

TD WRSHP BEGINNERS MONTREAL

Why the Bauhaus would have loved TouchDesigner

10:00 – 11:00 AM

About : Stefan Kraus / The Node Institute Berlin

Vorkurs 1 : The Bauhaus

11:00 – 12:00 AM

Vorkurs 2 : Touchdesigner Basics

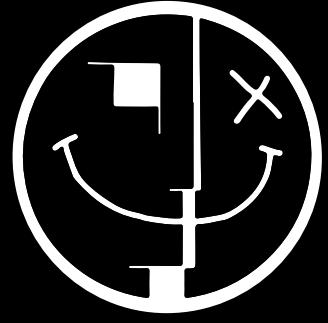
12:00 AM – 1:30 PM

Übung 1 : Ludwig Hirschfeld-Mack - Optischer Farbmischer

1:30 – 2:30 PM

Lunchbreak

https://github.com/MXZEHN/TD_WRSHP_BHS_Montral_8-19



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2:30 – 3:30 PM

Übung 2 - Max Bill - Junghans Uhren

3:30 – 3:45

Break

3:45 – 4:45

Übung 3 : Walter Gropius - Bauhaussiedlung Dessau-Törten

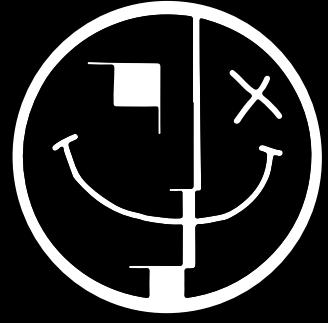
4:45 – 5:00

Break

5:00 – 6:00 PM

Übung 4 : Gunta Stölzl - Fünf Chöre

https://github.com/MXZEHN/TD_WRSHP_BHS_Montral_8-19

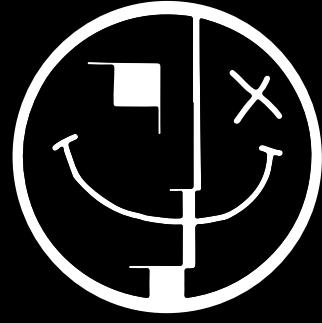


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Why the Bauhaus would have loved TouchDesigner

So what about BAUHAUS?

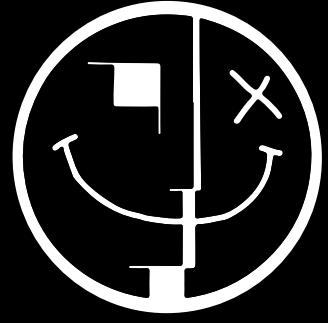




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Why the Bauhaus would have loved TouchDesigner

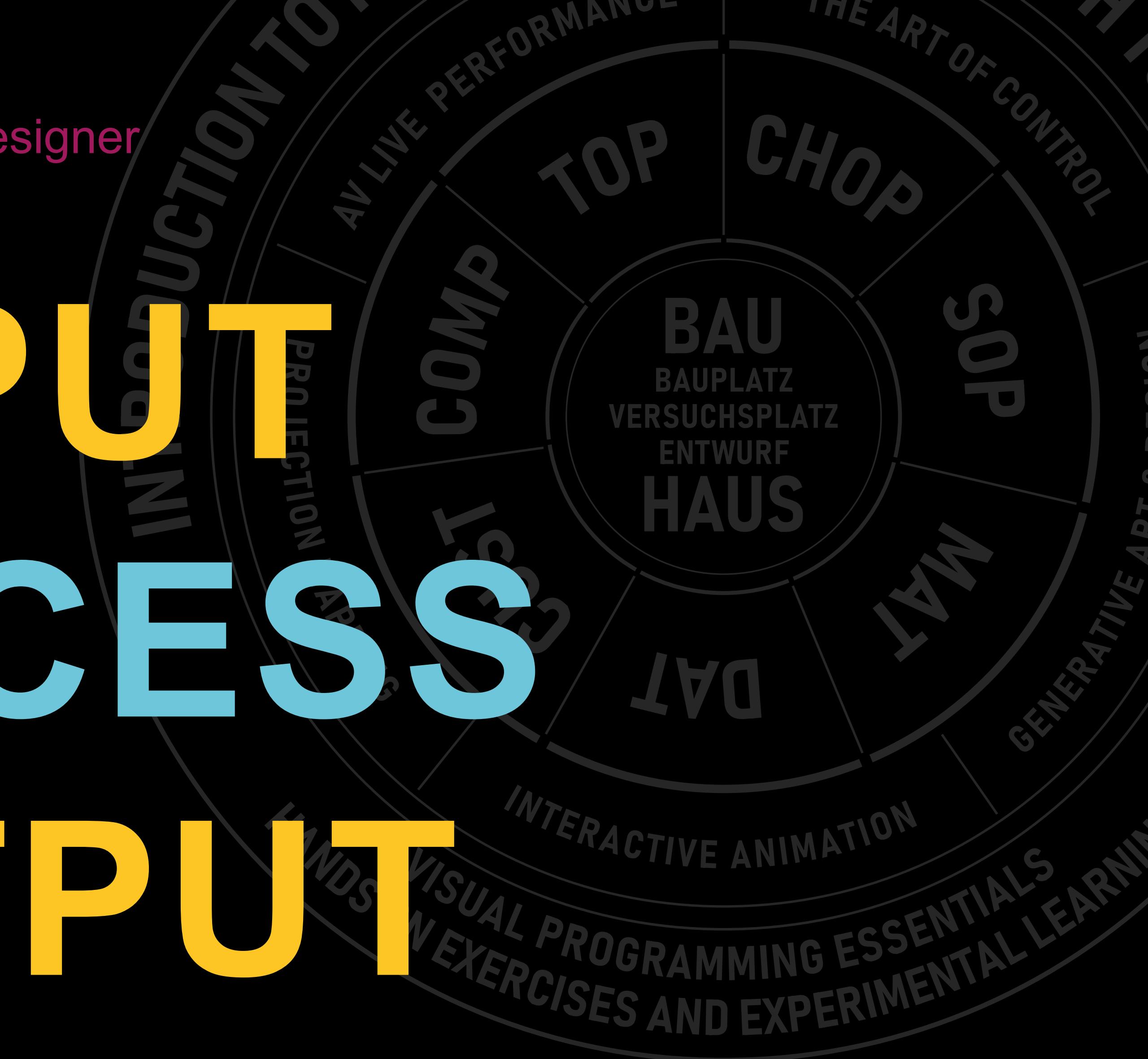
So what about Touchdesigner? Applications & Examples

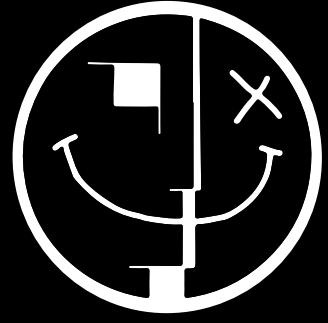


TD WRSHP BEGINNERS MONTREAL

Why the Bauhaus would have loved TouchDesigner

INPUT
PROCESS
OUTPUT





TD WRSHP BEGINNERS MONTREAL

Why the Bauhaus would have loved TouchDesigner

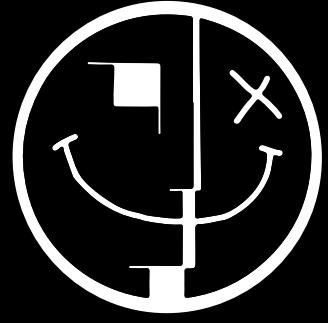
CONNECT
EVERYTHING
WITH EVERYTHING

<https://www.whitevoid.com>



<https://www.whitevoid.com>





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Why the Bauhaus would have loved TouchDesigner

live design & performance

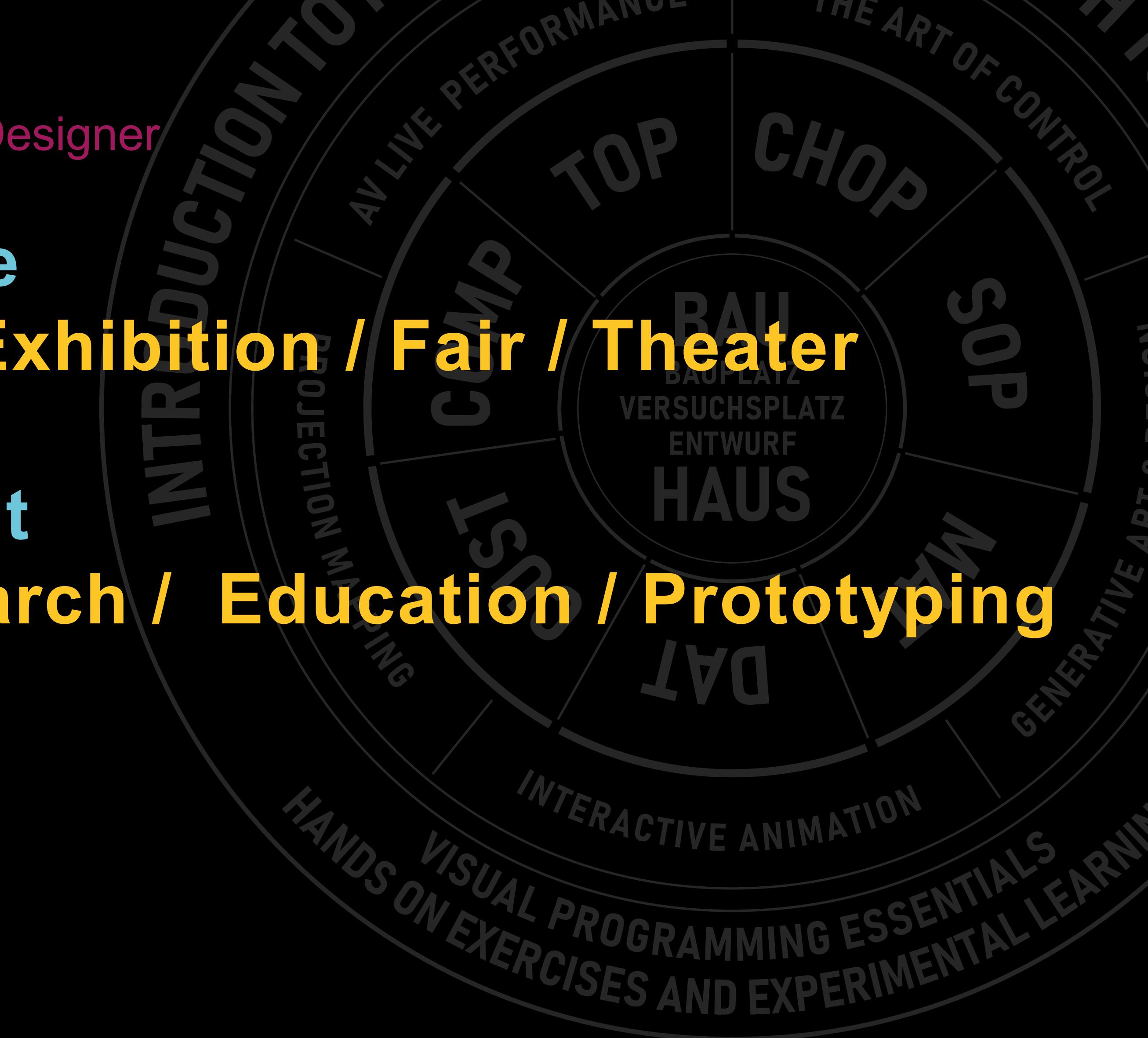
Show / Concert / Event / Exhibition / Fair / Theater

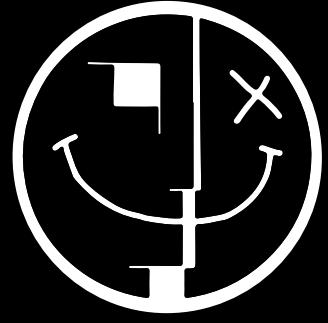
research and development

Data Visualisation / Research / Education / Prototyping

experimental

...





TD WRSHP BEGINNERS MONTREAL

Why the Bauhaus would have loved TouchDesigner

read, translate and send everything

DMX, Artnet, MIDI, OSC, JSON, Serial, TUIO, RS322, Audio, Video, Text, Sheets, Web, Mobile, Light, Ableton, CV

build custom applications

make your programs private for reselling

with a pro license, e.g. GeoPix / <https://www.enviral-design.com>

build custom media servers with multiple outputs

e.g. Luminosity / <https://github.com/IntentDev/Luminosity>

<https://www.derivative.ca/Events/2015/Luminosity/>

The screenshot displays the Lumino software interface, featuring a 3D rendering window at the top left showing a complex scene with glowing orange and red particles against a dark background. Below the rendering window is a control panel with several tabs: 'Bank' (Bank1 through Bank16), 'Scene' (Scene1 through Scene8), 'Audio' (selected), 'Video In', 'Particles', 'SacredGeo', and 'Curves'. The 'Audio' tab is highlighted with a red box.

On the right side of the interface, there are several panels:

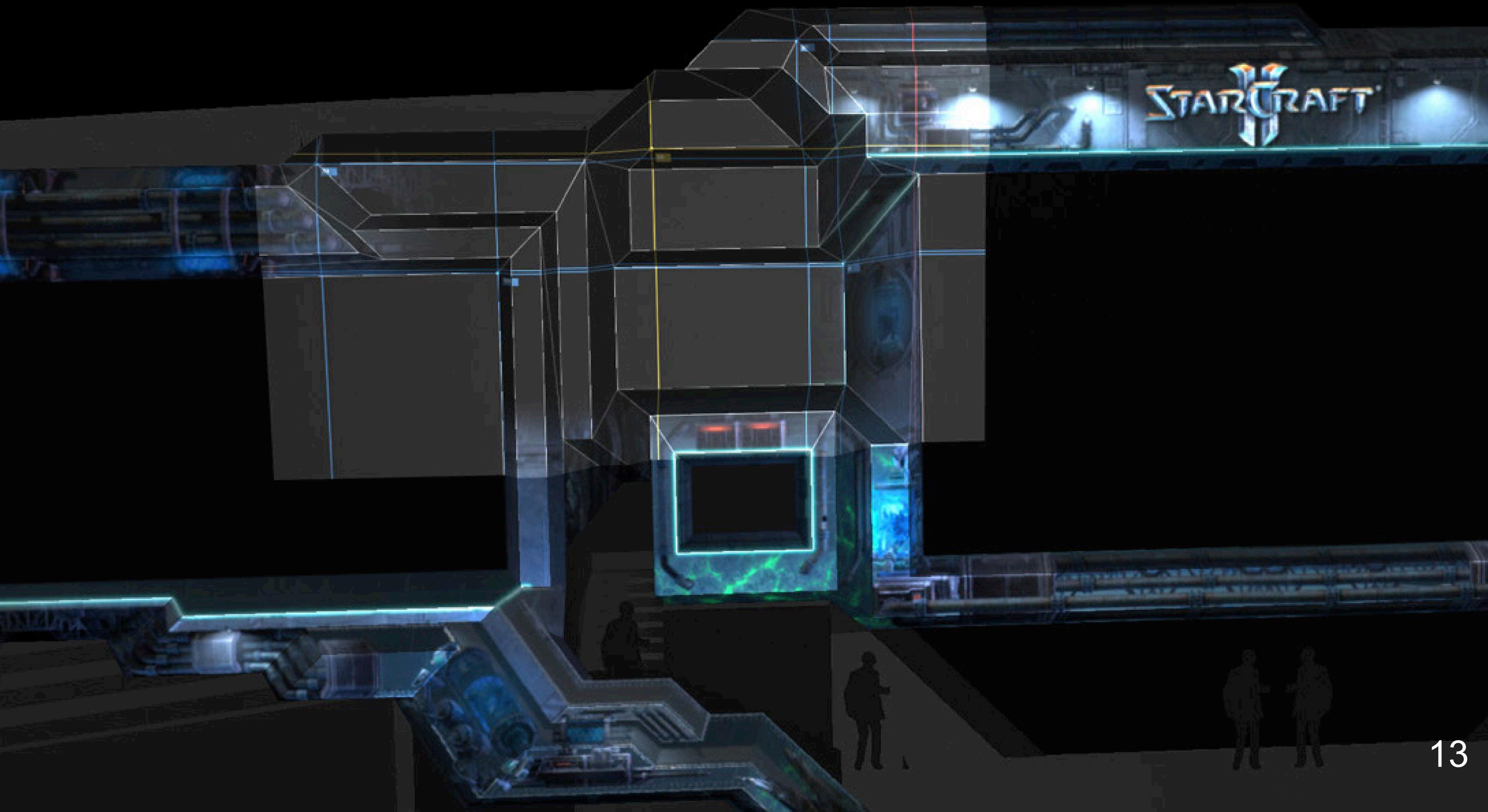
- Levels:** A table with columns for Pre Key Level On, Pre Key Brightness, Pre Key Gamma, Pre Key Contrast, Pre Key Opacity, Pre Step Size, Pre Step Threshold, Pre Step ClampLow, Pre Step ClampHigh, Pre Step Soften, Chroma Key On, and various sliders and knobs for Mix, Opacity, Brightness, Hue, Saturation, Scale X, Scale Y, Translate X, Translate Y, and Rotate.
- Feedback:** A table with columns for Mix, Opacity, Brightness, Hue, Saturation, Scale X, Scale Y, Translate X, Translate Y, and Rotate.
- Strobe:** A table with columns for Trigger, Qtr, 8th, 16th, Square, Saw Dwn, Smooth, Mode, Hue, Saturation, and Value.
- Auxiliary Controls:** A large grid of 16x16 cells, each containing a dropdown menu for Clip 1 through Clip 5, Inserts (No Effect, Levels, Over, None, Clip 1, Clip 2, Clip 3, Clip 4), Sources (None, Clip 1, Clip 2, Clip 3, Clip 4), and Sends (None, Clip 1, Clip 2, Clip 3, Clip 4).
- Clip Lanes:** A grid of 5x8 cells, each containing a dropdown menu for Clip Lane 1 through Clip Lane 5, Over (1.0, L), and Opacity (0.0, L).
- Master Control:** A grid of 5x8 cells, each containing a dropdown menu for Master, Aux 1, Aux 2, Aux 3, Aux 4, Aux 5, and Aux 6.

The bottom of the interface shows a timeline with frames numbered 1 through 16, and a series of small thumbnail previews for each frame across the different tabs.

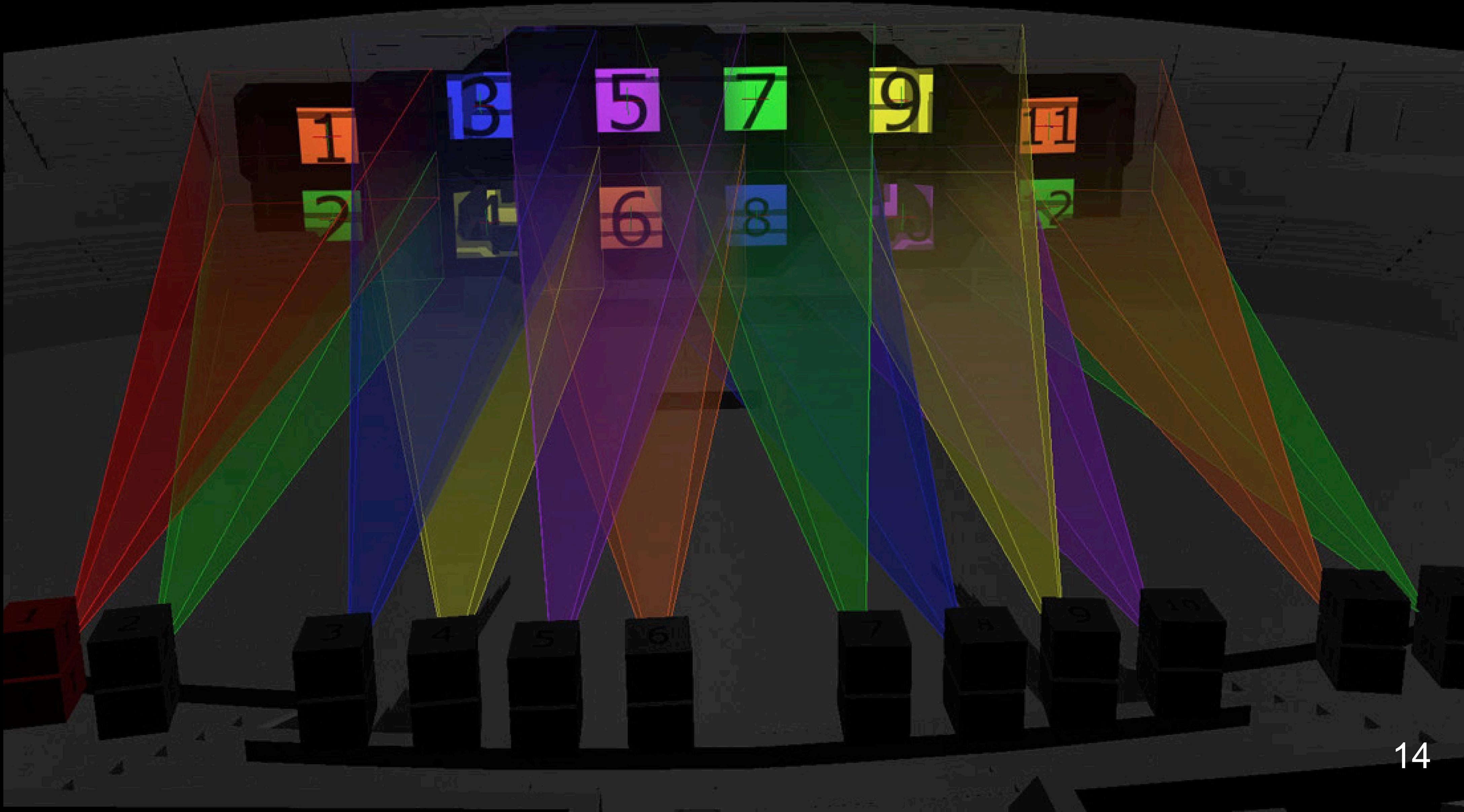
<https://www.derivative.ca/Events/2015/Luminosity/>

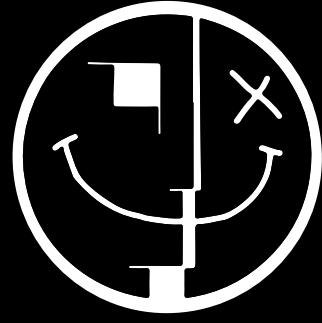


<https://www.derivative.ca/Events/2015/Luminosity/>



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TOUCHDESIGNER BEGINNERS BERLIN

A Homage to the Bauhaus

realtime animation

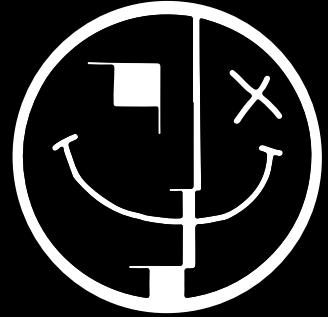
Effects, Motion Design, 3D Animation, Mixing and Routing, Data driven visual content (Music, Data Base, Sheets, Interaction) and Simulations (Physics, Particles) output to wild formats incl. 360°

lighting & laser design

Moving Lights, LED Fixtures, Lasers, LED Sculptures

virtual & augmented reality

prototype VR experiences with VIVE, Oculus, Hololens



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Why the Bauhaus would have loved TouchDesigner

web & mobile interaction

connect to users via the internet

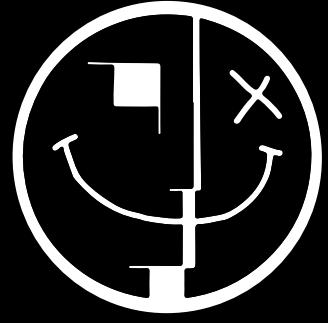
use mobile Apps to control Media Installations

use Web Content in AV Installations

Connect to APIs to gather Data

tracking

Use Kinect, Intel RealSense, Leap Motion, OpenCV and more to learn about the environment and enable touch free interactions



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Why the Bauhaus would have loved TouchDesigner

extend the functionality

use scripting and coding to extend functionality

Shader Authoring (GLSL)

scripting in Python allows to use numerous Libraries

from within Touchdesigner

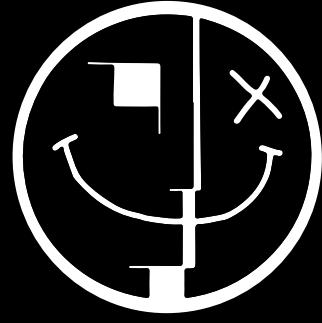
programming custom nodes in C++ (z.B. Vincent Houze)

projection mapping

keystoning with Stoner

creative mapping with Kantan Mapper

projector calibration with CamSchnappr



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Why the Bauhaus would have loved TouchDesigner

what hardware do we need?

PC over MAC

NVIDIA over ATI & INTEL

QUADRO over GTX

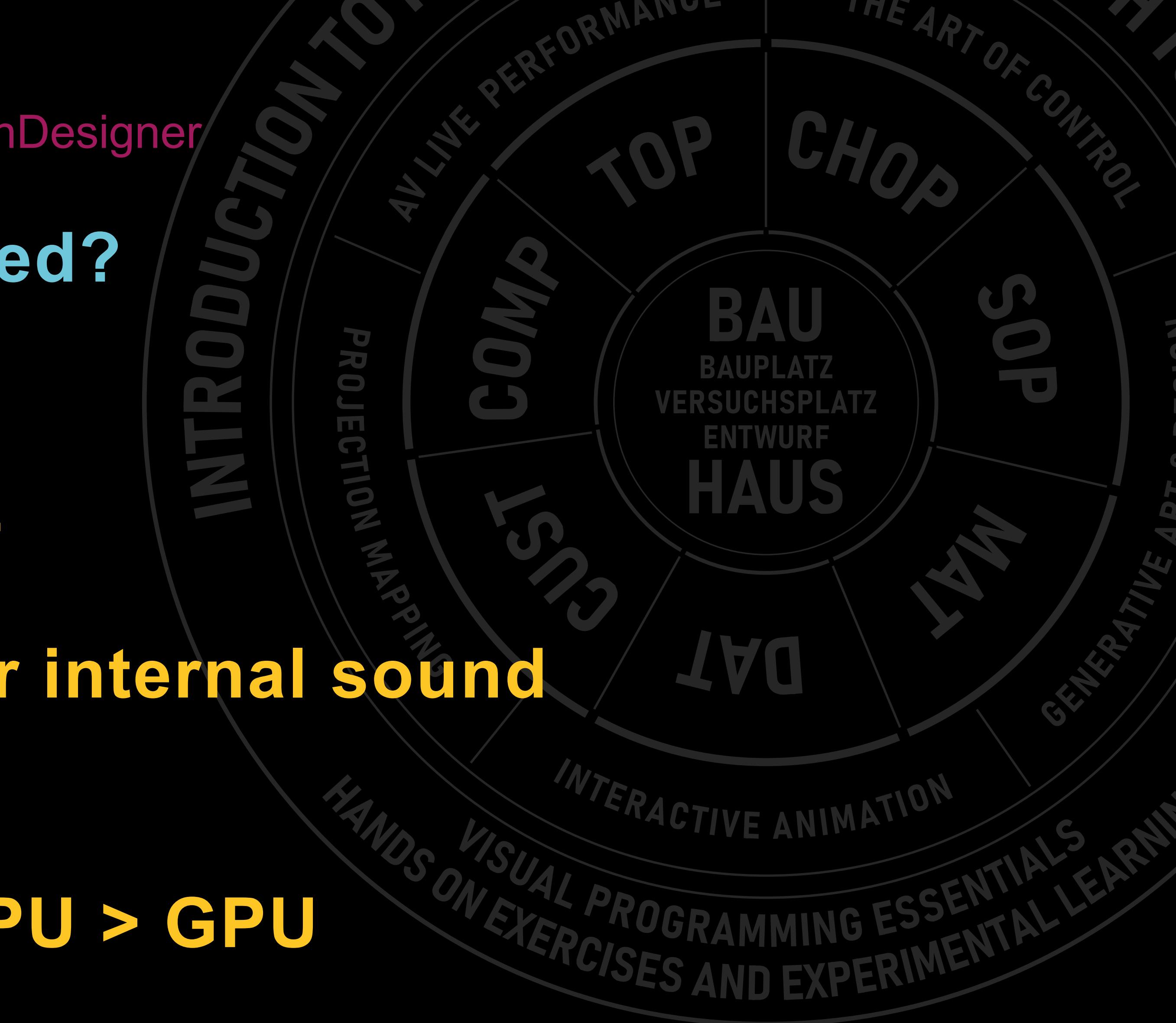
external sound card over internal sound

for video playback

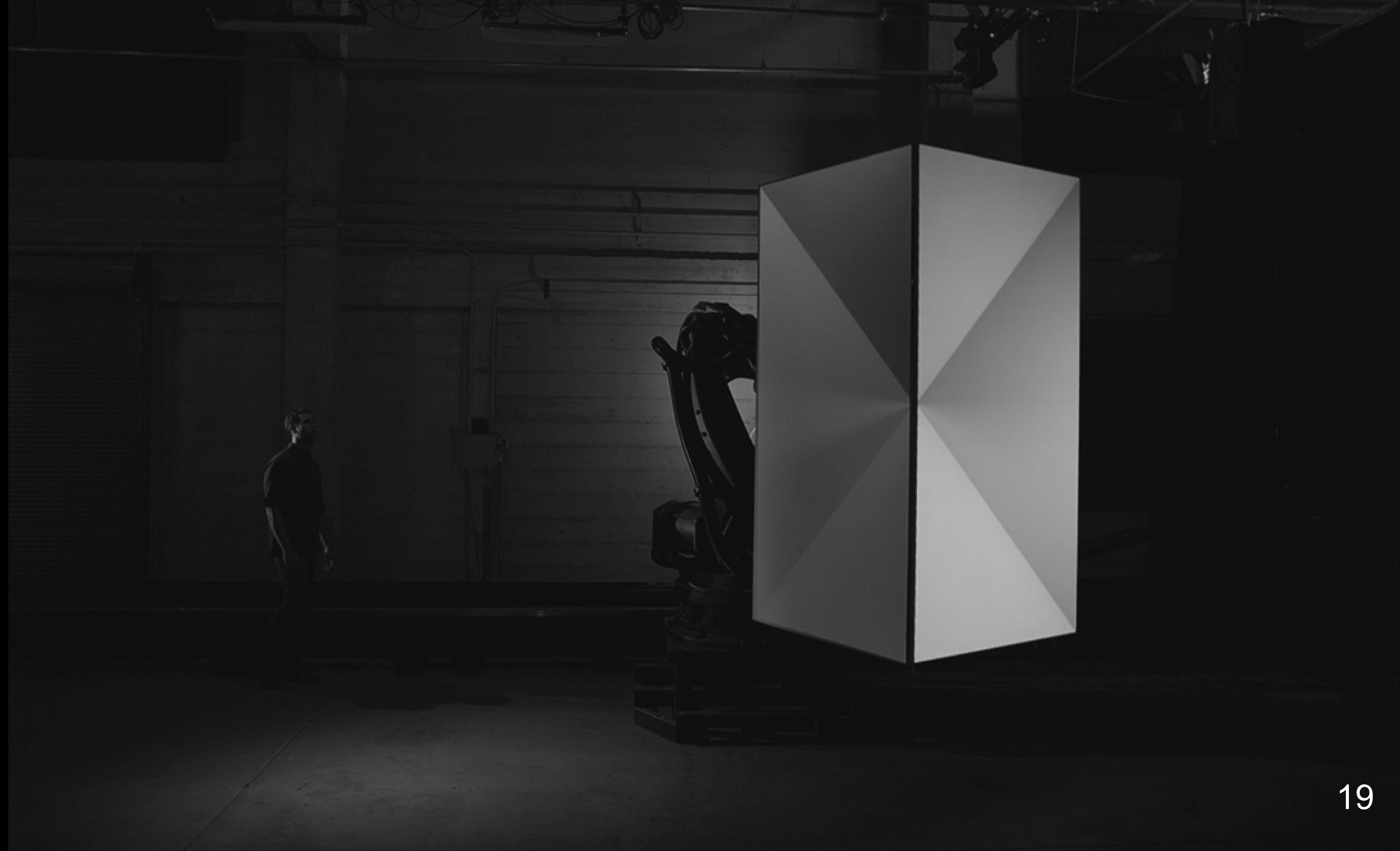
hard disc > memory > CPU > GPU

for generative content

GPU > Memory > CPU



<https://gmunk.com/BOX>



<https://vincenthouze.com>

<http://www.daveandgabe.care/projects>



<https://www.whitevoid.com>



<https://www.whitevoid.com>



<https://www.whitevoid.com>



<http://www.soma-cg.com>





CUE 1

OSD/PT Master Control Number of Monitors: 11 SETUP

<http://www.soma-cg.com>

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https://www.instagram.com/vjrez_tokyo/

