Generative Design

How to Think about the Concept

First thing first:

Ask yourself.....What type of project I would like to create?

data visualization, interactive, working with images, creating graphic design tool, with sound etc.

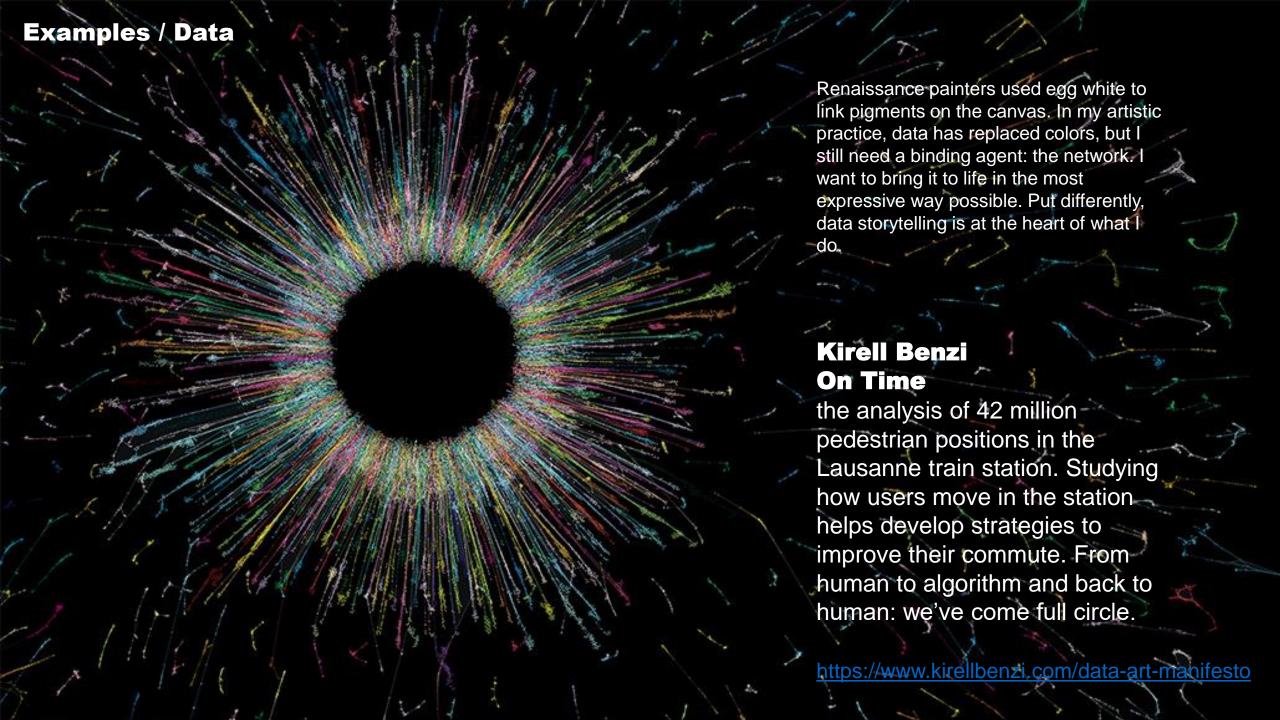
The most important thing is to come up with the concept.

Just tell a story

Viewers do not realy care about the programming complexity, they want to see or hear your story!

Data-driven art is an emerging form of art that utilizes data and technology as a medium for creating and expressing ideas.

Everything is data



Examples / Data



McCormack Fifty Sisters

a series of images algorithmically "grown" from computer code using artificial evolution and generative grammars. Each plant-like form in the series is derived from deconstructed graphic elements derived from oil company logos.

The title of the work refers to the original "Seven Sisters"—a cartel of seven oil companies that dominated the global petrochemical industry and Middle East oil production from the mid-1940s until the oil crisis of the 1970s.

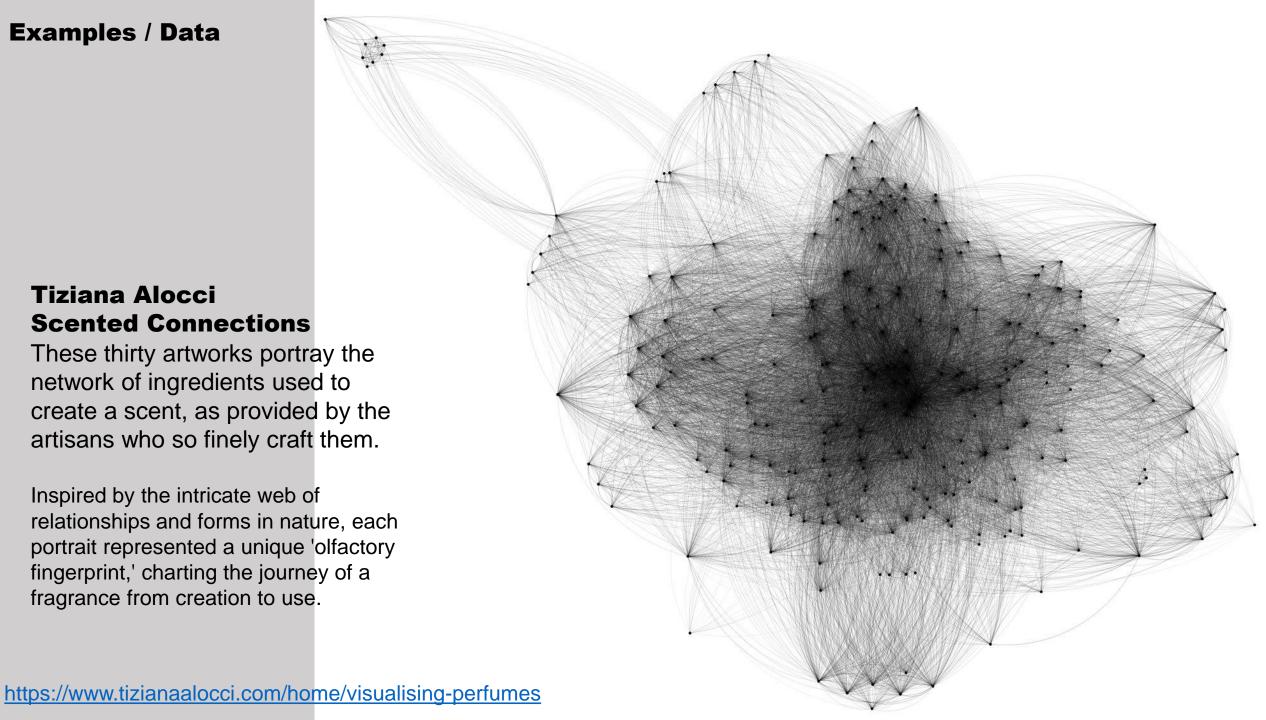
"I use evolutionary algorithms to create artificial life forms that would be almost impossible to design directly."

Examples / Data

Tiziana Alocci Scented Connections

These thirty artworks portray the network of ingredients used to create a scent, as provided by the artisans who so finely craft them.

Inspired by the intricate web of relationships and forms in nature, each portrait represented a unique 'olfactory fingerprint,' charting the journey of a fragrance from creation to use.



Data Visualization

What can it talk about?

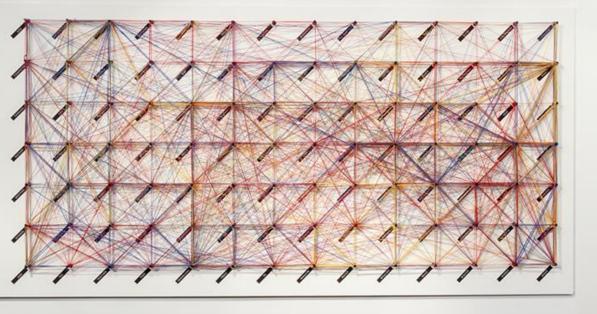
Cultural Reflection: Generative art also holds a mirror to society by using datasets that represent cultural behaviors and trends. For instance, social media data can reveal public sentiment, trends, or even misinformation patterns.

Art as Advocacy: Data-driven generative art has the potential to be a tool for advocacy, bringing awareness to critical issues like climate change, inequality, or political unrest.

Etc...

Examples / Interactive

WHAT MADE ME





Dorota Grabkowska WHAT MADE ME

What made you Think?
What made you Create?
What made you Angry?
What made you Happy?
What made you Change?

Each question was assigned to a different colour and could be answered by connecting relevant words together with a coloured thread.

Examples / Interactive

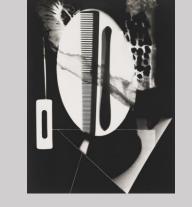
Intraction – the viewer matters

Interactive environments are a defining feature of generative art installations. These spaces respond to the movements and actions of viewers, making them active participants in the art.

Physical computing plays a crucial role in generative art installations, involving the use of microcontrollers, sensors, and actuators. Platforms like Arduino and Raspberry Pi are commonly used to integrate physical elements with digital systems.

Examples / Interactive / Visual Input Manipulation



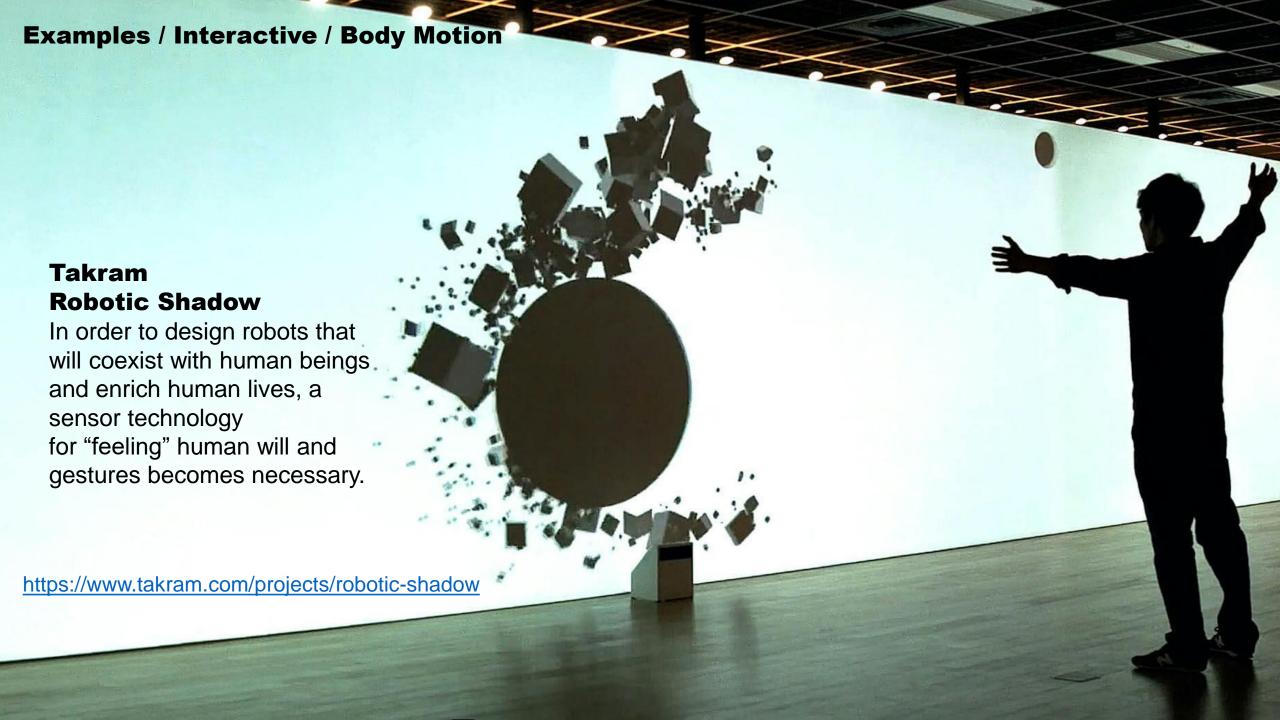


Man Ray Rayographic Image cca 1922

Weidi Zhang RAY

Interactive
Al Art Experience and
Experimental Data
Visualization

In this piece via a camera situated above the work, RAY observes participants and authors the livestreamed data into "... a novel semantic Rayograph that evolves in real-time.



Examples / Interactive / Body Motion



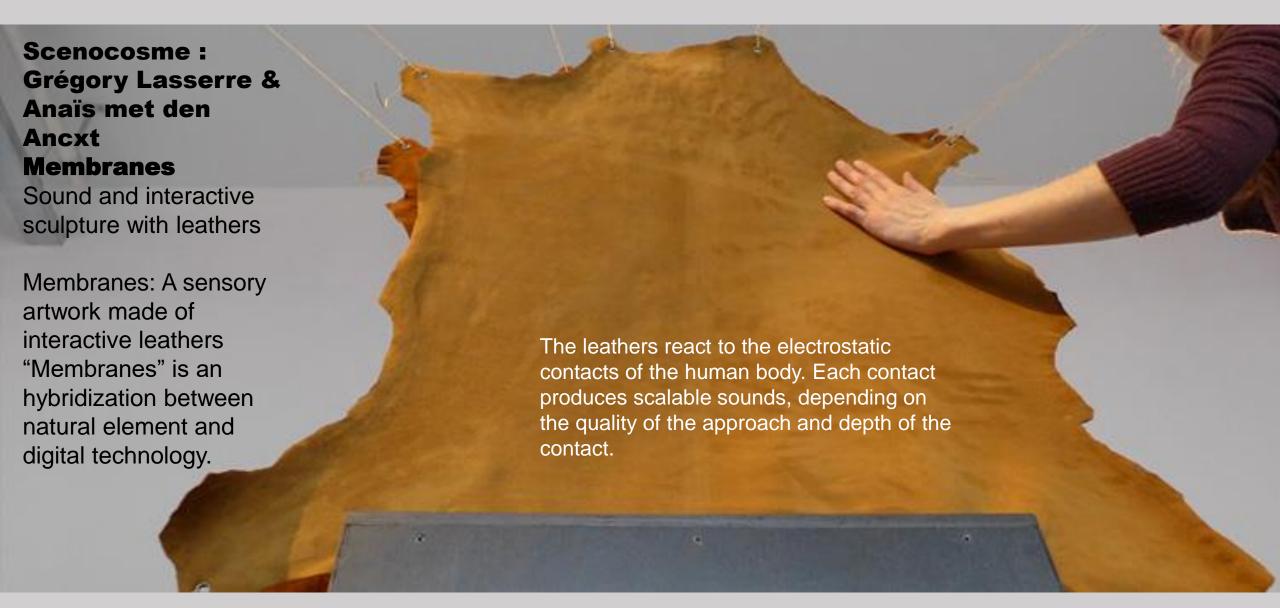
NOTA BENE Visual In Order to Control

2023

Interactive Typographic Installation

A text discussing about the threshold on ethics and morality was looping on the floor, people who step on the typographic area to read it, realize them selves on the wall and the interaction process starts.

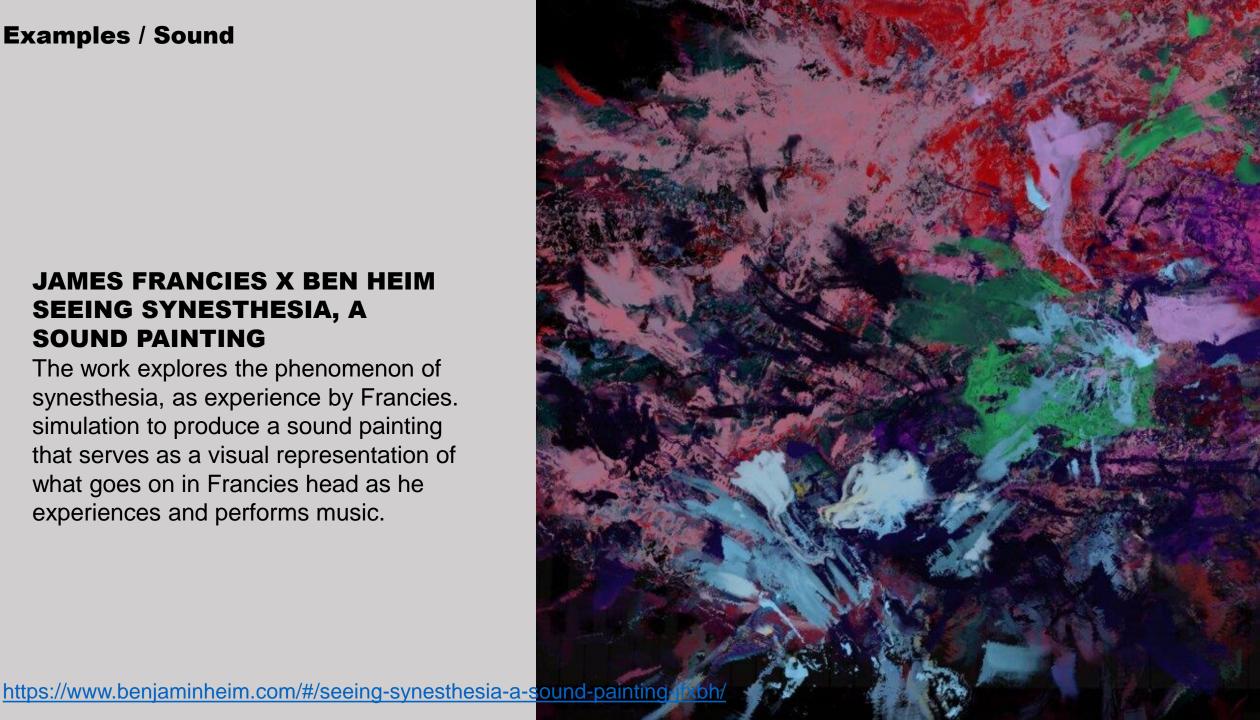
Examples / Interactive / Haptic – through a physical object



Examples / Sound

JAMES FRANCIES X BEN HEIM SEEING SYNESTHESIA, A **SOUND PAINTING**

The work explores the phenomenon of synesthesia, as experience by Francies. simulation to produce a sound painting that serves as a visual representation of what goes on in Francies head as he experiences and performs music.



Make invisible visible
Listen to picture
View the sound
Move the mountains
Create picture out of writing
See old picture and see them differently
Translate speach to other sounds
Make artificial nature
Look at the fine art and make reference
Make music visible
Think how to portray a conversation
Make brush controlled by movement

Do not be afraid to experiment!.....Yeah, it can go wrong but that is the part of the adventure!

Above all...have fun! If you are having good time creating stuff, viewers will see it and will enjoy your work as well!