

VIBE PROJECT

Virtual Biomedical and STEM/STEAM Education

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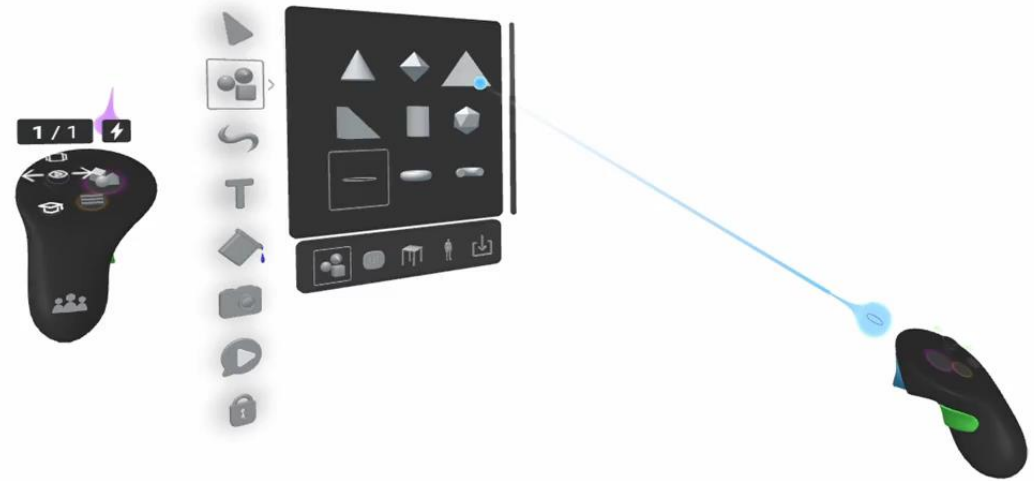
Shapes XR

Extended Reality in healthcare
and medical education



➤➤➤ What is Shapes XR?

- 3D design and modelling platform
- Drawing in 3D - simple and easy way to bring your ideas to life
- View and interact with models as if they were part of your room/office
- Export directly to game engines and other modelling software
- Work together with or present to others



>>> Your creations come to life



➤➤➤ Availability

- Developed by Meta
- Available on:
 - Quest 2, 3
 - Meta Quest Pro
 - Pico 4



➤➤➤ Collaboration

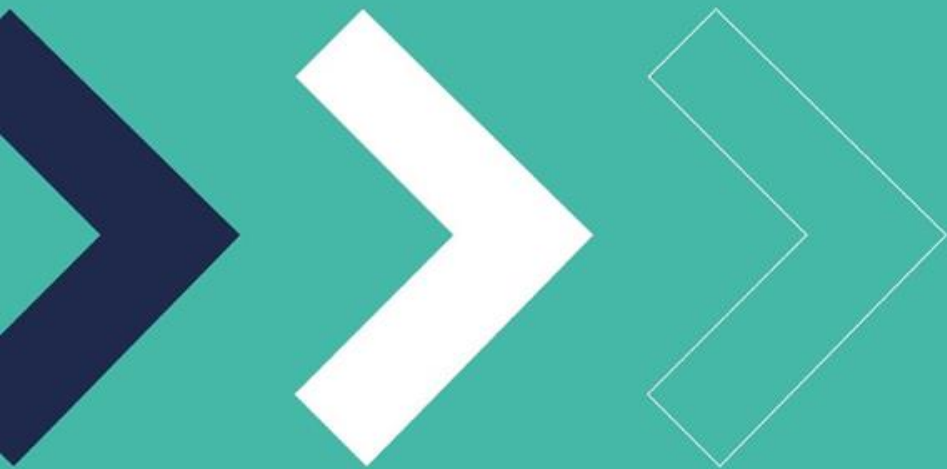
- One of the main design focuses
- Easy and quick connection to others
- Real-time interaction
- Design and test together
- Controlled presentation mode





Collaboration



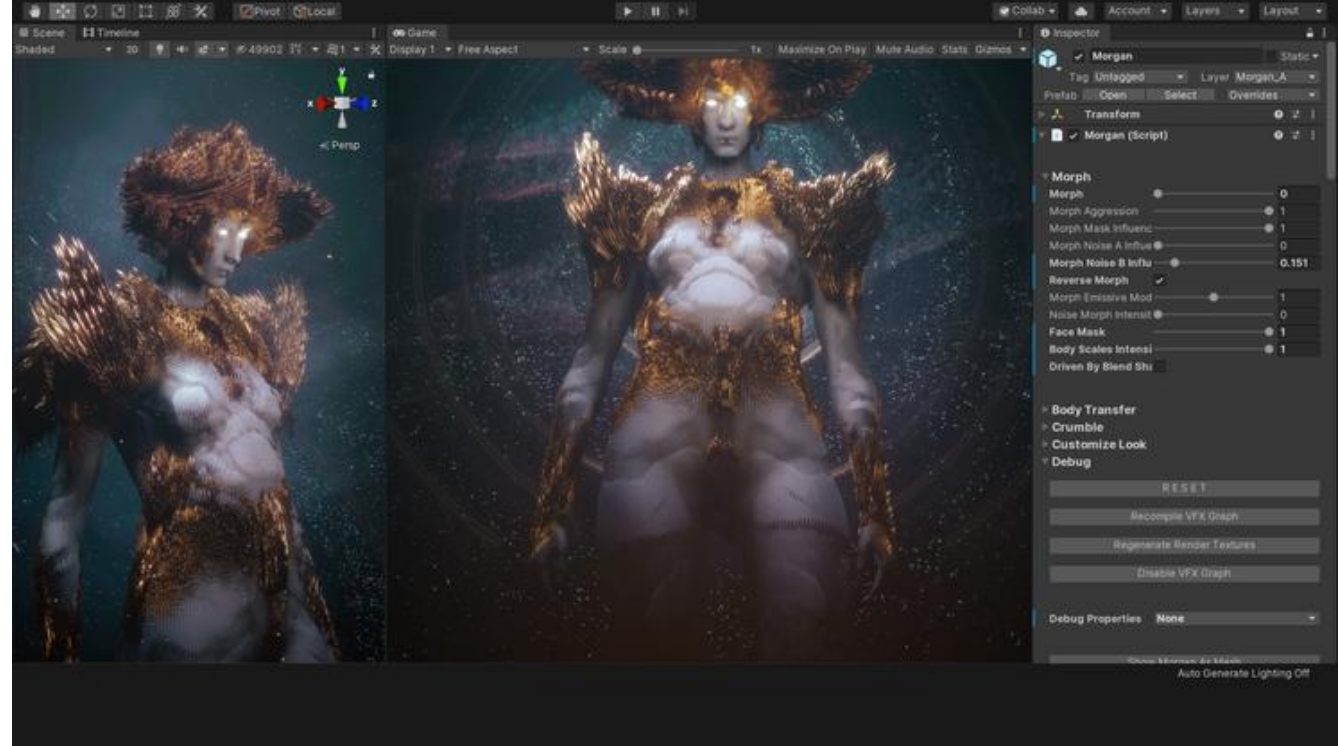


ShapesXR Unity Integration



Unity

- Real-time development platform
- Game engine
- Free to use for students and hobby developers
- Custom plans available for professional use
- Developed and maintained by Unity Technologies
- Supports creating in 2D, 3D and VR/AR
- Build games for Windows, Linux, Android, macOS, iOS



➤➤➤ Shapes XR Plugin

- Allows you to import your models to Unity
- Supported file formats:
 - GLB
 - glTF
- Edit your models as any other object in Unity
- Add interactions, scripts, particle systems, etc.

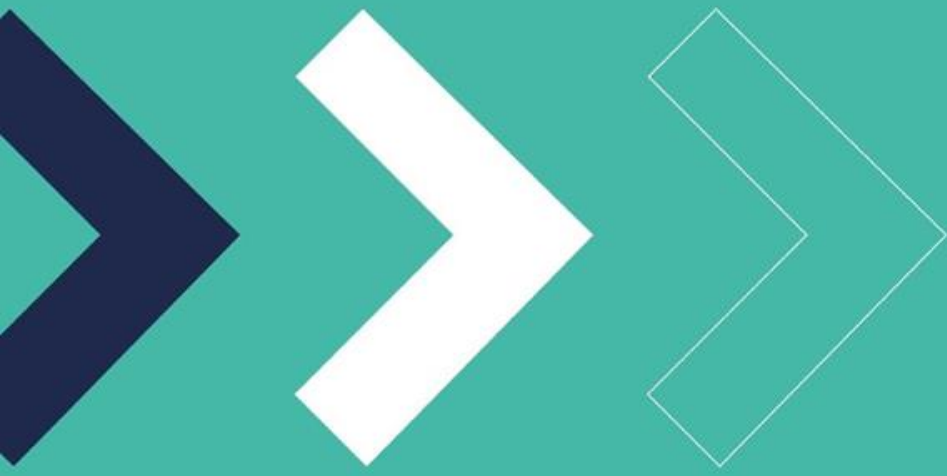


➤➤➤ Using the plugin

- Download the plugin package
- Create a new 3D project in Unity
- Import TextMeshPro Essentials
- From the Assets menu import the ShapesXR Unity Integration as a custom package

- To import your space you have to open the importer window by going to ShapesXR -> Importer
- You can import your space by inputting the 8 character access code in the importer





Shapes XR - CAE

Immersive experiences for the
healthcare industry





CAE Inc.

- Canadian Aviation Electronics (former)
- Industry leader in simulation based healthcare technologies
- Simulation and modelling software and hardware for
 - Airlines and aircraft manufacturers
 - Defence industries
 - Healthcare



➤➤➤ The future of healthcare education?

- Immersive, interactive environment
- Learn by experience
- View from any angle
- Low cost
- Working together, real-time, but risk free





Education and healthcare



- Simulators for students and industry professionals
- Planning and practicing
- Testing, correcting ideas and methods
- No practice material or „real” patient needed

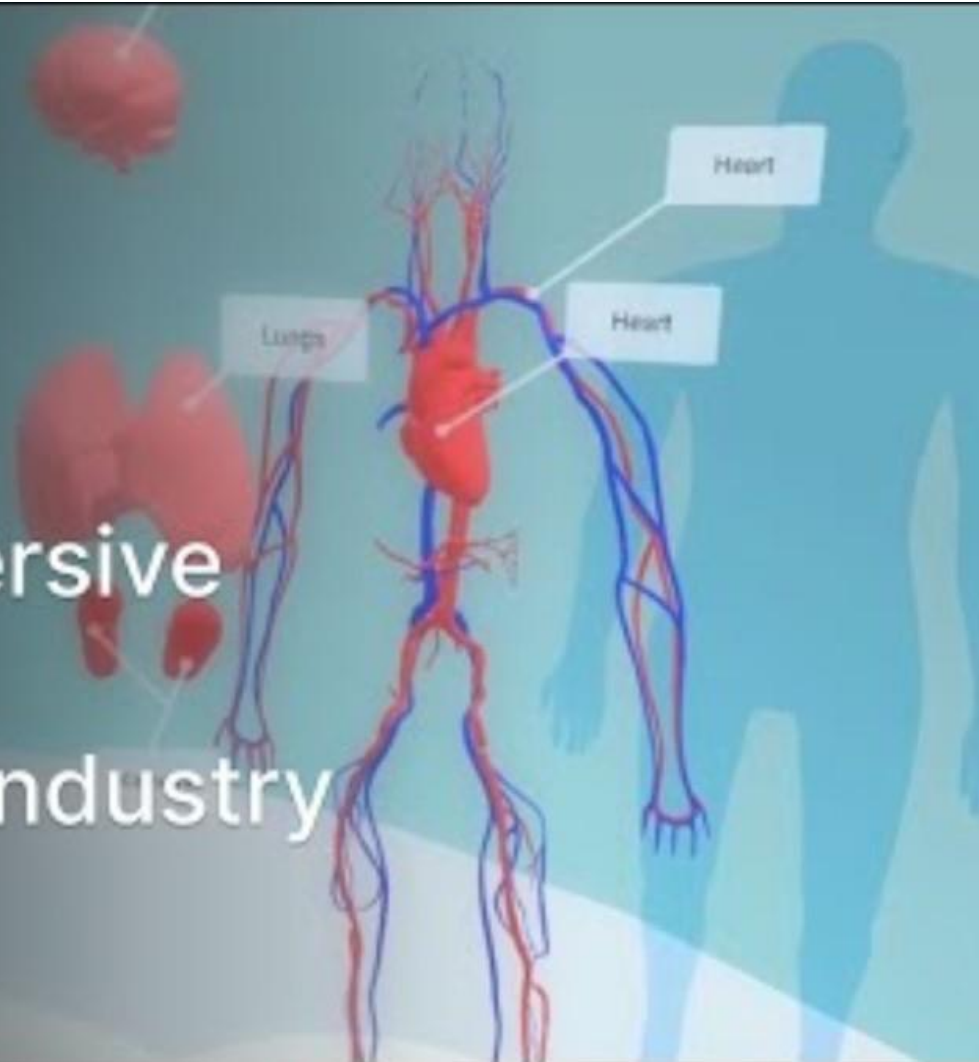


➤➤➤ Shapes XR - CAE

Shapes^{XR} CAE

CASE STUDY

Designing immersive experiences for the healthcare industry



Sources

[Shapes XR website](#)

[CAE Hungary website](#)

[Wikipedia – CAE Inc.](#)

[Youtube – ShapesXR](#)

[Unity.com](#)

All images and media files used in the presentation are from the websites listed above, my own screenshots, or stock images available for free





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