

PV259

Generative Design Programming

Week 10

Interactive installations

MUNI
FI

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Disks Bearing Spirals, 1923
Ink and pencil on seven irregularly cut paper disks, diameter from 21.6 to 31.7 cm (8½ to 12½ in.), mounted on blue paper disks, in turn mounted on paper board, 118.4 x 118.4 cm (46½ x 46½ in.)
Seattle Art Museum, Eugene Fuller Memorial Collection

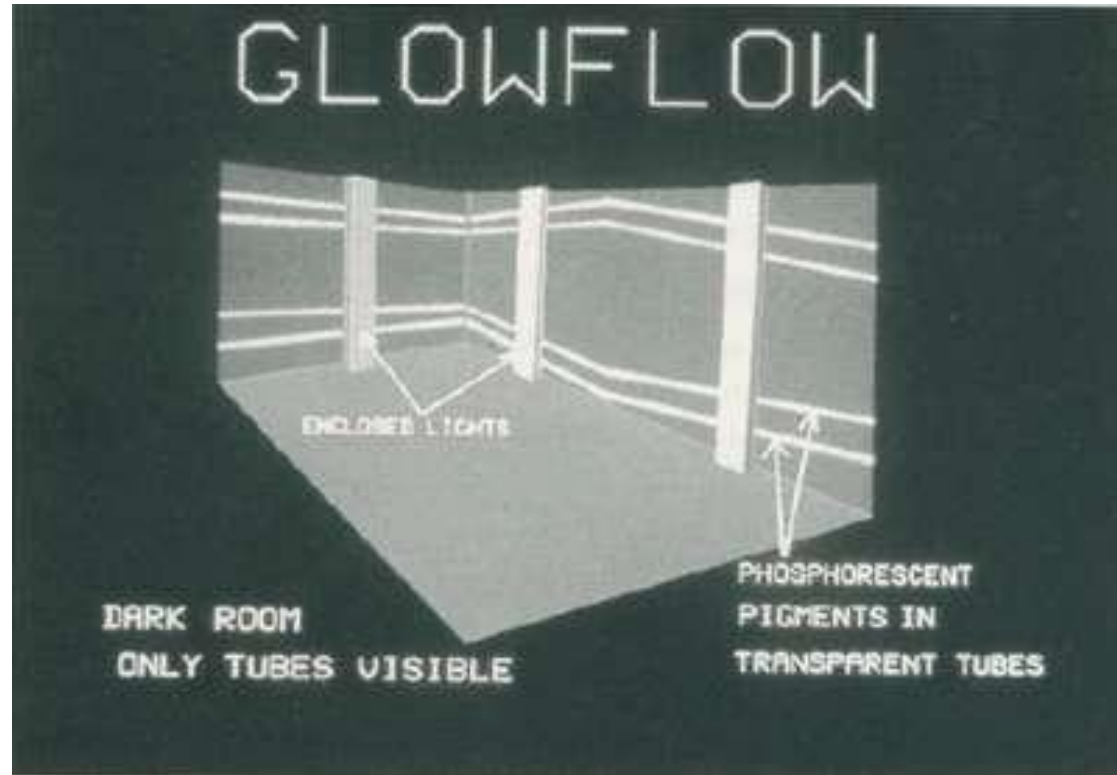
80

PAGE 81
Rotary Glass Plates (Precision Optics), 1920
Five painted glass plates that rotate around a metal axis and appear to be a single circle when viewed at a distance of one meter (39 in.), 165.7 x 157.5 x 96.5 cm (65½ x 62 x 38 in.)
New Haven, Connecticut, Yale University Art Gallery



81

Marcel Duchamp's piece named *Rotary Glass Plates*

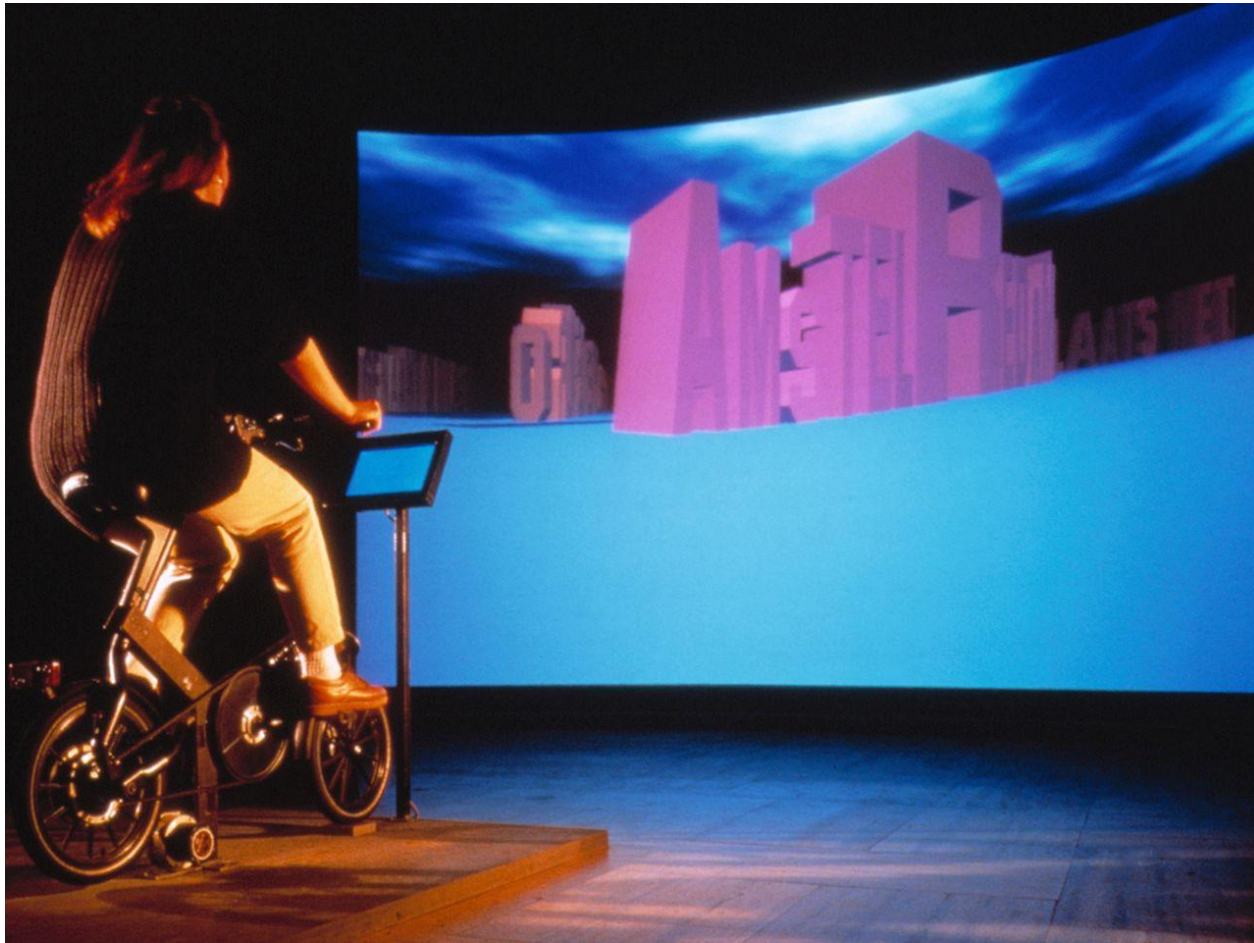


USA, Wisconsin University: *Glowflow*, 1969
First use of the term "interactive art" (Myron
Krueger)
Simulation: <https://vimeo.com/328548584>



Christa Sommerer, Lauren Mignonneau, Interactive Plant Growing,
1993

https://www.youtube.com/watch?v=Obwp07_phmA



Jeffrey Shaw, Legible City,
1989

<https://www.vice.com/en/article/12811636>



Boundary Functions (1998) interactive floor projection by Scott Snibbe at the NTT InterCommunication Center in Tokyo



Pachet: The Continuator, 2003
<https://youtu.be/cHKcqOD5EY4?t=11>

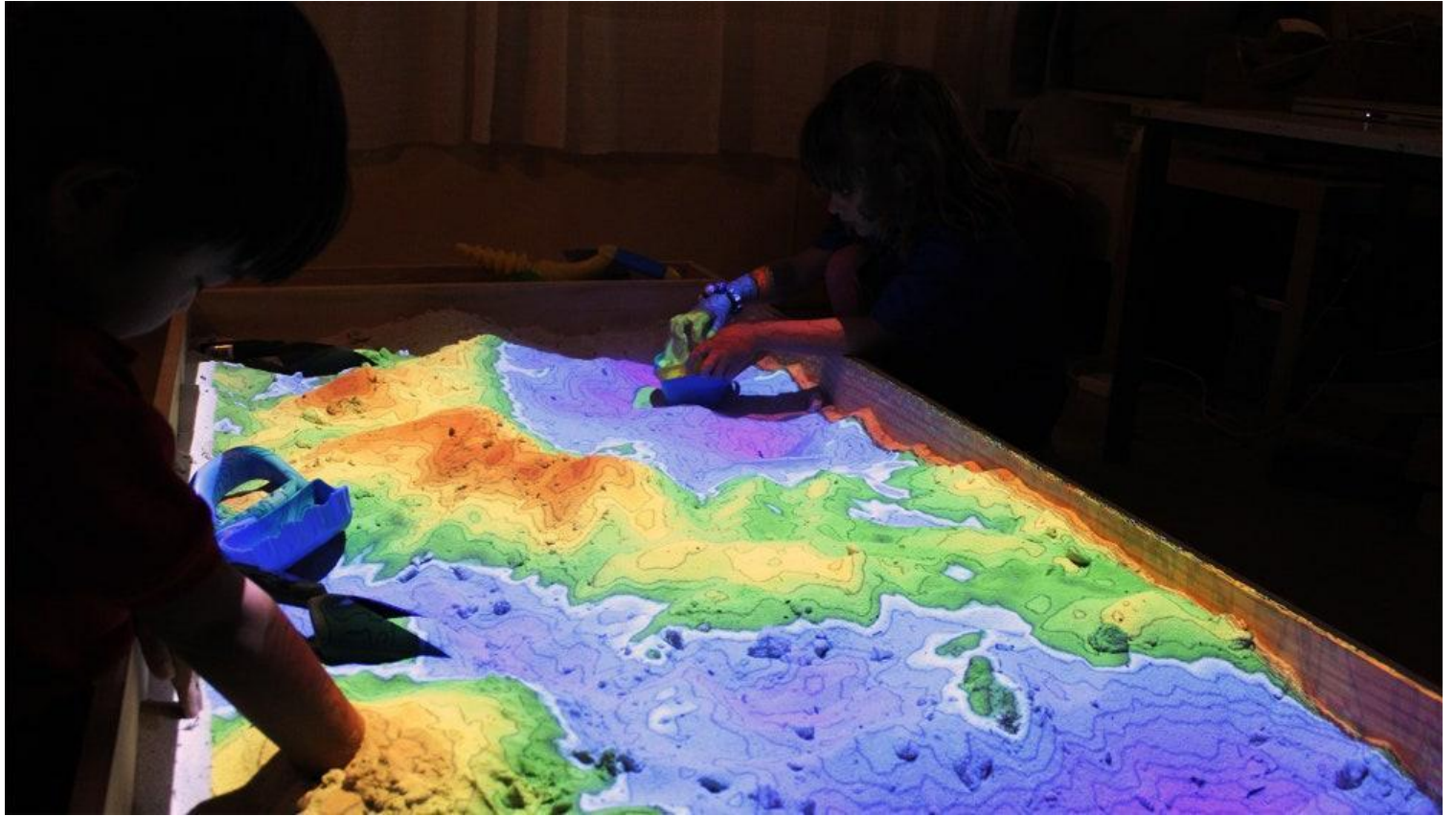
Musical Turing test with the Continuator on VPRO Channel (Amsterdam), 2012

<https://www.youtube.com/watch?v=ynPWOMzossI>



Oláfur Arnalds: Stratus system, 2018
https://www.youtube.com/watch?v=uhxAvweQ_tU
<https://www.youtube.com/watch?v=3NTGPIIQU4>

interactive art through material manipulation



Researchers at UC Davis W.M. Keck Center for Active Visualization in the Earth Sciences have created the 'Augmented Reality Sandbox, 2012 <https://www.trendhunter.com/trends/uc-davis-augmented-reality-sandbox>



Daily Tous Les Jours' musical 21 Swings in Montreal

<https://www.trendhunter.com/trends/21-bala-noires>

interactive art in public
spaces



advertising agency BBDO Germany
<https://www.dezeen.com/2014/09/17/interactive-dancing-traffic-lights-installation-smart-car-lisbon/>

interactive art through body
movement



Treachery of Sanctuary (2012), Chris Milk
<https://www.youtube.com/watch?v=ehjklqL6g84>



Romain Etienne / Item

XYZT Abstract Landscapes, Conception, art direction, graphic design and scenography

Claire Bardainne & Adrien Mondot

<https://www.am-cb.net/projets/xyzt>

interactive art: influencing+
telepresence



Ernest A. Edmonds, Shaping Forms,
2007

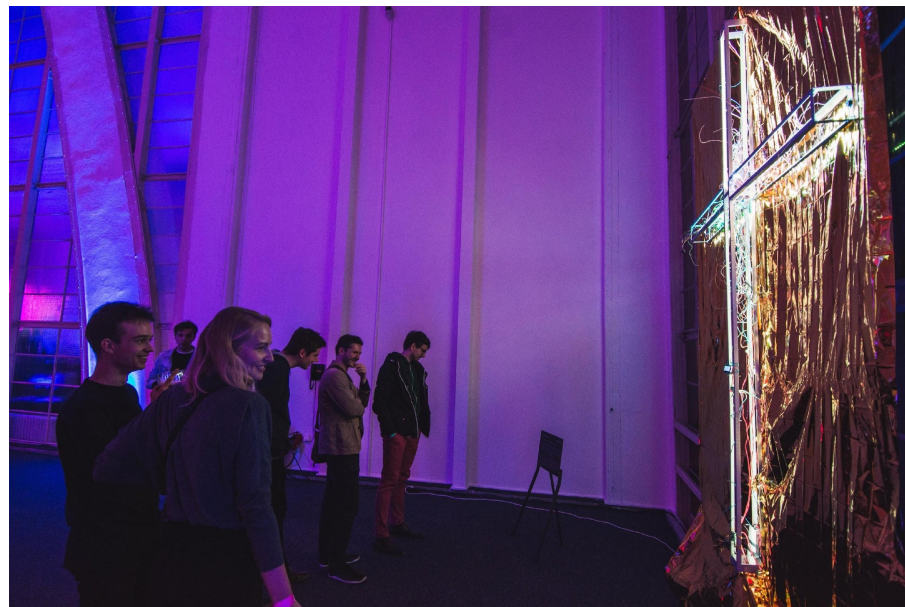


IK Prize: After Dark, 2014, Tate Britain
<https://www.youtube.com/watch?v=N9aeg4PUxZI>



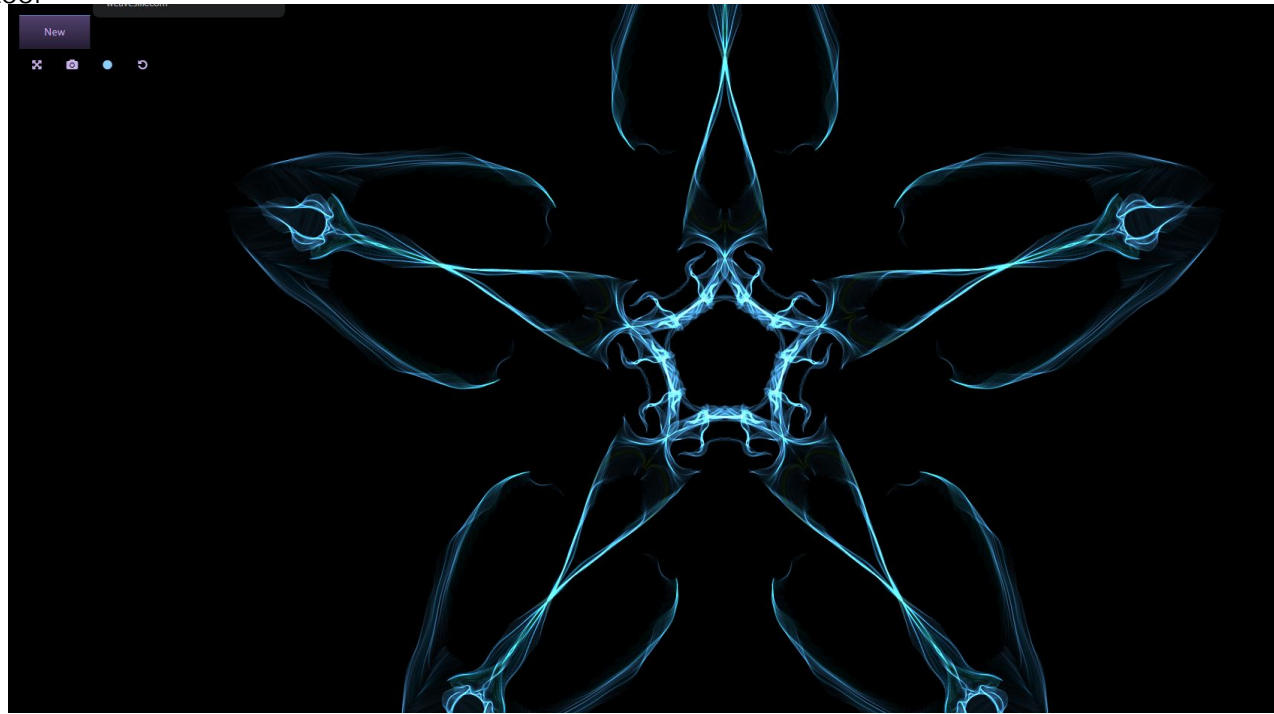
Jonáš Rosecký: Garden of Shadows
(2020)

<https://youtu.be/S9ex51knPuA?t=2>



Marko Řeháček, Markéta Kučerová: Just and right (2019)
<https://www.behance.net/gallery/92355491/Just-and-Right-Interactive-Installation>
<https://www.prototypbrno.cz/en/archiv/just-and-right/>

interactive art – online
tool



Weavesilk
<http://weavesilk.com/>



Inspiration

Best of Ars Electronica Festival 2019

<https://www.flickr.com/photos/arselectronica/albums/7215>

[7710106659441](https://www.flickr.com/photos/arselectronica/albums/72157710106659441)

<https://www.creativeapplications.net/>

user: agdm_fimu

pass: iloveagdm

Some resources

<http://artgorithms.droppages.com/>

<https://artgorithms.tumblr.com/>

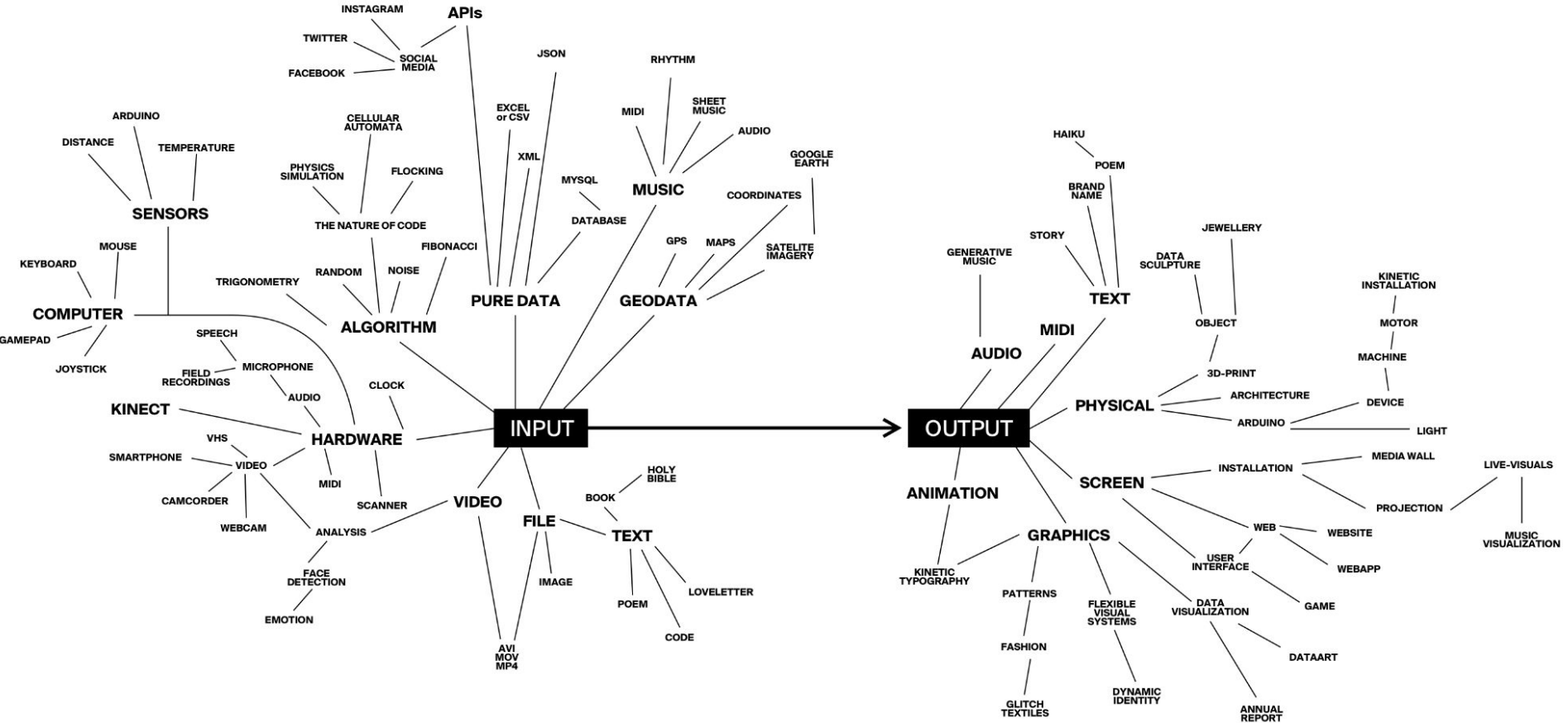
<http://365shapesof.blue/>

<https://github.com/julienes/365shapes>

<https://estebanhufstedler.com/>

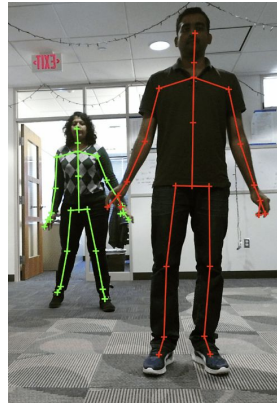
<https://timrodenbroeker.de/>

https://www.instagram.com/lil_lonely/



Kinect

- ❑ need to work with Processing instead of p5, but it has a [great website](#), should be easy – see [tutorial](#) for starting

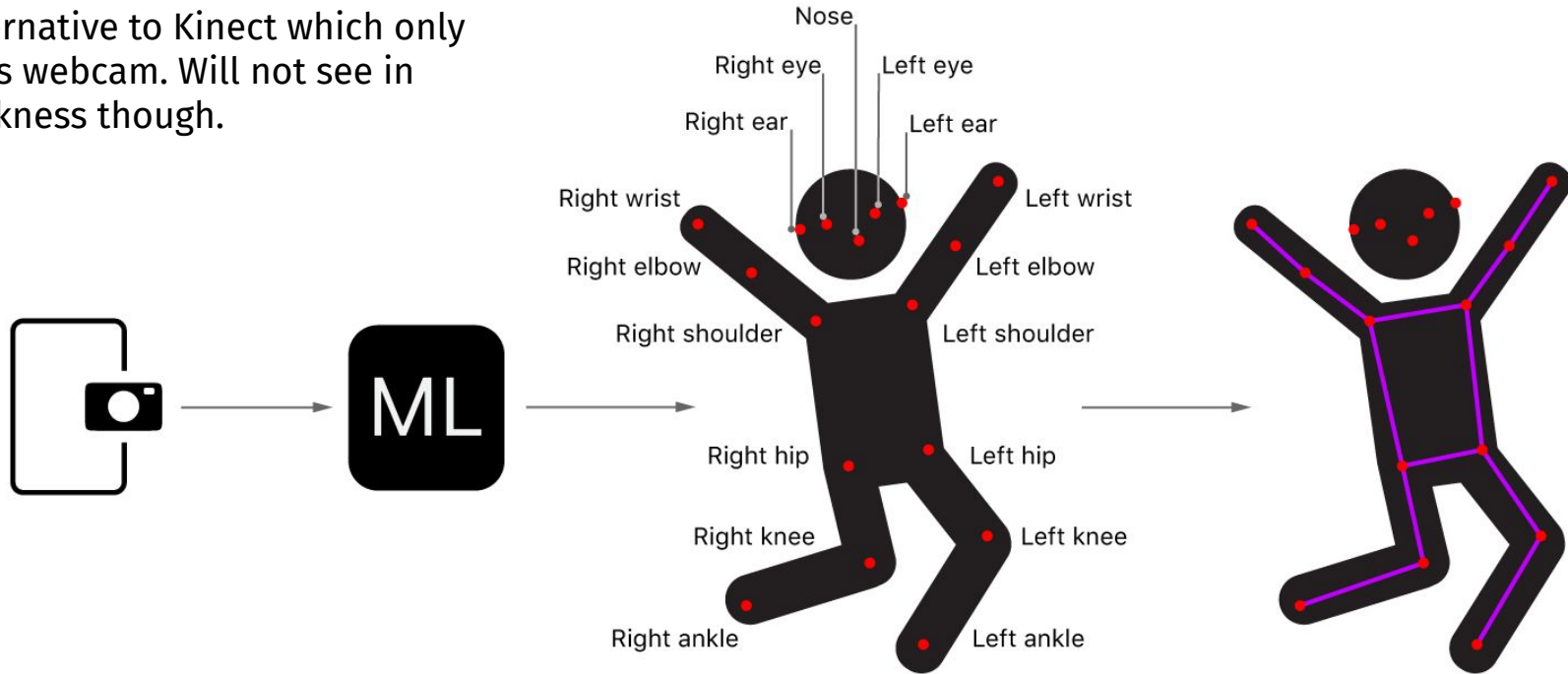


- ❑ If you're on a PC: don't install the Shiffman's library! Use **Kinect v2 for Processing** instead, there is ***skeleton tracking*** and other algorithms.



PosetNet

Alternative to Kinect which only uses webcam. Will not see in darkness though.



<https://learn.ml5js.org/#/reference/posenet>

Example

->

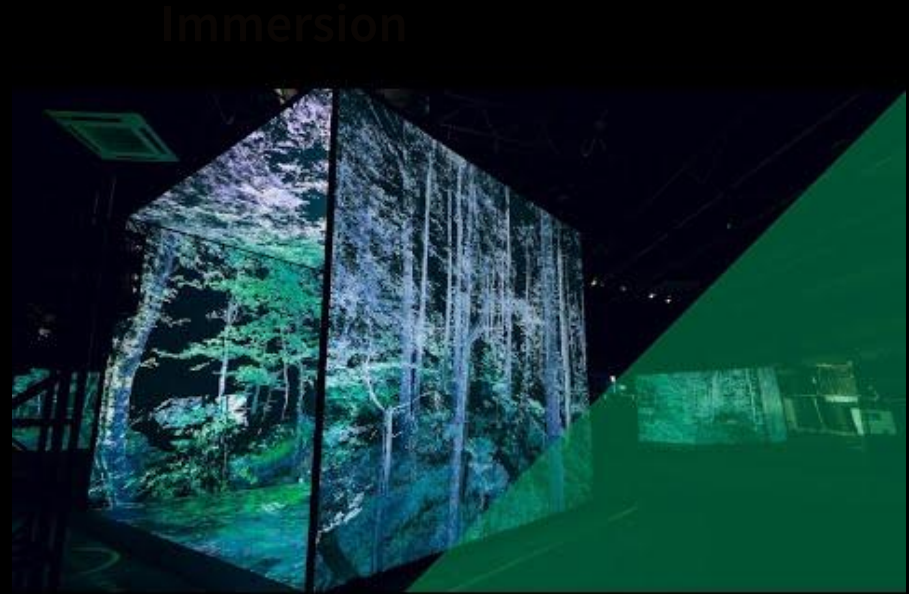
Prototyp

Immersion

The act of becoming utterly involved with something, pulled into its universe and losing your sense of self in the process.

When it comes to immersive or experiential art, these works envelop their audience in a full-body experience, engaging with sight, touch and sometimes even smell, using video projection mapping, sound technologies, VR headsets and light shows, artists can **create environments surrounding the viewer, making them an active part of their experience.**

[agoradigitalart](#)



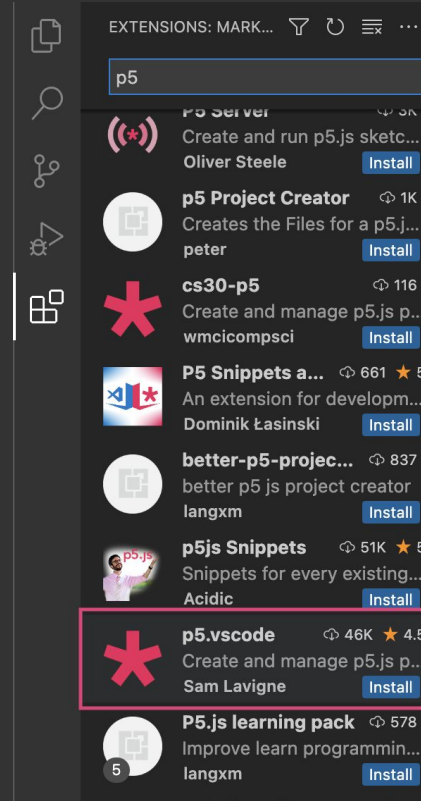
Read more:
[The rise and rise of immersive art](#)

If you want to use Kinect, discuss with me.

p5 in VScode

Install p5.vscode

1. Open Visual Studio Code
2. Open Extensions tab (Shift + Ctrl + X)
3. Search “p5”
4. Install “p5.vscode”



Create new p5 project

1. Open Command Palette (Ctrl + Shift + P or View -> Command Palette)
2. Start typing “p5” and select “Create p5.js Project”
3. Select folder to put your project in

to open your sketch in a browser click the “Go Live” button

Installing libraries:

Command Palette -> “Install p5.js Contributor Library”
and install any library you want to add to your sketch

Useful extensions

Live Preview from Microsoft

Allows you to see the sketch in the

GitHub Copilot