

# VIBE PROJECT

## Virtual Biomedical and STEM/STEAM Education

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## Medium by Adobe

Create 3D in 3D



# ➤➤➤ What is Medium?



- 3D sculpting and modelling software
- Best for hobby artists and students
- Stamp Library - modify existing shapes to your needs
- Studio Share
  - Show your creations to your audience
  - Co-create with other artists
- Create highly detailed models
- Use Adobe's tools to bring your models to life



# ➤➤➤ Availability

- Free software
- Compatible VR headsets:
  - Oculus Rift
  - Oculus Rift S
  - Meta Quest 2 and 3 using Quest Link
- No wireless options
- Oculus Touch controller
- System requirements might restrict availability



# ➤➤➤ System Requirements

- Medium runs on your computer using the VR headset as a display and input device
- Requirements as listed by Adobe:
  - CPU: Intel Core i5 7400 (or equivalent)
  - GPU: Nvidia GTX 1060 or  
AMD Radeon RX 480
  - Memory: 16GB DDR4
  - OS: Windows 10





# Oculus and Adobe

- Oculus Medium
  - Original version
  - No longer available
- Medium by Adobe
  - Adobe acquired Medium
  - New name
  - Major update - new features and UI



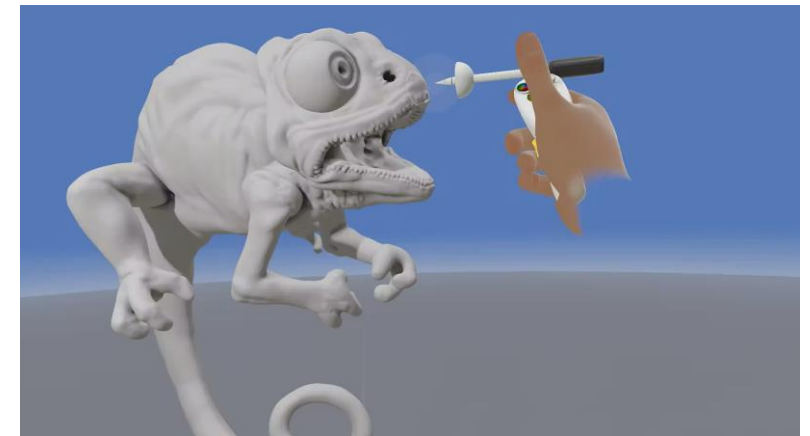
# ➤➤➤ Adobe compatibility

- Medium is compatible with other Adobe software
- Export 3D models to view and edit using Adobe tools
- Import pictures, textures and models to use in your Medium projects



# ➤➤➤ There and back again - dimensions

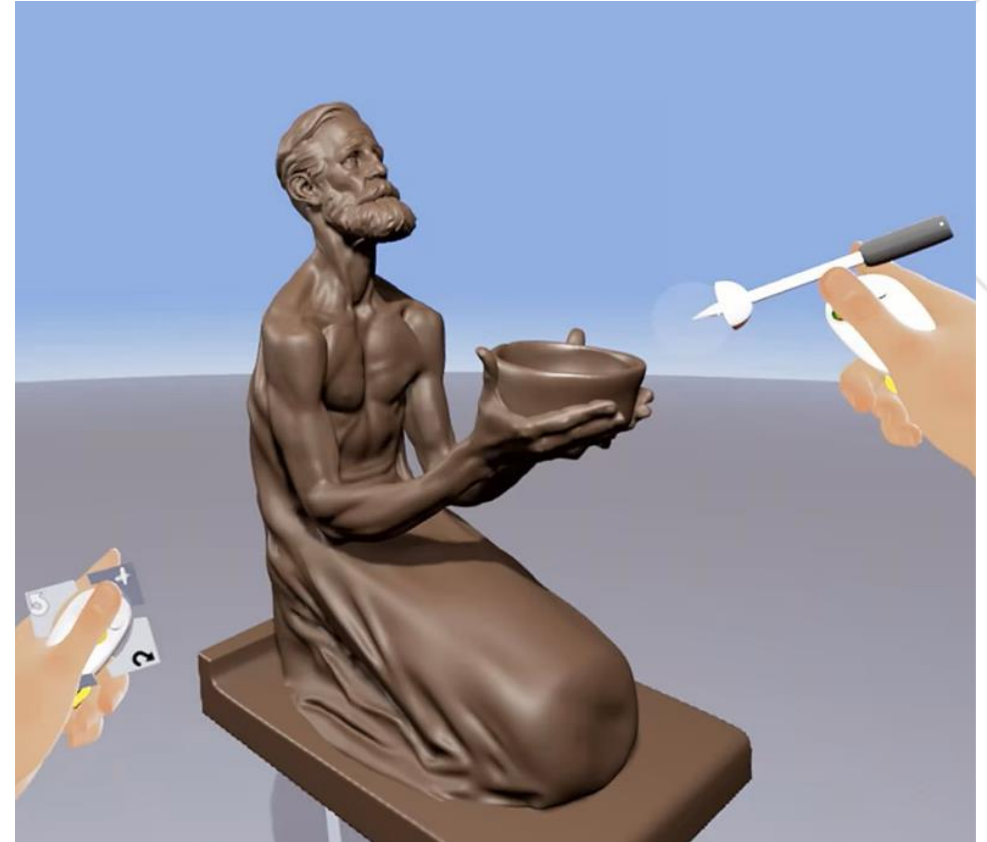
- Adobe's tools for your full project
  - Create a sketch of your idea – Photoshop
  - Create the models
  - Add colour and textures
  - Add realistic lighting and create your final picture





# ➤➤➤ Sculpting and Drawing

- Medium by Adobe – workflow
  - Create a basic shape for your model
    - Draw your own
    - Use prebuilt shapes from the Stamp Library
  - Start perfecting the shape
    - Grab and move points on your model
    - Change the mesh while preserving the volume
  - Add details
    - Add fine details to your model using the sculpting tools

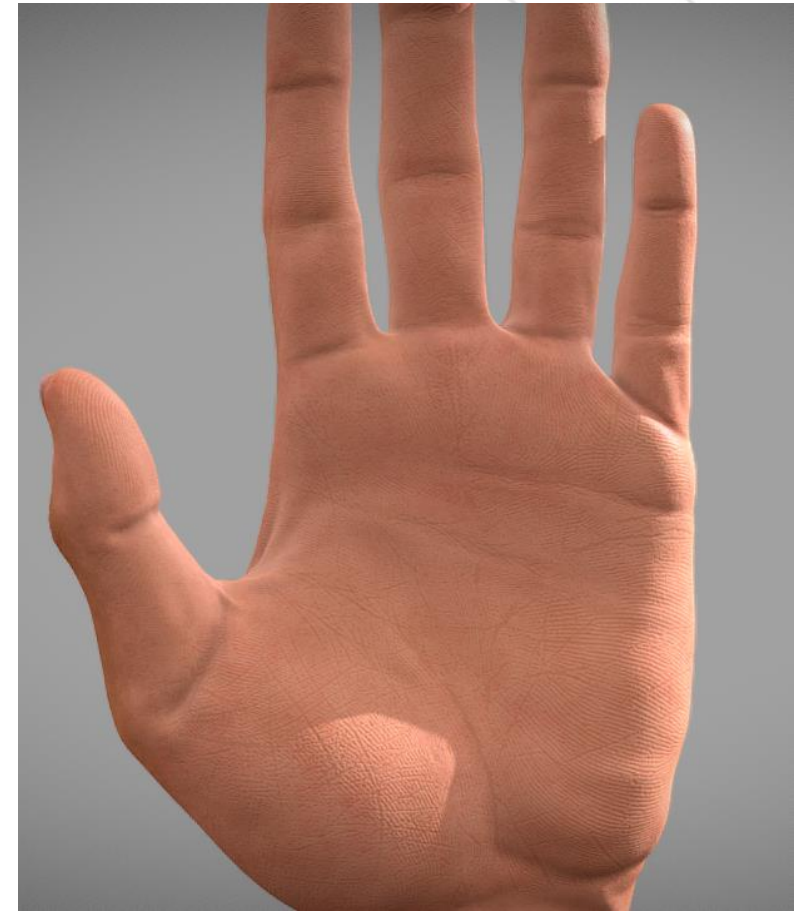


# ➤➤➤ Medical Application

- Medium is mostly used for visualisation
  - Colours are a limiting factor
  - Limited interactions with the model
  - Better options available
- 
- Possible uses include:
    - Creating highly detailed printable 3D models
    - Creating dissection models
    - Viewing models in 3D as a group



# ➤➤➤ Medical Application - examples





# Sources

[Adobe website](#)

[Wikipedia – Oculus Medium](#)

[Meta website](#)

[Sketchfab](#)

All images used in the presentation are from the websites listed above, my own screenshots, free to use 3D models, or stock images available for free





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[vibe-project.pte.hu](http://vibe-project.pte.hu)

