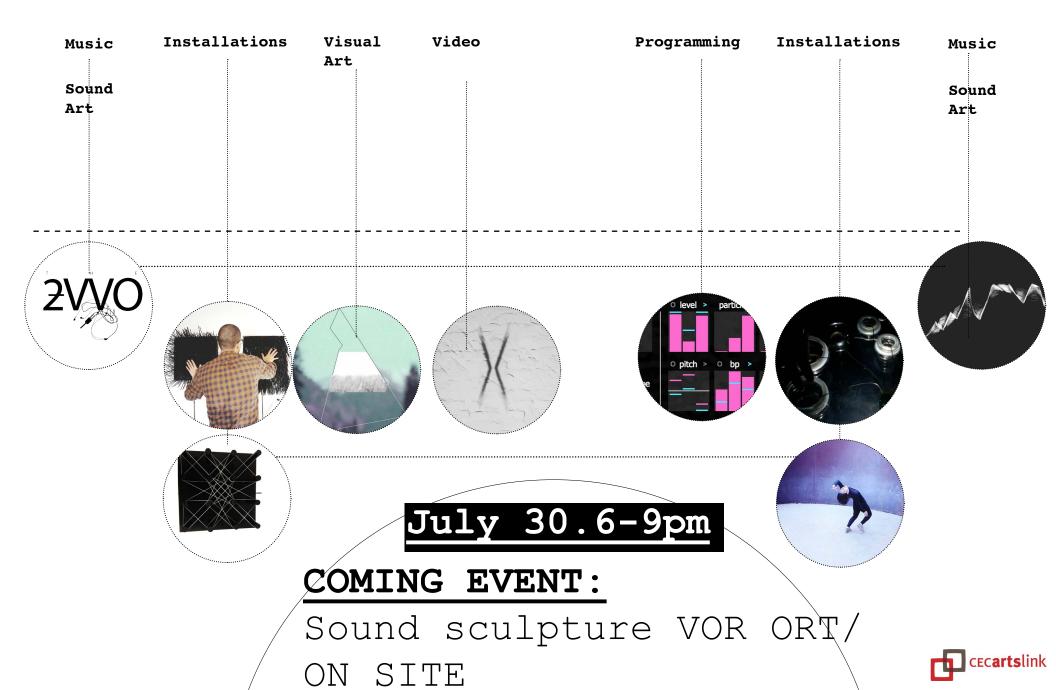
WORKSHOP/ LA / JULY 2016

The2vvo

and Dillon Bastan

www.the2vvo.com
www.facebook.com/the2vvo
https://soundcloud.com/2vvo

http://www.dillonbastan.com
www.facebook.com/dillonbastanartist/
https://soundcloud.com/integratelive



WORKSHOP STRUCTURE

PART 1

-Few key ideas and few facts from history

PART 2

- -Intro to Max, Ableton and Arduino (Explain what each does, help install)
- Presentation of patches and examples

short break

PART 3

- Live Interactive system building
 (software + hardware)
- Playtime
- Q/A



INTERACTIVE ART

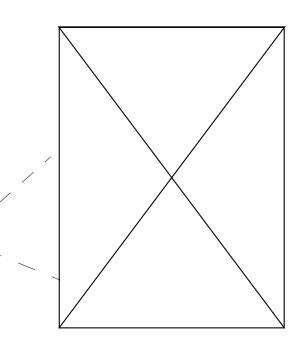
'Art becomes interactive when

audience participation becomes

integral part of the artwork.

Audience behaviour can cause the artwork to change itself".

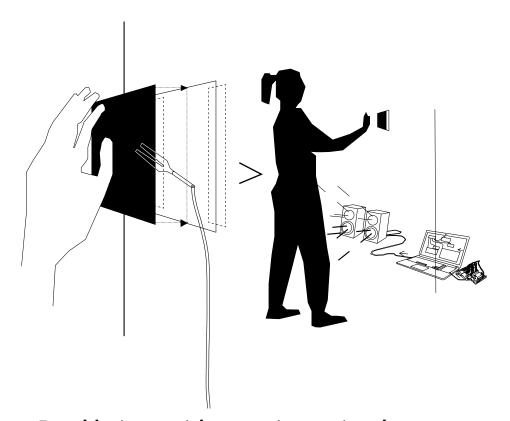
Ernest Edmonds



An artwork = painting, is essentially* a "static system".

"Closed system" = one that is not subject to any external influence.

*"essentially" because, of course, the nature of light that falls on a painting, the colour of the wall on which it is hung, etc., certainly change how it looks. Physically, however, the painting does not change.



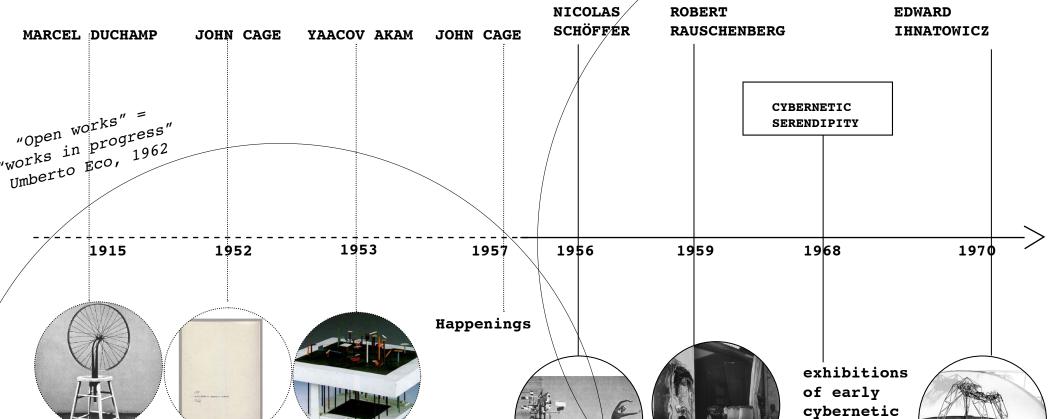
By 'interactive art system' we mean the category where human actions, or measurements from human bodies such as heart rate, affect the behaviour of the system.

"Open system" = which at least some of the elements can be changed by external forces.

Ernest Edmonds

JUST FEW NAMES AND FACTS

"Interactive Art" rather than " participatory"



Bycicle Wheel

by the new

http://infospigot.typepad.

chronicles/2009/07/bicycle-

com/infospigot the

hubs

wheels html

excited perhaps incomplete without the technology in actions and bicycle wheel attention of the audience

4: 33

'silent'

piano piece

http://www.moma. org/d/assets/

artworks that could be rearranged by the audience

Transformable

Reliefs

http://www.artnet.com/ WebServices/images/

interacted with a dancer and the environment, using photoelectric cells and a microphone as

http://cyberneticzoo. com/wp-content/uploads/ Schoffer-Cysp-_0014%20-%20 copy-x640.jpg

sensors

'combine' CYSP 1: Dynamic Sculpture painting Broadcast

> which had three radios built into it that members of the audience were free to tune as they wished.

and

computer-

LONDON.

based art.

http://www. rauschenbergfoundation.org/ artist/chronology-new

The Senster

was a very early, possibly the first. interactive sculpture driven by computer.

http://www. interactivearchitecture. org/2008/senster1.jpg

no linear narrative

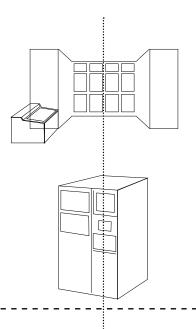
current focus

understanding and exploring the area in terms of participant experience

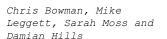
Experience can take many forms, from pleasure to fear, from captivation to creation, of danger, of difficulty, of joy.

Costello and Edmonds,

A few examples of the technologies that have been employed include robotics, global positioning systems, the web, virtual reality and many interaction techniques, such as gesture recognition, image processing and active objects











INTRO_ TOOLS

TOOLS

ARDUINO

It's a hardware and software company, project, and user community that designs and manufactures computer open-source hardware, open-source software, and microcontroller-based kits for building digital devices and interactive objects that can sense and control physical devices.

Max / MSP / Jitter:

It's a visual programming language that helps you build complex, interactive programs without any prior experience writing code. MaxMSP is especially useful for building audio, MIDI, video, and graphics applications where user interaction is needed.

Maxuino:

It's a max patch that lets you use max software to program arduino hardware.

Sensors:

Webcam, temperature, accelerometer, microphone, light, humidity, water level, air pollution, tilt, joystick, potentiometers, infrared (IR), ultrasonic (distance), EEG, ECG (EKG), etc.

PATCHES TO BE EXPLORED

1) WATER

(Play a melody by touching water)

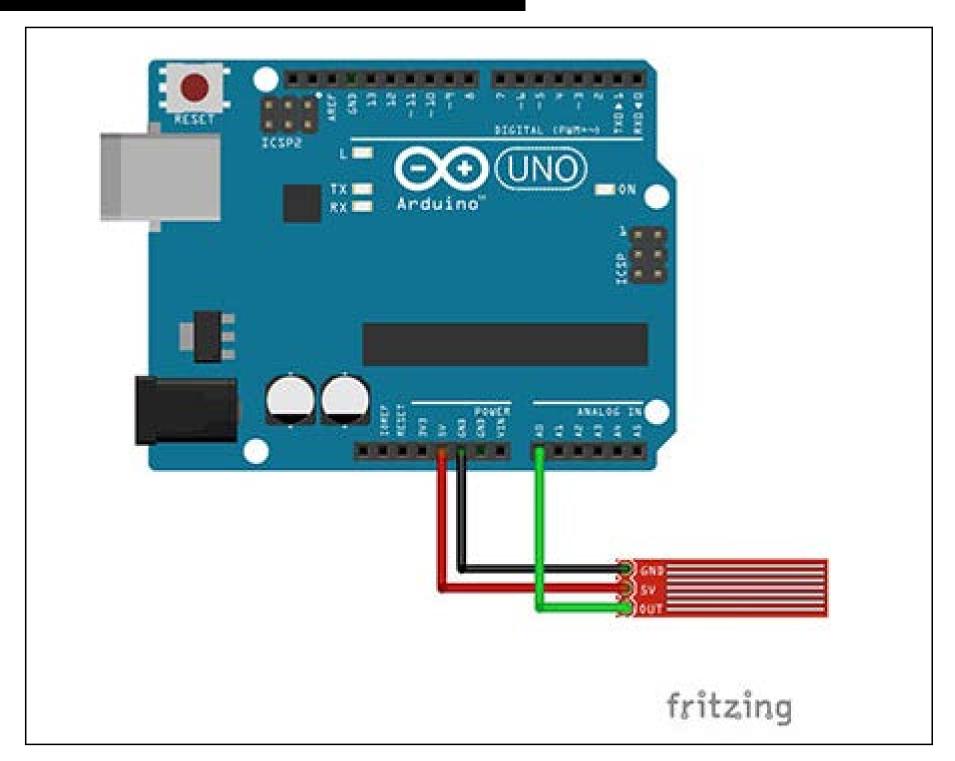
(Turn the motor by playing the right pitch)

3) FIRE >

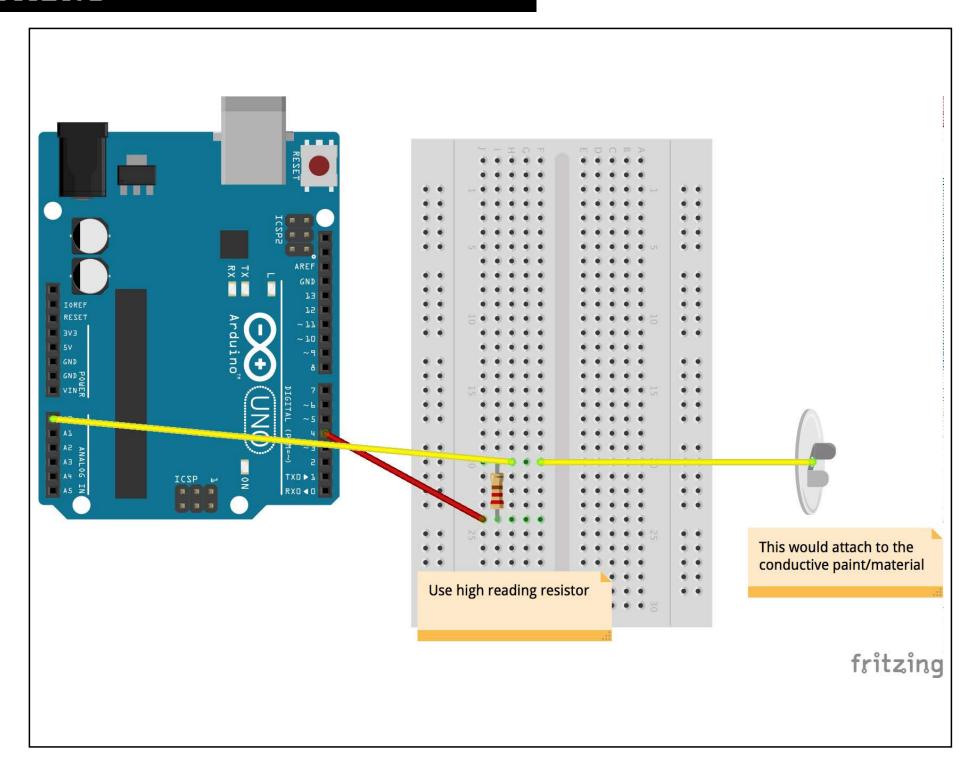
(Change Video FX with photoresistor)

4) MOTOR (Motor speed controlled by the pitch)

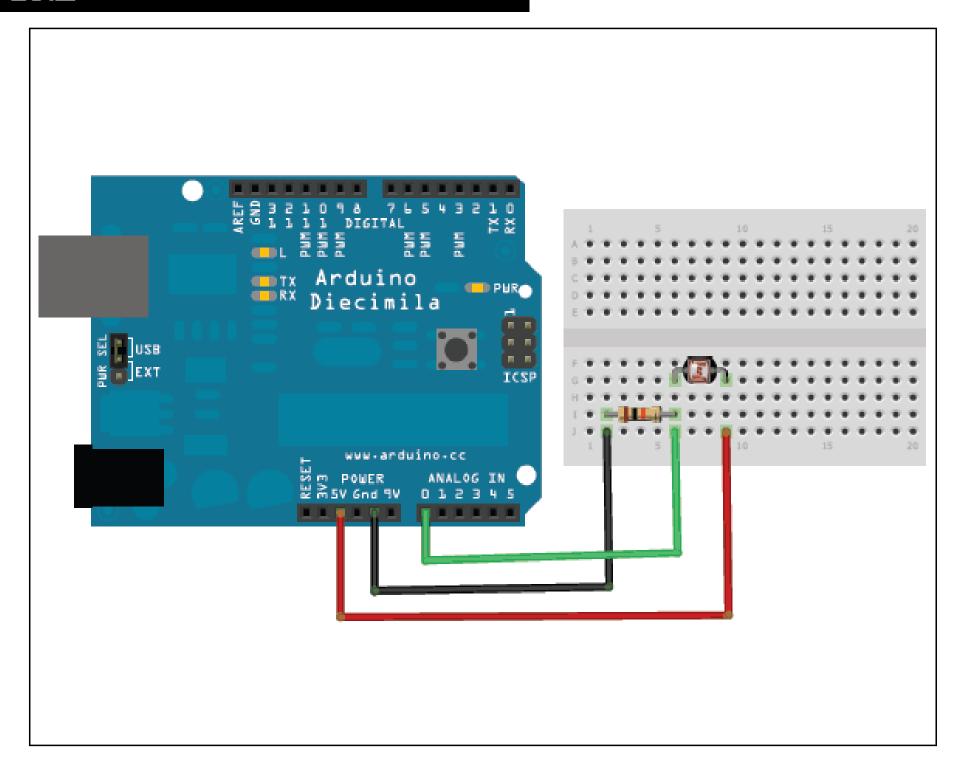
WATER



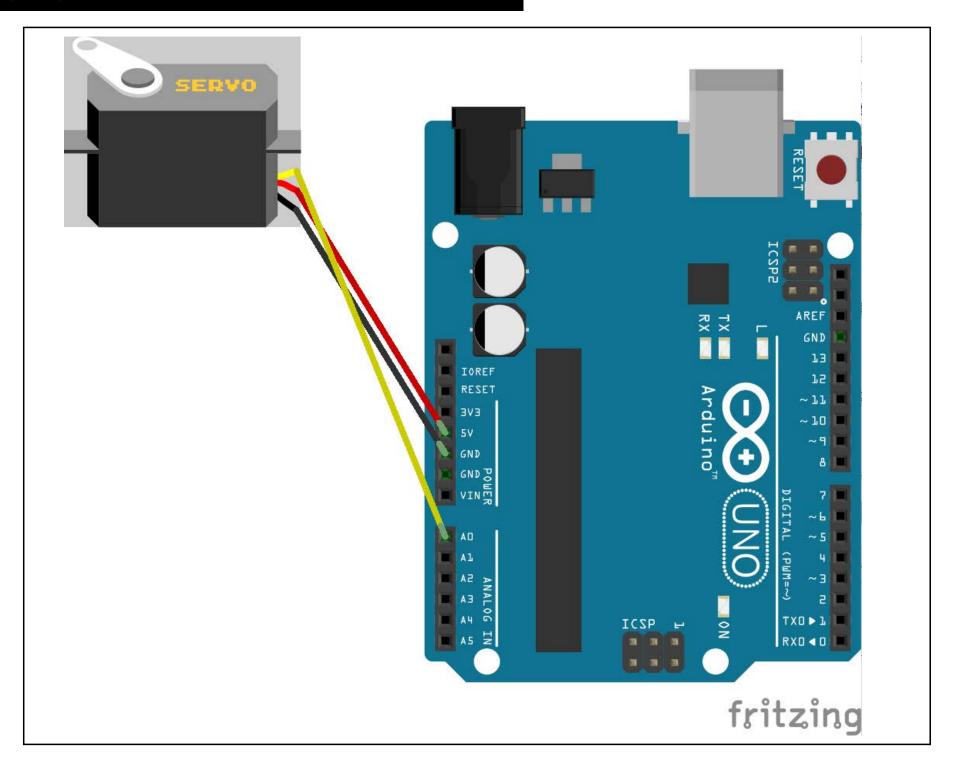
PAINT



FIRE



MOTOR





If later you will have any questions /
ideas on collaboration - you are welcome
to write to us:

Dillon Bastan

The2vvo

www.facebook.com/dillonbastanartist

www.facebook.com/ the2vvo thanks for coming today; thanks, Studio 106, for hosting us.

JULY 30. 6-9 pm VOR ORT EXHIBITION @ STUDIO 106 LA