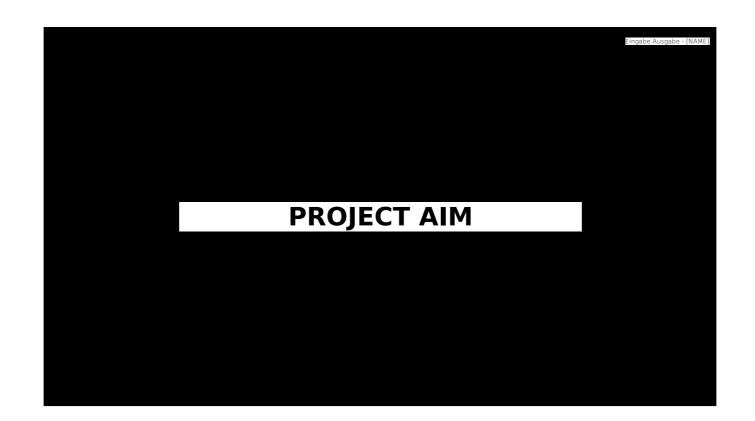


Eingabe Ausgabe - [NAME

FABIAN MORÓN ZIRFAS

Interfacer Lab Supervisor



Eingabe Ausgabe - [NAME]

PROJECT AIM

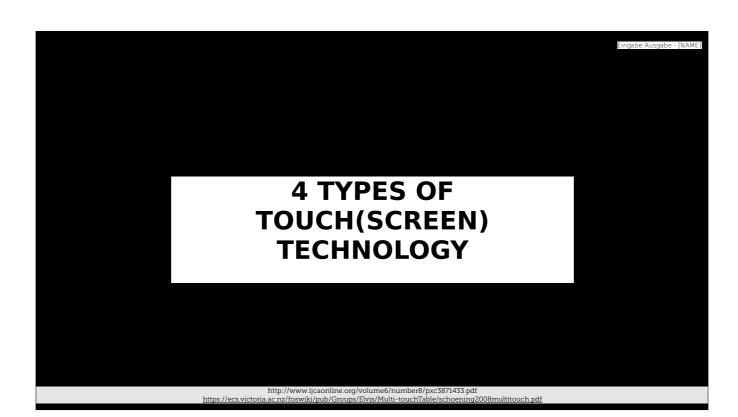
MT Basics using

Computer Vision (Bare Bones)

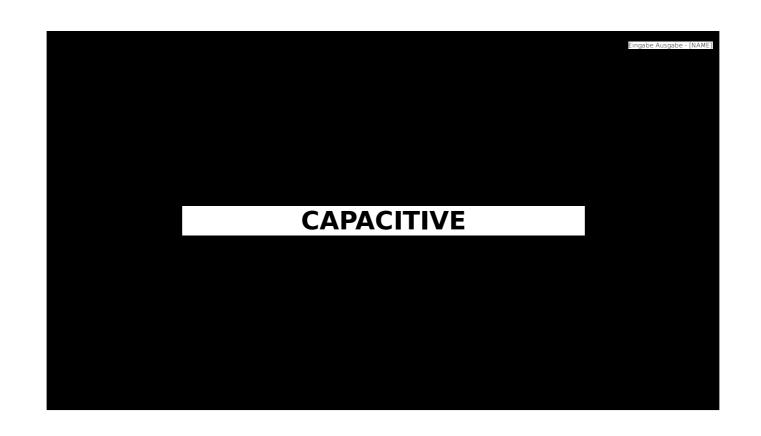
Physical Computing (Capacitiv & Acoustic)

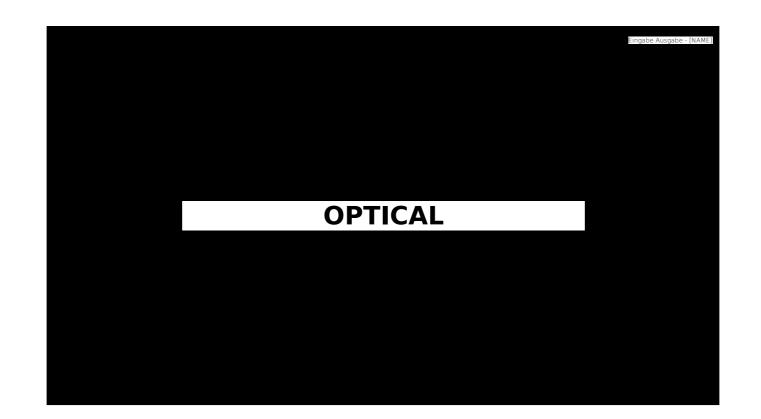
Open CV (Adavanced)

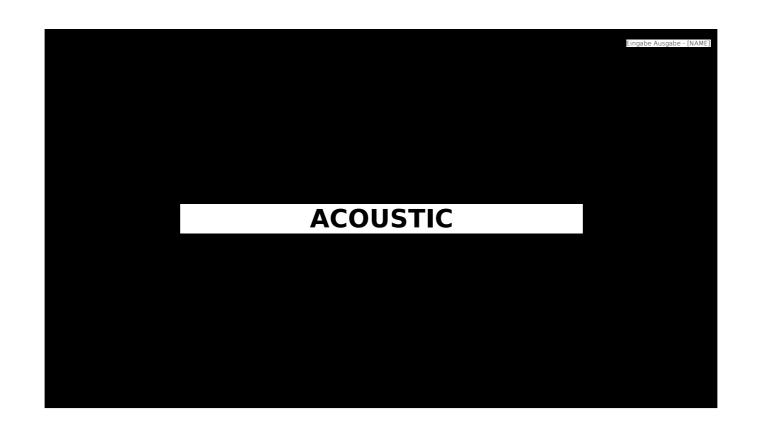
Exhibition17.10.2014













unvollständig

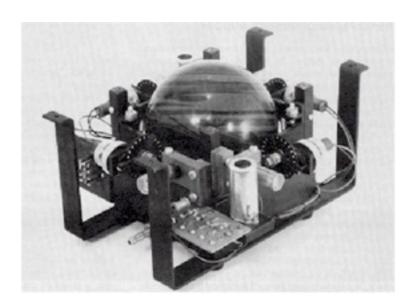


resistiv



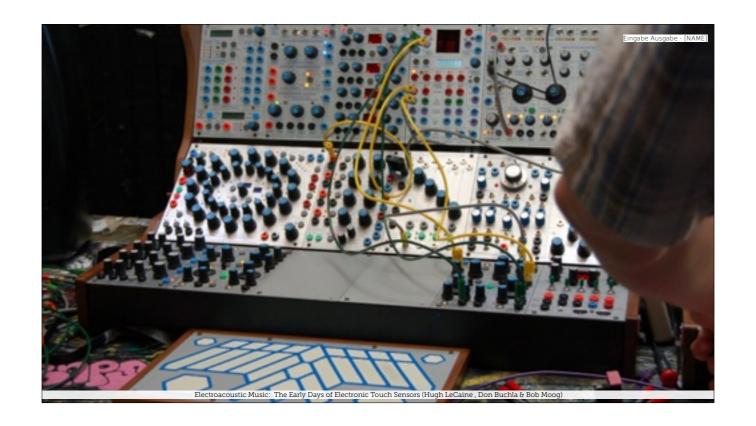
resistiv

Eingabe Ausgabe - [NAME]



1945: Trackball (Ralph Benjamin)

trackball



capacitive



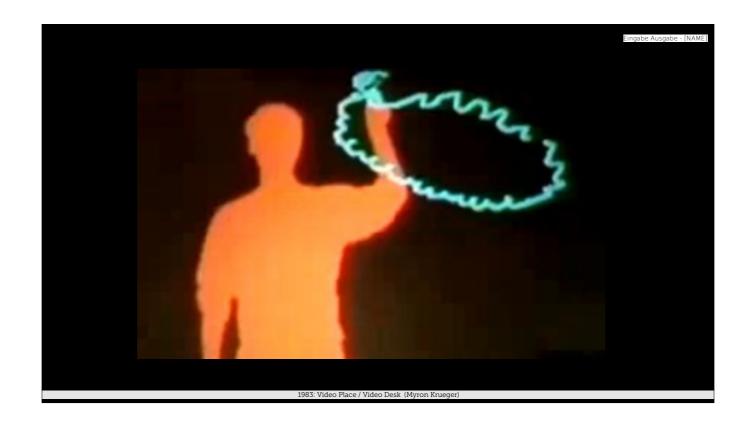
mechanical



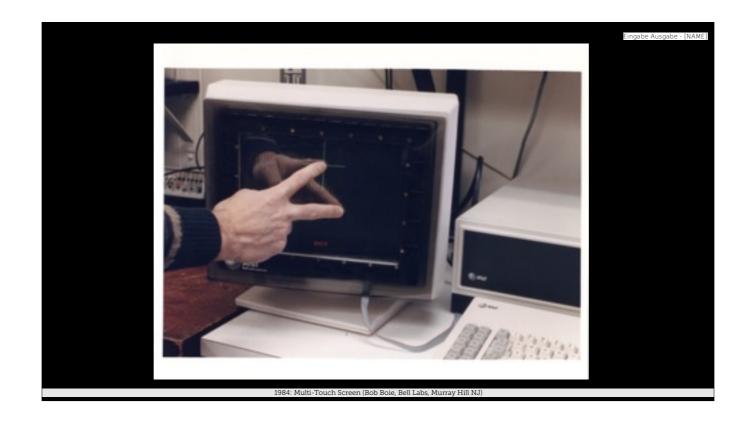
single touch capacitive



Plato IV optical (IR)



optical Video https://www.youtube.com/watch?v=dmmxVA5xhuo



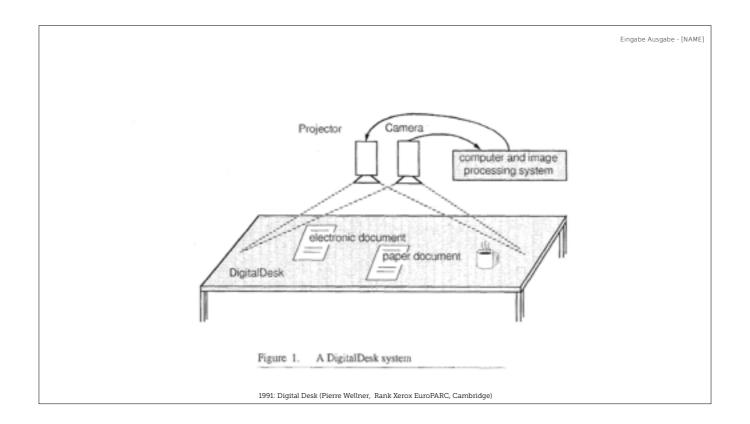
capacitive



capacitive



The device used optical sensors in the corners of the frame to detect fingers.



An early front projection tablet top system that used optical and acoustic techniques to sense both hands/fingers as well as certain objects, in particular, paper-based controls and data. https://www.youtube.com/watch?
v=S8ICetZ_57g



IBM and Bell South release what was arguably the world's first smart phone, the Simon.

What is of historical interest is that the Simon, like the iPhone, relied on a touch-screen driven "soft machine" user interface.

While only a single-touch device, the Simon foreshadows a number of aspects of what we are seeing in some of the touch-driven mobile devices that we see today.

Sidebar: my two working Simons are among the most prized pieces in my collection of input devices.

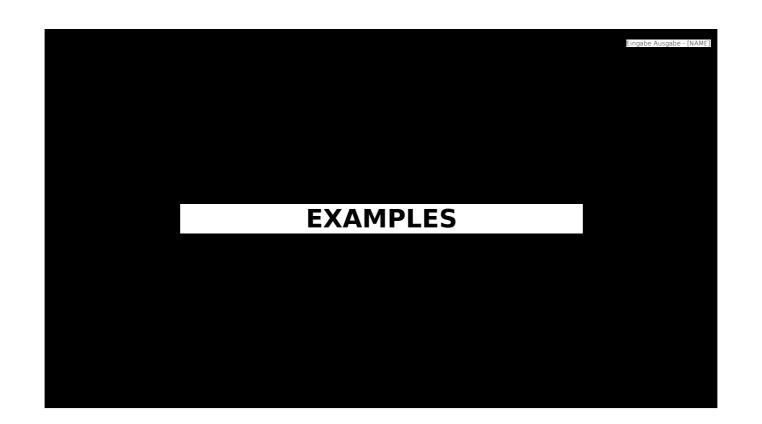
Eingabe Ausgabe - [NAME]

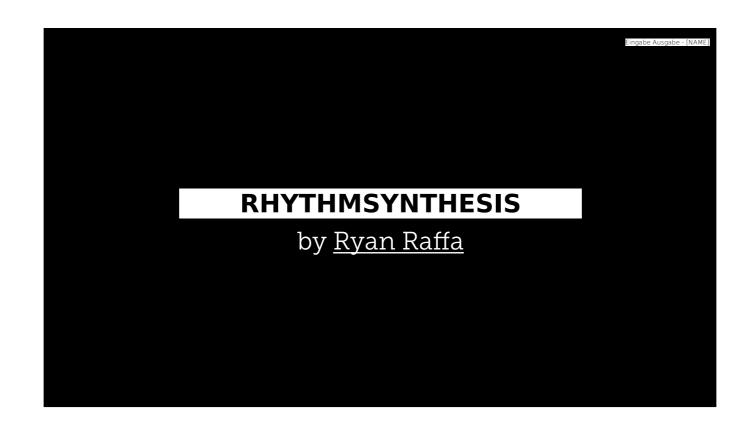
AND MANY MORE

see Bill Buxtons site for further research

1992: Wacom, 1992: Starfire, 1994-2002: Bimanual Research, 1995: Graspable/Tangible Interfaces, 1995/97: Active Desk, 1997: T3, 1997: The Haptic Lens, 1998: Tactex Controls, ~1998: Fingerworks, 1999: Portfolio Wall, 2001: Diamond Touch, 2002: HandGear + GRT. DSI Datotech, 2002: Jun Rekimoto Sony Computer Science Laboratories, 2003: University of Toronto, 2003: Jazz Mutant, 2004: Neonode N1 Mobile Phone, 2004: TouchLight, 2005: Reactable, 2005: Blaskó and Steven Feiner, 2005: PlayAnywhere, 2005: Jeff Han, 2005: Tactiva, 2005: Toshiba Matsusita Display Technology, 2005: Tomer Moscovich & collaborators, 2006: Benko & collaborators, 2006: Plastic Logic, 2006: Synaptics & Pilotfish, 2007: Apple iPhone, 2007: Microsoft Surface Computing, 2007: ThinSight, 2008: N-trig, 2011: Surface 2.0

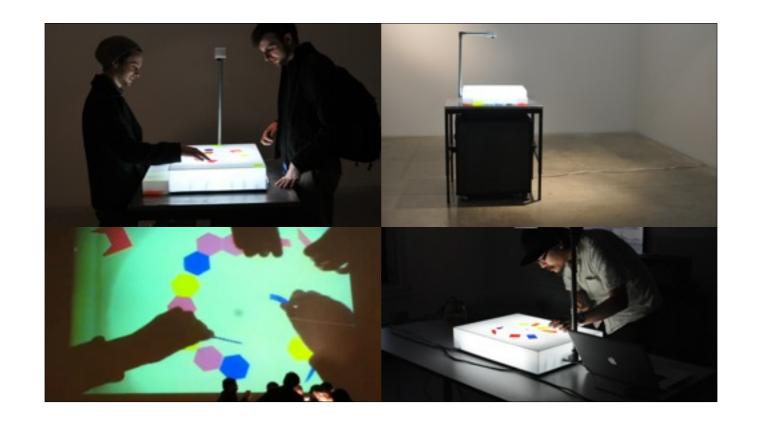
Ab hier werden die bisher eingeführten Techniken verbessert und erweitert





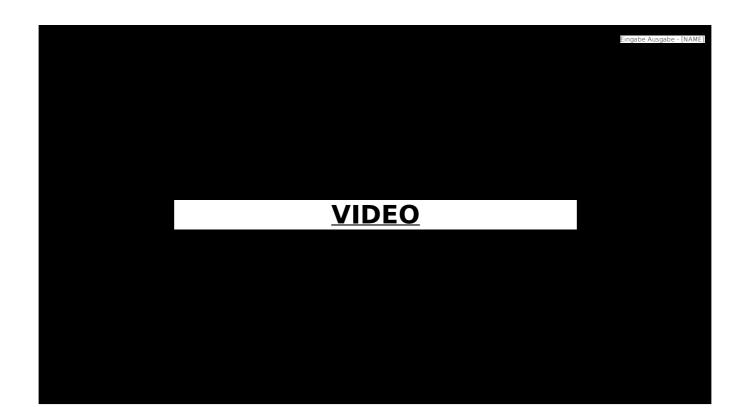
http://www.ryanraffa.com/parsons/thesis/category/concept/

https://vimeo.com/25090948



http://www.ryanraffa.com/parsons/thesis/category/concept/

https://vimeo.com/25090948

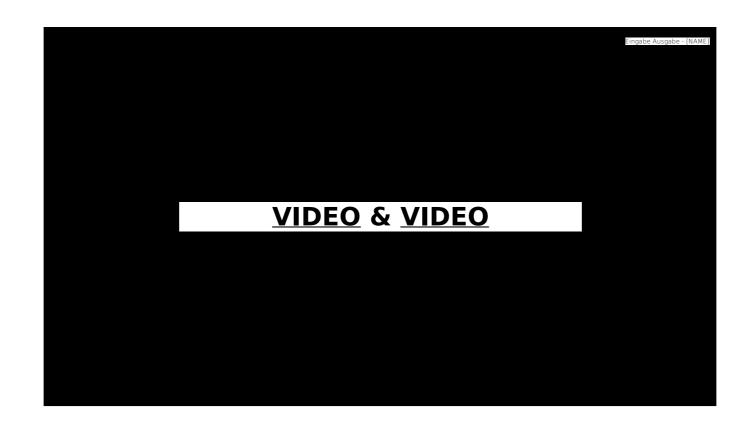


https://vimeo.com/25090948



crapple (2005: Golan Levin) is an audiovisual performance in which everyday objects placed on a table are interpreted as sound-producing marks in an "active score." The Scrapple system scans a table surface as if it were a kind of music notation, producing music in real-time from any objects lying there. The 3-meter long table produces a 4-second audio loop, allowing the performers to improvise audiovisual compositions in real-time. https://vimeo.com/2379890



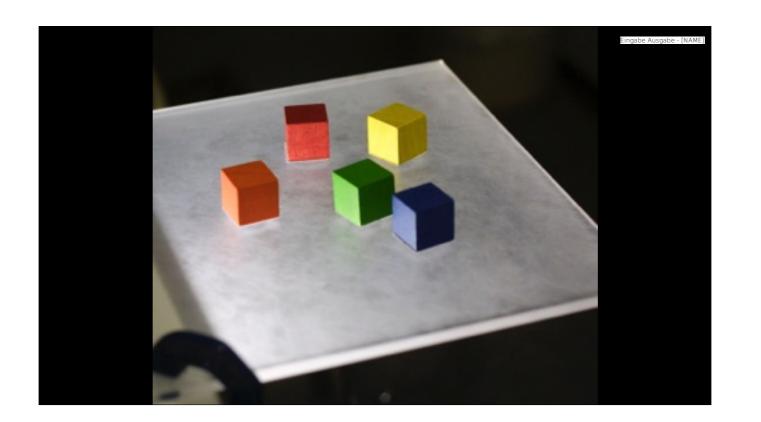


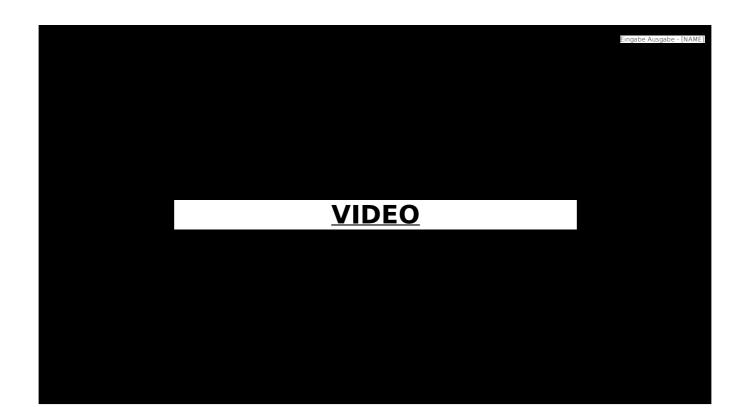
https://vimeo.com/2379890 & https://vimeo.com/2379389



Optical system

Trackmate is an inexpensive, do-it-yourself tangible tracking system that allows your computer to recognize tagged objects and their corresponding position, rotation, and color information when placed on a surface. Trackmate sends all object data via LusidOSC (a protocol layer for unique spatial input devices), allowing any LusidOSC-based application to work with the system.

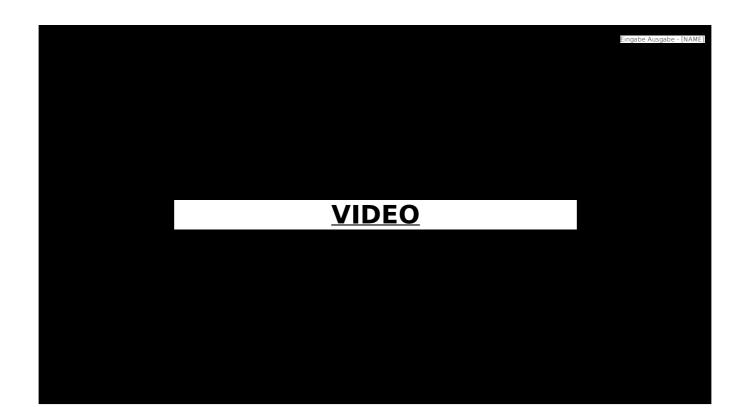






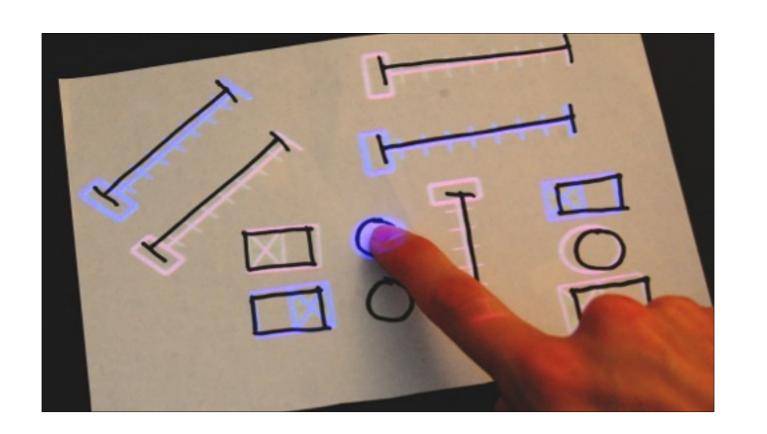
http://felixfaire.com/portfolio/contact/

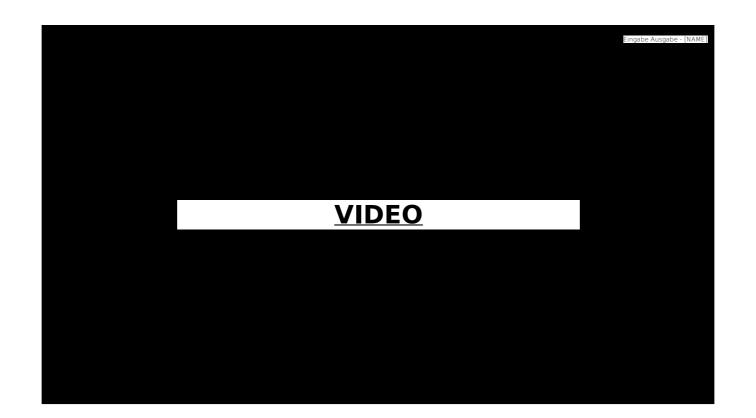






https://github.com/bluekeyes



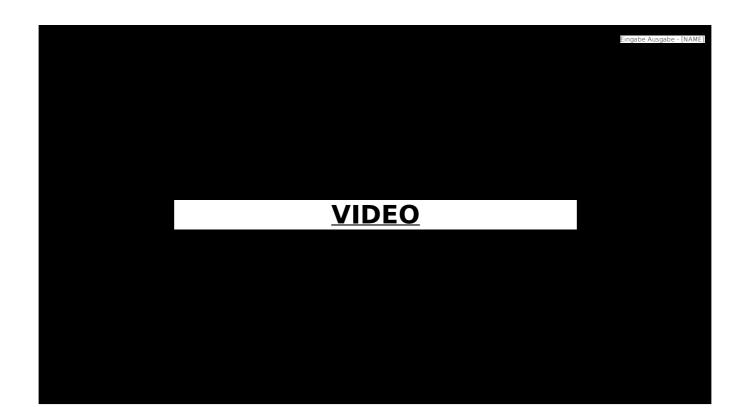




http://thesystemis.com/projects/drawn/

http://v2.nl/archive/works/drawn

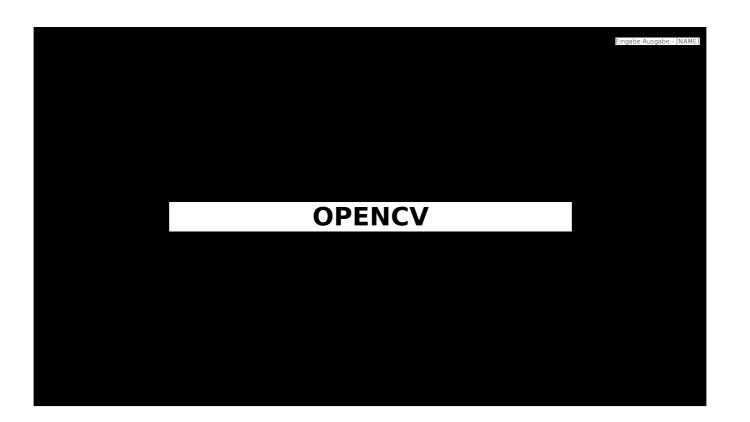






Juri





Jordi

ingabe Ausgabe - [NAME]

OPENCV

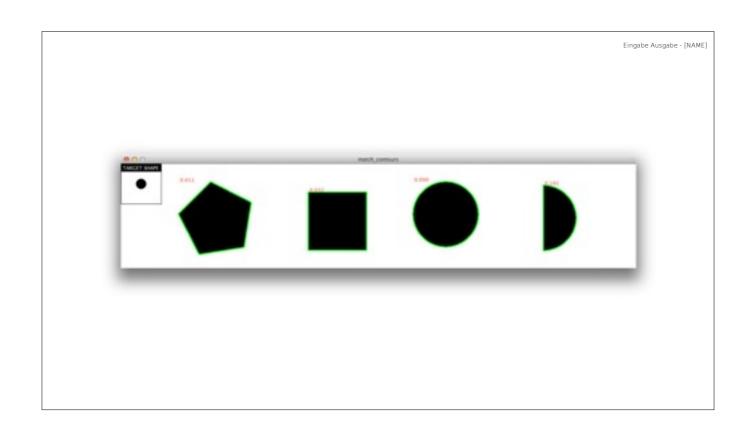
(Open Source Computer Vision Library)

is an open source computer vision and machine learning software library. OpenCV was built to provide a common infrastructure for computer vision applications and to accelerate the use of machine perception in the commercial products.

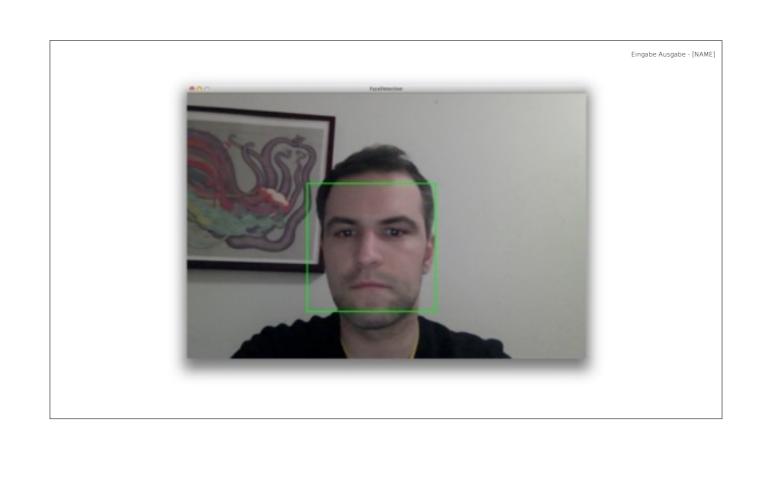
http://opencv.org/

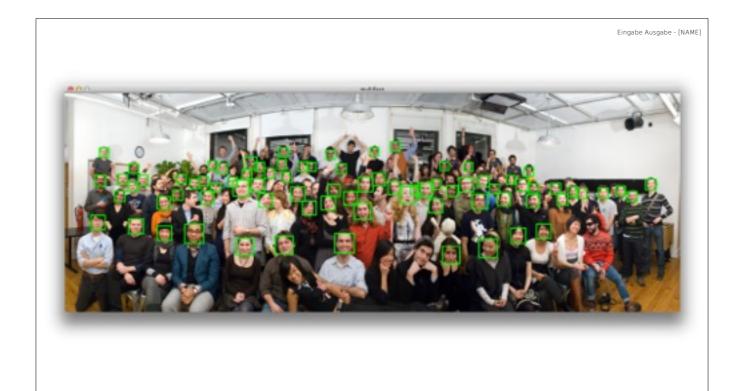


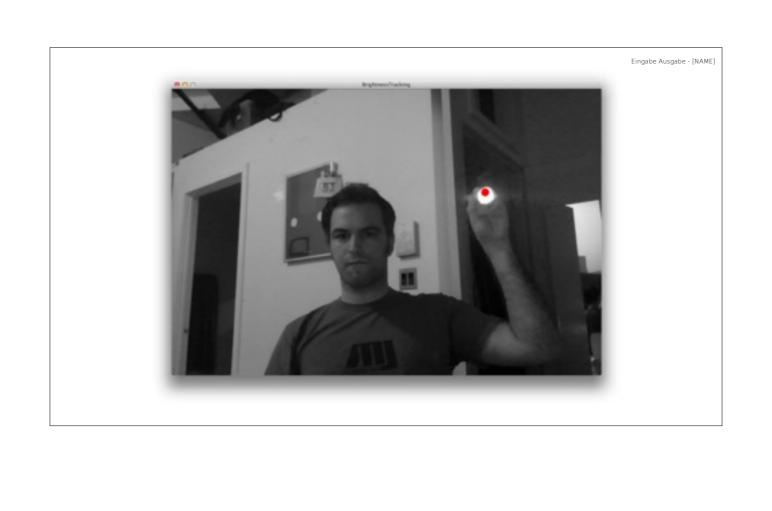
Jordi? http://gregborenstein.com/

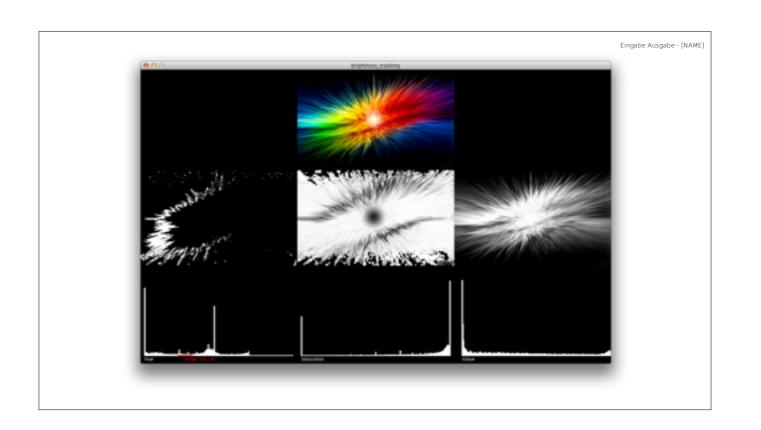


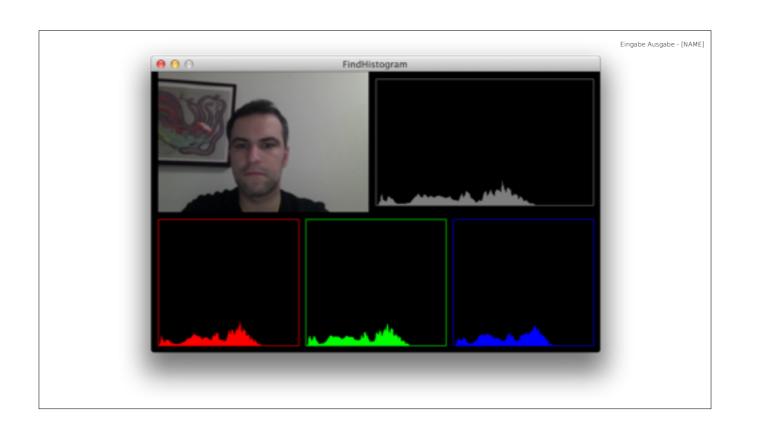


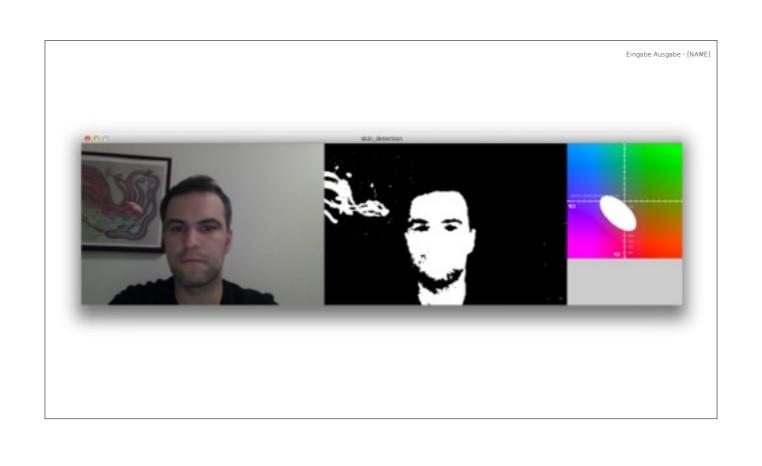








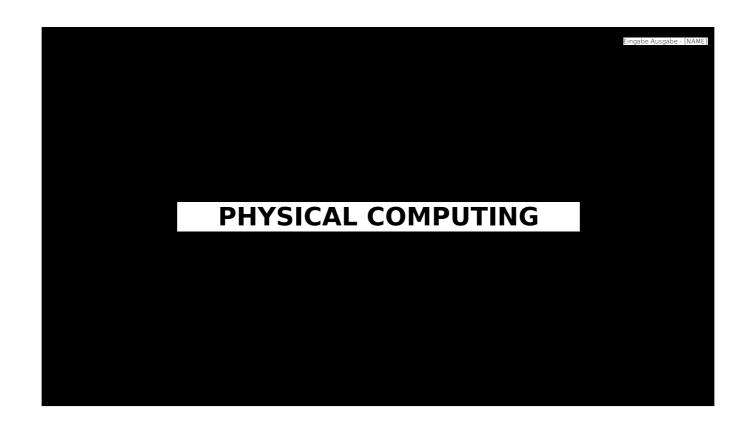




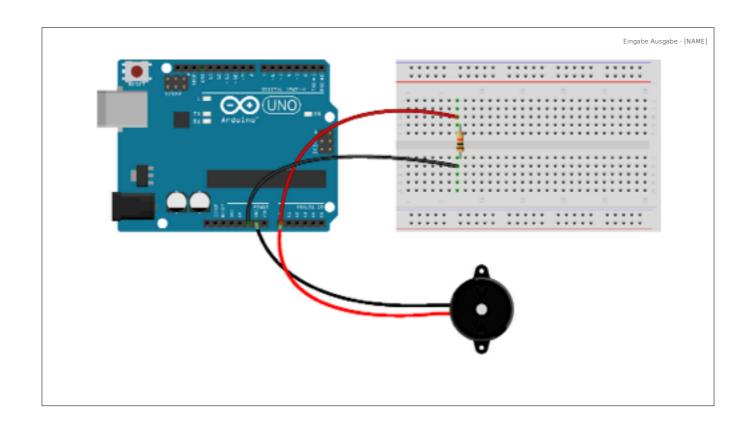
Eingabe Ausgabe - [NAME]



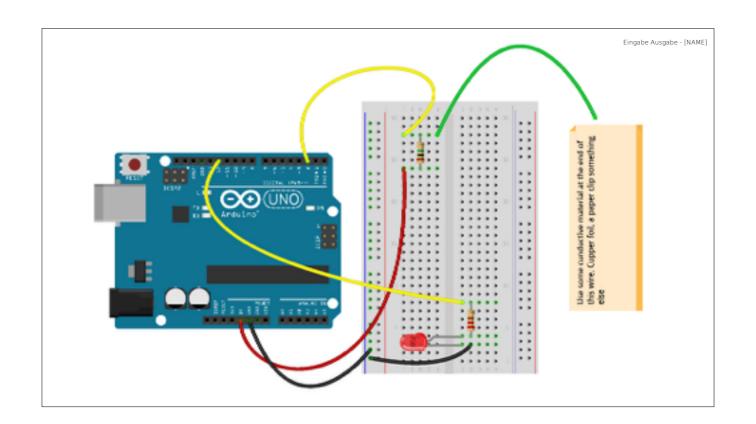




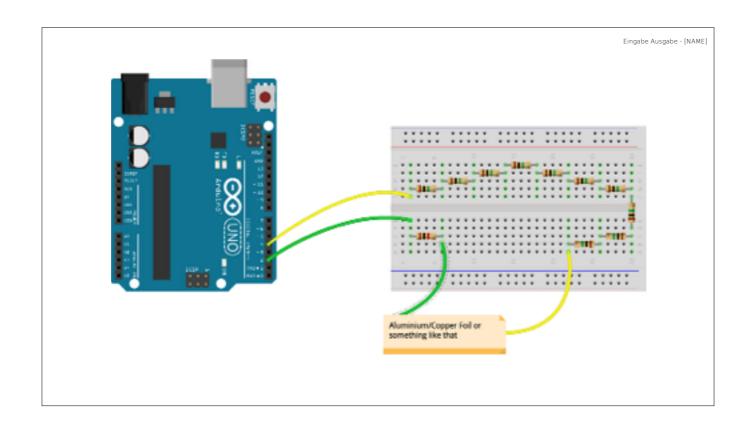
Fabian



Knock acoustic



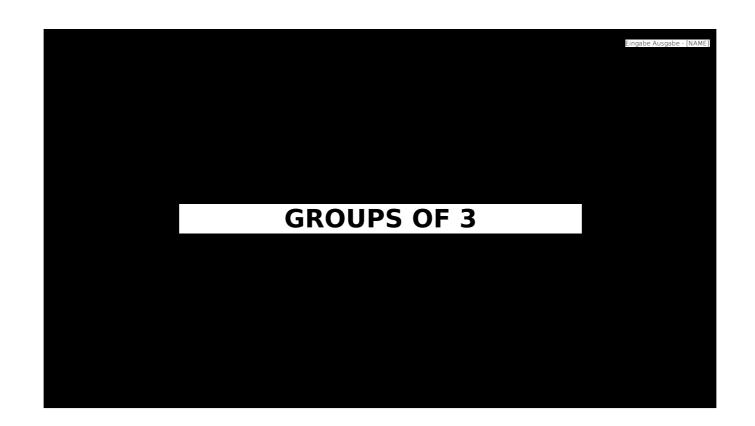
Capacitive Digital



Capacitive Analog



https://www.olimex.com/Products/Duino/AVR/OLIMEXINO-85S/open-source-hardware





Aufgabe zu morgen