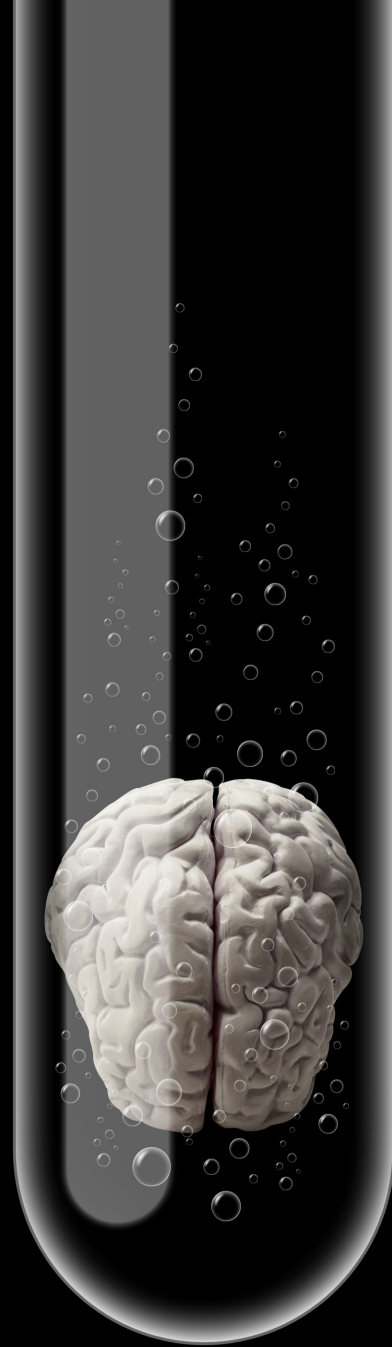


Liefde

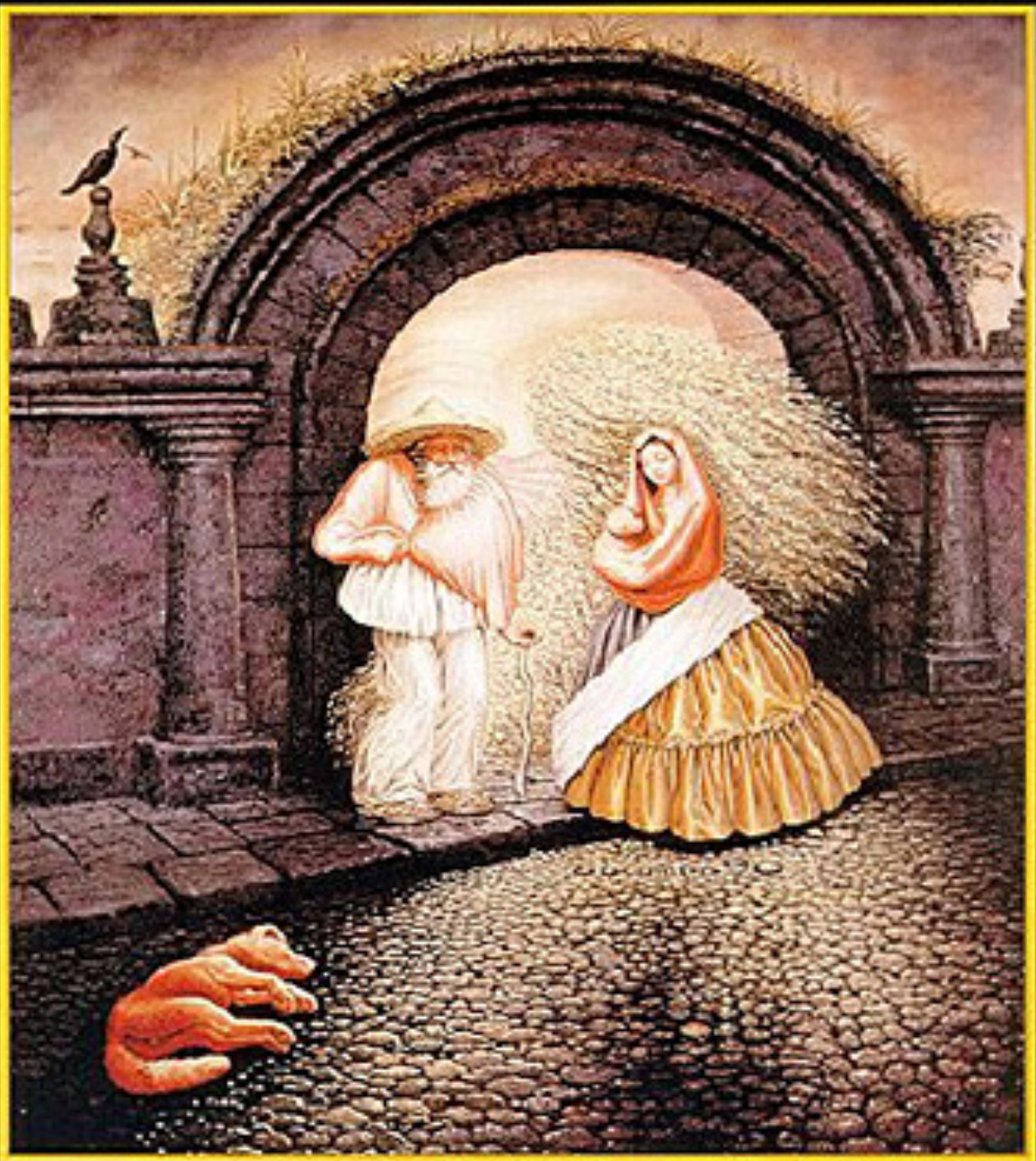
voor

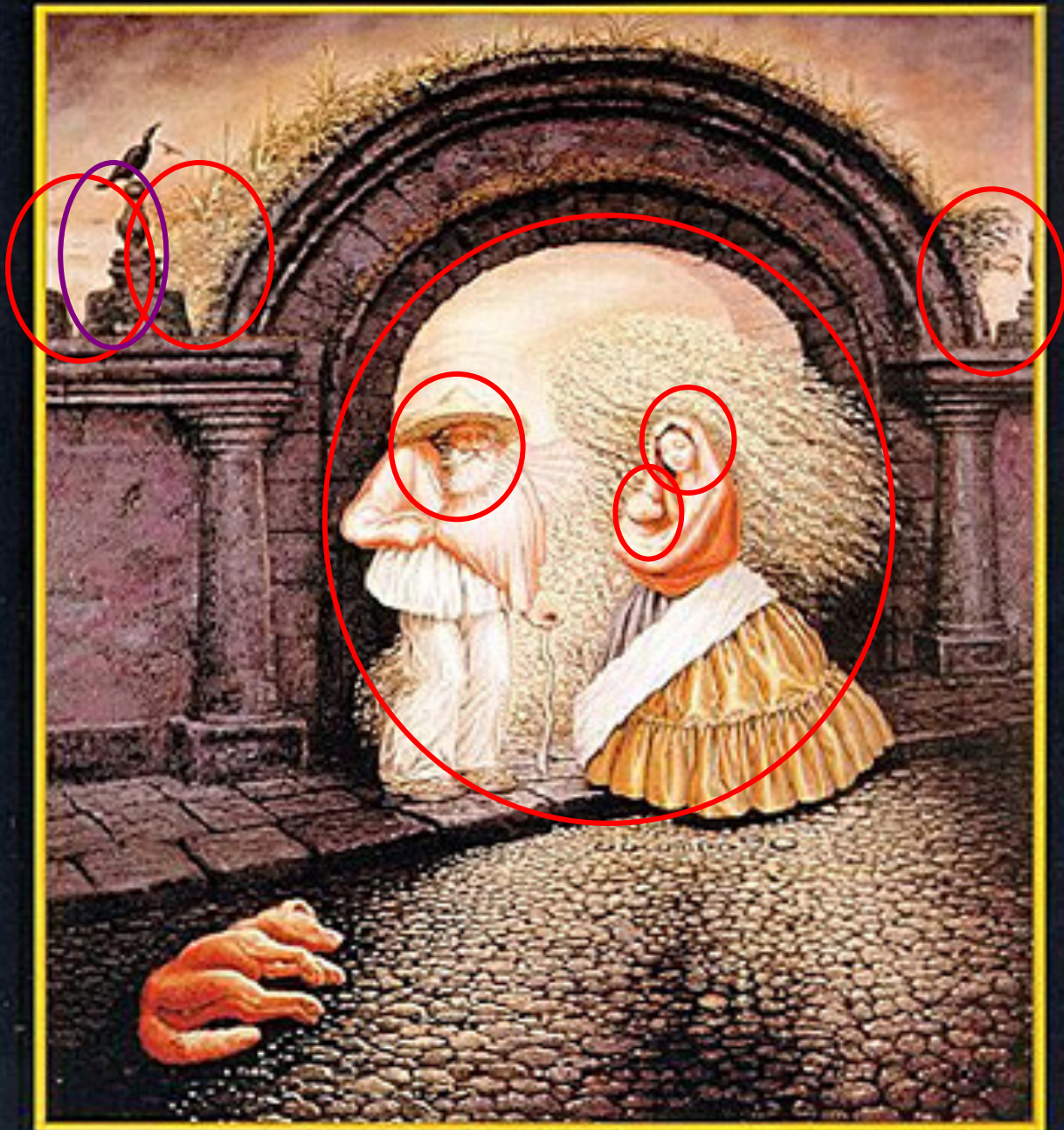
Leren

Dr Martijn van der Spoel



hoe kan je
school leuker
vinden?







You are born with
a love for
learning

Love for learning
needs to feel
good



the british
psychological society
chartered psychologists

Glia Learning
education that sticks

© Glia Learning – Company no. 07691885



You can't just
force it onto
someone

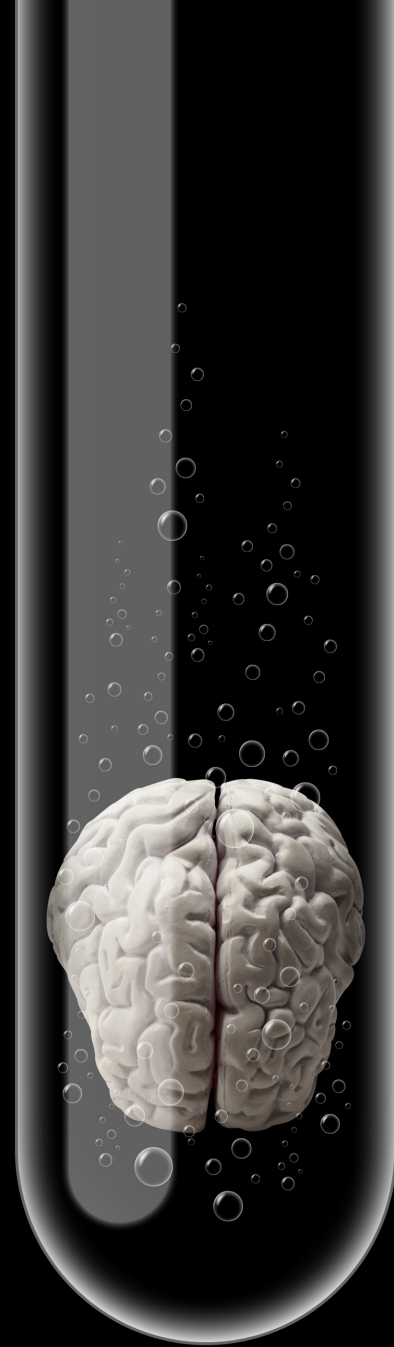


‘Walt did see
it, that’s why
you’re seeing
it today’

Liefde

voor

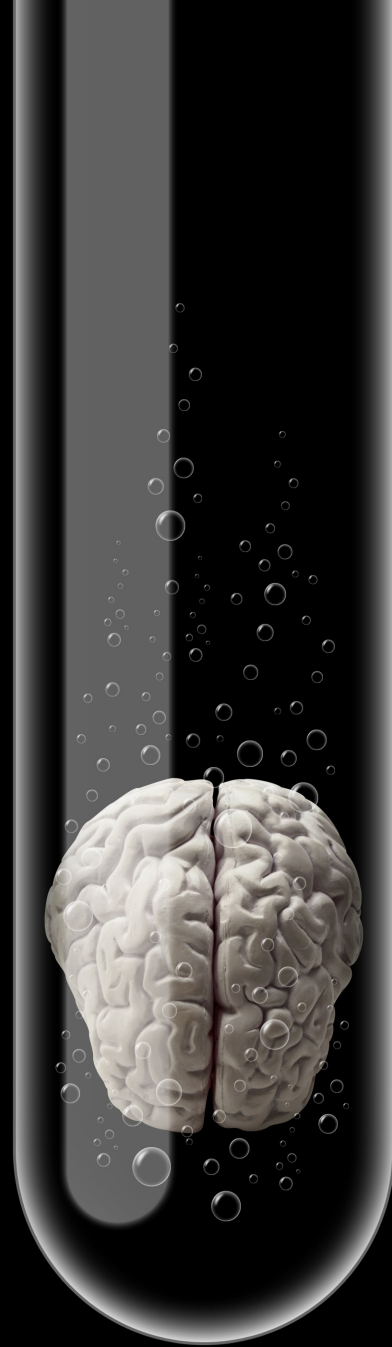
Leren

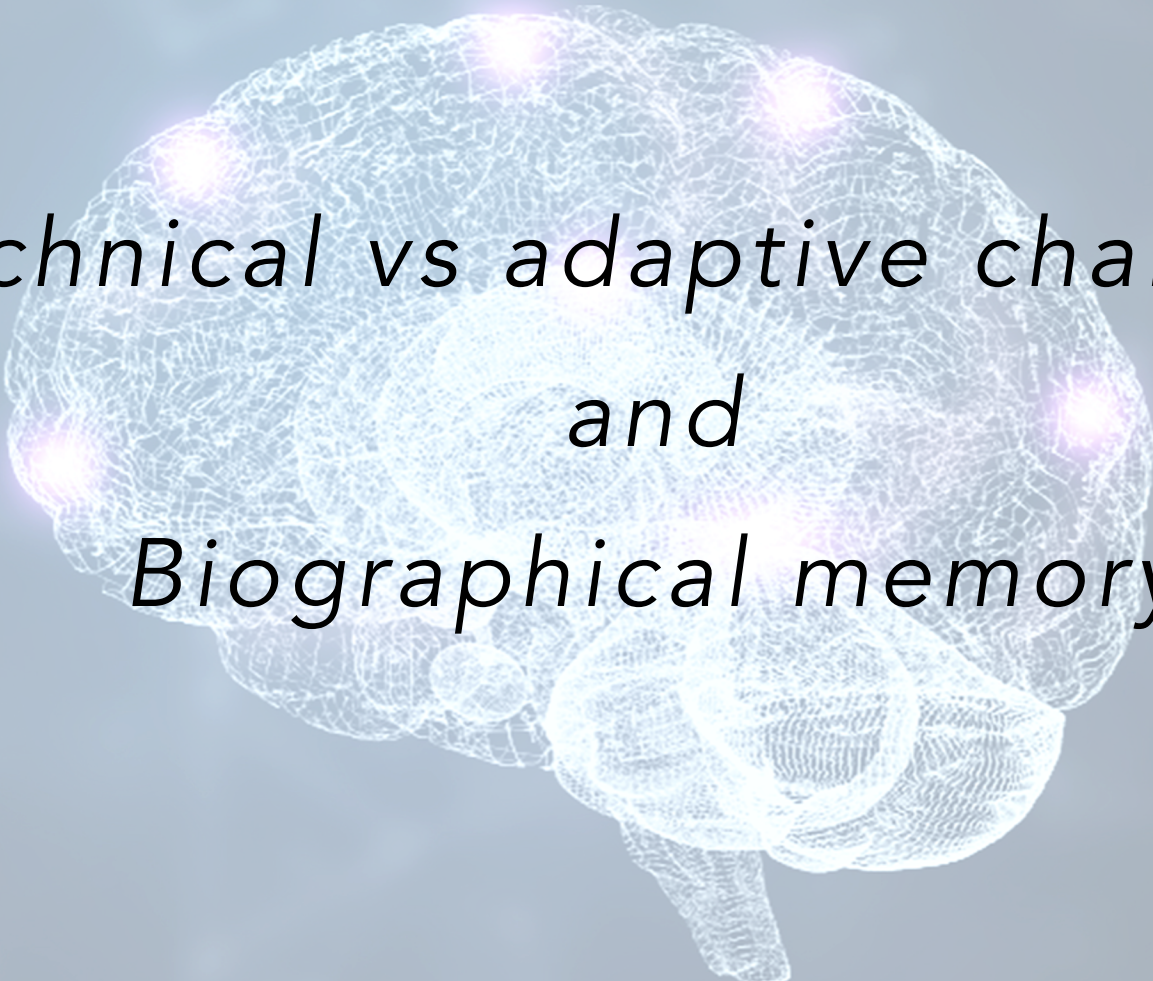


Liefde

moet je

Leren



A wireframe illustration of a human brain, rendered in a light blue or white mesh. Several nodes on the brain's surface are highlighted with bright purple, glowing spheres. The background is a soft, out-of-focus grey.

Technical vs adaptive challenge and Biographical memory

hoe kan je ervoor
zorgen dat je hersenen
het het best doen?

Ronald Heifetz

Harvard University

Technical vs. adaptive
challenges



Adaptive challenge

Adaptive challenges speaks about situations where there are no obvious solutions to solve the problem. By nature adaptive challenges are adaptive, which also means that they are, at least to some extent, fluid and change with circumstances.



Technical challenge Operation!



Adaptive challenge

How to live life!

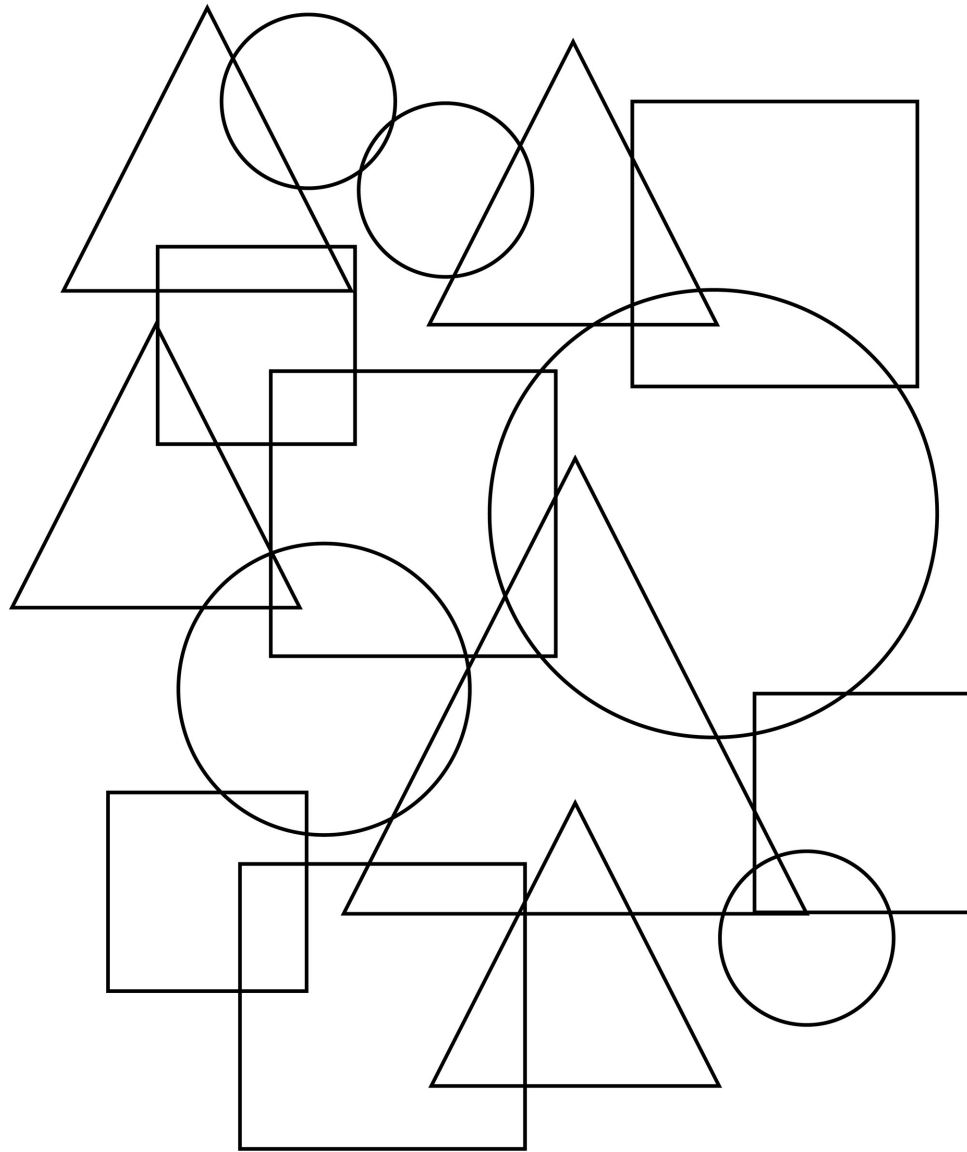


Seek to address
adaptive challenges
with technical solutions

Create bigger problems

hoe kan je
school leuker
vinden?

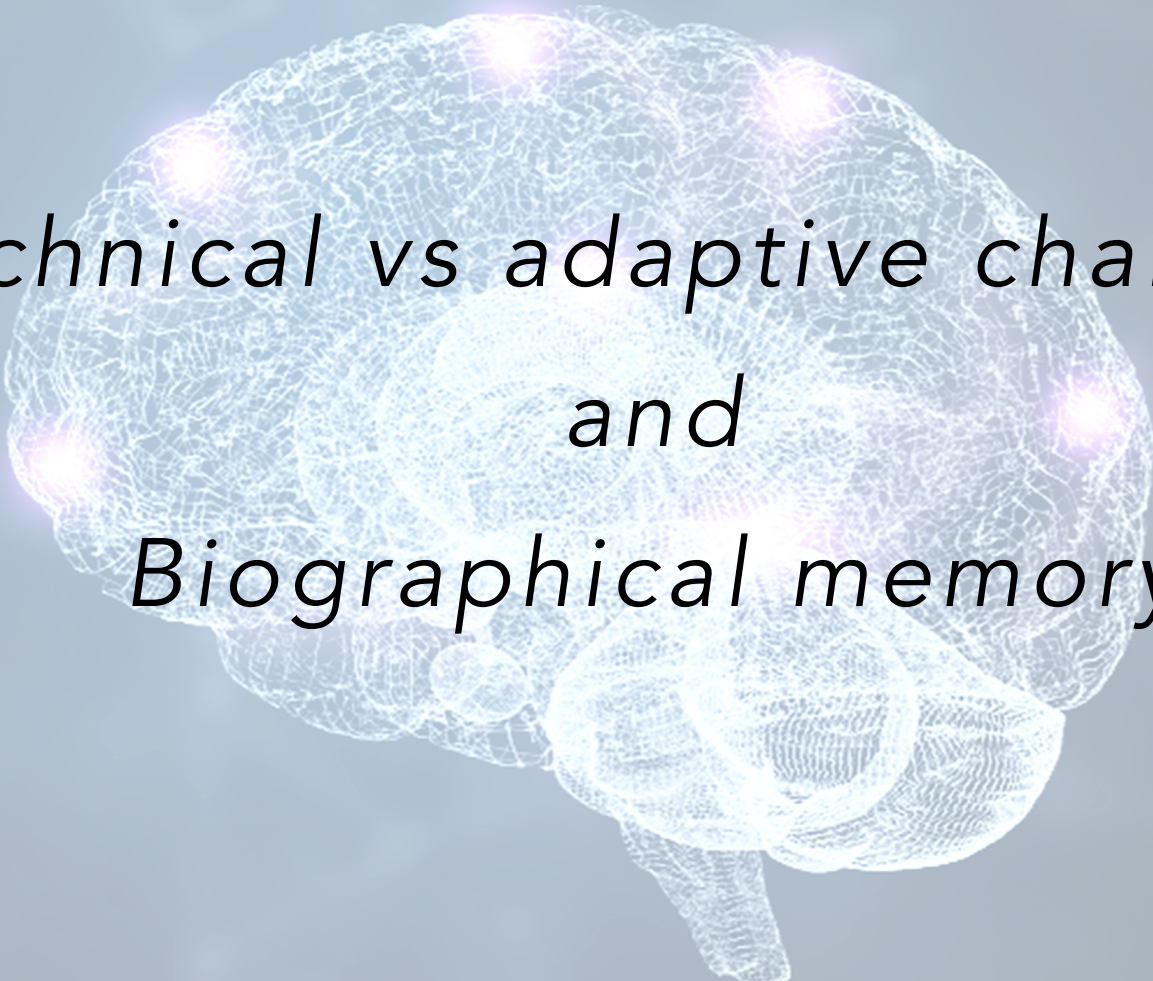
How
many
of
each
type?



Imagine you are from Pirahã in Amazonia....



hoe kan je
school leuker
vinden?

A wireframe illustration of a human brain, rendered in a light blue or white mesh. Several points on the brain's surface are highlighted with bright purple, glowing circular nodes. The background is a solid, muted blue-grey color.

Technical vs adaptive challenge and Biographical memory

kan je je hersenen
laten leren zonder
te leren.

Science

—— (four words) ——

Tmaos

atoms

Xeeeprrmitn

Experiment

Big Lion

Boiling

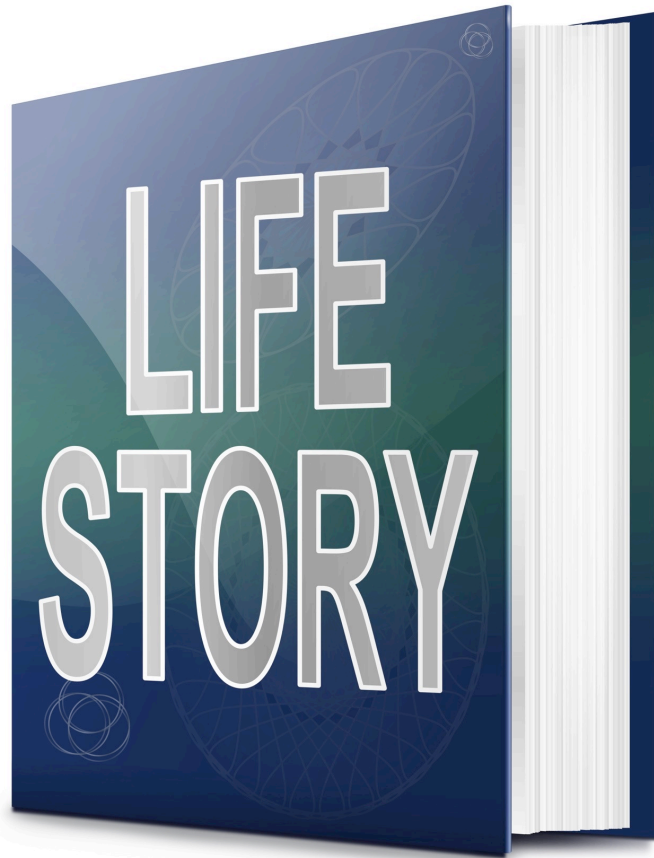
Pointer

Protein

"Students who come to
school loved, you can teach
-
those who don't you need
to love first."

Nicholas Ferroni

Biographical memory



A stage spotlight, consisting of a circular metal truss with four spotlights, is suspended from above. The spotlights are directed downwards, creating a bright, circular pool of light on a dark stage floor. In the center of this illuminated area is a white, three-tiered cylindrical pedestal. The word "You!" is written in a large, white, sans-serif font in the center of the light pool, directly above the pedestal.

You!



Starts early



Limit unknown



Pictures



How do you strengthen your biographical memory?



Point

'I know why!'

A hand holding a yellow cricket bat over an open palm, symbolizing support and encouragement.

Pace

'I can can do it!'



Passion

'I want this!'



Point

'I know why!'

Responsibility

HOW?

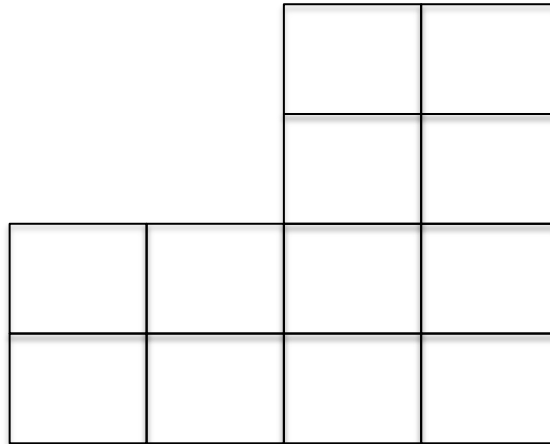
How BIG is your world?

Point

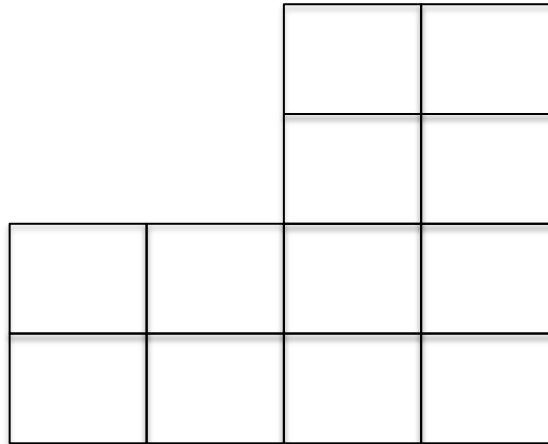
'I know why!'

Responsibility

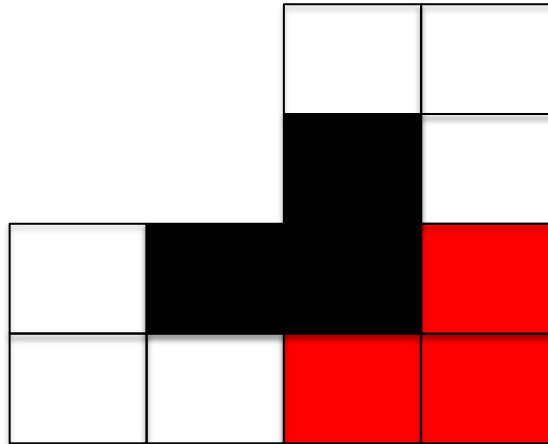
Copy this shape



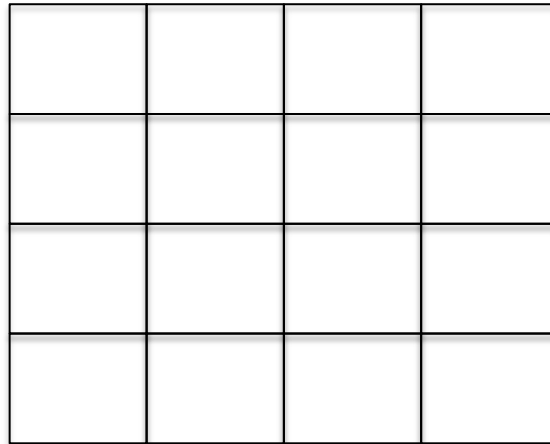
Divide in 4 equal parts



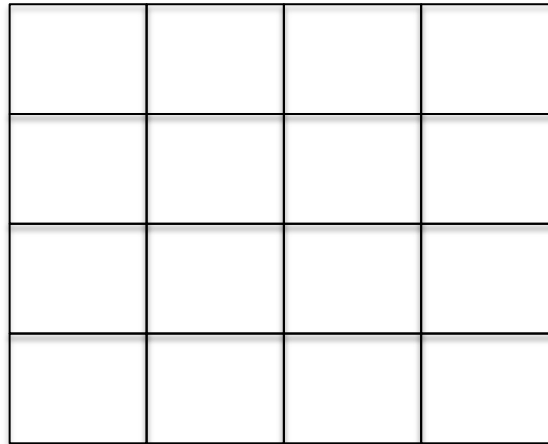
Divide in 4 equal parts



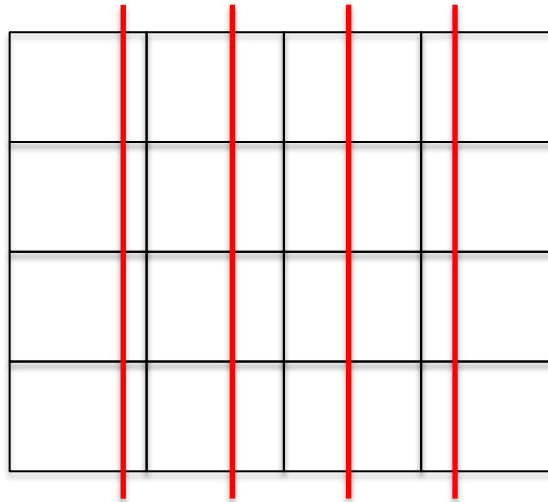
Copy this shape



Divide in 5 equal parts



Divide in 5 equal parts



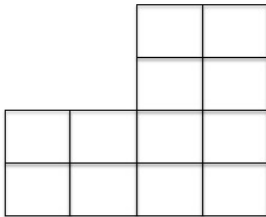
A



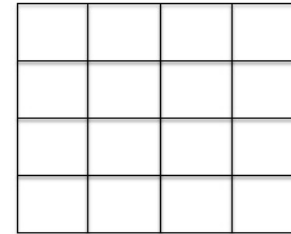
B



Divide in 4 equal
parts



Divide in 5 equal
parts



HOW?

How BIG is your world?
How can you discover it?

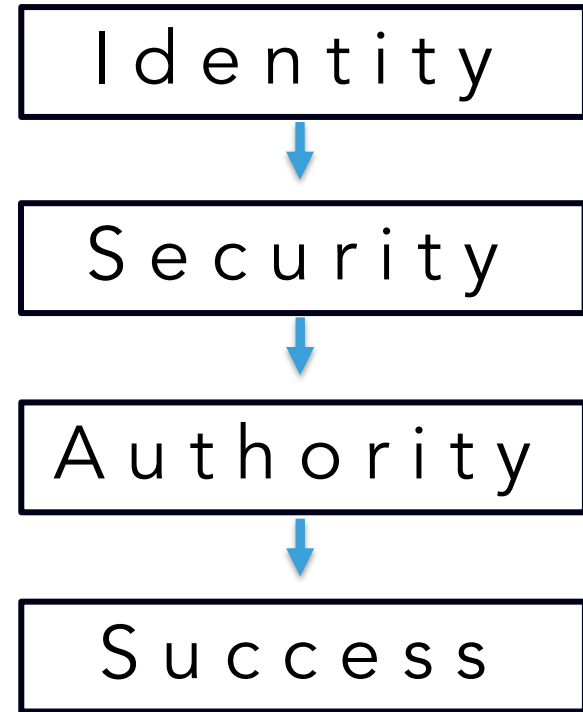
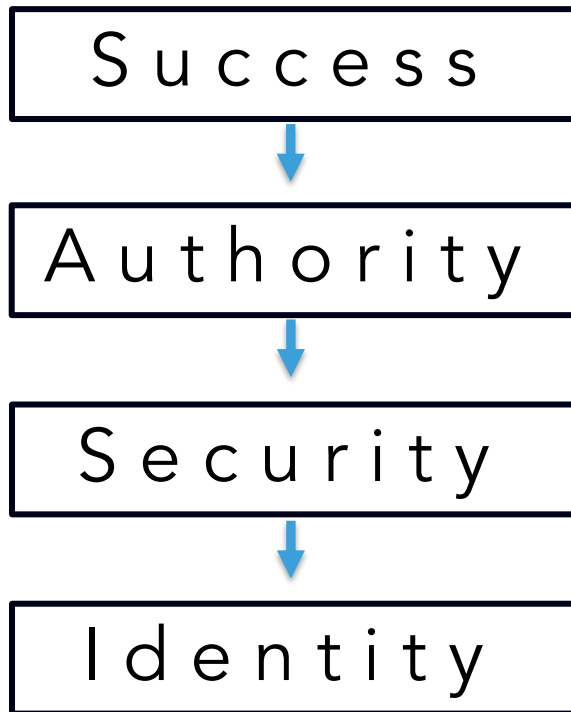
'I know why!'

Responsibility

Grow my confidence



Tasting of Success





Point

'I know why!'

Responsibility

How BIG is your world?
How can you discover it?

Structure

Pace

I can can do it!



Pace is influenced by:

- Examples

Pace

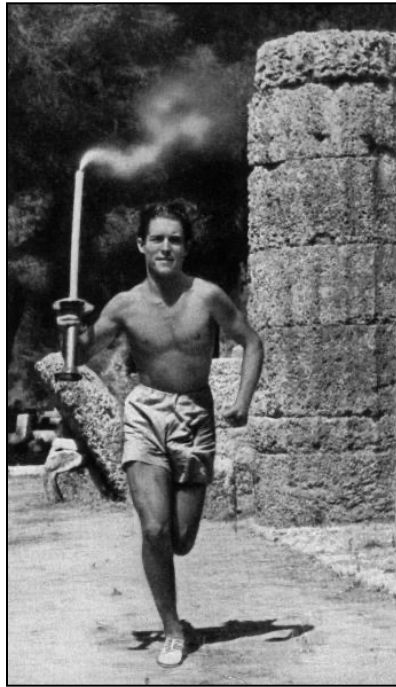
I can can do it!

The four minute mile

Who can do it?

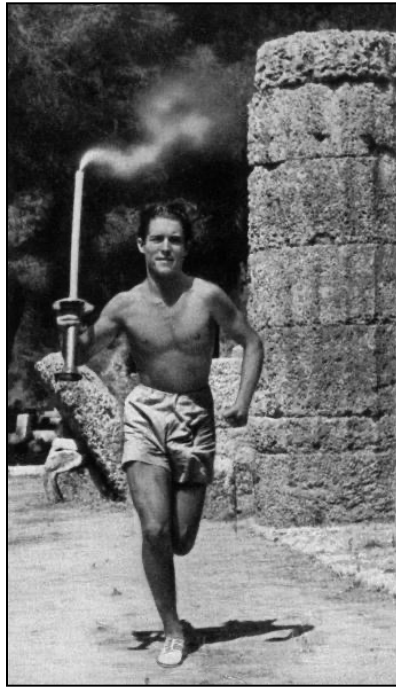


The four minute mile



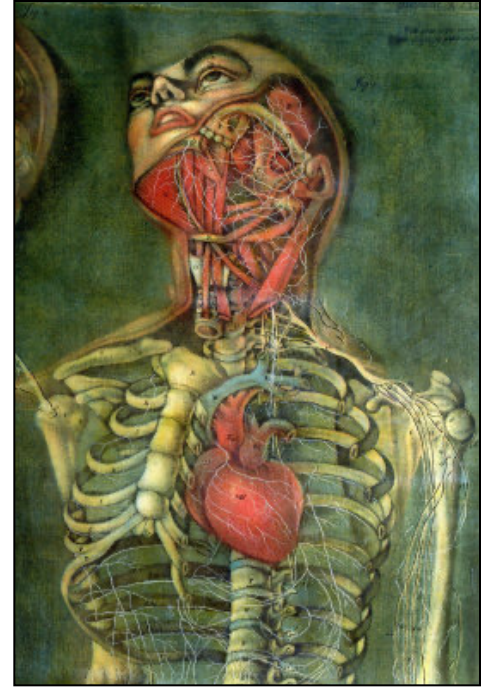
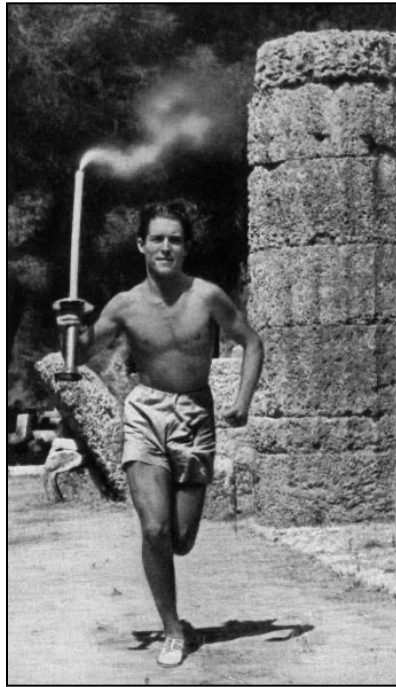
Greeks tried their hardest!

The four minute mile



Lions chasing them

The four minute mile



Your heart will explode

Never give up



1954: Roger Bannister
Three minutes 59.4 seconds

FINAL
EDITION

London **Herald**

FINAL
EDITION

No.3400

FRIDAY 7th MAY 1954

11-4

BANNISTER BREAKS FOUR MINUTE MILE

Greatest Record in Sport Falls



Bannister's moment of glory at Witley Road

Miracle Mile for British Medical Student

By Tom Philip in Oxford

The greatest wonder in world sport was suddenly achieved yesterday when Roger Bannister became the first man to run a mile in less than four minutes.

Mr. Bannister, a 23 year old medical student, broke the record at Oxford University's Denham cinder track, at Witley Road, during a match between the University and the Denham Athletic Association.

The four minute mile was once considered by experts to present an insuperable challenge to the human race and has always been seen as the "miracle mile" of the middle distance runner. In the breaking of the world record held for nine years by the Frenchman Roger Bannister has secured for himself a permanent place in the pantheon of the greatest sportsmen of all time.

Bannister spent the morning at St. Mary's Hospital, in London, where he is a junior houseman, before taking the steps to break the world record.

The World's 100 Best		
May 1953	St. Mary's (Oxford)	4:00.0
May 1952	St. Mary's (Oxford)	4:00.0
March 1950	St. Mary's (Oxford)	4:00.0
June 1949	St. Mary's (Oxford)	4:00.0
June 1948	St. Mary's (Oxford)	4:00.0
May 1947	St. Mary's (Oxford)	4:00.0
October 1946	St. Mary's (Oxford)	4:00.0
September 1945	St. Mary's (Oxford)	4:00.0
July 1944	St. Mary's (Oxford)	4:00.0
July 1943	St. Mary's (Oxford)	4:00.0

afternoon continued rain-pour the wind was strong and gusty and the atmosphere was dark, raw and cold. Spectators, however, were not deterred by the weather.

As the four minute mile approached, the wind shifted from the north to the south. Mr. Bannister's legs were the perfect aches and pains of a long run. He was not a professional athlete, but a medical student.

He was not a professional athlete, but a medical student. He was not a professional athlete, but a medical student. He was not a professional athlete, but a medical student.

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OTHER NEWS

Police Register for
The Home Secretary declared yesterday that the police of "Edinburgh" or "Edinburgh" were not independent of the police.

Five Run Plus Stage
The Home Secretary declared yesterday that the police of "Edinburgh" or "Edinburgh" were not independent of the police.

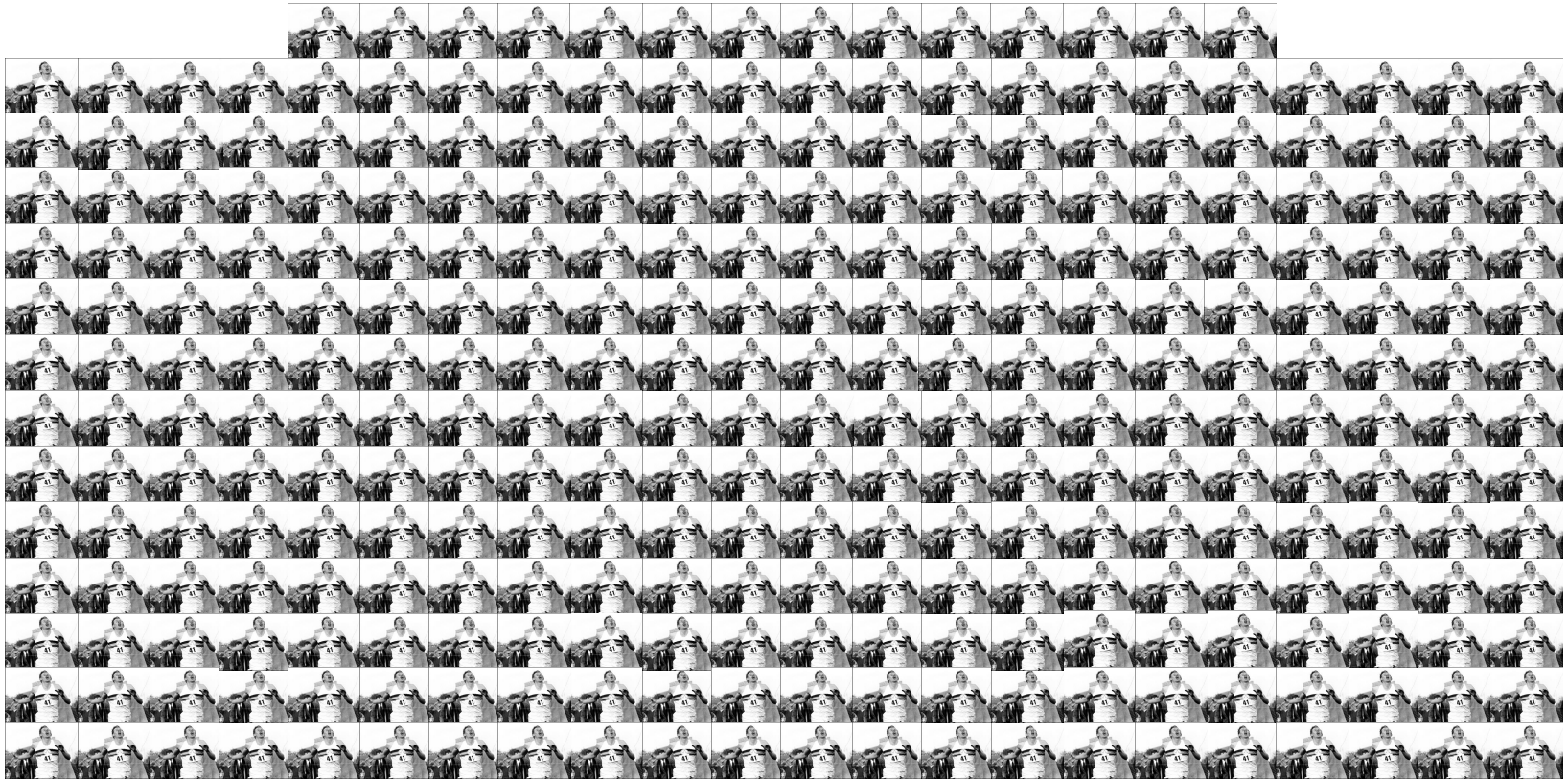
One year later...

...37 ran a mile in less than 4 minutes!



Two year later...

...300 ran a mile in less than 4 minutes!





Pace is influenced by:

- Examples
- Surprises

Pace

I can can do it!'

'Columbo effect'



A hand holding a yellow stick, which is the background image of the slide.

Pace is influenced by:

- Examples
- Surprises
- Risk

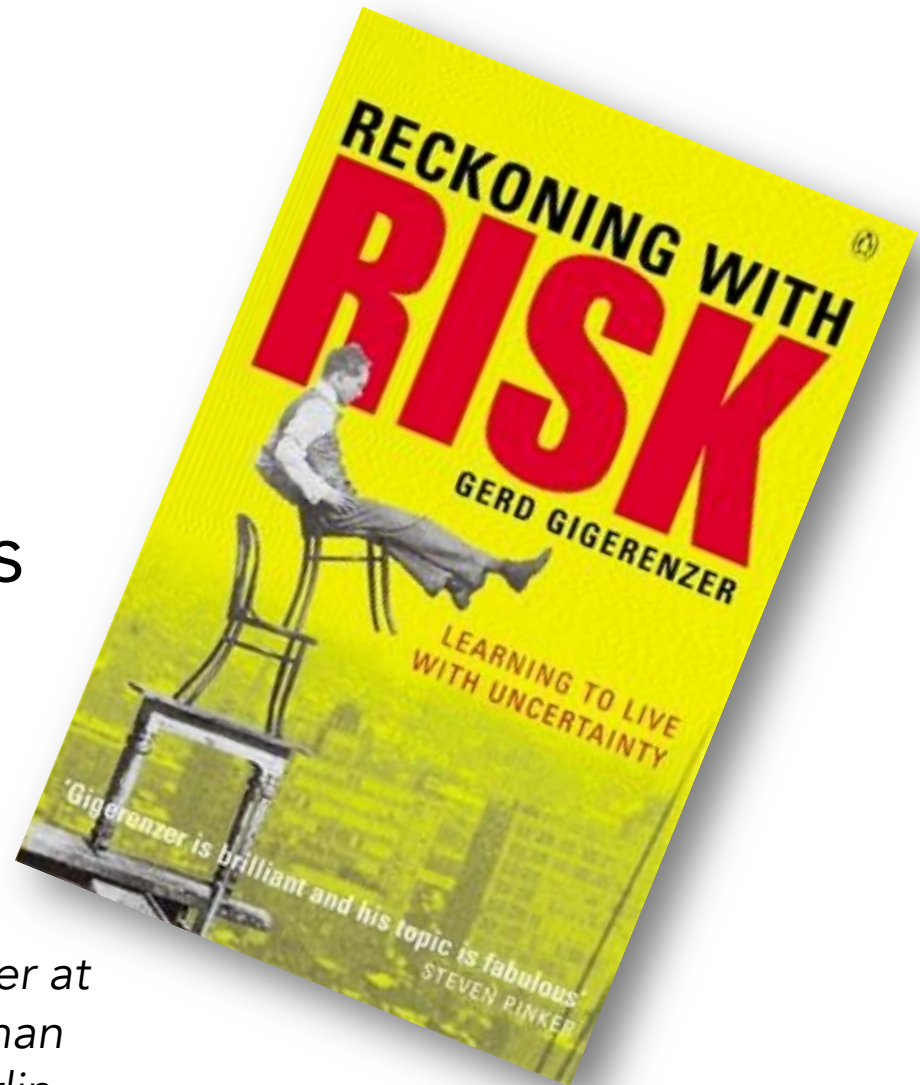
Pace

I can can do it!

A person's arm and hand are visible on the left side of the image, holding a blue folder and a book. The person is wearing a pink and red patterned shirt and blue jeans.

Thinking about risk...

Society moves increasingly to making feeling driven decisions



Psychologist Gerd Gigerenzer at Max Planck Institute for Human Development, Potsdam (Berlin, Germany).

Challenge

... if you dare



Reflection

There was an “I can’t do this” moment.



In the "I can't" you find
the secret of "I can".

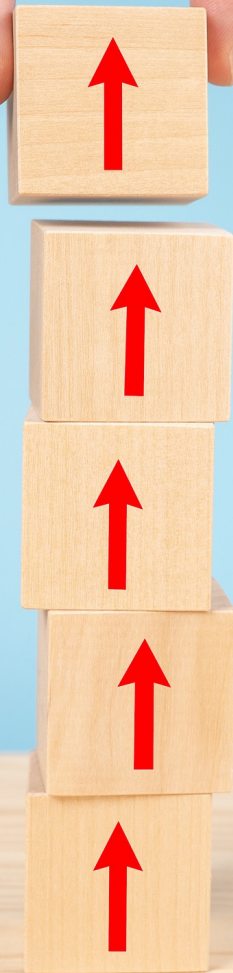




Passion

'I want this!'

Progress

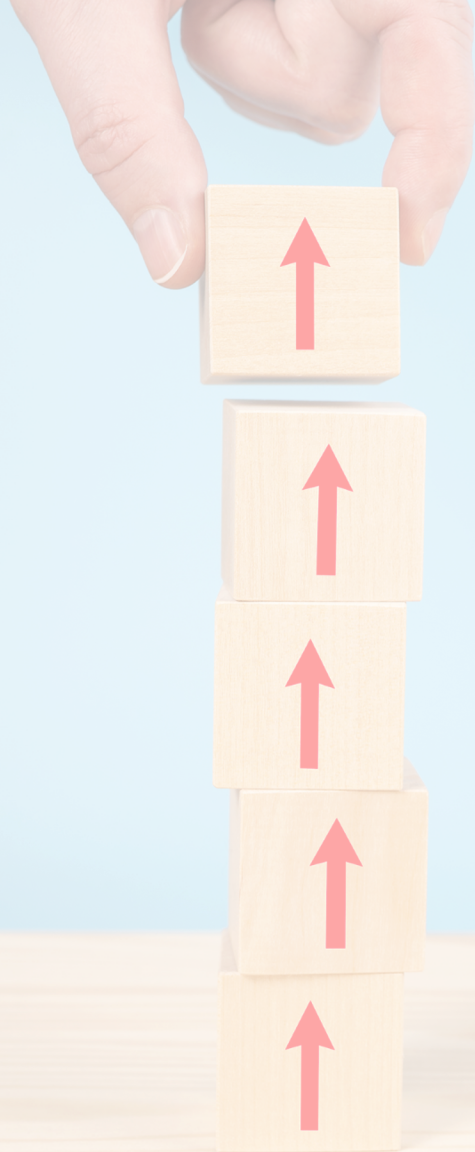


- Activity -

How would you order this?

1. Allowed to mature
2. Handled correctly
3. Loved
4. Identified

5. Mastered
6. Practiced
7. Repeated
8. Understood



Loved
Mastered
Allowed to mature
Repeated
Practiced
Handled correctly
Understood
Identified

Teachable Time



Wat is een vraag die
de hersenen het hardst
aan het werk zet, wat
te maken heeft met
leren?