Nope, that's NOT a feature, it IS a bug.

psychology in testing

Before we start...

- This is not a "10 steps to..." talk
- I am not an expert
- My wife does not approve

This evening...

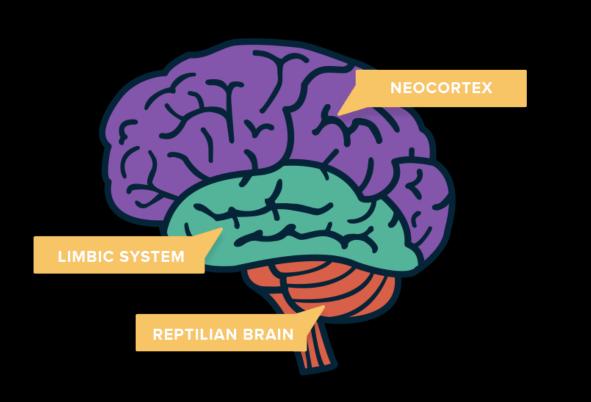
- What does it mean to think clearly?
- Common errors when solving problems
- An escape

Thinking clearly

'Failure to think clearly", i.e. cognitive errors:

A systematic deviation from logic; from optimal, rational, reasonable thought and behaviour.

Fun facts about your brain;)



86 000 000 000



2%



10%



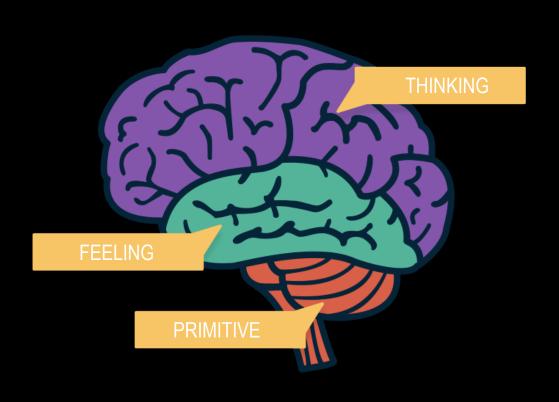
20%



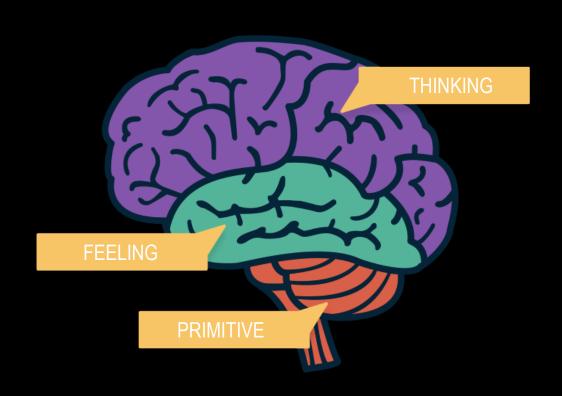
25%



Fun facts about your brain;)



Fun facts about your brain;)





11 000 000 bps :--



±2hrs





Are we really experts?

#30

Anchoring effect

The more unsure you are about your guess, the more susceptible you are to an anchor.

Survey #1 'How few miles..., by road.'



Survey #1

'How few miles..., by road.'

Survey #2

'How many miles..., by road.'

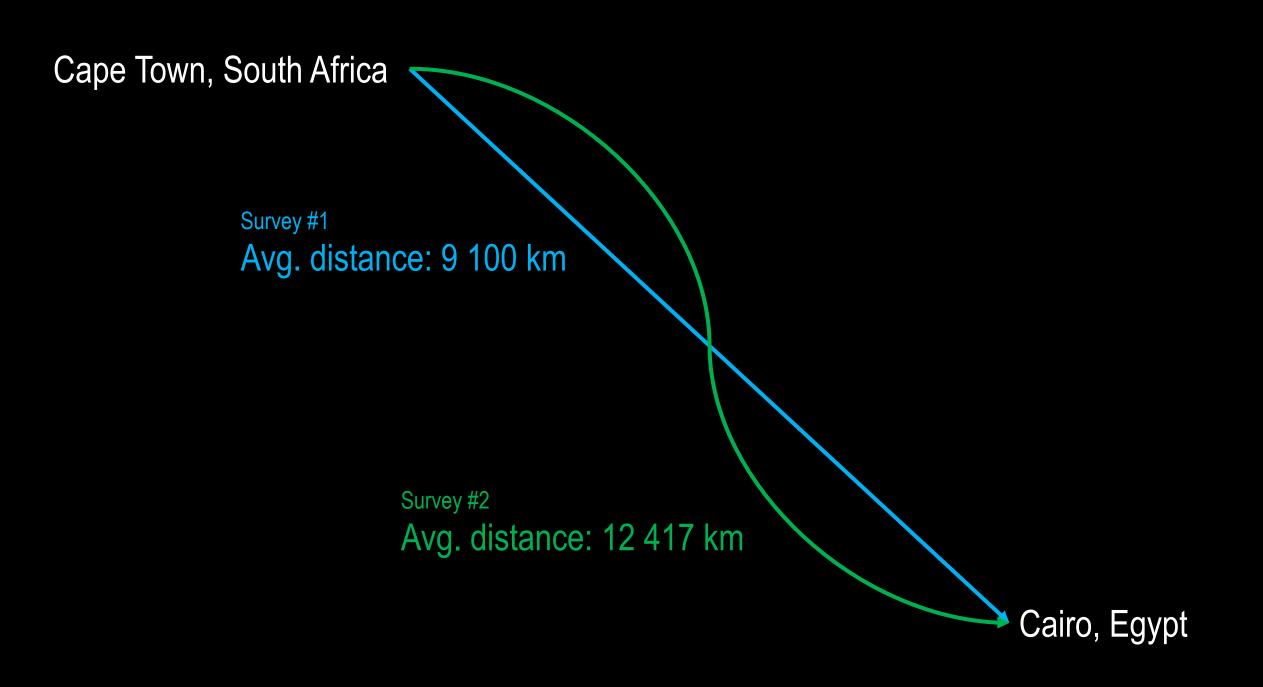
Survey #1

Survey #2

Cape Town, South Africa

Survey #1

Avg. distance: 9 100 km



#15

Overconfidence effect

"Overconfident professionals sincerely believe they have expertise, act as experts and look like experts. You will have to struggle to remind yourself that they may be in the grip of an illusion."

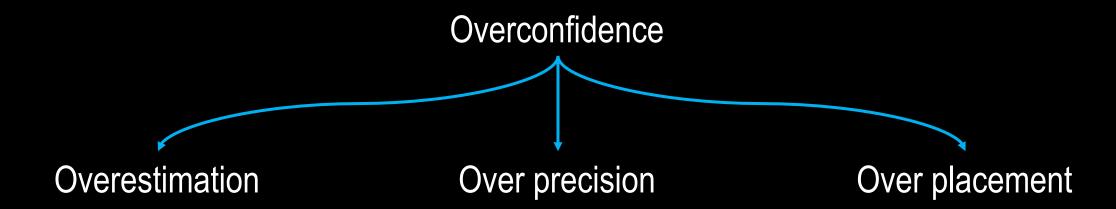
- Daniel Kahneman

#15 Overconfidence

- Does not deal with a single estimate being correct or not
- We all suffer from this
- Not driven by incentive

#15 Overconfidence

- Does not deal with a single estimate being correct or not
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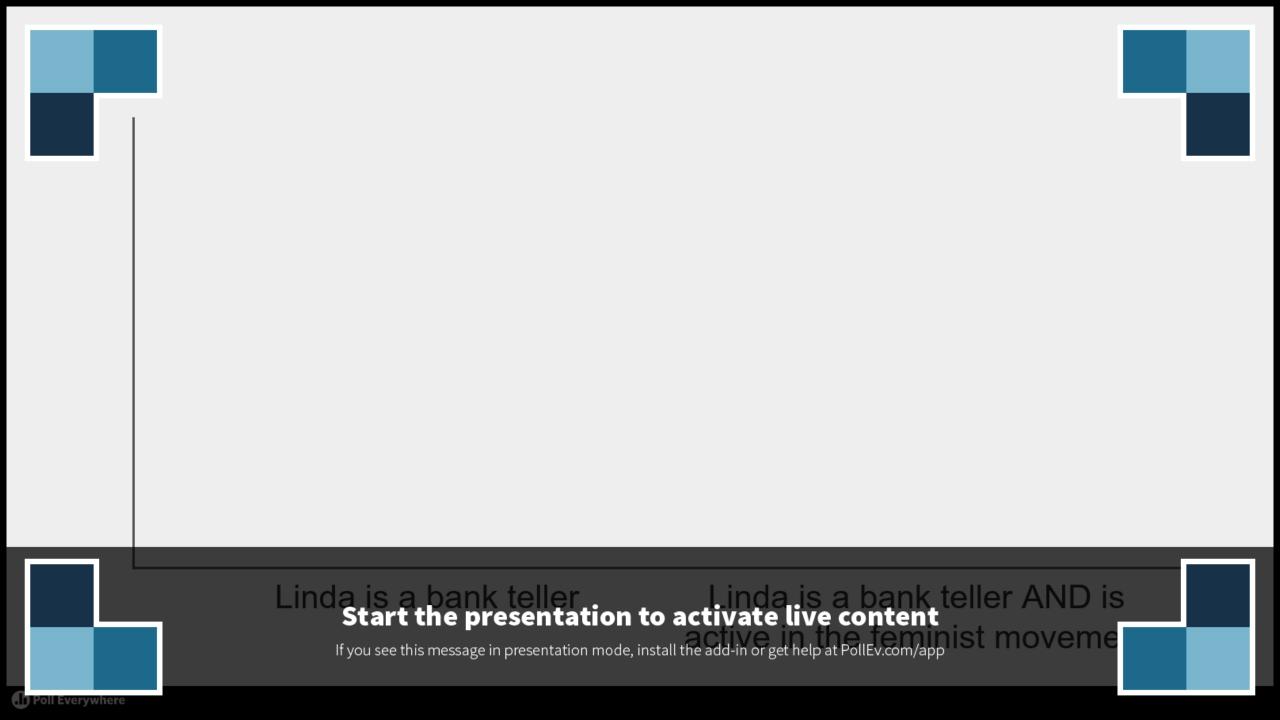


Errors in problem solving

Linda is single, outspoken, and very bright. She majored in philosophy. As a student, she was deeply concerned with the issue of discrimination and social justice, and also participated in demonstrations. Which of the following is more probable:

- 1. Linda is a bank teller, or
- 2. Linda is a bank teller AND is active in the feminist movement?

https://pollev.com/CTTMQ2922 @CapeTownTesting



#41

Conjunction fallacy

When the subset seems larger than the entire set.

724, 947, 421, 843, 394, 411, 054, 646

724, 947, 421, 843, 394, 411, 054, 646

349, 851, 274, 905, 772, 032, 854, 113

349, 851, 274, 905, 772, 032, 854, 113

no 6

#95

Feature Positive Effect

Why does something and not nothing exist?

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#3

Clustering Illusion

We often see patterns where they no not exist.

Would you take...

- 1. R 1 000 a day
- 2. 1c, 2c, 4c (doubling every day)

...for 30 days



Would you take...

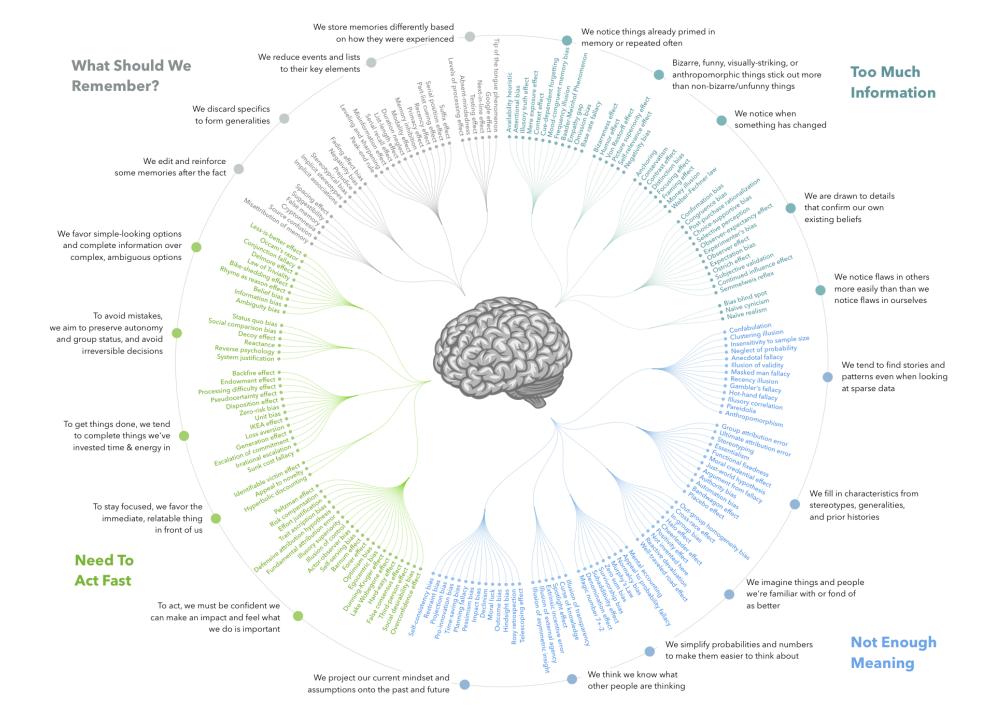
R 30 000 R 10 737 418

...after 30 days

#34

Exponential Growth

A cognitive tendency to linearize exponential functions when assessing them intuitively.



#the-end-almost

So now what?

"It's simple. I just removed everything that was not David."

- Michelangelo di Lodovico Buonarroti Simoni

The Backwards Brain Bicycle - Smarter Every Day 133

- Knowledge ≠ Understanding
- Aha-moments
- Give yourself a fighting chance







4:54 / 7:57











Knowledge ≠ Understanding

- Aha-moments
- Give yourself a fighting chance



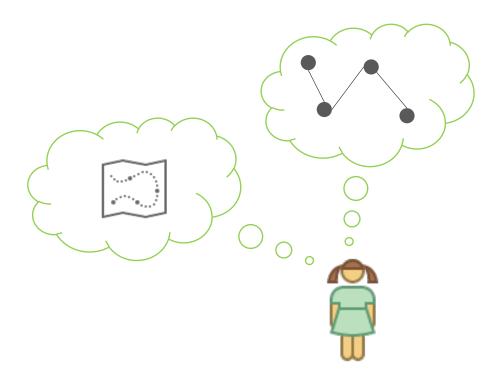
Knowledge ≠ Understanding

- Aha-moments
- Give yourself a fighting chance

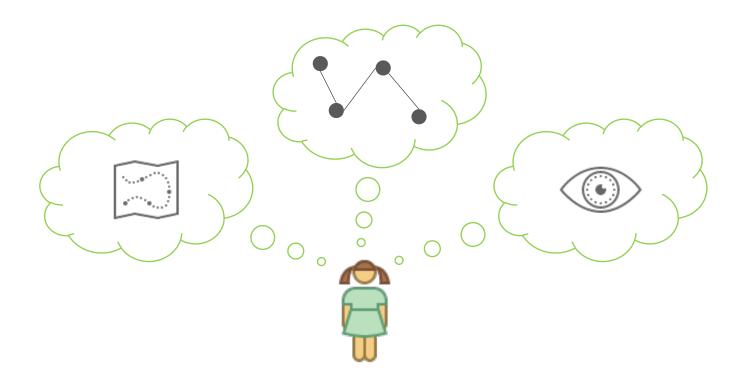




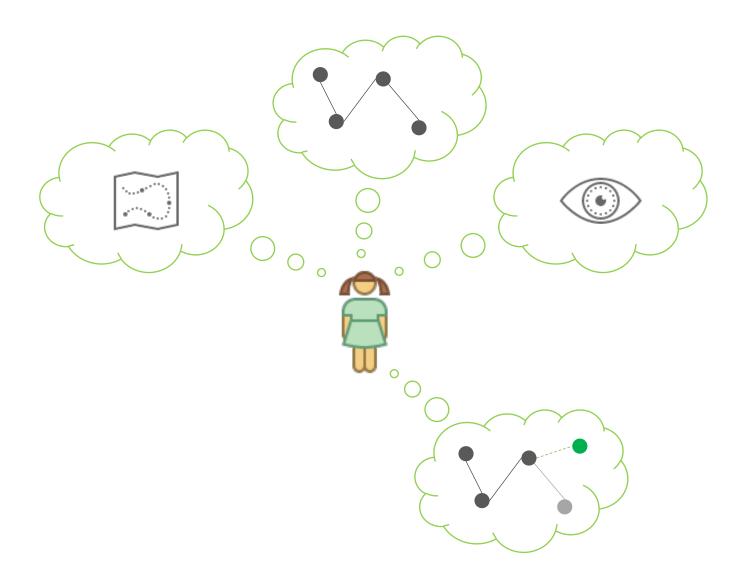
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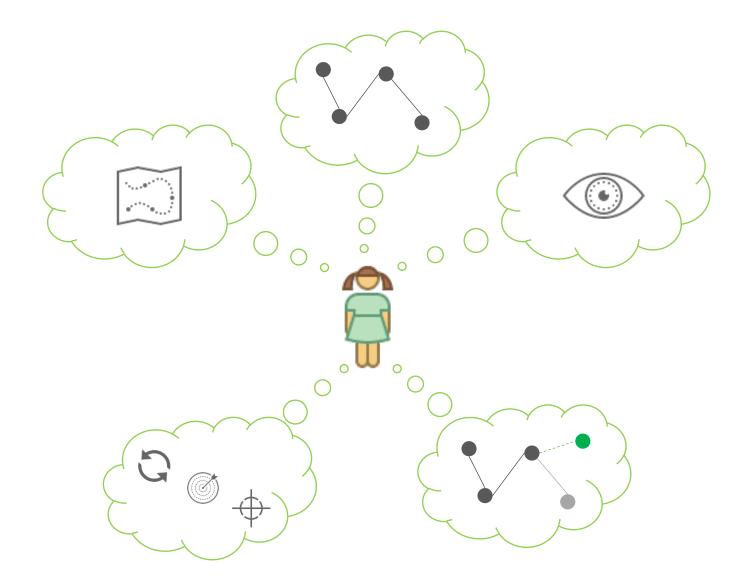
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Duh!



Move to think (4 x 30 minute sessions)



Be mindful



Remember: 2% vs. 20%



7 - 9 hours to function optimally

#thanks

The end!

"Charlie and I have not learned how to solve difficult business problems. What we have learned is to avoid them."

#some reading

