Inspiration

Overview UnityTeam Digital Human Rigging & Shading

A general overview of the tools 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.

jnt_reference —→ classical full body game rig. Skin weights up to the torso snappers_headrig ——→ combination of joint hierarchy and blendshapes.

Model

Shading

Unity Files

Attachment Tools

Shading & Rendering

VR

- 2019 AYAHUASCA
- 2019 Afterlife: Combining Branching Narratives With Live Actors In VR
- 2017 Alice - The Virtual Reality Play

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
- Tranform Video from Winter to Summer / Day to night
- Reflections on deep fakes
- creative AI in the arts

FilmSets

- 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

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