

# Sign Language Animation

Animating real-world characters and movements have traditionally been accomplished through complex and expensive motion capture technology, which requires a high number of specialized cameras, LED devices, and specialized suits. This current process is cost prohibitive, resulting in most uses of motion capture tech occurring in media, gaming, and entertainment spaces.

Now, through cutting-edge AI and computer vision technology, Noema offers a motion capture app tailored specifically for sign language applications. Using Computer Vision drastically reduces the cost of motion capture. The app runs on a single camera, which means no suits, no LED bulbs and no high-budgets required.



2D to 3D Animation Process

**Noema's Sign Language Animation app captures sign language gestures from 2D video and renders a 3D skeleton, which is animated onto a digital character.**

**The app is designed for sign language capture, placing increased focus on hand and finger movements.**

## Benefits



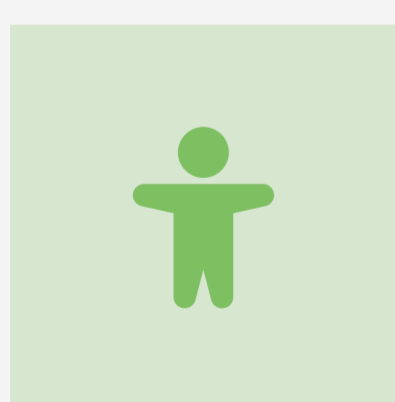
Build 3D animations from 2D video



Focus on hand and finger movement

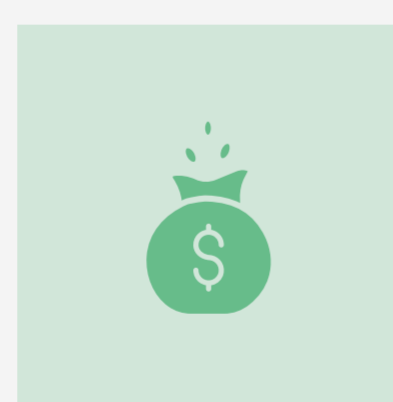


No specialized hardware required



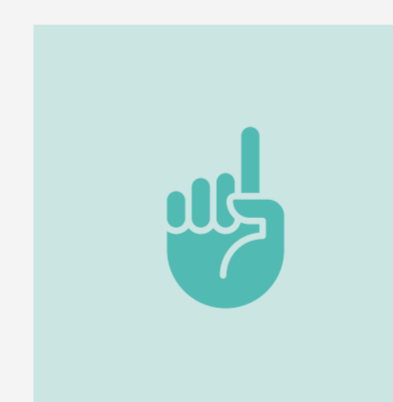
## 2D Video to 3D Animation

Noema's Sign Language Animation app delivers 3D animations of real-world video through a multi-step process. By applying the Noema algorithm to 2D videos, a 3D skeleton of specific gestures and movements will be generated and animated onto any type of digital character.



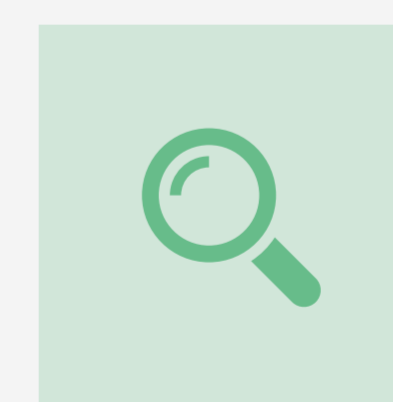
## Reduce Cost with CV

Noema's Sign Language Animation app operates on consumer or high-end server machine GPUs, and can be deployed onto a single consumer camera. Noema's app eliminates the need for multi-camera setups and LED suits and sensors, which dramatically reduces costs, reducing previous barriers to animation.



## Built for Sign Language

Noema's app is designed to generate high-quality animations from videos of people using sign language. The algorithm prioritizes hand and finger movements, ensuring gestures remain precise and specific. The Sign Language Animation app enables companies to create more accessible solutions at a lower cost.



## Complete Accuracy

The Noema team works with our clients to provide Quality Assurance to all animations, to ensure complete accuracy in all movements and gestures. Companies looking to build informative and dynamic animations for Sign Language education and translations can feel confident in Noema's solution.