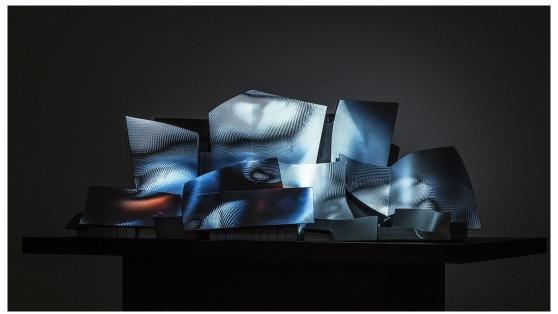
Projection Mapping Flyby Wenqi Li (Eric) Oct 12 2017

# What is projection mapping?



Refik Anadol, 2014, Ethereal / Architecture as a Canvas Light as a Material

displaying visual content on non traditional surfaces augmented reality

### some cool projects



Peder Bjurman and composer Leif Jordansson, 2016



# unnumbered sparks Janet Echelman and Aaron Koblin, 2014

May the force be with you Teo Park, 2014

Mapping is the easiest part.

It's all about content and concept.

ITP classes Nothing

Magic window and mixed reality Gabe's summer AR class

ITP summer camp sessions

#### Tools selection

MadMapper artists

Resolume & Arena 5 VJ

isadora theater

Millumin 2 theater

<u>TouchDesigner</u> studio/agency

Tape Laser stencil

#### middlewares

## Syphon

An open source Mac OS X technology that allows applications to share frames A server streams video content to clients
It doesn't work very well in latest chrome and unity3D

# OSC

protocol of communication for sending data through apps mobile devices apps: <u>touchosc</u>, <u>gyrosc</u>

### Hardwares

<u>Projector central</u>: projector calculator, with everything about projectors <u>Dualhead2GO/Triplehead2GO</u>: external multi-display adapter adds up to three projectors

#### creative coding sketch mapping

super glue combo

Processing + madMapper

JS graphics libs combo

P5.js/THREE.js + <u>Syphoner</u> + madMapper

JavaScript + maptastic.js

#### demos

basic video mapping in MadMapper

projection mapping p5 sketch via syphon & maptastic.js

If we have enough time,

projection mapping Processing sketch

Intro to modul8

How to interact with projection mapping sketch using mobile phones

How to do 360 video streaming projection mapping

# A few more things

Pcom Light

madMapper + DMX + Light

VJ / Motion Graphic Designer

Modul8 + (Vezer) + madMapper

transform VR to AR

Unity3D / Unreal + madMapper

Thank you! & TNO!