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Fearn, Warren (2022) Blurring the lines:
Augmenting educational experiences for a hybrid environment. In:
YORK DESIGN WEEK : Blurring the lines, 15th October 2022,
SPARK venue, York. (Unpublished)

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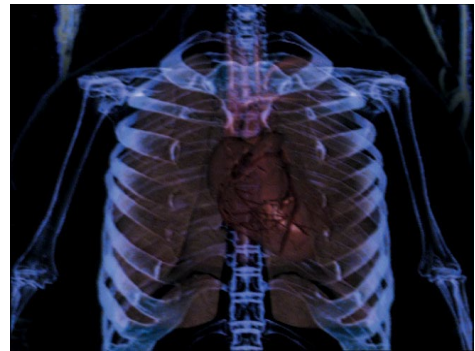
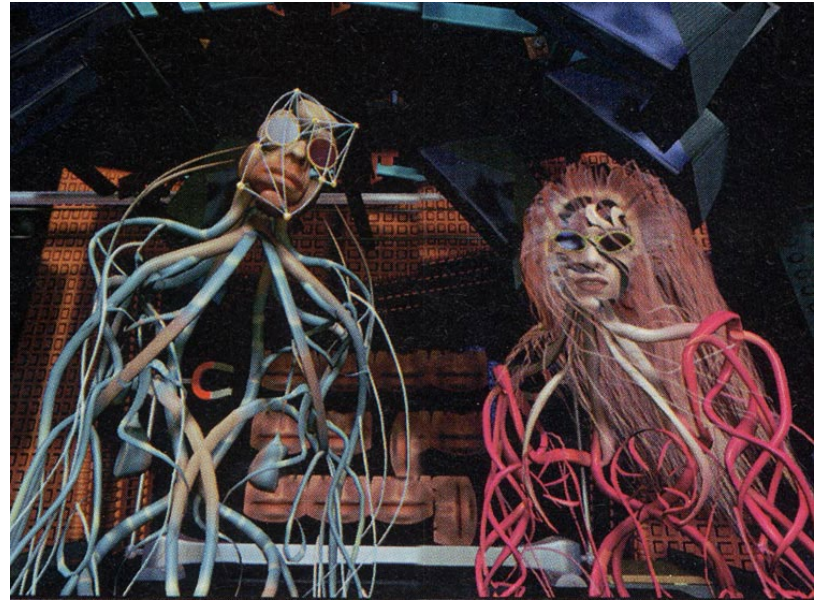
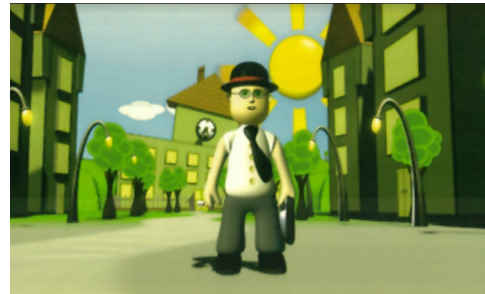
York Design Week 2022

Blurring the lines: Augmenting educational experiences for a hybrid environment.

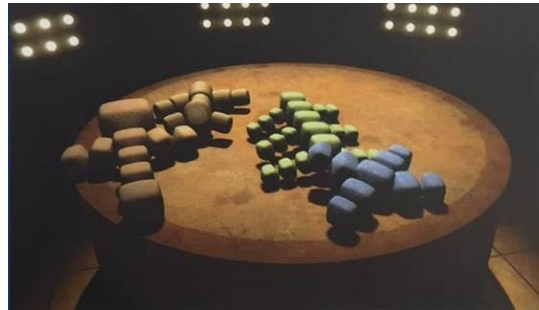
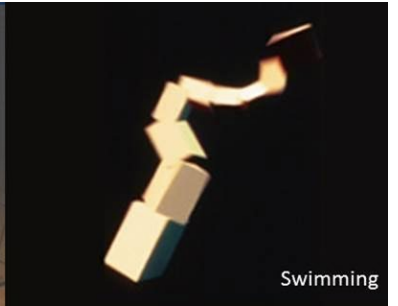
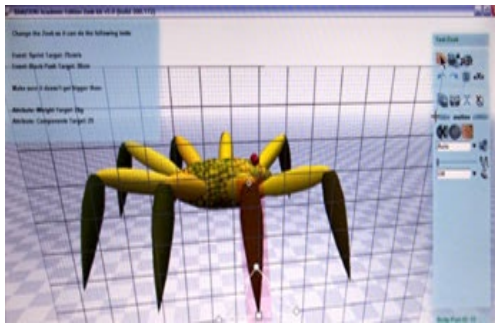
Warren Fearn
Senior Lecturer, York St John University
Ph.D. Student, University of York.

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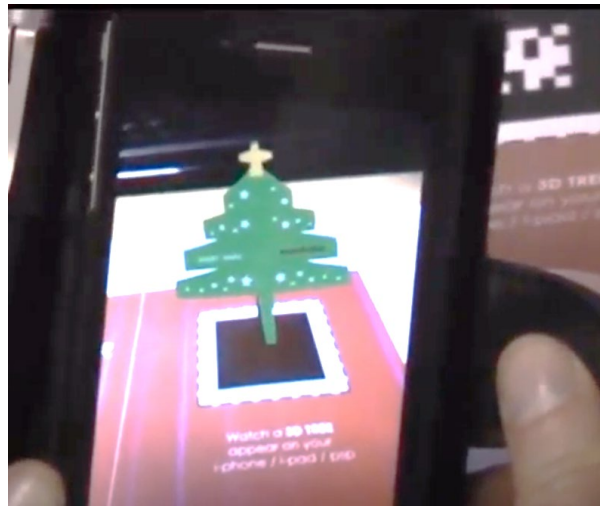





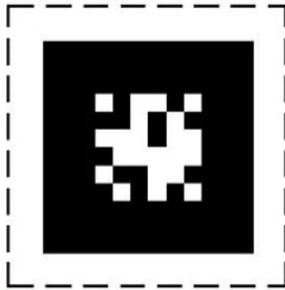
1.



2.



ARGON (Ar)

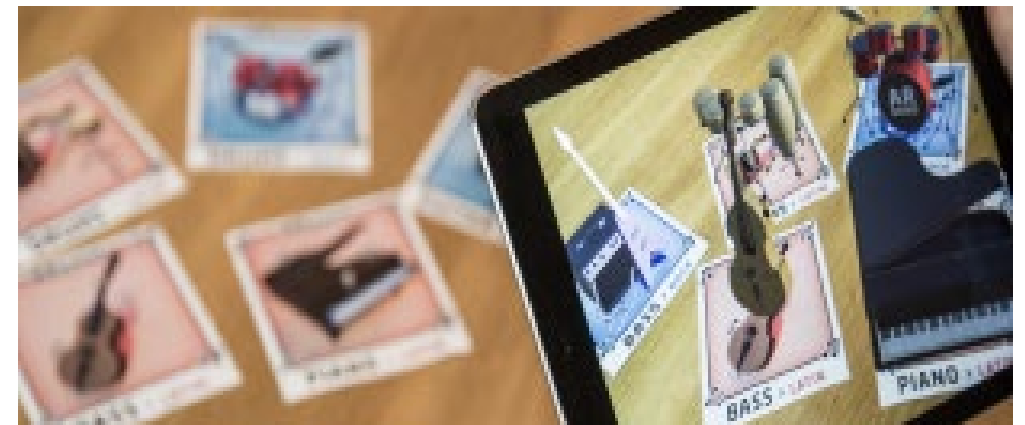
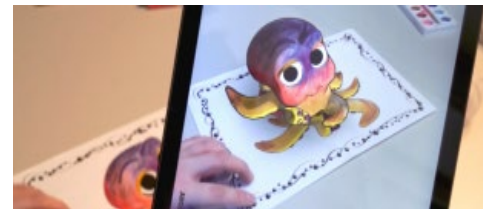
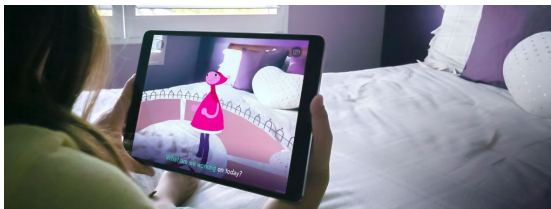
Point your **iPhone, iPod Touch** or **iPad** at the marker to view a 3D hologram

• Discovered:	1894
• Atomic Number:	18
• Atomic Weight:	39.948
• Density At 0 C:	101.325 kPa
• Boiling Point:	-189.35 C
• Freezing Point:	-189.2 C

Argon (symbol Ar) is a colorless and odorless gas, makes up 0.93% of our planet's atmosphere. This makes it the third most abundant element in our atmosphere after nitrogen and oxygen. It is a noble or 'inert' gas, found in group 18, period 3 of the periodic table which does not react with other elements under normal conditions.

Uses: You can find Argon used in light bulbs, lasers, double glazing for home and even scuba dry suits!





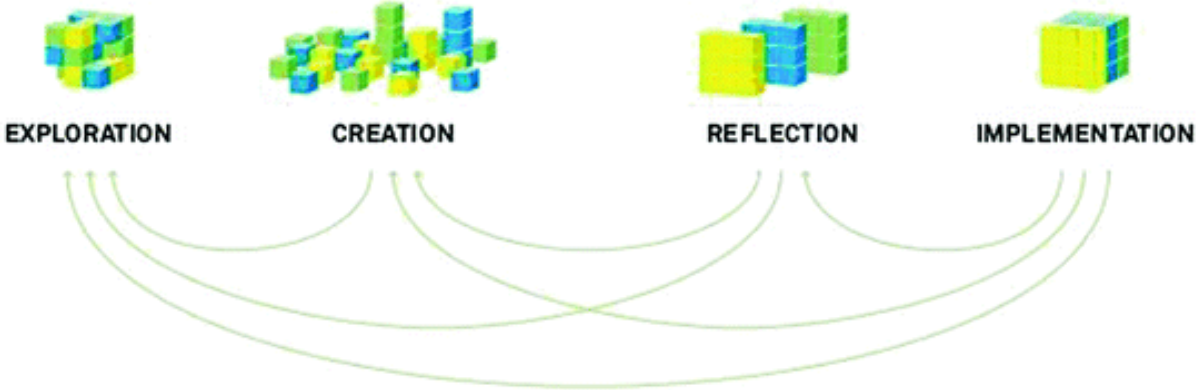
4.



- Educators and designers need to collaborate in terms of creating sound pedagogy to develop AR applications that maximise on learning outcomes
- How can AR create new experiences outside of the classroom?
- What are the barrier and opportunities for using augmented reality within schools?



Service Design Thinking Process



- 1. User Centred
- 2. Co Creative
- 3. Sequencing
- 4. Evidencing
- 5. Holistic

Stickdorn, Hormess, Lawrence and Schneider (2018)
This is Service Design Thinking

Stakeholders



Nicky Waller

Primary Science Advisory
Teacher at CIEC (Centre for
Industry Education
Collaboration)
University of York



Dean Finnegan

Senior Animator / Rigger
Sydney



Dr Yang Lu

Lecturer in
Computer Science
York St John University



Tim Moat

Director of Communications
and Development
Ebor Academy Trust
York



Ned Griffiths

Graduate Research Assistant
UNREAL Developer
York St John University



**Associate Professor
Dr Katy Bloom**

Associate Professor of Initial
Teacher Education,
School of Education,
Languages and Psychology
York St John University



Jake Reeves Kemp

Computing Specialist Lead
Ebor Academy Trust
York



Emma Davies

Science Academy Leader
Ebor Academy Trust
York



John Ricketts

Audio Engineer
Music Production and
Creative Business Student,
York St John University



Ebor Academy Trust

Pupils - Keystage 2



**CENTRE for INDUSTRY
EDUCATION COLLABORATION**

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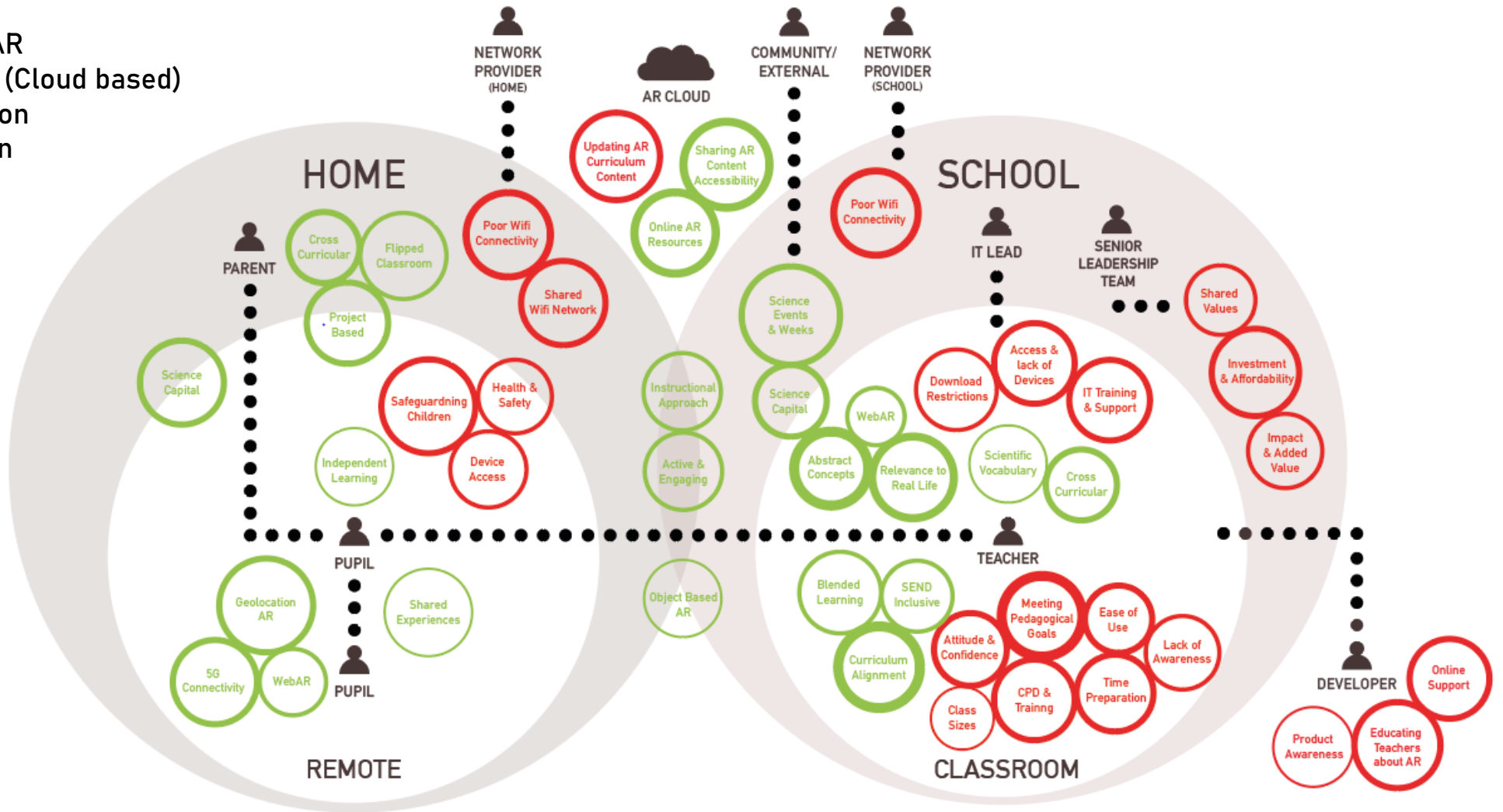
Exploration: Empathy Canvas Maps



Exploration: Augmented Reality Service

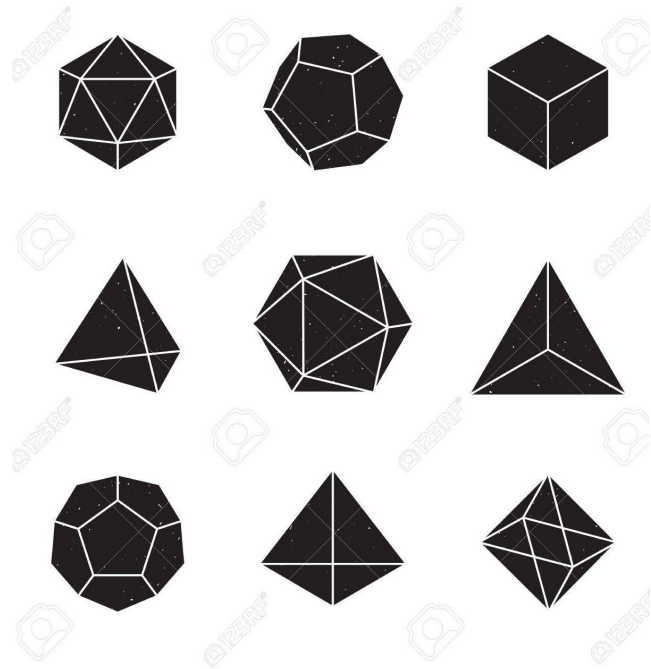
- / Science Event & Week
- / Science Capital
- / Introduction in AR
- / Change Content (Cloud based)
- / Image Recognition
- / Time Preparation
- / Deep Dive
- / Active Learning
- / Group Work
- / Accessibility
- / Confidence

KEY:





Creation: Concept Work



Creation: Storyboarding

3.

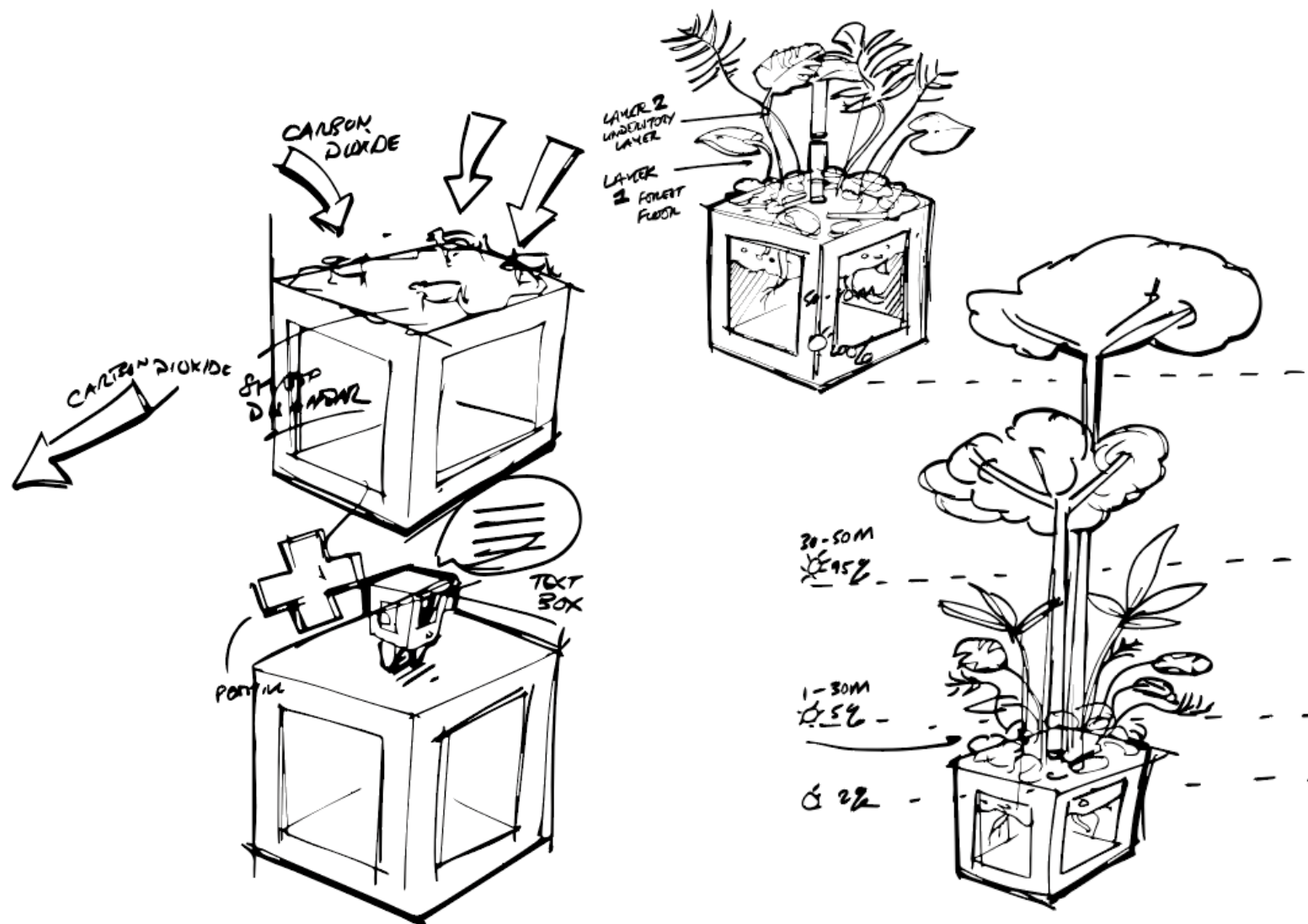
Narration:

(12 Seconds) Located above the forest floor is the understory layer. Small shrubs and trees can grow here.
FRAMES 1525 - 1825 Understory plants often produce flowers that are large and easy to see.

(Animate the visibility of each layer)

(12 Seconds) The canopy layer forms a dense network of leaves and branches as a roof over the two remaining layers. With so much food available, more animals live in the canopy than any other layer in the rainforest.
FRAMES 1825 - 2125

(11 Seconds) The top layer of the rainforest is the emergent layer, where trees can grow up to 60 metres tall due to larger amounts of sunlight. Here, you will find living bats, butterflies and awaiting predators such as hawks and eagles.
FRAMES 2125 - 2400





Creation: Concept Work



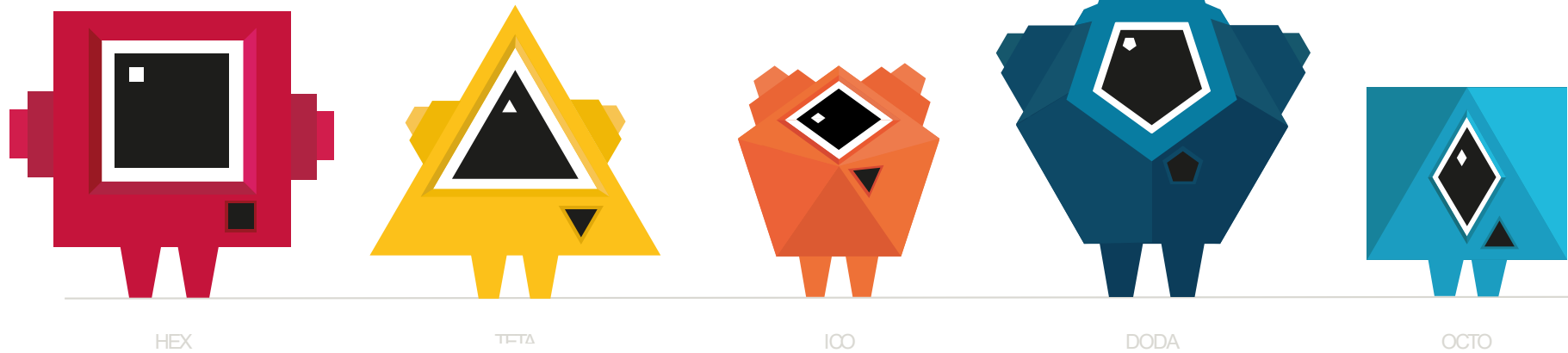
1. Questions / 2. Discussion / 3. Video / 4. AR / 5. AR interactive / 6. Quiz

14.

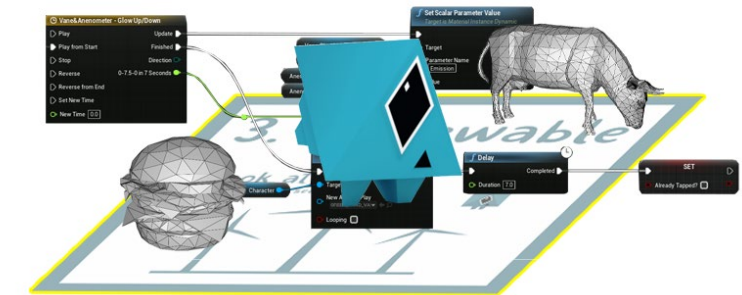
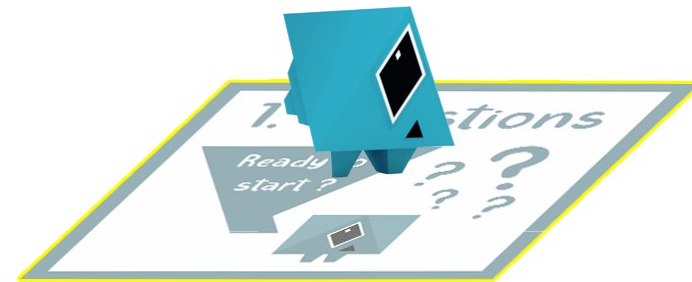
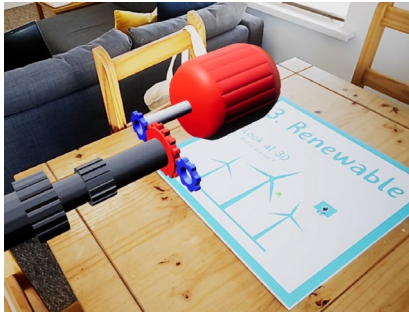




Creation: Characters

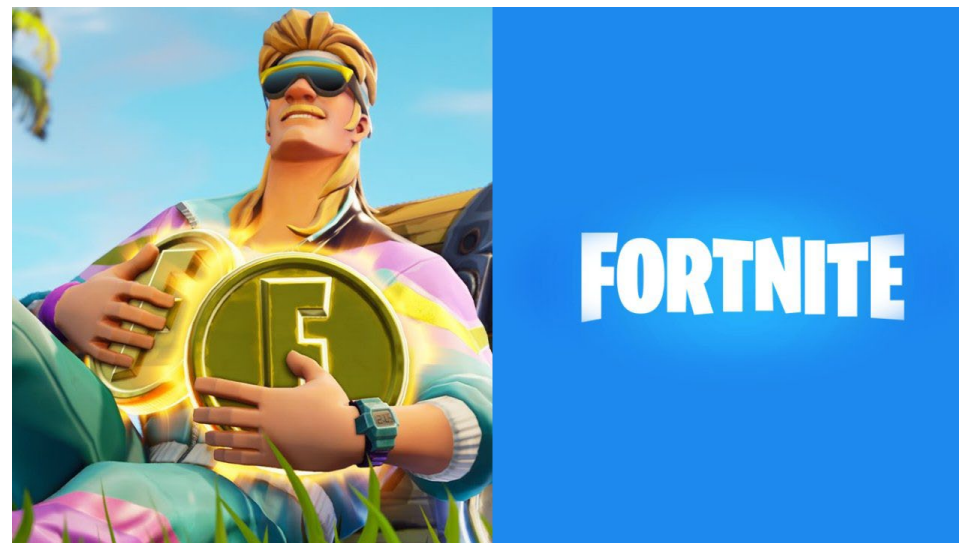


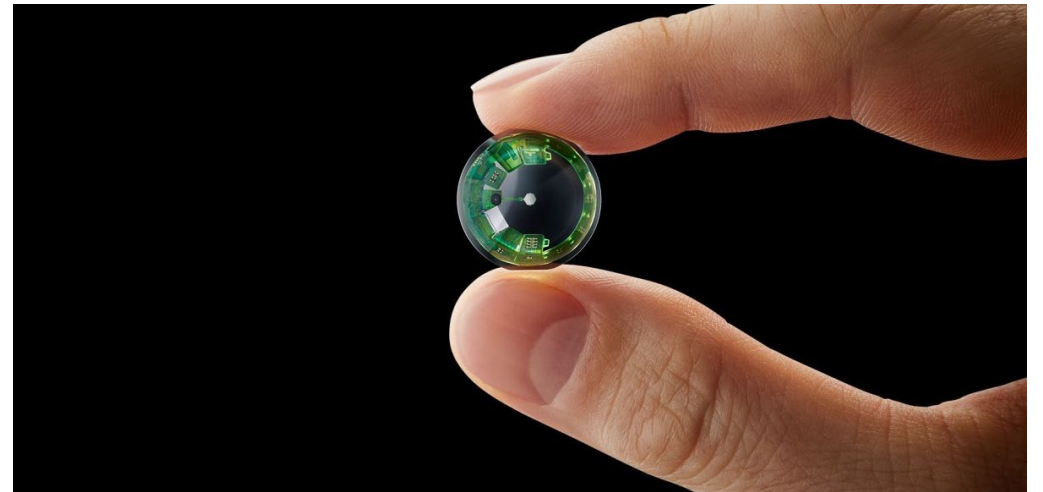
Creation: Mechanics





SECOND LIFE.
Who remembers?





METAVEVERSE



How do we define it?

Thank you.



Contact:
Warren Fearn
w.fearn@yorks.ac.uk

