

# Inspiration

## VR

- 2019 [AYAHUASCA](#)
- 2019 [Afterlife: Combining Branching Narratives With Live Actors In VR](#)
- 2017 [Alice - The Virtual Reality Play](#)

## Overview UnityTeam Digital Human Rigging & Shading

A general overview of some of the tools and workflows used and applied by the Unity Team for the creation of their state of the art Digital Human, Gawain.

### Maya File

#### Rig

They used two different rig hierarchies. One for the body the other for the head.

Body Rig: → Classical full body game rig. Skin weights up to the torso. Head Rig: → Combination of Joint hierarchy and over 200 Blendshapes.

#### Model

Non-deforming body parts like the gum don't have an optimized topology.

All the hair consists of cards. Hair is exported as a separated object and is not part of the head mesh. Its attachment to the deforming mesh happens in Unity.

### Unity Files

#### Attachment Tools

The Unity Team developed a set of very useful tools to attach elements to a deforming mesh in realtime. You can implement those tools in your own project by getting them [here](#). First an empty dataset is created.

#### Shading & Rendering

## Links

### RealTime PreViz

- 2018 [Siren \(Unreal\)](#) Siren with Actress
- 2018 [Reflections \(Unreal\)](#)
- 2018 [ForestScene \(Unity\)](#)
- 2018 [Andy Serkis Face to Face \(Unreal\)](#)
- 2019 [Ted Talk about Digital Humans with real time character](#)

### Dance

- 2014 [Peking Opera](#)
- 2017 [Exisdance \(Unity\)](#)
- 20xx [Huge collection of dance performances](#)

### Scenography / Dance

- 2014 [HAKANAI](#) by Adrien M / Claire B
- 2018 [Dökk](#) (OpenFrameWorks)
- 2019 [Das Totale Tanztheater - 100 Jahre Bauhaus - Palais Populaire](#)

### Projection Mapping & Dance

- 2014 [OMOTE](#)
- 2017 [INORI \(Prayer\) Making-of](#)

### Scenography / Theatre & Opera

- 2002 [Jude von Malta](#) by Art+Com
- 2010 [IAM4Mime](#)
- 2016 [Manipulation | Pepper's Ghost](#)
- 2017 [The Tempest | Royal Shakespeare Company](#)

### Tradeshow examples

- 2017 [Dynamic Projection Mapping](#)

# Technology

- Why CG sucks / or not (Essay)

## AI

- Realtime Face Reenactment
- Image Synthesis through semantic manipulation
- Interactive AI rendered 3d World
- Reconstructing Images
- Transform Video from Winter to Summer / Day to night
- Reflections on deep fakes
- creative AI in the arts

## Film Sets

- Realtime Compositing

## Film VFX

- The Social Network VFX Breakdown
- Rachel in Blade Runner 2049
- VFX Oscar Winners from 1929-2018
- The Lion King 2019 - Making Of - How it was filmed in a realistic way

## Robotics

- Uncanny Valley/Unheimliches Tal by Stefan Kaegi with robot-avatar as double of the author Thomas Melle
- Why Artists Love the Eerie Sensation of Characters That Look Almost Human

## Old Style

### Scenography

- Opera Scene change

### Film / Animation

- Loving Vincent Making of / Rotoscope
- Loving Vincent Rotoscope Painting in Time Lapse

## Companies

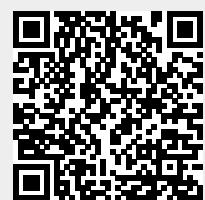
- [LuxMachina](#)
- [Stiller Studios](#)
- [Meow Wolf](#)

## Volumetric

- [Intel Studio](#)

From:

<https://wiki.zhdk.ch/IASpace/> - **immersive art space**



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<https://wiki.zhdk.ch/IASpace/doku.php?id=inspiration&rev=1599141956>

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