

# Jake Elwes WORKS 2018

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# Latent Space

*2017, digital video, 45 minute loop*

*Edition of 5 + 2 artist proofs*

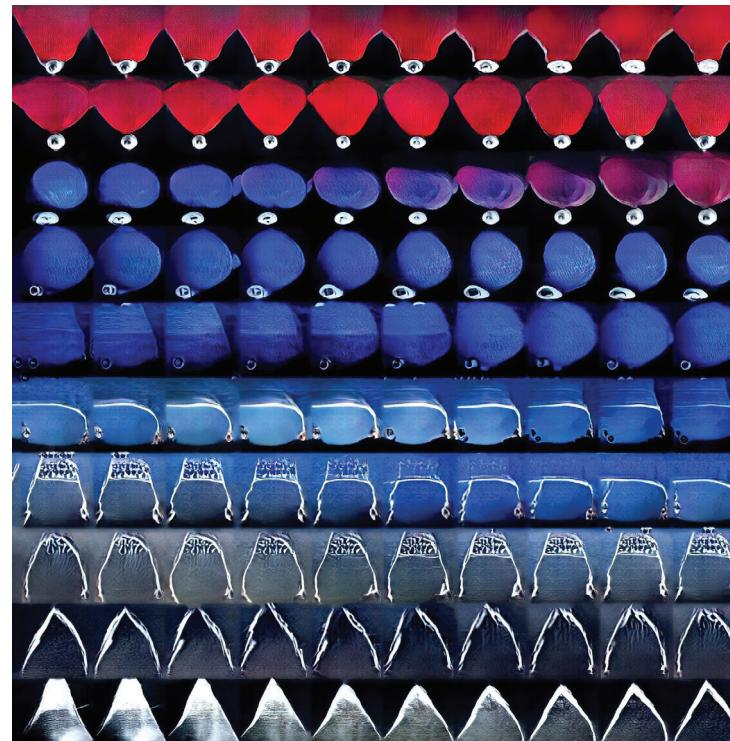
Special thanks to Anh Nguyen et al. at Evolving-AI  
for their work on GANs.

What happens when an AI algorithm that has  
been trained to generate humanly recognisable  
original images is freed to create images at will?

Latent Space is a video snap-shot of a generative  
adversarial neural network, an AI algorithm  
trained using 14.2 million photographs,  
continuously producing new images – a digital  
subconscious conceiving of new images and  
visualising a ‘latent space’.



Installation image of Latent Space at the Slade Degree Show 2017



Sequence of frames from Latent Space

# Closed Loop

*2017, 2-channel digital video,  
200 minute loop  
Edition of 5 + 2 artist proofs*

Closed Loop is a recording of two artificial intelligence models conversing with each other – one with words the other with images – in a never-ending feedback loop. The words of one describe the images of the other, which then seeks to describe the words with a fresh image... Two neural networks getting lost in their own nuances, sparking and branching off each other as they converse in a perpetual game of AI Chinese whispers.

Two neural networks: a language captioning recurrent neural network writing what it sees in the images generated, and a generative neural network generating images responding to the words generated.

Two datasets to train the algorithms: a dataset of 4.1 million captioned images to train a language network, and the Imagenet dataset of 14.2 million photographs to train the image generator network.

*Collaborative project with Roland Arnoldt. Special thanks to Anh Nguyen et al. at Evolving-AI for their work on GANs.*



*white wall behind the window*



*bird flying in the air*

Installation image of Closed Loop at the Slade Degree Show 2017

Single channel rendering of two channel video installation

# dada da ta

2016, Digital Video, 20 minute loop

Edition of 5 + 2 artist proofs

In 'dada da ta' over 50 hours of interviews have been sourced from YouTube then processed using the IBM Watson AI speech to text programme to transcribe the interviews and a custom-made computer programme to extract in time order the instances of the participants speaking in numbers and then remove the words from the source videos – leaving the interview's chronology intact yet reduced to a stream of numbers:

"One, one billion, one million, one hundred million, two billion, one, two hundred, ten thousand, eighteen thousand, two, two, two, ten, fifteen, nine thousand." Elon Musk.



Stills from dada da ta

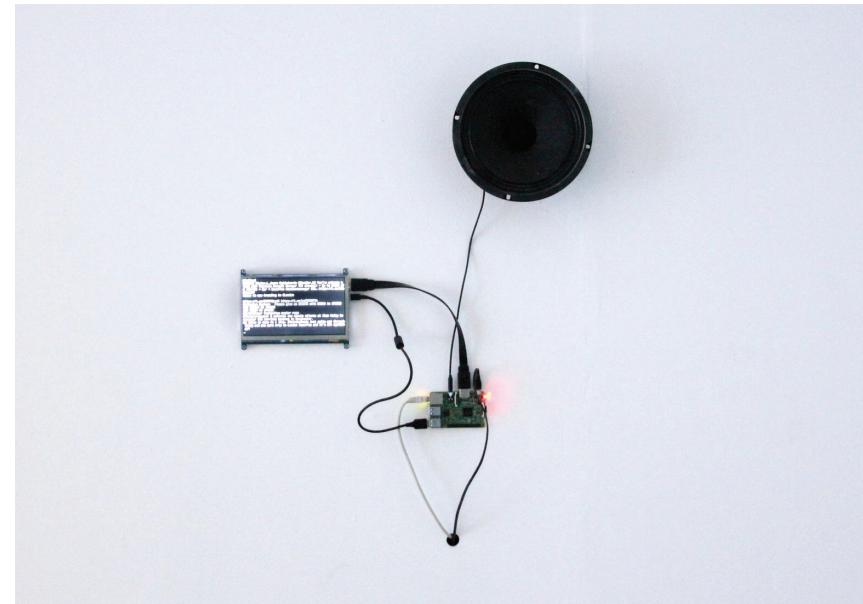


Installation image of  
dada da ta at Swiss  
Mobilair 2017

# Digital Whispers

*2016, mixed media (raspberry pi computer, LCD screen, speaker and custom program), 60x50x10 cm  
Edition of 3 + 2 artist proofs*

Tweets in a 2 mile radius of the pieces' installation are displayed on an LCD screen while the computer simultaneously whispers the tweets as a live performance.



Installation image of Digital Whispers at Swiss Mobiliar, Bern 2017



Installation image of Digital Whispers at the Bloomberg New Contemporaries, Baltic 2017

# Auto Encoded Buddha

*2016, mixed media (monitor, computer running customised A.I. software, buddha)  
Edition of 3 + 2 artist proofs*

Hommage to Nam June Paik's 'TV Buddha' 1976.  
Collaboration with Roland Arnoldt.

A Buddha statue watches the computer attempting to draw its own image. An artificial intelligence model was trained on 5000 images of Buddha, yet the computer struggles to depict the Buddha's essence.



Installation image of Auto Encoded Buddha, Slade 2016



Installation image of Auto Encoded Buddha, Slade 2016

# Machine Learning Porn

*2016, digital video, 12 minute loop*

*Edition of 5 + 2 artist proofs*

*Inspiration from Gabriel Goh.*

A convolutional neural network, an AI, was trained using Yahoo's explicit content model for identifying pornography, which learnt by being fed a database of thousands of graphic images. The neural network was then re-engineered to generate pornography from scratch.

Machine Learning Porn is a 12 minute looped film that records the AI's pornographic fantasies.



12 non-consecutive stills from  
Machine Learning Porn



Installation render of Machine  
Learning Porn

# Digital Caress

*2015, large format inkjet prints on  
aluminium sheet, 110x60cm  
Series of 9 unique prints*

These gestures are the residue on the screen of an iPhone from human touch (the grease of one's finger). The gestures and twitches are often recognisable according to the app. For example, the swiping left and right of Tinder, and the imprint of stubble from a phone call. Each image derives from a different app, displaying the material remnants of interacting with a virtual window.



Tinder



Calculator



Calendar



Camera



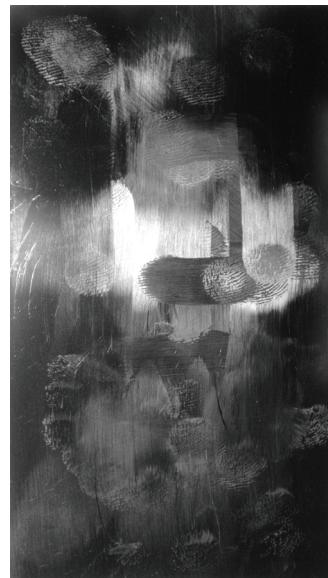
Google Maps



Messages



Phone



Settings



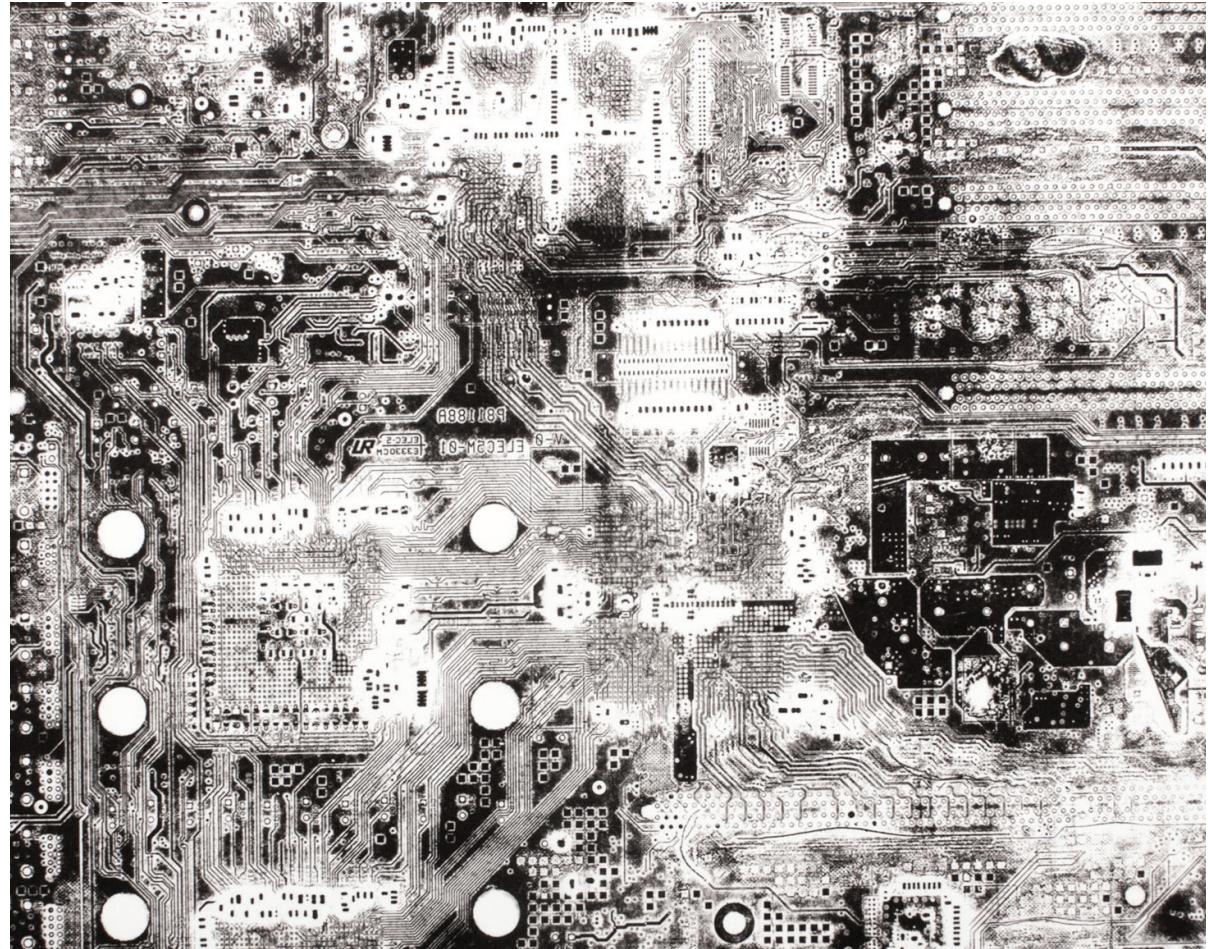
Snapchat

# Solid State

*2015, Relief and Intaglio Prints, 35x27cm  
& 24x19cm*

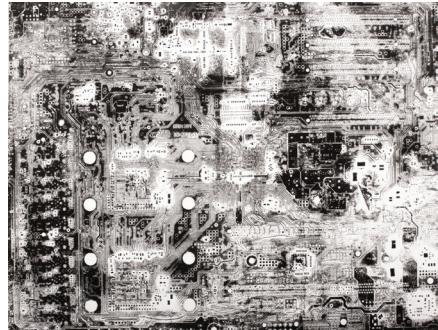
*Series of 10 and 6 unique prints*

Relief and Intaglio prints made directly from circuit board surfaces. The circuit boards were prepared by burning to remove components then run through a printing press.



Solid State, Component Series #1

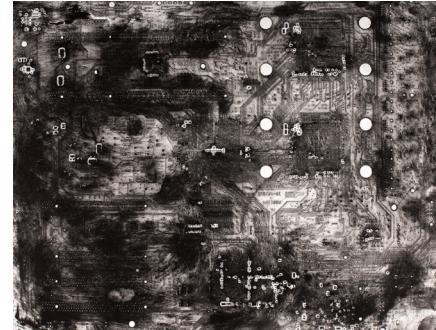
*Solid State, Component Series - plate size 35x27cm*



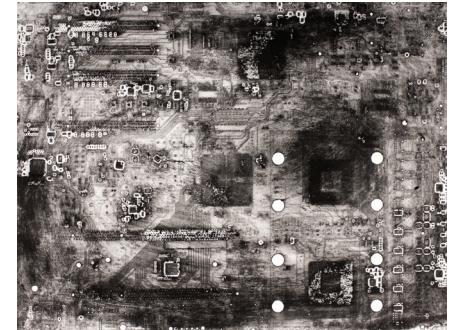
Solid State #1



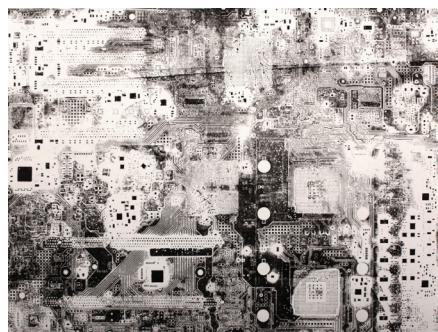
Solid State #2



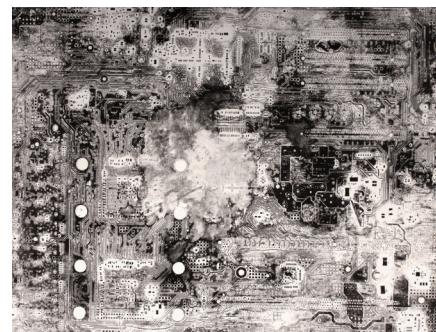
Solid State #3



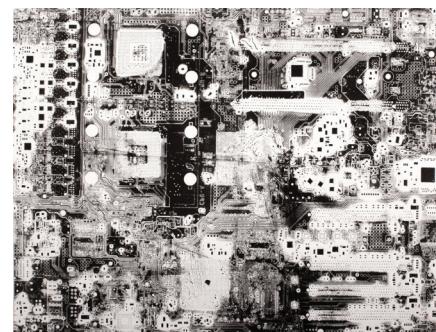
Solid State #4



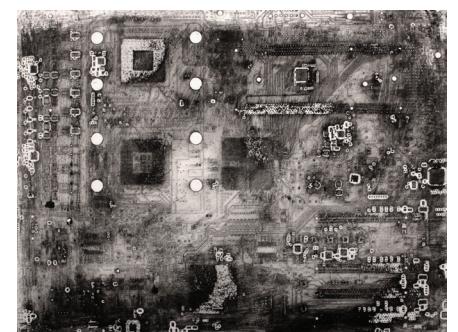
Solid State #5



Solid State #6

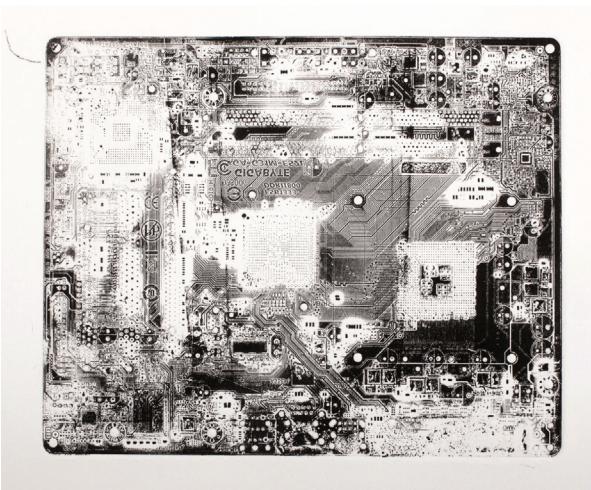


Solid State #7

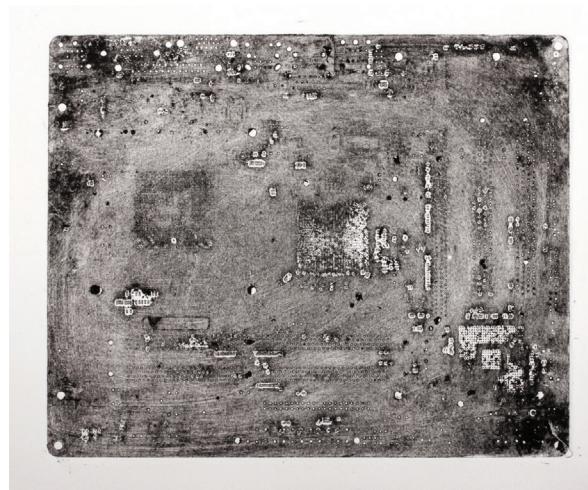


Solid State #8

*Solid State, Circuit Series - plate size 24x19cm*



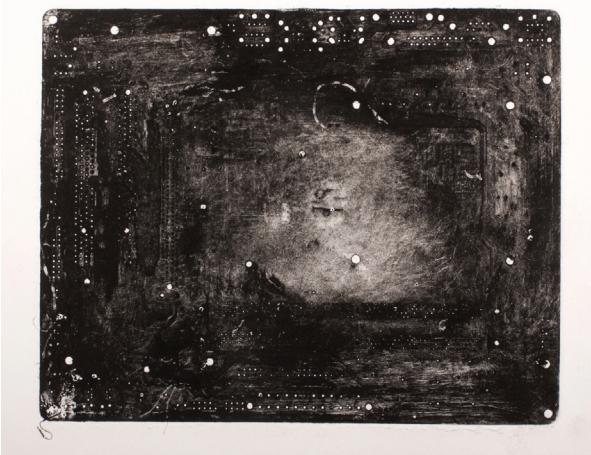
Circuit #1



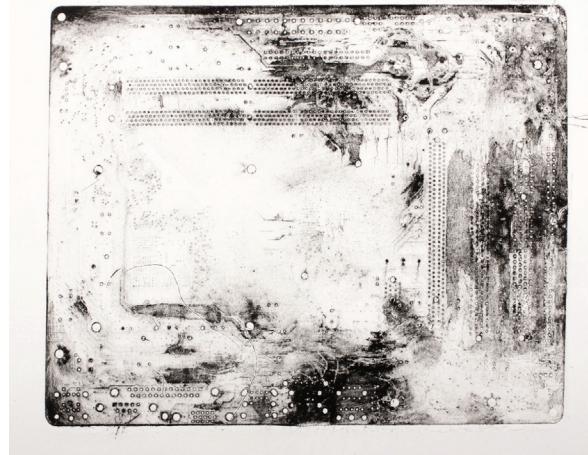
Circuit #2



Circuit #3



Circuit #4



Circuit #5



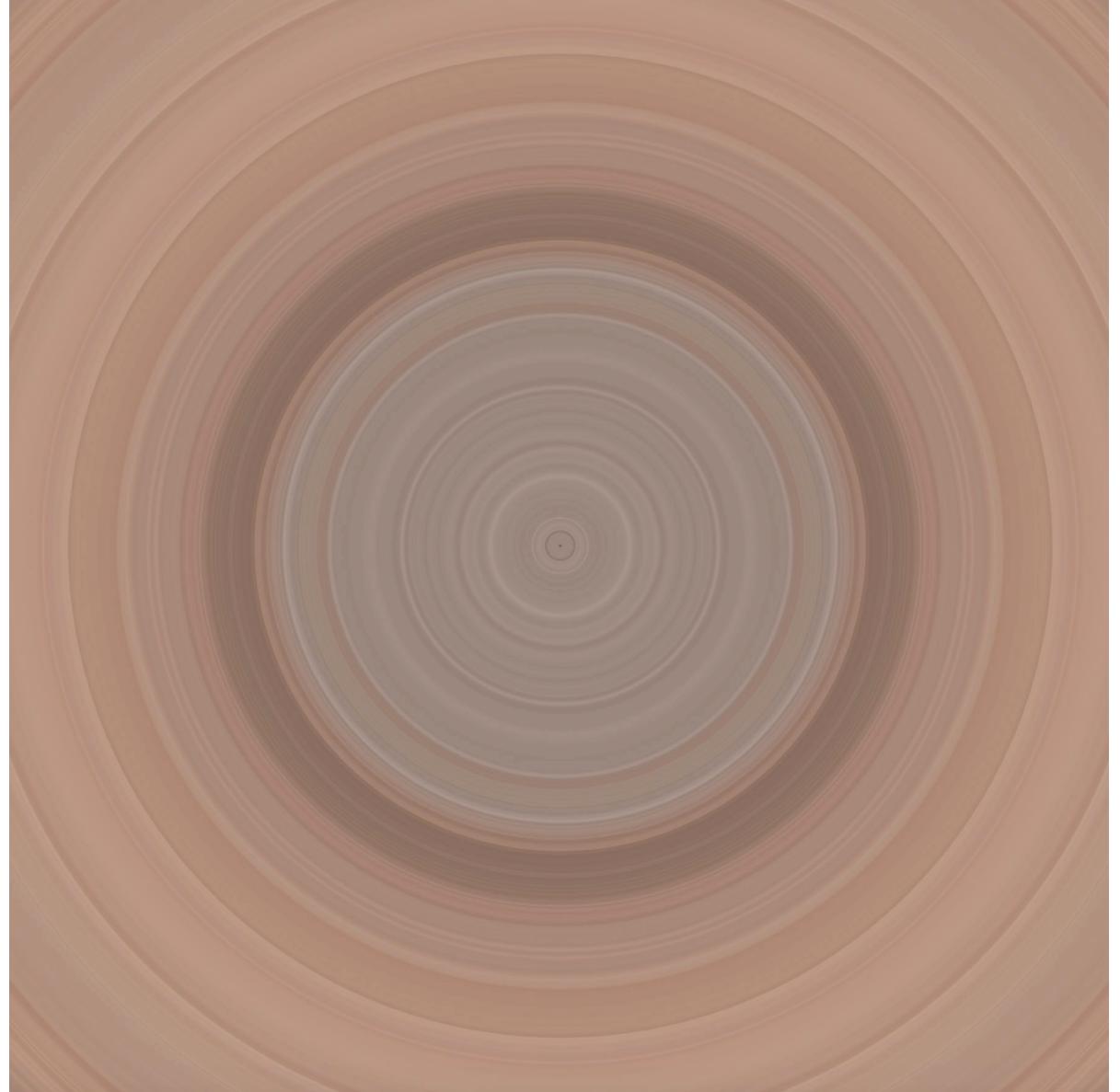
Circuit #6

# Porn Saturation

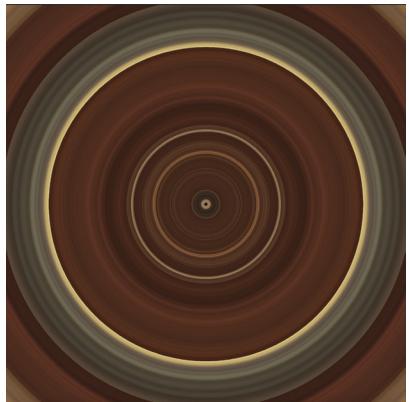
*2015, inkjet prints, pearl paper, 55x55cm*

*Series of ten unique prints*

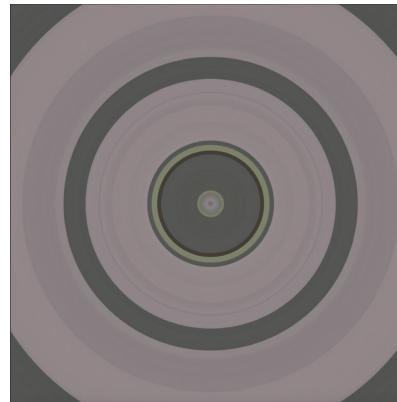
Each concentric circle represents the average colour (emanating outwards from the start of the clip) for the 10 most viewed pornographic videos on the internet.



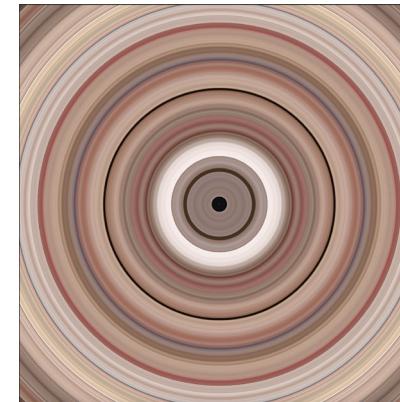
Porn Saturation #8  
36,355,897 – CHARITY TAKES IT HARD FOR AN ANAL  
CREAMPIE



Porn Saturation #1  
139,352,631 – KIM  
KARDASHIAN SEX  
TAPE WITH RAY J



Porn Saturation #2  
49,150,362 – MILF  
FUCKS DAUGHTERS  
BOYFRIEND



Porn Saturation #3  
48,868,179 – TEEN  
MOM FARRAH  
ABRAHAM SEX  
VIDEO



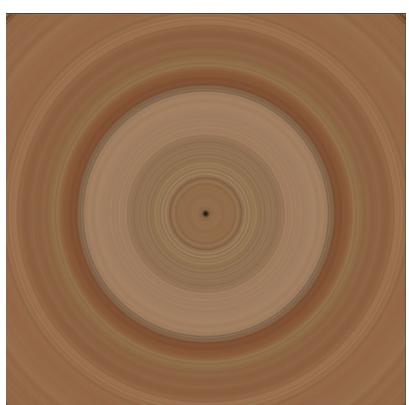
Porn Saturation #4  
45,300,861 – KIM  
K SEX TAPE PART  
2 – PORNHUB  
EXCLUSIVE



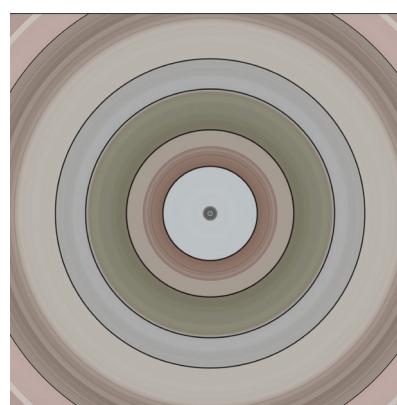
Porn Saturation #5  
43,589,343 – TEEN  
LATINA SQUIRTS  
WHILE GETTING  
CREAMPIED



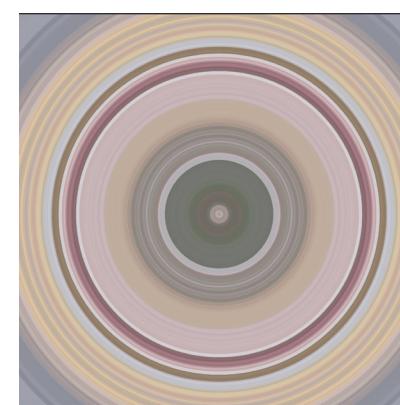
Porn Saturation #6  
40,051,505 –  
INTENSE ANAL  
FUCKING



Porn Saturation #7  
37,991,743 – BIG  
BOOBS SHIONE  
COOPER RIDES  
MARK'S STIFF DICK



Porn Saturation #9  
33,950,378 –  
EXXXTRASMALL  
– STEP BROTHER  
TAKES ADVANTAGE  
OF LITTLE SISTER

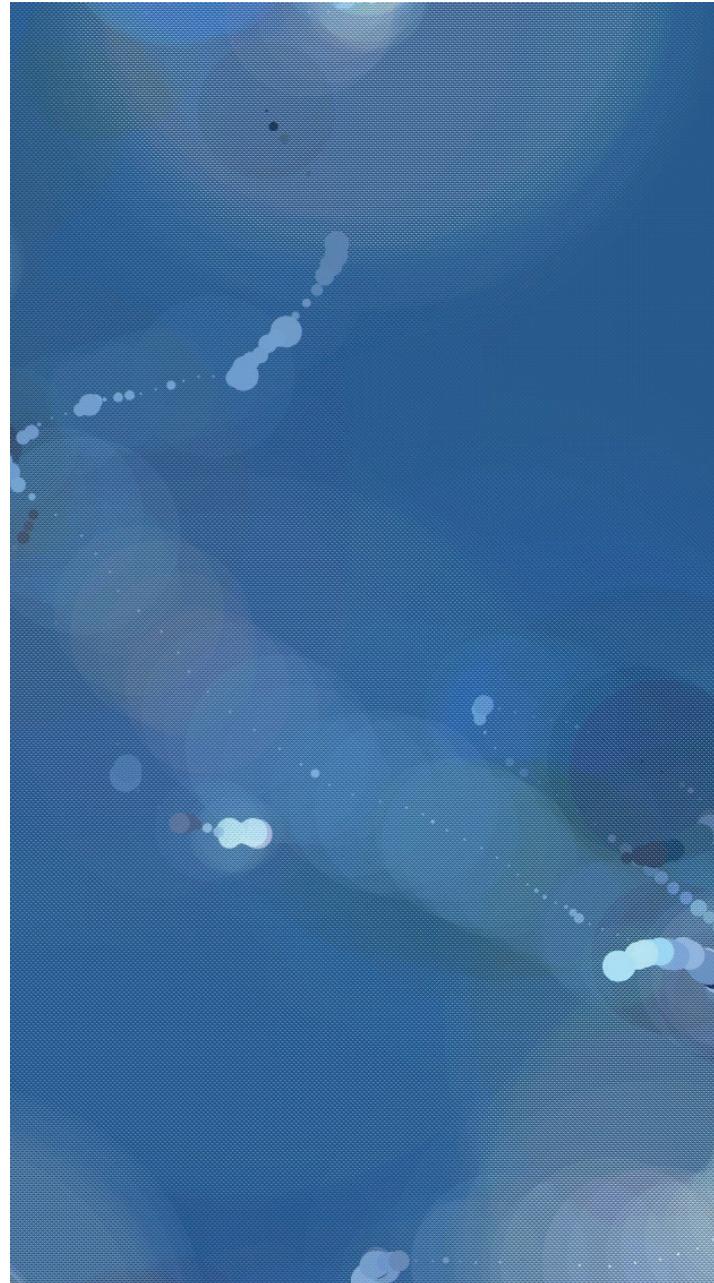


Porn Saturation #10  
30,745,787 – MIA  
KHALIFA STEPMOM  
JULIANA VEGA  
FUCKS AND SUCKS  
HER BOYFRIENDS  
COCK

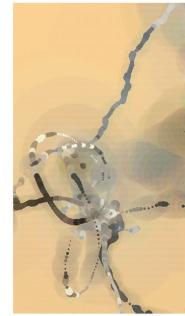
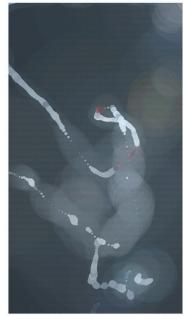
# Taking a Phone for a Walk

*2015, inkjet prints, somerset paper,  
55x30cm, containing 5 individual  
mounted prints.*  
*Series of 3 + 1 artist proof*

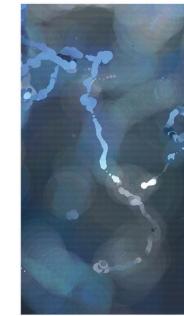
iPhone app which generates images solely from the motion and colours from the camera. The app captures the experience of three walks, similar to that of a memory image. Walks from Central London, Hampstead Heath and Chicago.



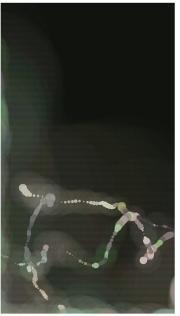
12 stills taken from random  
points of Latent Space



Take a Phone for a Walk #1  
Five Walks around Bloomsbury, London



Take a Phone for a Walk #2  
Five Walks in Downtown Chicago



Take a Phone for a Walk #3  
Five Walks around Hampstead Heath, London

# CV & Bio

**21 July 1993, London UK**

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email: [me@jakeelwes.com](mailto:me@jakeelwes.com)

mob: +44 7948 769818

instagram/twitter: @jakeelwes

## Education

**2013-17** – BA Fine Art, Slade School of Fine Art (UCL), London

**2015** – Erasmus, School of the Art Institute Chicago

**2012** – Foundation in Art & Design, Central St. Martins (UAL), London

## Further Qualifications

**2016** – ‘The Neural Aesthetic – Machine Learning for Artists’, School of Machines, Making & Make-Believe, Berlin

**2016** – ‘Creative Applications of Deep Learning with TensorFlow’, Kadenze

**2016** – ‘Machine Learning’ (Stanford University), Coursera

**2015** – ‘Programming Applications’, Computer Science BSc Module, Kings College London

## Group Shows

**2018** – Open Codes. Living in Digital Worlds, ZKM | Center for Art and Media Karlsruhe, Goethe Institute, Mumbai

**2018** – Bloomberg New Contemporaries, Block336, London

**2018** – I am here to learn: For the mechanical interpretation of the world, Frankfurter Kunstverein, Germany

**2017** – Stars of AI, Life 3.0 with Max Tegmark, Turing Lecture Theatre, Institute of Technology & Engineering, London

**2017** – Bloomberg New Contemporaries, BALTIC Centre for Contemporary Art, Newcastle

**2017** – >when machines are dreaming<, Chaos Computer Club (CCC) Datenspuren, Technische Sammlungen, Dresden

**2017** – Ars Electronica, A.I. Projects Exhibition, Artificial Intimacy Exhibition & TADA Gallery Space, Ars Electronica Festival: Artificial Intelligence, POSTCITY Linz, Austria

**2017** – Digital/Real – How Art Surfs Between Worlds, Mobiliar Headquarters, Bern, Switzerland

**2017** – AI: Myth and Reality, Leverhulme Centre for the Future of Intelligence (CFI), Cambridge

**2017** – Made: Art, Robotics & A.I., QUAD, Derby

**2017** – Google I/O Extended 2017 (demo), Google Campus London

**2017** – ‘Ask Something’ – Acud Macht Neu, Transmediale and CTM Vorspiel, Berlin

**2016** – ‘The Neural Aesthetic’, Acud Macht Neu, Berlin

**2016** – ‘Skulpture’, Grant Museum, University College, London

**2015** – ‘You have got my bone’, Foyles Bookshop, London

**2015** – ‘!!THIS TIM3 ITS R3AL!!’, Elastic Arts, Chicago

## Recent Talks

Lecture: Machine Learning, Art and Architecture – C H O R A conscious city, Institute for Architecture, Technische Universität Berlin. October 2017

Machine Learning & Art: Jake Elwes Talk – Art & Technology: Vienna, September 2017

Ars Electronica, AI Project Spaces: Artist Workshops – 9th September @ Postcity, Linz, Austria 2017

Machine Learning & Art: Jake Elwes Talk – London Creative Coding, March 2017

Creative applications of Artificial Intelligence – UCL, December 2016