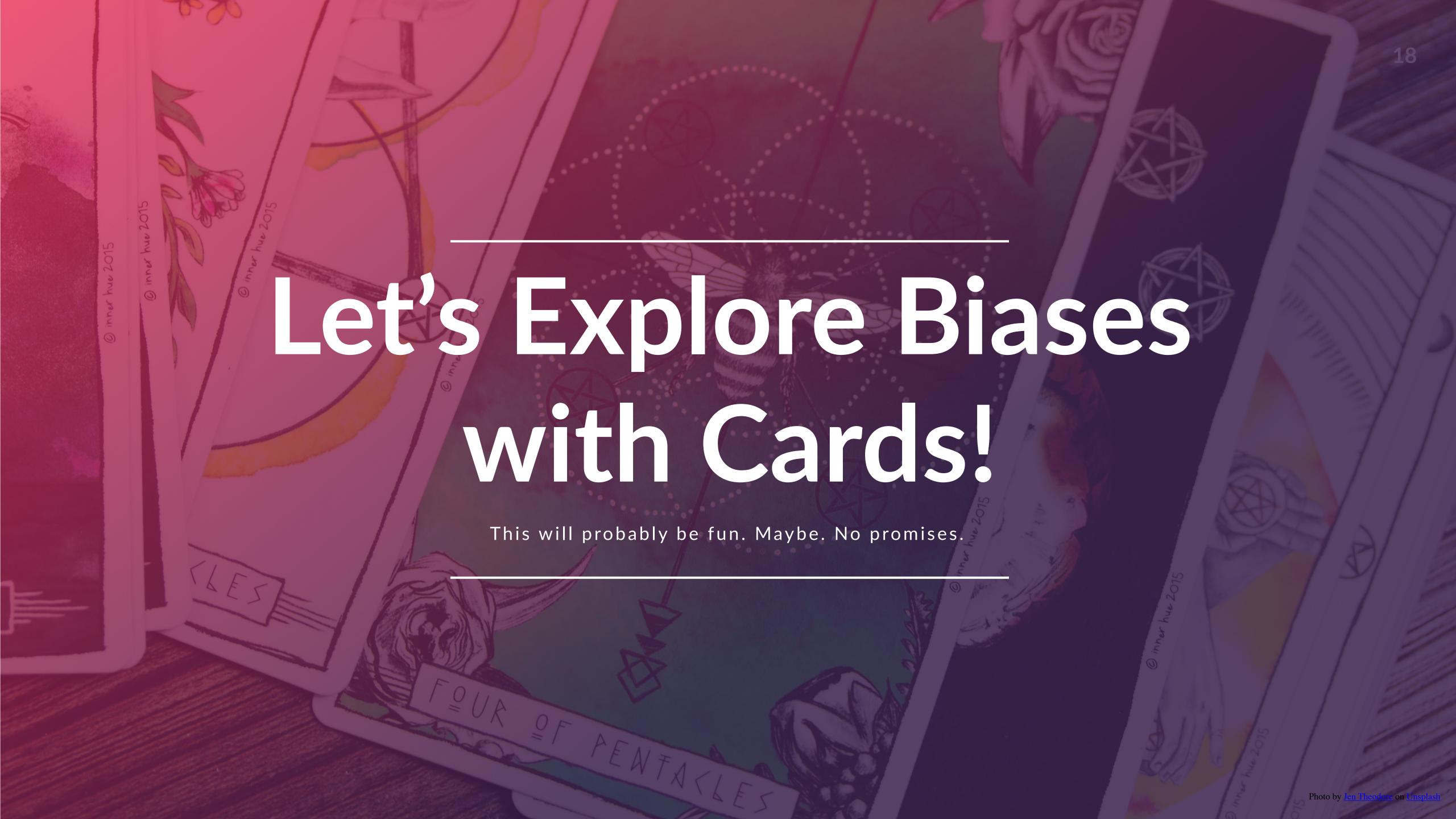
We learn better in bits and chunks over time rather than all at once

IMPLICIT STEREOTYPE

Learned associations between various qualities and social categories

PEAK-END RULE

People judge an experience based in how they felt at its most intense point rather than overall







Avoiding Biased Decisions

Move at a steady pace and make good choices



REMEMBER

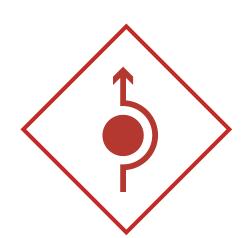
Bias is unavoidable, but it is manageable

Process Matters

21

I love it when a plan comes together





Biases Are Avoided on Purpose, Not By Accident

Take Good Notes

It works for Comey, it will work for you





Write it down or it never happened



Get agreement on goals



What is the understanding of risk?



Revisit after the decision is in action

Don't Try to Control Everything

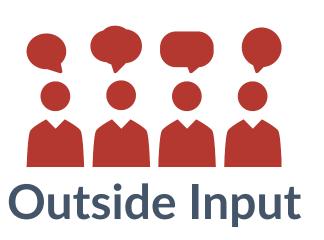
How do you reduce individual or group influence?

















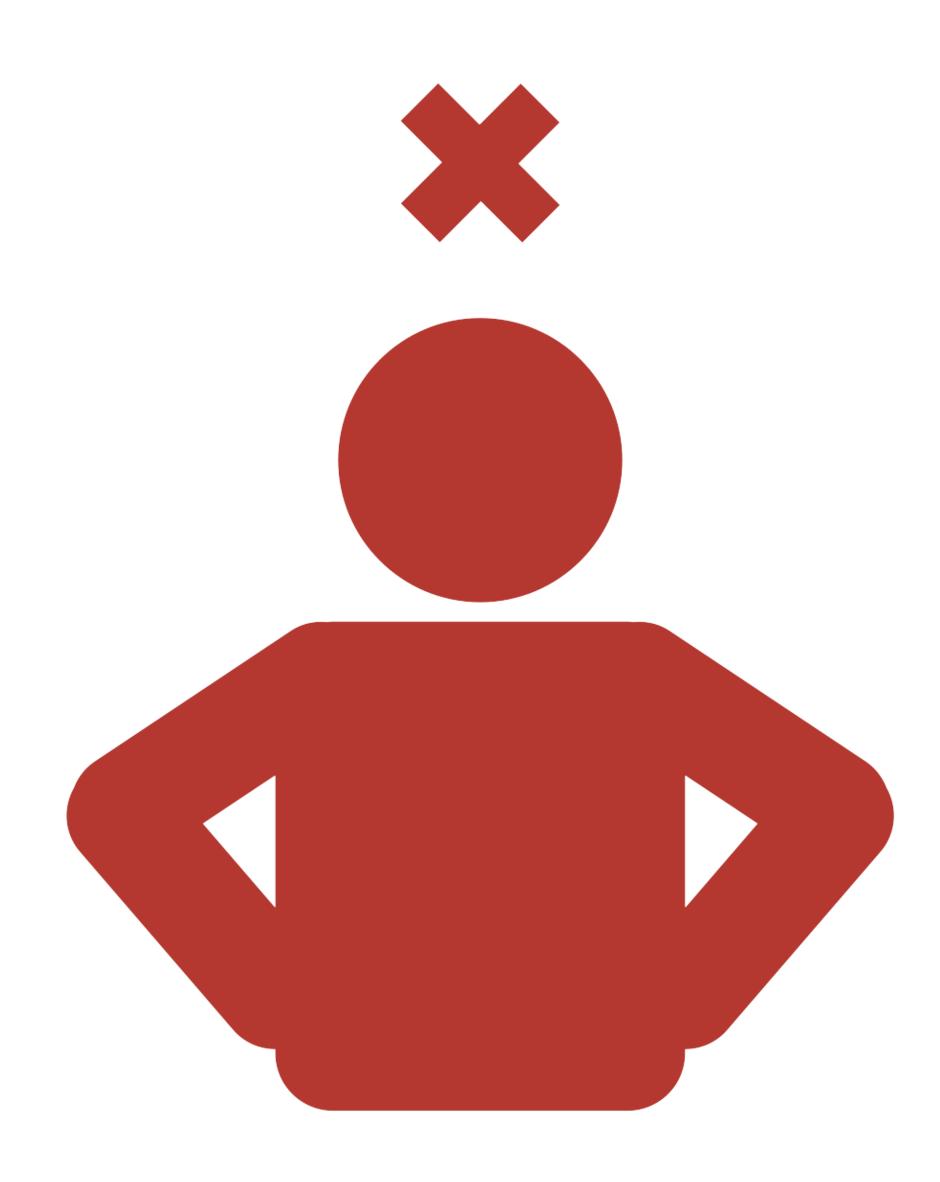
66 If we are all in agreement on the decision - then I propose we postpone further discussion of this matter until our next meeting to give ourselves time to develop disagreement and perhaps gain some understanding of what the decision is all about.

ALFRED P. SLOAN

CEO of GM

Hypotheses were made to be disproved

- Researchers don't try to prove their theories. They try to disprove them.
- If an idea can withstand counter evidence, it's probably a good idea.



What's Your Process?

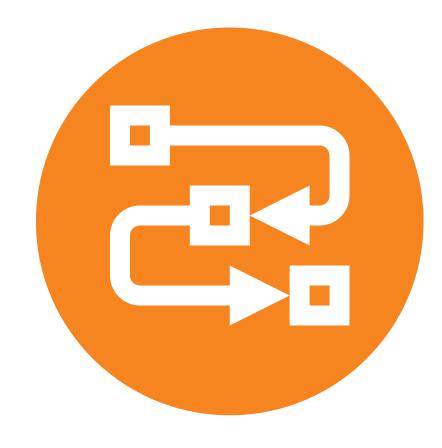


Yes, take a photo of this slide



What are the biases at play?

Abundant Information
Limited Context
Limited Time
Limited Memory



Have a process

Slow your roll
Identify potential
biases
Avoid biases
Revaluate



Take good notes

Record consensuses

Revisit after
implementation



Be open to disagreement

Break echo chambers

Strong ideas
withstand contrary
arguments





THANKYOU

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