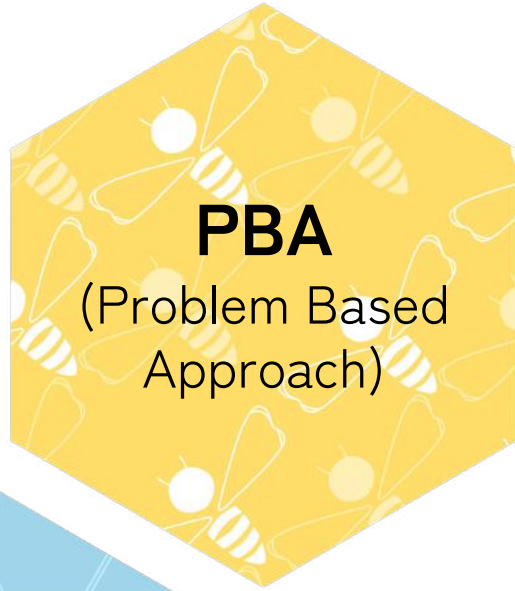




Hachi

Augmented Reality for the
Visualization of Abstract Knowledge

By 11chips

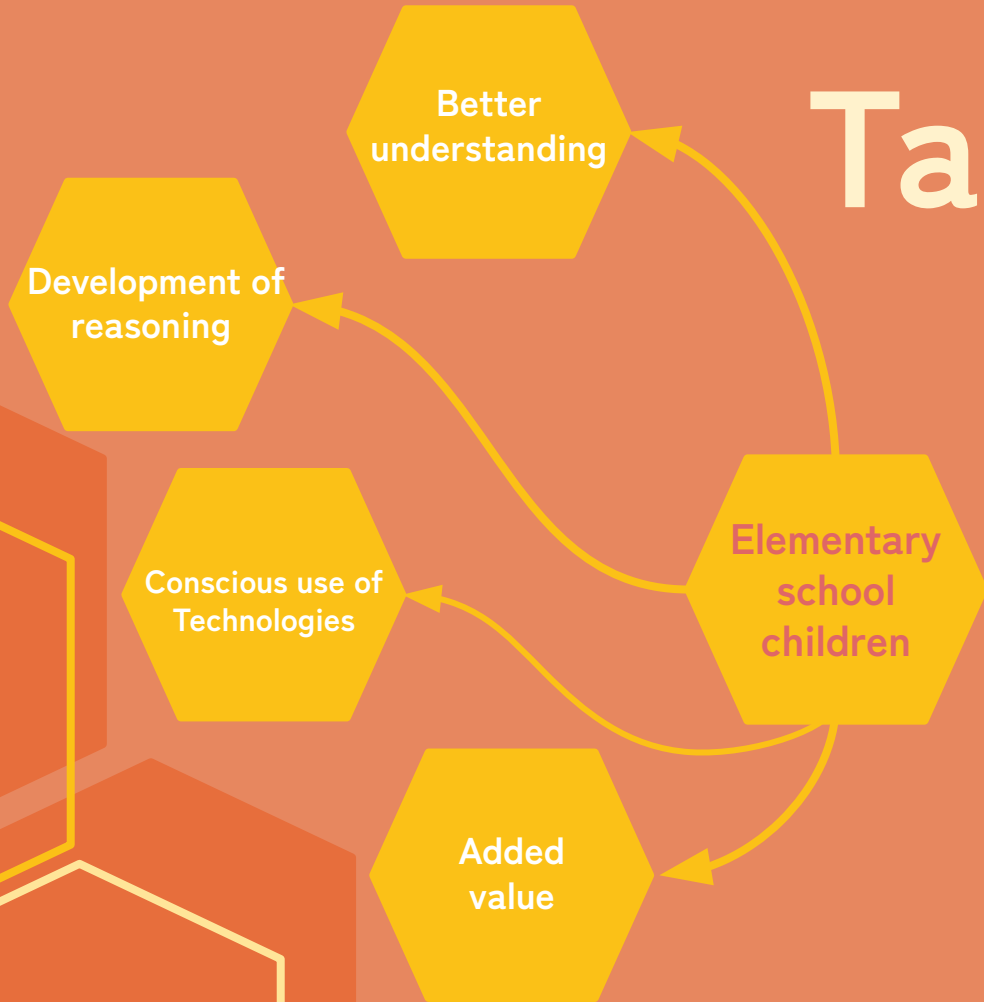


Framework

New Learning Model
Innovative Teaching Strategies



Target



Users

- Students
- Adults
- Learners
- Teachers

MUSE

Context

Use

Schools

Museums

Personal Use



Solution description

蜂

(Hachi)

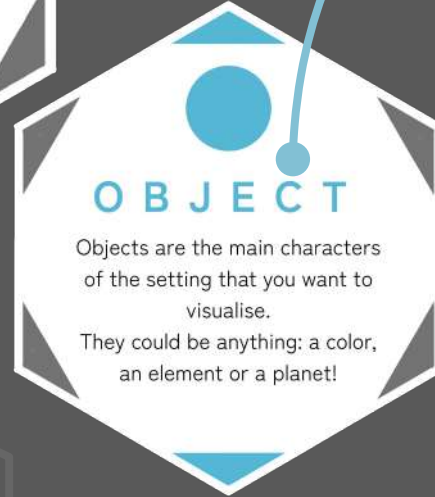
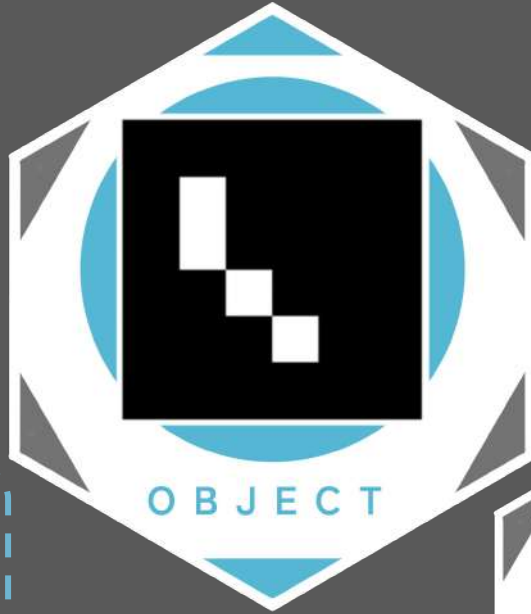
bee *noun*



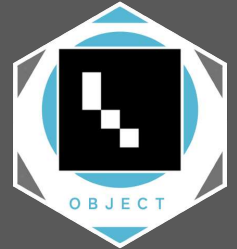
HEXAGONAL SHAPE



- modularity
- more layers of complexity
- collaborative approach



FUNCTIONS

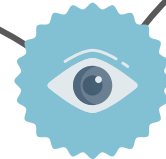


Cards

How

Smartphone/
Tablet

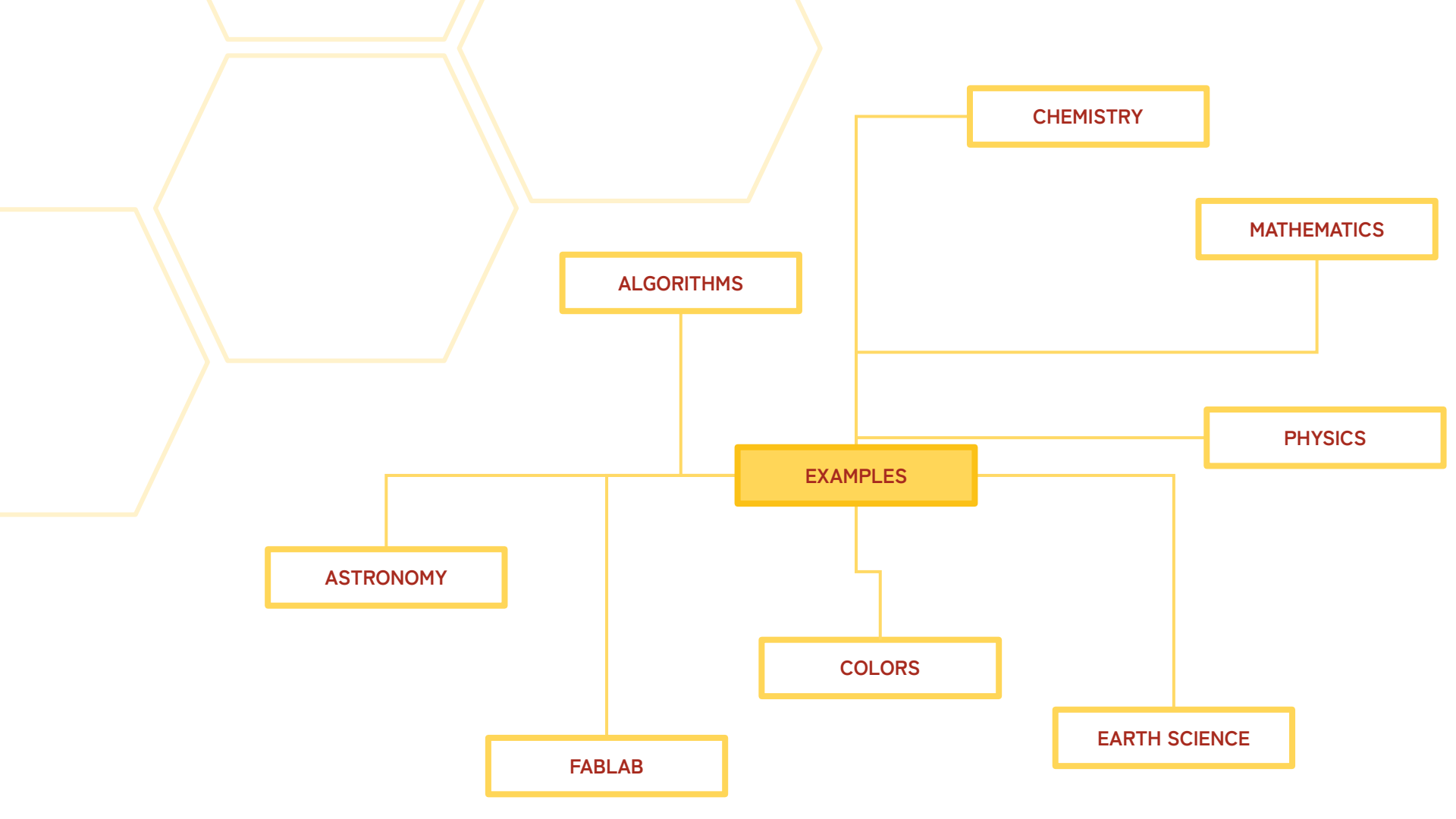
B.Y.O.D.
Bring Your Own Device



**Augmented
Reality**

Visualization





CHEMISTRY

MATHEMATICS

ALGORITHMS

PHYSICS

EXAMPLES

COLORS

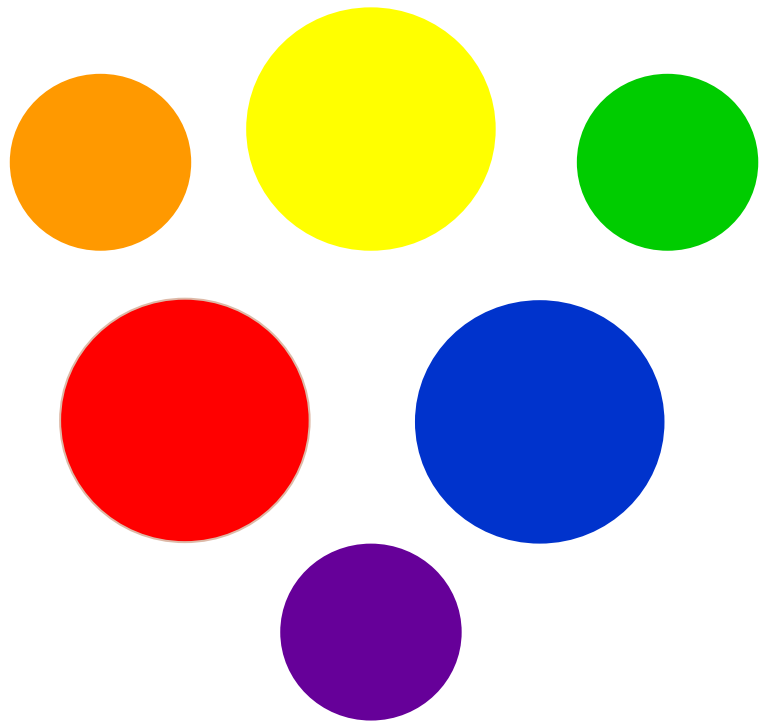
EARTH SCIENCE

FABLAB

ASTRONOMY

MVP:

COLORS





HACHI

Augmented Reality for the
Visualization of Abstract
Knowledge

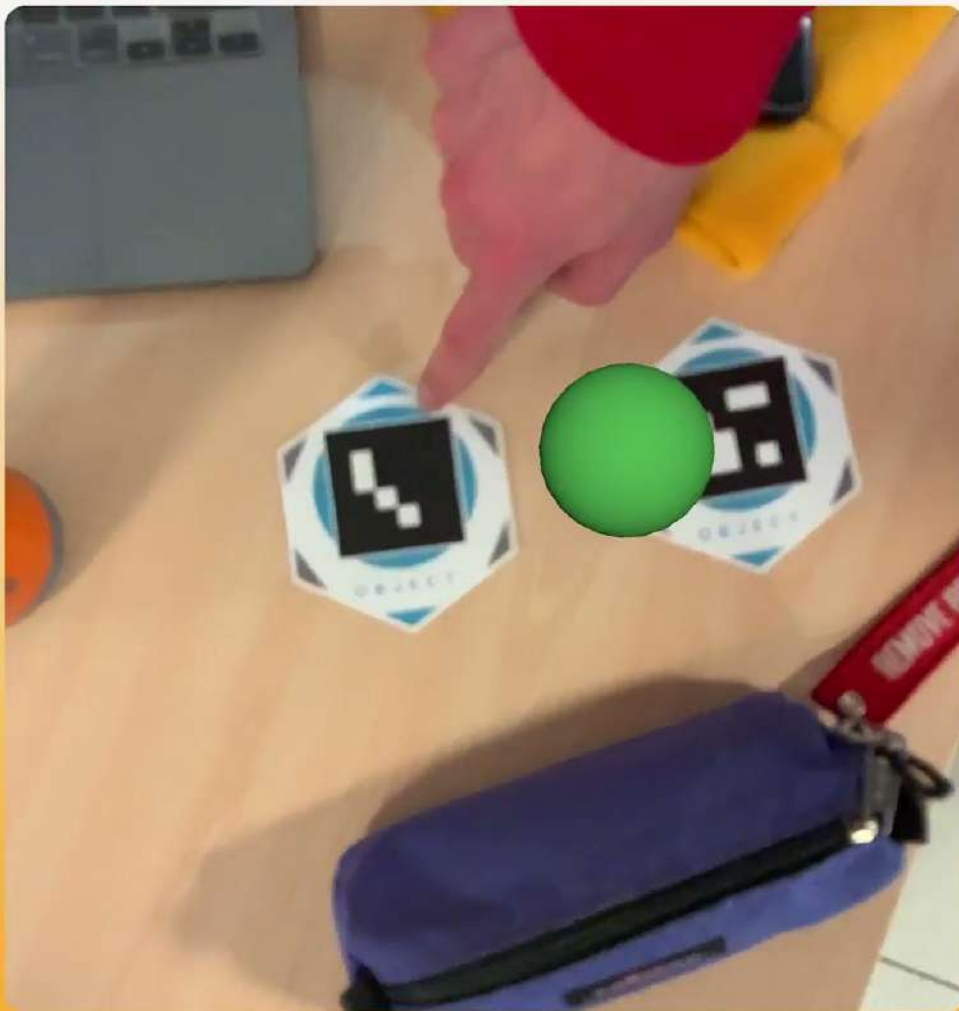
Teresa Rizzi

Giulia Paludo

Martina Vincoli

Riccardo Carretta

Francesco Coppola



01 **Visual Representation**

- ★ Better comprehension

02 **Inclusiveness**

- ★ Specific Learning Disorder
- ★ Aphantasia
- ★ Non-Experts

03 **Sustainability**

- ★ Low cost
- ★ Open Source

04 **Adaptability**

- ★ 2D, 3D, Animations

05 **Innovativeness**

- ★ New Learning Model
- ★ New Teaching Strategies

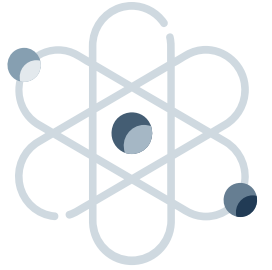
06 **Transferability**

- ★ Out of school context
- ★ Other EU states

Other Examples

The background features a yellow-to-orange gradient. Overlaid on this are several light blue hexagonal outlines of varying sizes and positions, some overlapping each other, creating a geometric pattern.

EARTH SCIENCE



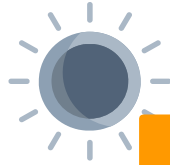
Water

Hot

Cold

Steam

Ice



ASTRONOMY

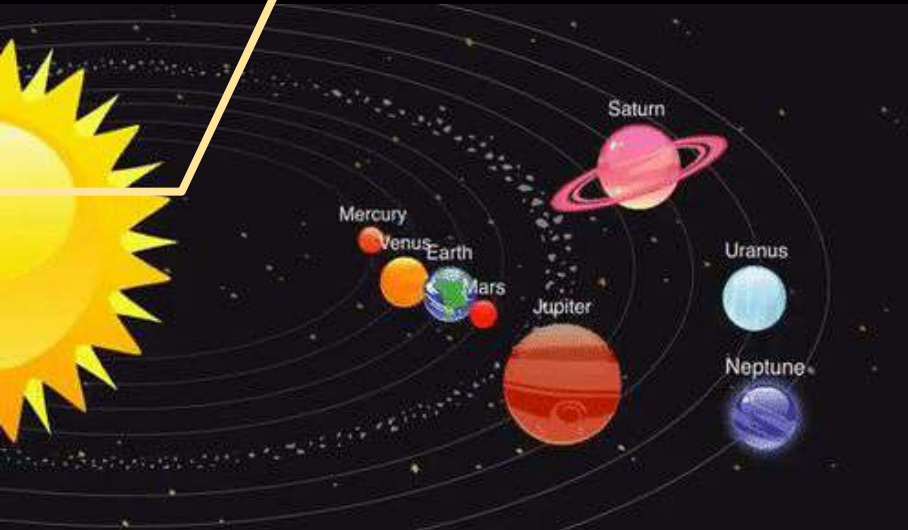
Sun

Earth

Mars

Jupiter

Saturn



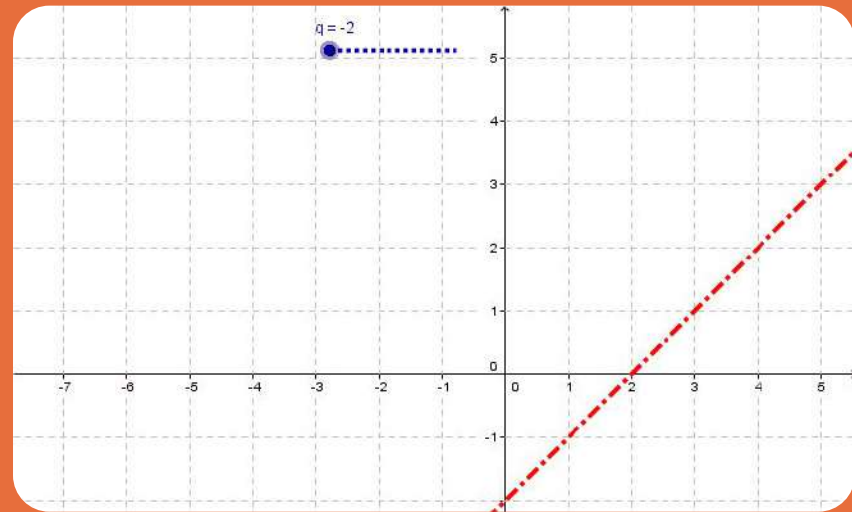
MATHS

Straight Line

q

mX

Operators



PHYSICS

Objects

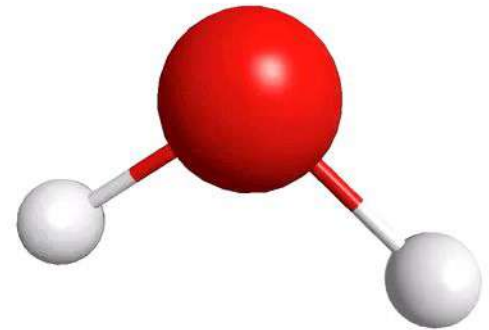
Gravity



CHEMISTRY

Molecule structure

Chemistry reactions

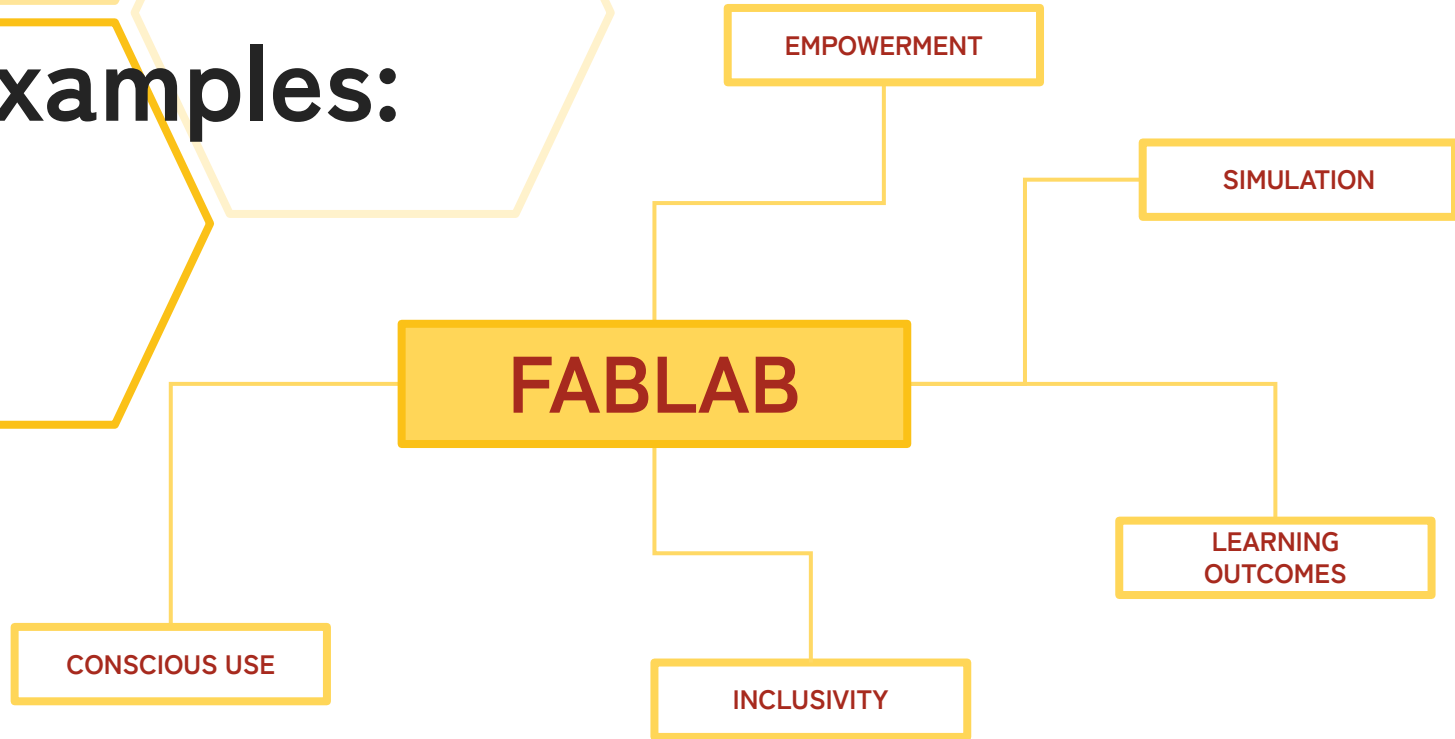


H

H

O

Other examples:



UNIVERSITÀ
DI TRENTO



FAB
LAB
UNITRENTO



Business model



UNIVERSITÀ
DI TRENTO



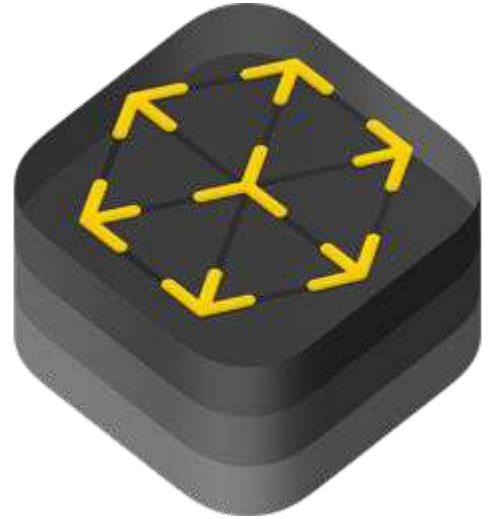
FAB
LAB
UNITRENTO



Technical Info



Flutter



Educational Bundles

The background features a honeycomb pattern with various shades of yellow, orange, and blue. Interspersed among the hexagons are illustrations of bees and dashed lines representing flight paths.

Advanced

Intermediate

Basic

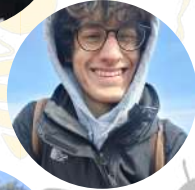


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