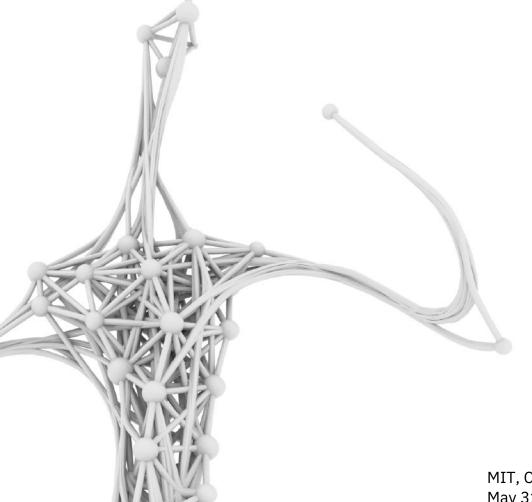
#### Mauro Martino

twitter: @martino\_design

Head of Visual AI Lab IBM Research AI

Professor of Practice Northeastern University

Artist in Residence MIT-IBM Research AI

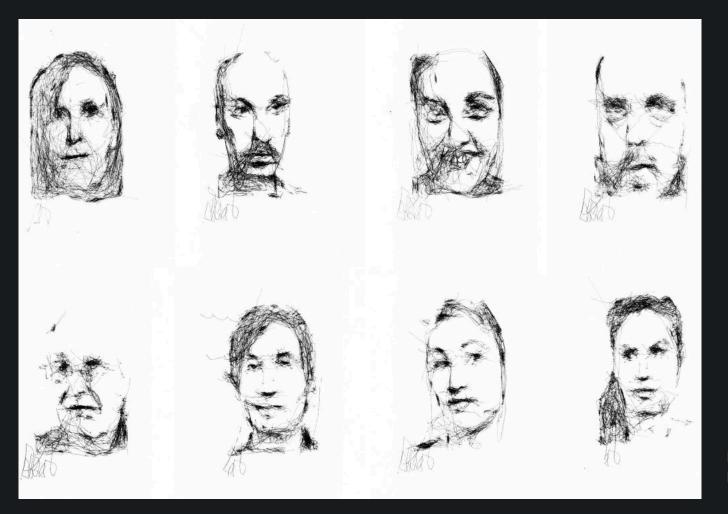


MIT, Cambridge May 31, 2019

```
Art + AI = ?
Art + AI = FakeArt
Art + AI = RealArt
Art + AI = New Artist
Art + AI = Tool for Artists
```

# Why so much interest in the art created by the AI

# What can AI do that artist cannot?



Human Study, 2004-2017 Patrick Tresset



They are only machines, and we see them as different.

In our example from Tresset, the robots always look at the paper.

When the machine looks at you, you really think, that something looks at you. They hesitate and they look a bit fragile and clumsy.

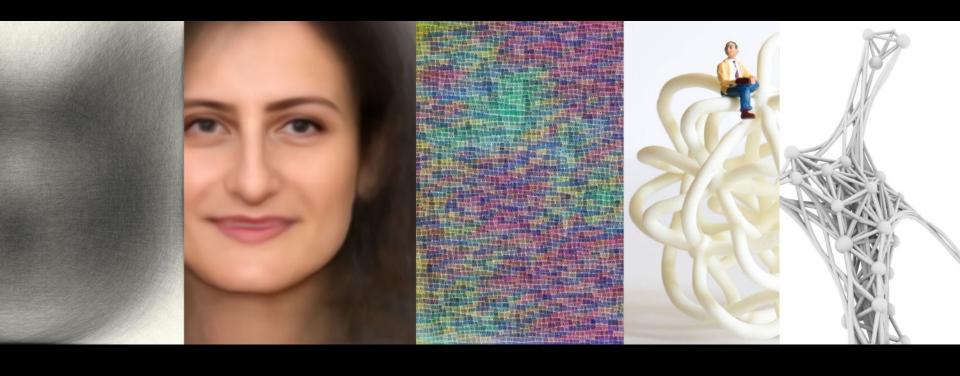


"I will be the first artist in the history who can have a post-human exhibition of new works."



AARON, Harold Cohen is not a artificial intelligent software, it is not creative and is not able to learn.

AARON is simply following procedural instructions and that the real artist behind each piece is AARON's creator, Cohen.



graphics, paintings and sculptures

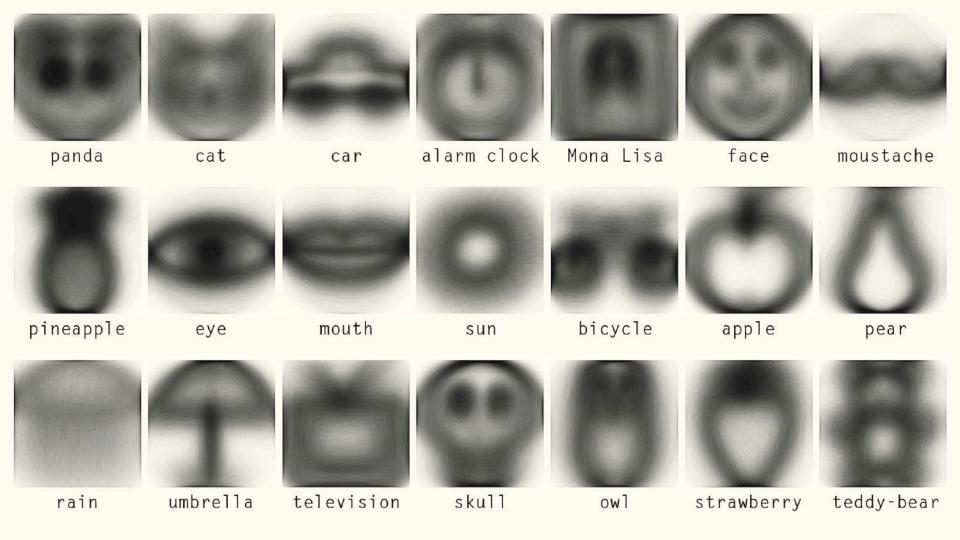
#### Sketches – AI Art without GANs

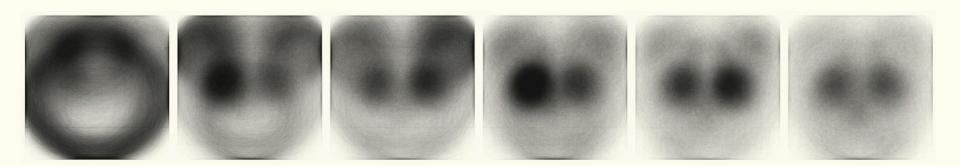
http://formafluens.io



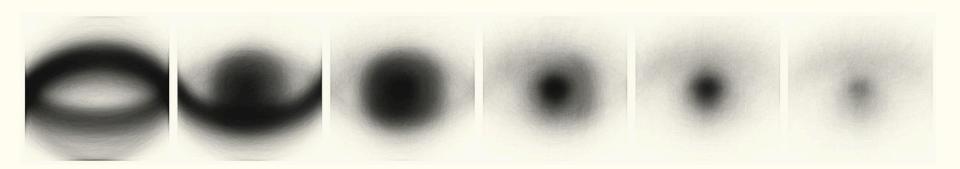
During the Renaissance, the importance of *pentimenti* was recognized as a means of discovering the natural, dynamic change in artistic vision in paintings.

Pentimento is the action of changing ideas and perspectives, but is also a method to find the "movement" and to represent it.

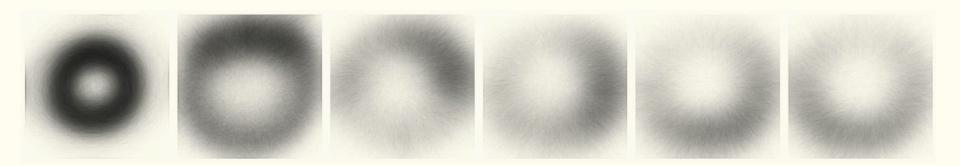




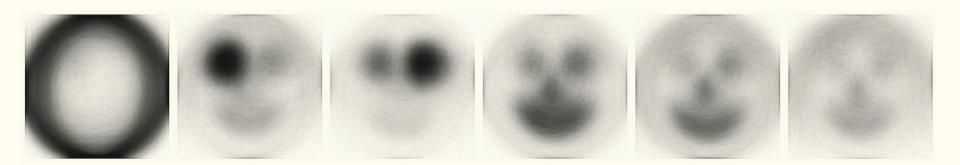
Time sequence on how 113,508 people draw a panda.



Time sequence on how 125,795 people draw a human eye.



Time sequence on how 133,676 people draw the sun.



Time sequence on how 161,515 people draw a human face.

We draw objects in the same way, and even with the same sequence of movements.

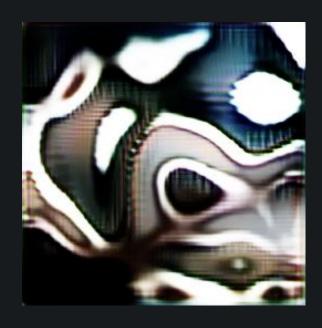
## Graphics

### AI Self Portrait

The New York Times on October 19th, 2018



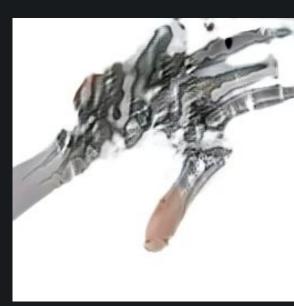




Epoch O

Epoch 1

Epoch 2







Epoch 202

Epoch 269

Epoch 307





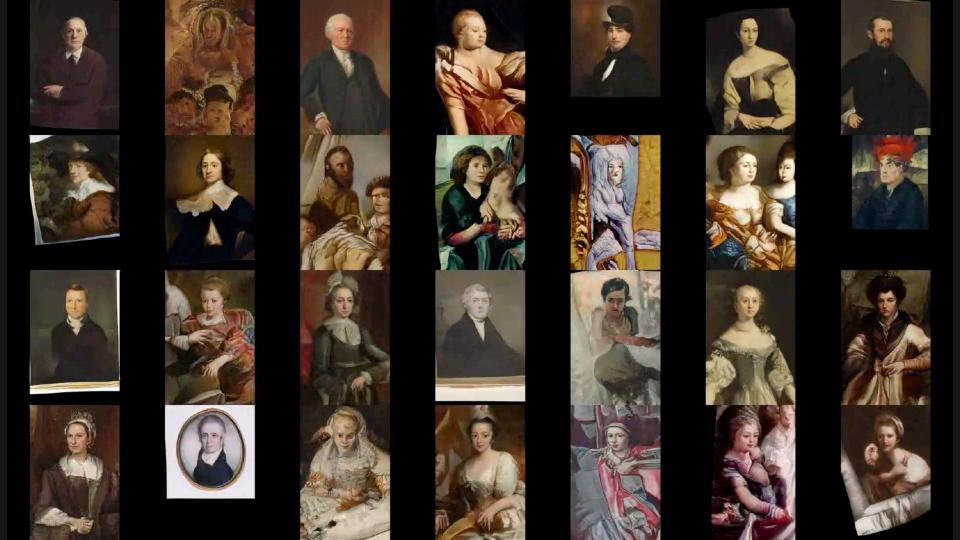


Identify a core visual concept in AI (through natural language processing and visual recognition), create an original image that captures such AI concept (with GANs), and present it in a way that fits a visual style (with composite neural style transfer).

http://www.aiartonline.com/community/michele-merler-mauro-martino-cicero-nogueira-dos-santos-alfio-gliozzo-iohn-r-smith/

# Paintings

https://aiportraits.com













# Painting

Painting is self-discovery.

Painting makes the invisible visible.

Painting allows us to see the world with other eyes, and to connect with a different way of seeing.

#### What is real and what is fiction?

AI Portraits is trained on millions of photos of actors and actresses.

We are using the faces of people in front of the camera to activate portraits with our <u>GAN</u>.

The result is an image that examines the concept of identity, pushing the boundaries between the individual that recognizes himself and the collection of faces from the society of spectacle that are sedimented in the neural network.

What I see is myself? It is a fictitious re-creation of myself, the training data of the actors Vaporize my image and create a dialogue between me and the celebrities.

We see a cinematographic self, independent and separate from my actual self.

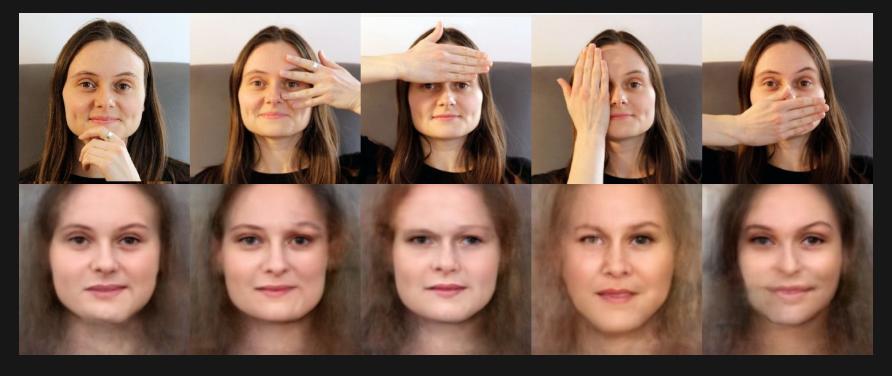








#### Below we can see how AI Portraits reacts to different poses:



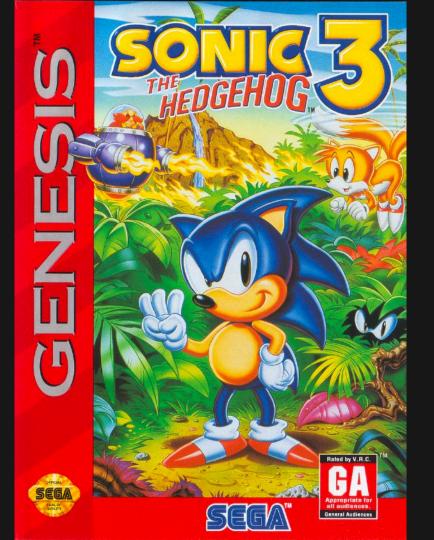
AI Portraits continues to generate a frontal close-up by reconstructing the missing parts of the face.



Head turns from right to left.



The head moves up and down.



#### Strange feedback from users:

I found something interesting...

I uploaded a picture of sonic 3 and AI saw an Asian woman in the picture...







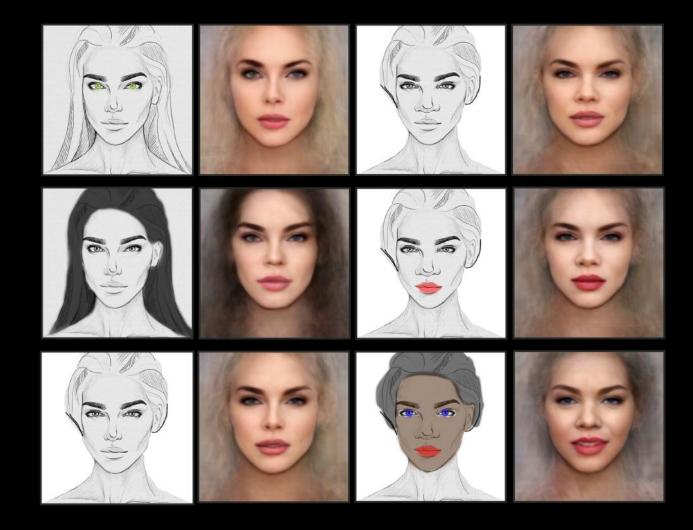
Input

First result from AI Portraits

Second result from AI Portraits

Other results obtained by playing with Ai Portraits in an original way.

Left Input Right Output





Andrea del Verrocchio



Michelangelo



Giambologna



Auguste Rodin





Polykleitos



Scopas



Phidias



Lorenzo Ghiberti

#### Salvador Dalí









### Amedeo Modigliani









### Amedeo Modigliani









#### Pablo Picasso









#### David





#### Nefertiti



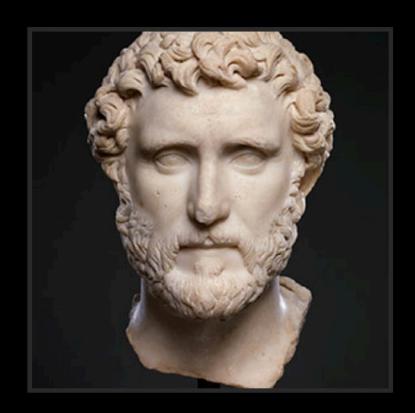


## Fayum Portrait





#### Antoninus Pius









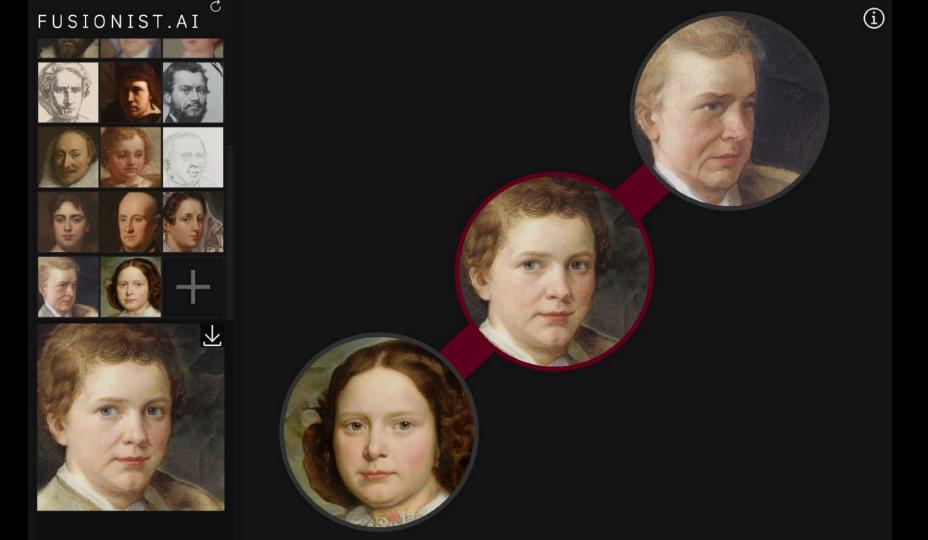




# A new art movement is born today:

# http://fusionist.ai/

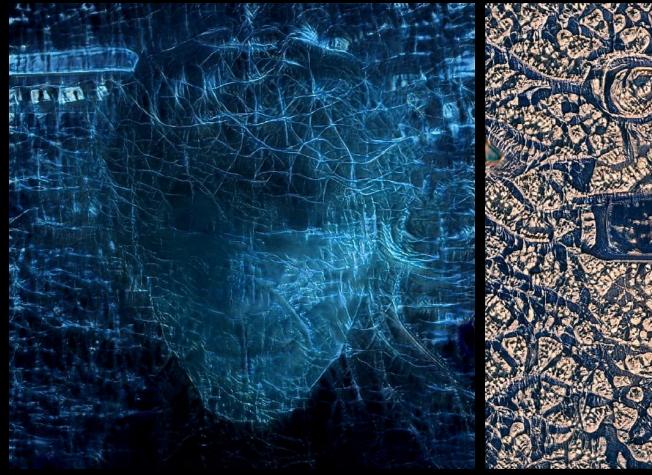
soon available online

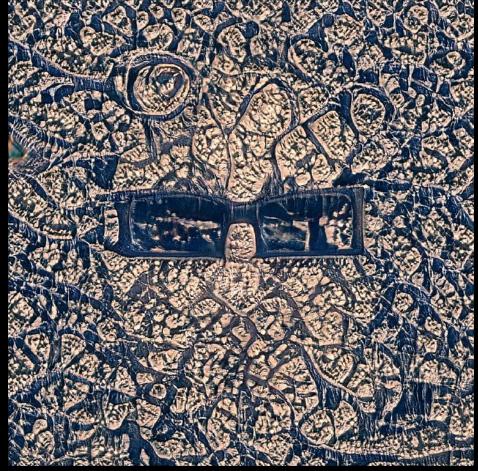


FUSIONIST.AI

FUSIONIST.AI







Maryam Ashoori



## **Fusionism Movement**

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