



REIMAGINING SIMULATION

In the context of Adult Learning

Dave Halliwell - He / Him

Warning Slide

Conflict of interest



May be Upsetting



**Elstree
Studios**

**We make
manikins**



Resuscitation council UK - cpr with Connor video



I WORK IN
A WORLD
OF

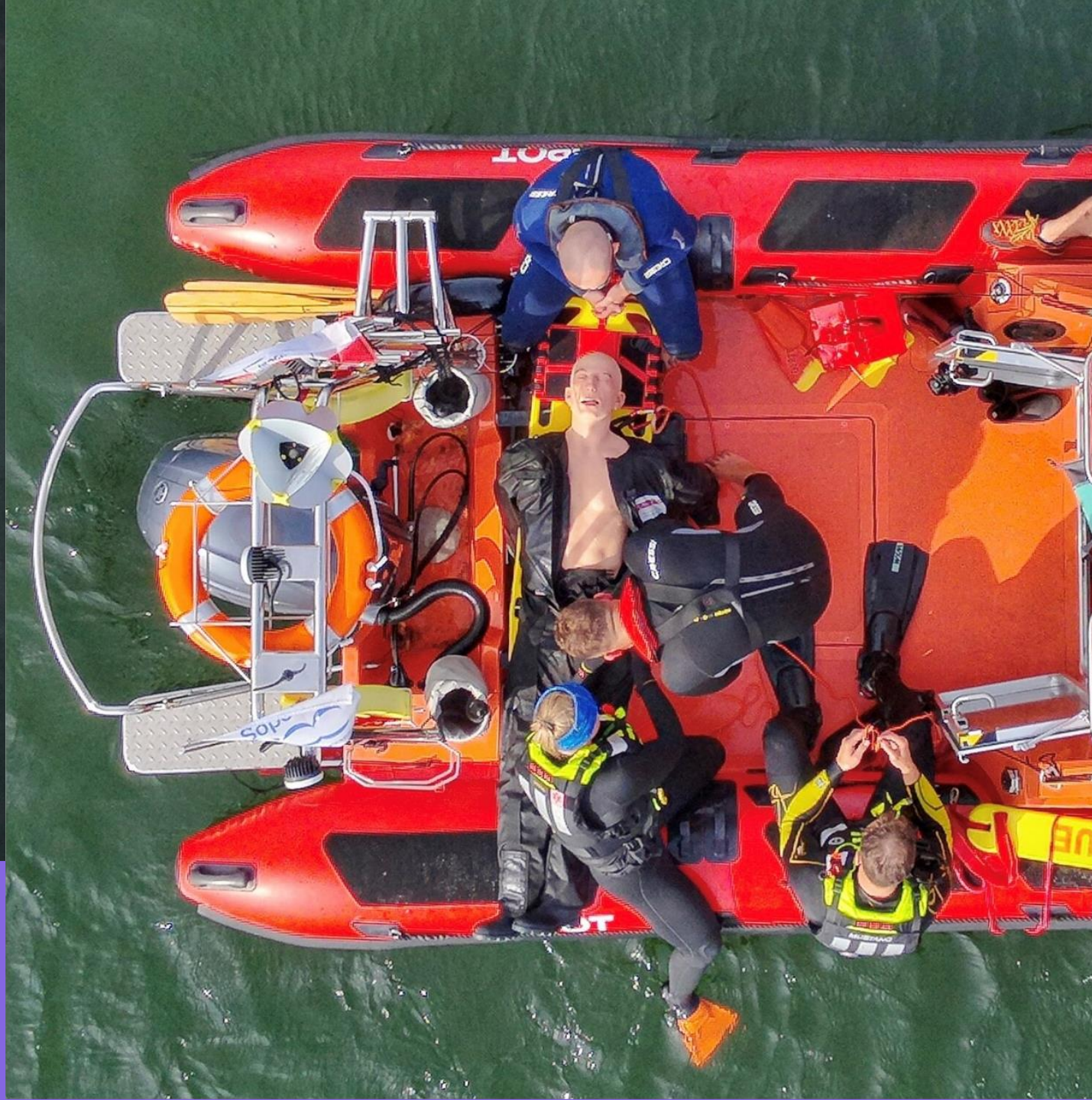
**HEALTH
REALISM**

NOT

FIDELITY



Realistic Weight
AND LOOK AND MOVEMENT





HEALTH **TRAINING** ENGLAND?

TRAINING VS EDUCATION



Did You Know?

Sporting a beard can potentially impede bagging and ventilation.

I see - Every day problems



LAST
TIME...











I SPOKE
ABOUT

WHAT WE
HAD
DONE...



I
SHARED
MY BIAS









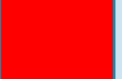








Unconscious Bias - Dave H + Karen

	Dave H	Karen					
Age (+ - 10)	55						
Gender	Male						
Marital Status	Married						
Sexual Orientation	Straight						
Ethnicity	Caucasian						
Religion	Christian						
Culture	British						
Mental Ability	Ok (ish)						
Physical Ability	Able Bodied						
Education							

Unconscious Bias - Dave H + Karen = Mates

	Dave H	Karen	Rob	Steve	Martyn		
Age (+ - 10)	55						
Gender	Male						
Marital Status	Married						
Sexual Orientation	Straight						
Ethnicity	Caucasian						
Religion	Christian						
Culture	British						
Mental Ability	Ok (ish)						
Physical Ability	Able Bodied						
Education							

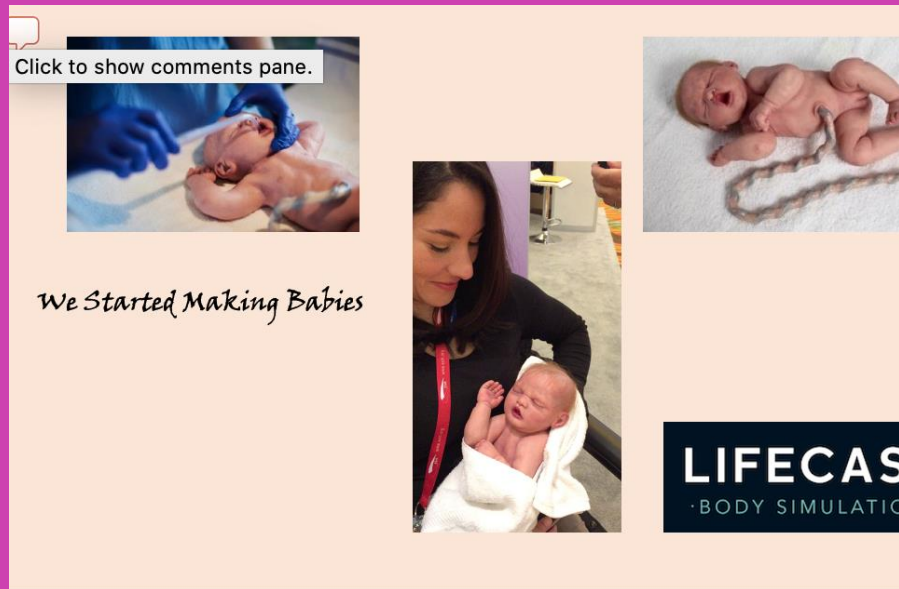
Unconscious Bias - Dave H + Karen + KIDS

	Dave H	Karen	Rob	Steve	Martyn	Beth	Katy
Age (+ - 10)	55						
Gender	Male						
Marital Status	Married						
Sexual Orientation	Straight						
Ethnicity	Caucasian						
Religion	Christian						
Culture	British						
Mental Ability	Ok (ish)						
Physical Ability	Able Bodied						
Education							



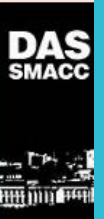
**“IT’S NOT LIKE
THIS IN THE REAL
WORLD”**

OUR JOURNEY STARTED WITH ONE BABY



THEN WE ADDED AN ADULT -

learned to Copy People -





WE SAW LEARNING CHANGE

INCREASED ENGAGEMENT

INCREASED RETENTION





**Once we got started we
wanted to tackle
“Healthcare Realism”**



Then we started
to address Racial
Bias

OLDER People BIAS



Then Older People Racial Bias



lazy

insulting

“PAINTING A
MANIKIN A
DIFFERENT COLOUR
ISN'T GOOD
ENOUGH!”



YET IT SEEMS ACCEPTABLE



We began Tackling Extremes of Age

Speaking up for those who don't have a voice...

22 / 40
manikin



28 / 40
manikin



**As age of viability changed so
should our kit!**

I worried about this stuff when I got home

I spoke to you about Training for Worst Case...

Preparing for Death!

Why do you use Healthy Manikins?

I couldn't understand why no one sees
colour or movement as essential..





OUR FIRST EXPERIENCES

SHOULDN'T
BE PRACTICED
ON
REAL PEOPLE

Truly worst case

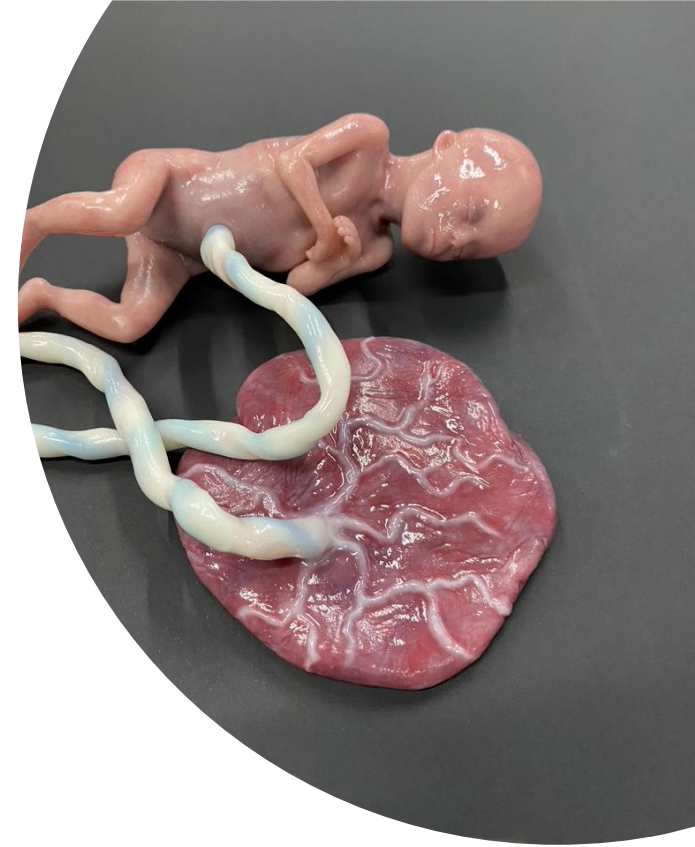
Neonatal Bereavement course

Twins

One Healthy baby

One Dead baby





We discussed

**Manikins to Support Miscarriage
Sim**

**I couldn't understand why no
one was doing miscarriage
simulation**



Health
Status

**Sick Oncology
Manikin**

**I worried that manikins
don't look sick...**

So much more...

Previous Medical History

**I worried about Covid
effects in less
developed nations**





Religion + Personal Beliefs

I worried about our lack of understanding

Manikins with Different Ability?

I worried that the Very Manikins we need
didn't exist!



We built GWEN –

And Loads of Crazy Medical tools To make a difference



I learned so much about Kids with Disability... and I worried "Why I hadn't Known stuff...."

Otolaryngoscopy



BUT DOING ALL THIS WORRYING STUFF

- Caused my Brain to Hurt
- I wanted to speak up for all of the under represented...





YOU NEED A HOLIDAY

"Dave... You need a holiday"

"Dave... You need a holiday"



**So I went on Holiday – to the Jungles of
Panama + Costa Rica**

I STARTED TO RECUPERATE....



I IMAGINED A NEW NORMAL



I DELVED INTO TEACHING STRATEGY

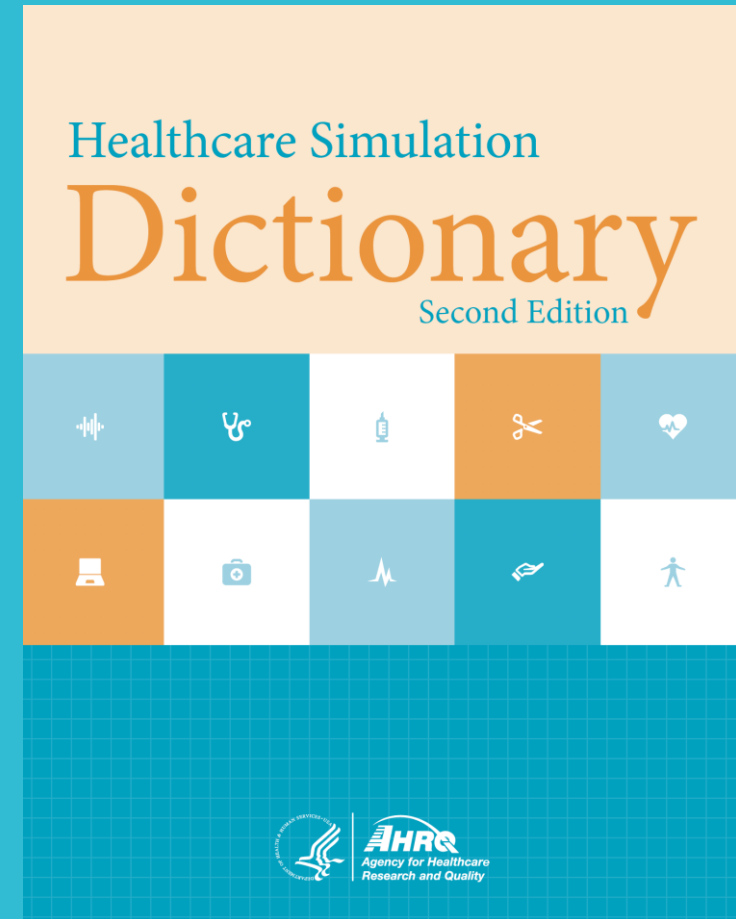


I THOUGHT ABOUT SCHOOLING



I REaD my books on
Holiday – I went back to
my origins...

I WENT BACK TO OUR LANGUAGE



The background features a solid blue field. On the left, a series of concentric, wavy lines in shades of pink and light blue create a ripple effect. A large, semi-transparent blue circle is positioned in the center-right, overlapping the wavy lines. A small, bright green triangular shape is visible at the top center, partially obscured by the blue circle.

**I THOUGHT
ABOUT MY
LEARNERS**



**ALL
WITHIN A
CONTEXT
OF COVID**





I THINK ABOUT

PEDAGOGY

- Peda – Child
- Theories of Teaching Children
- Developed 100 years ago

A stylized graphic of a person's head and shoulders, composed of two overlapping circles. The top circle is white with a dark gray outline, and the bottom circle is a light gray with a dark gray outline. To the right of the person icon is a large, thick, lime green ring. The background is a solid light gray.

Adult Learning Theory

I THINK ABOUT ANDROGOGY

Pedagogy vs Andragogy



Adults and children don't learn the same way

It sounds so obvious, but understanding the differences between **Pedagogy** (traditional teaching methods) and **Andragogy** (adult education methods) is essential for instructional designers who need to deliver engaging and effective eLearning material, online courses, and remote training programs.

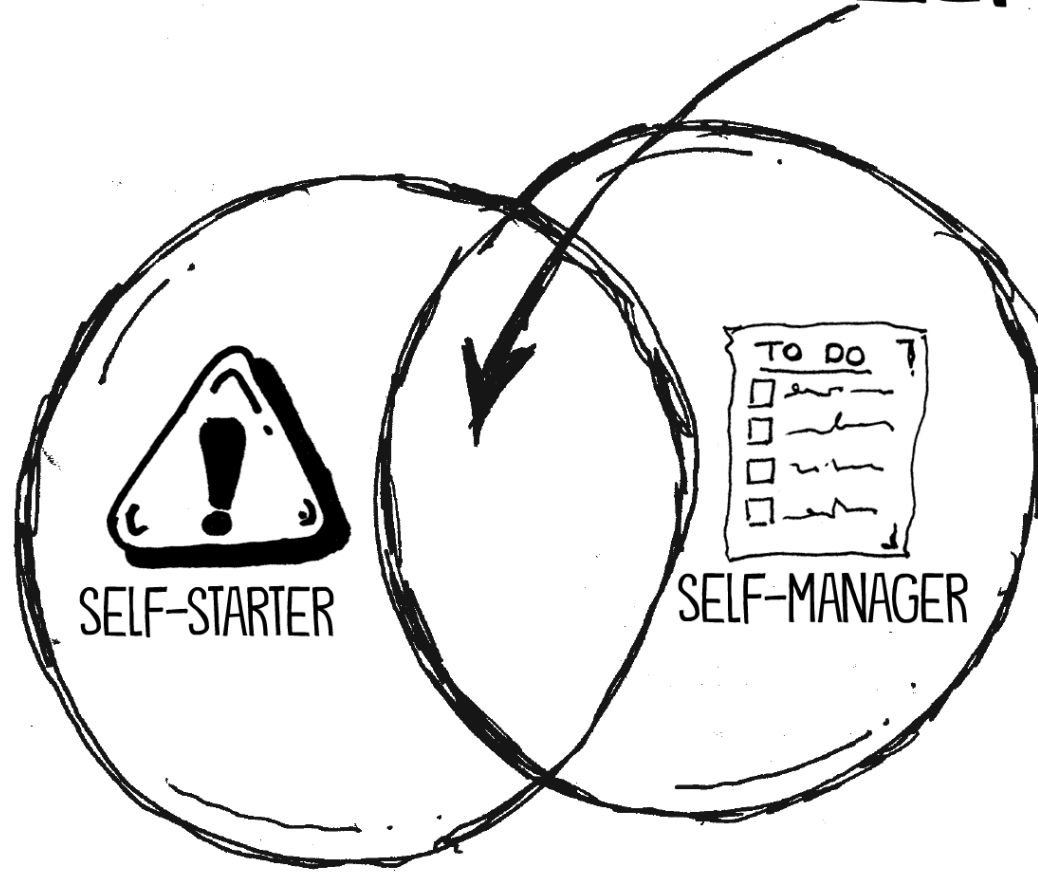
I LOVE ANDROGOLOGY

Developed 43 years ago



ADULTS ARE NOT CHILDREN

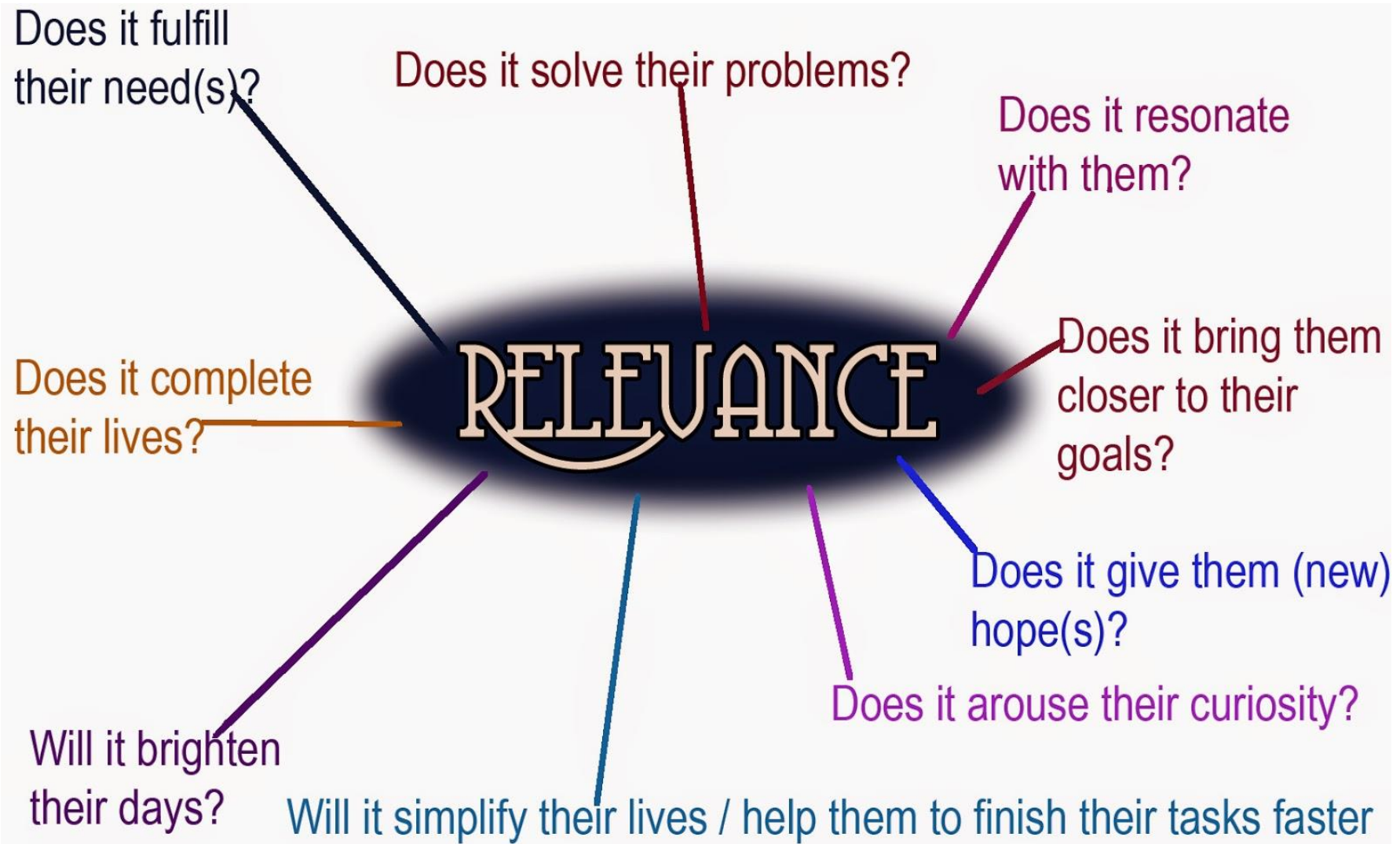
SELF-DIRECTION



ADULTS ARE SELF DIRECTED



ADULTS LEARN BY DOING



ADULTS DESIRE RELEVANCE



All genuine learning comes
through experience.

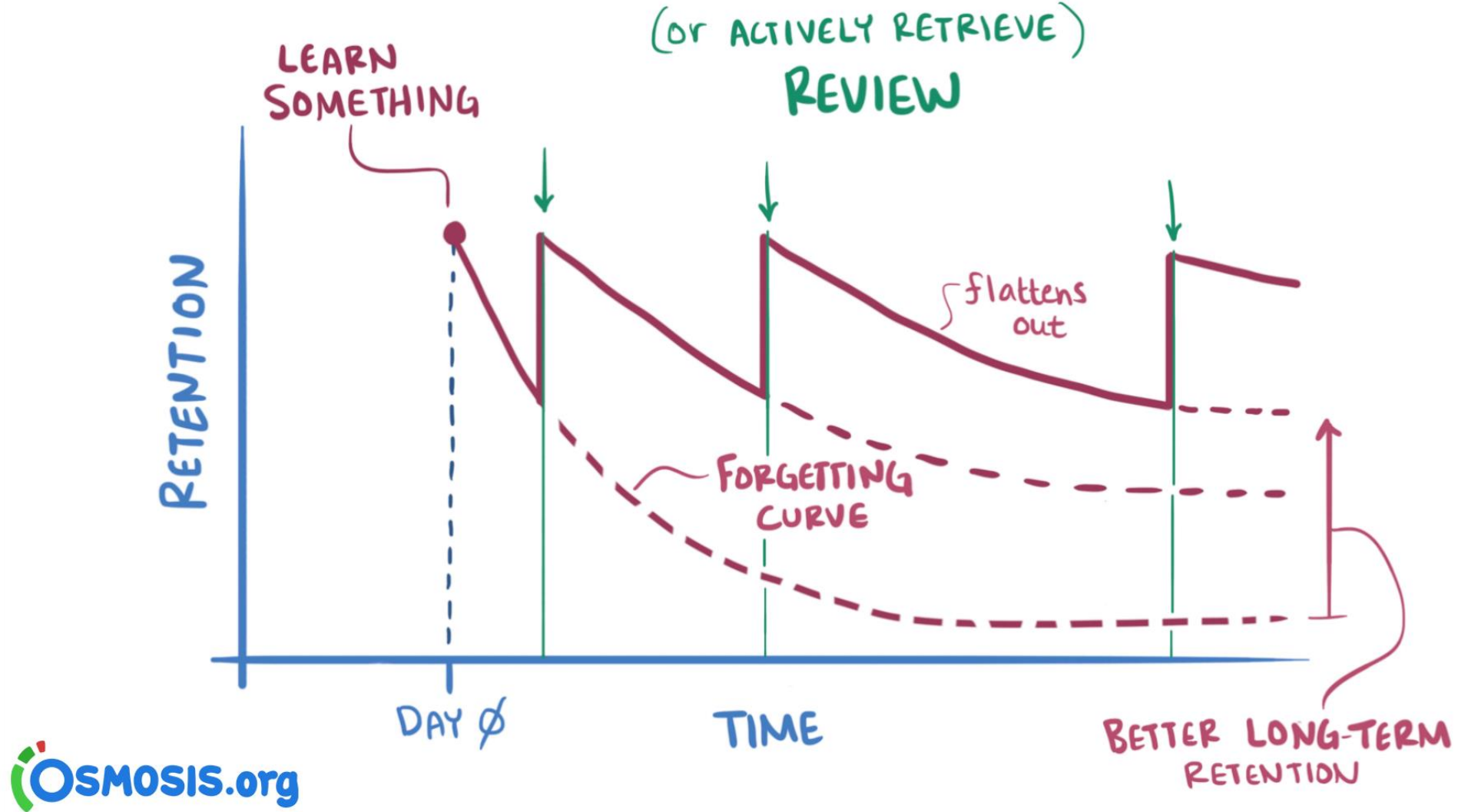
John Dewey

quotefancy

ADULTS USE EXPERIENCE



ADULTS USE ALL OF OUR SENSES



ADULTS LIKE REPETITION

Adult Learning Principles

for workplace learning

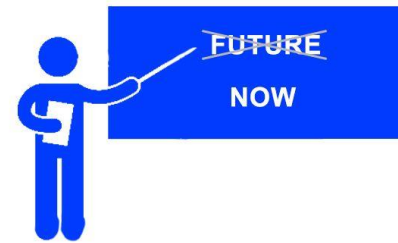
SELF DIRECTION

Adults want a say in the learning process



IMMEDIATELY APPLICABLE

Adults don't learn something because it might be useful in the future



EXPERIENTIAL

No sitting around listening to lectures



REAL LIFE

It is very hard to remember "stuff" without real-life application



ADULTS LIKE OWNERSHIP

Andragogy: The Art and Science of Helping Adults Learn



ADULT LEARNERS – 1980'S



I REMEMBER
“ KIDS AT THE AGE OF 4”



ASK 107 QUESTIONS AN HOUR



**Yet, At the Age of 10 –
Students failed to ask a single question....**

Herodotus

PEDAGOGY KILLS LEARNING



stifles growth



Kills the economy \$



Damages the Learner

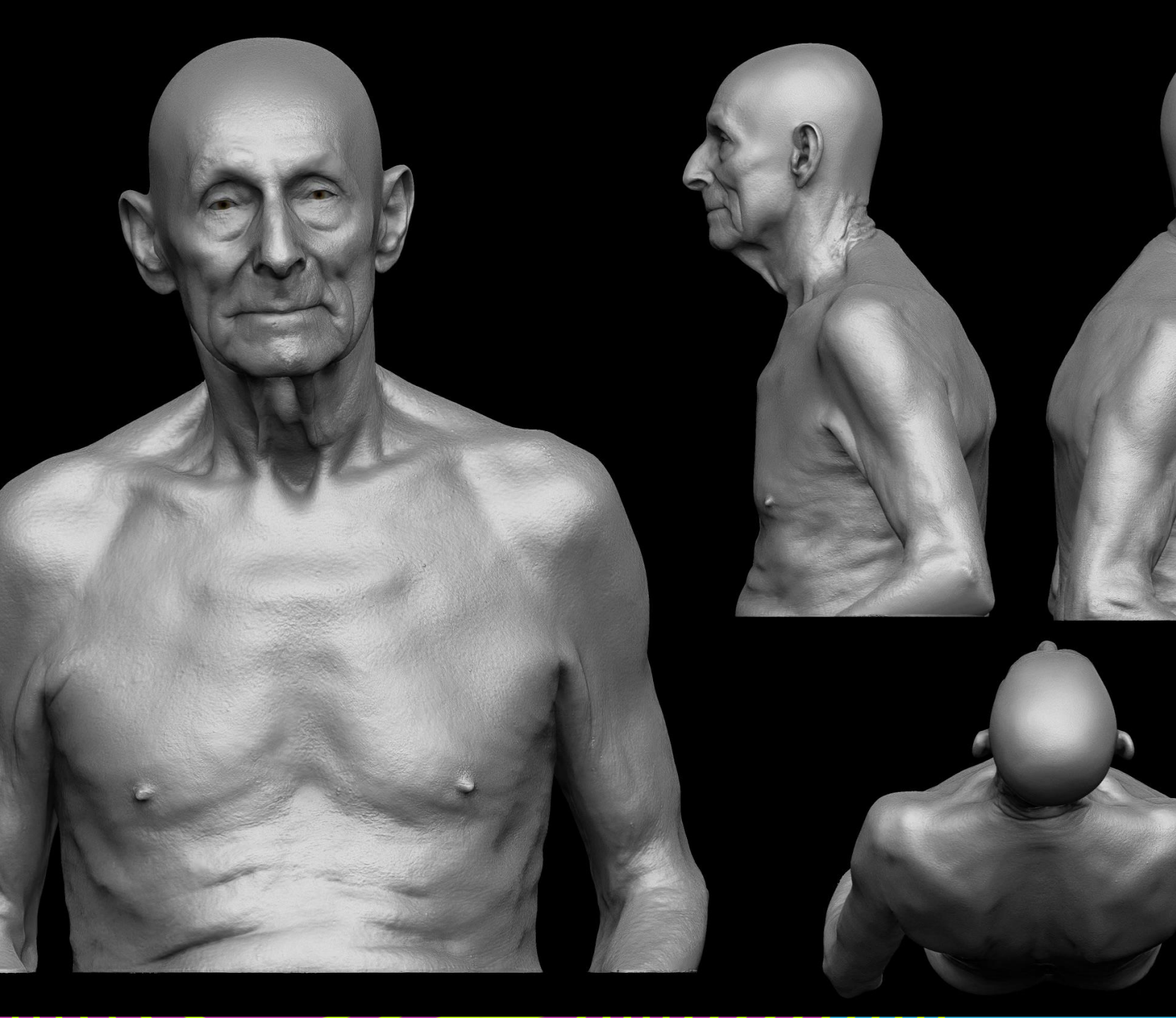


**I MAKE
TIME TO
THINK
ABOUT**

COVID

What did we do Right?



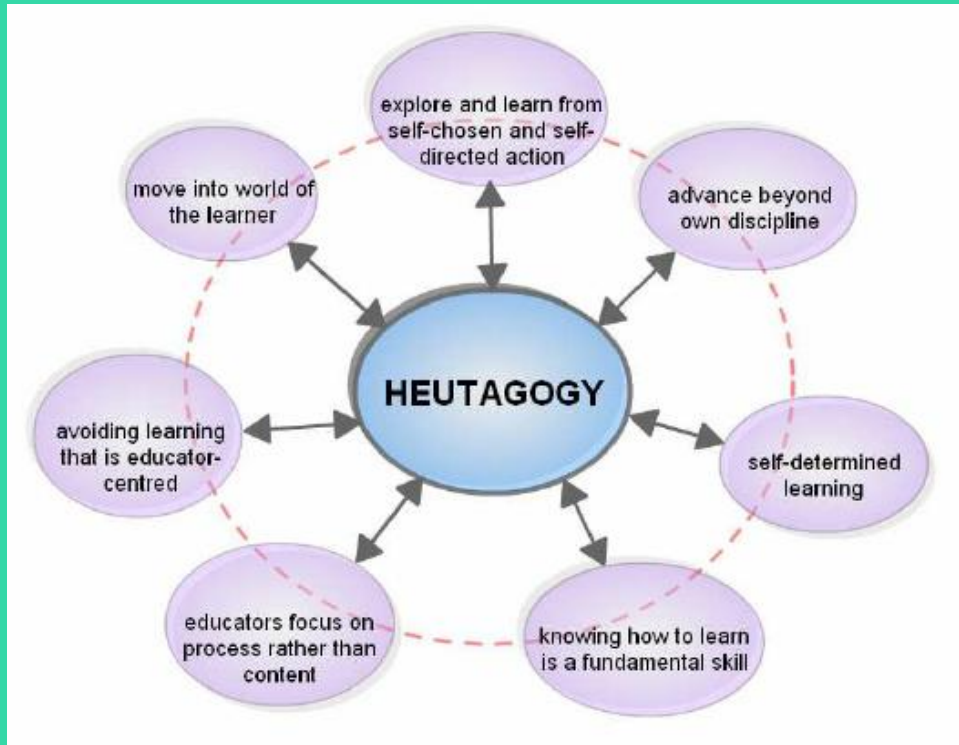


• • • • •
• • • • •
• • • • •
• • • • •

**I THINK
ABOUT
PETE**

I THOUGHT ABOUT HEUTAGOGY

DEVELOPED IN 2000





**I AM
HELPING
TO BUILD A
WORLD
WHERE...**

...we

Simulate
Every day Events

Not just
SEXY STUFF



...we

Allow learning
by doing, and
reward self
direction



...Where we
maximise
experiential
Technologies

Exposing students to every day
Awkwardness.





Wearables – Human factors and procedural

Catheterisation



AVBIRTH

Birthing

MDT GLOBAL DEMO

A red ribbon banner with the word "new" in white lowercase letters.

I IMAGINE A WORLD

where

Task Trainers are
Affordable



I IMAGINE A WORLD

MADE USING REAL DATA

WE CREATED FACIAL SUTURING
TASK TRAINER WITH THE USE OF
MRI AND PHOTOGRAMMETRY DATA.



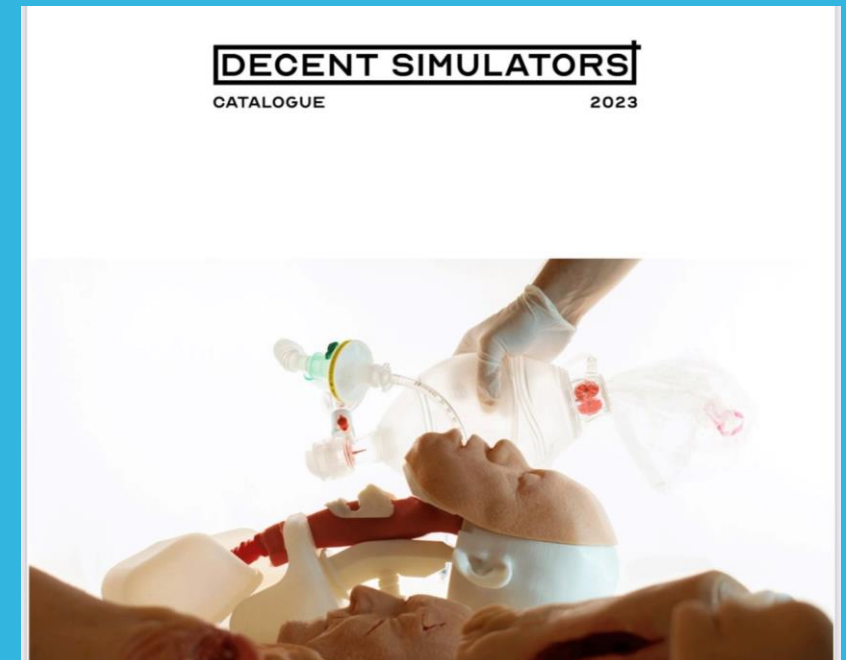
where

Task Trainers are
3d printable

Emailable

Downloadable

AND SO SO
CLEVER...





**I IMAGINE A
WORLD OF**

LEARNERS


NOT

TEACHERS



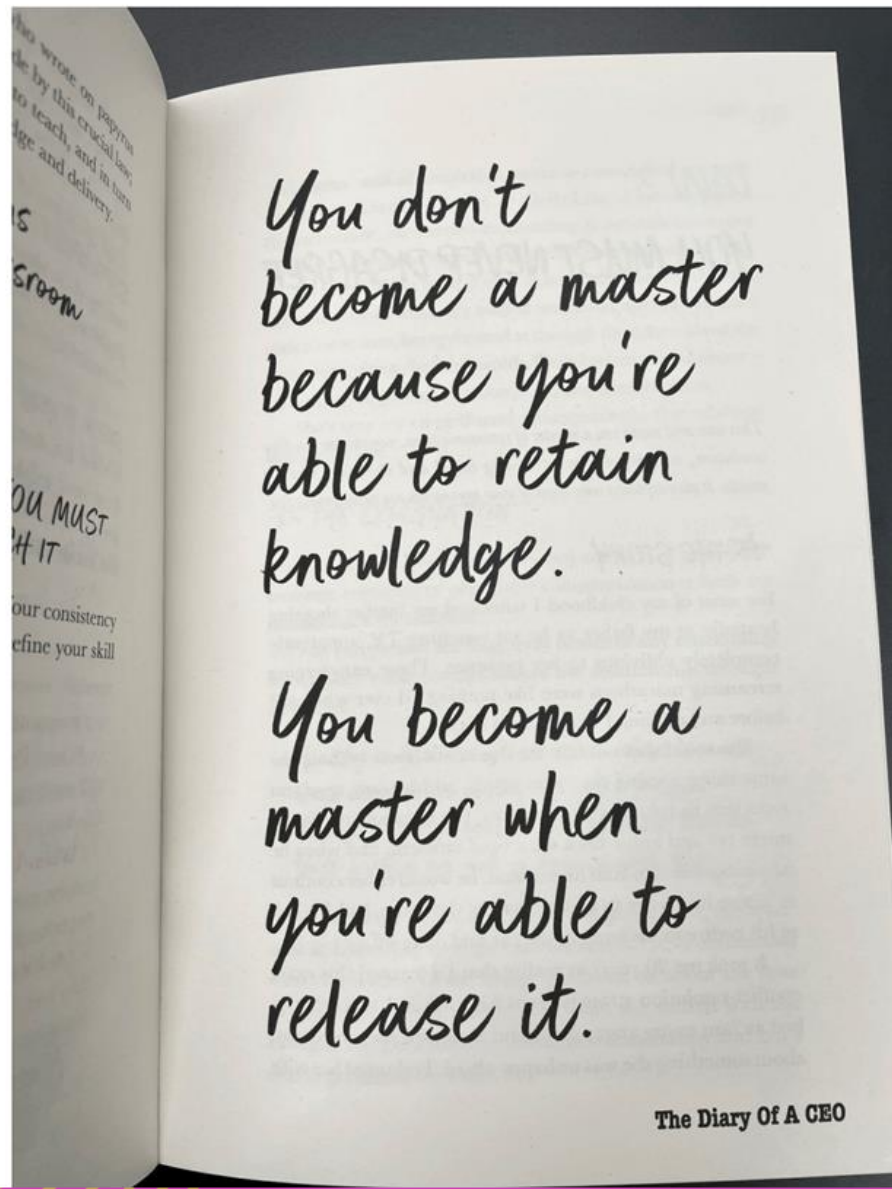
Steven Bartlett  • Following

Building: Thirdweb & Flight Story & The Diary Of A CEO

14h • 

The secret to becoming the BEST in your game...

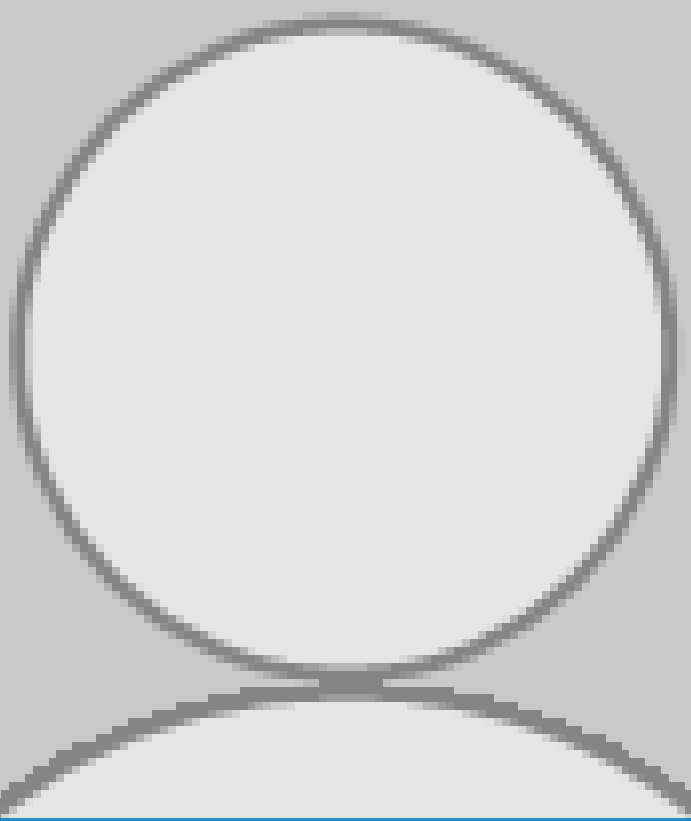
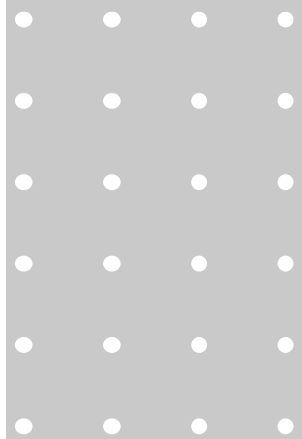
[...see more](#)



You don't
become a master
because you're
able to retain
knowledge.

You become a
master when
you're able to
release it.

The Diary Of A CEO



Q&A

Davehalliwell@lifecastbodysim.com

THANK YOU...

**PLEASE FIND ME
ON
LINKEDIN**

DAVEHALLIWELL@LIFECASTBODYSIM.COM

THANK YOU...

**PLEASE FIND ME
ON
LINKEDIN**

DAVEHALLIWELL@LIFECASTBODYSIM.COM

**THANK YOU...
PLEASE FIND ME
ON
LINKEDIN**

- <https://heutagogycop.wordpress.com/history-of-heutagogy/>
- https://www.researchgate.net/publication/340413627_History_of_Heutagogy_as_a_self-determined_learning
- Bandura A. Social learning theory. General Learning press, New York 1977
- Knowles M. The adult learner: A neglected species. Gulf, Houston, TX 1988
- Mezirow JE. Fostering critical reflection in adulthood: A guide to transformative and emancipatory learning. Jossey-Bass, San Francisco, CA 1990
- Piaget J. The origins of intelligence in children. International University Press, New York 1952