

NFT 2.0: interaction, composition and generative art using Ceramic streams

Team: Verum

Github link: <https://github.com/zaur/definitionhack.io>

MVP: <http://ceramify.xyz>

September 2021

A Brief History of Collectibles

Long long time ago...

In Russia



In USA



Now



A close-up shot from the movie Inception showing Leonardo DiCaprio and Matt Damon. DiCaprio is on the left, looking slightly to the right with a serious expression. Damon is on the right, seen in profile, looking towards DiCaprio. The lighting is warm and dim, typical of the film's aesthetic.

WE NEED TO GO

DEEPER

A concept of a 'composite' or 'compound' NFT



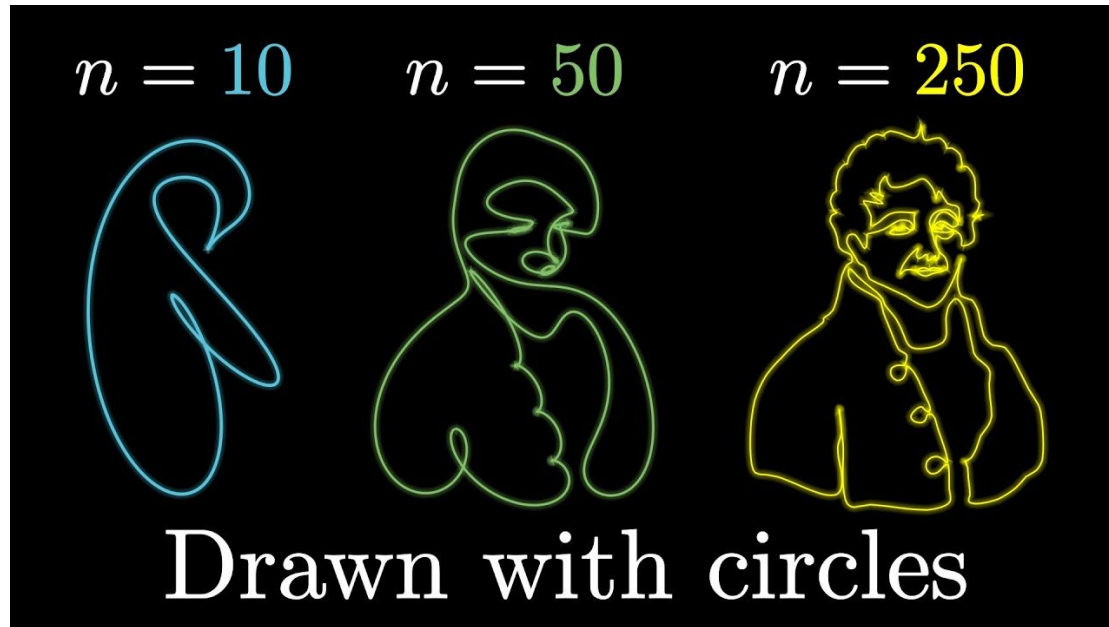
And Even More To It

- Not just collecting pieces as in jigsaw puzzle
- The more you own – the better the resulting NFT – think “progressive NFT” as in progressive JPEG
- And some math flavour on top!

Inspiration for the product

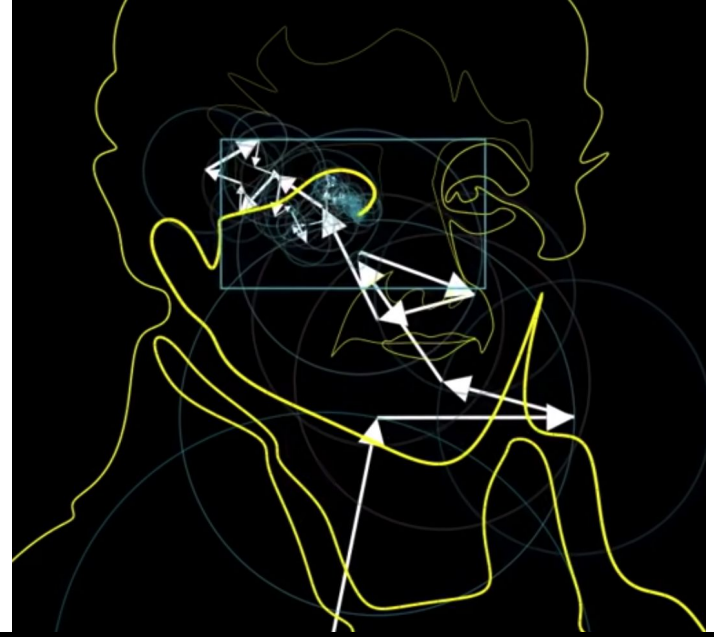
A cool video by 3Blue1Brown Youtube channel

<https://www.youtube.com/watch?v=r6sGWTCMz2k>



Math Behind It

- A Contour can be represented as an array of rotating vectors
- More vectors – more details & quality

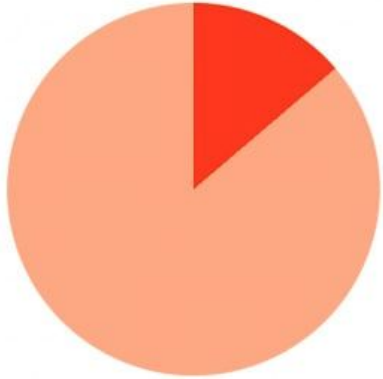


$$f(t) = \dots + c_{-2}e^{-2 \cdot 2\pi i t} + c_{-1}e^{-1 \cdot 2\pi i t} + \boxed{c_0 e^{0 \cdot 2\pi i t}} + c_1 e^{1 \cdot 2\pi i t} + c_2 e^{2 \cdot 2\pi i t} + \dots$$



Completed by 13.76%

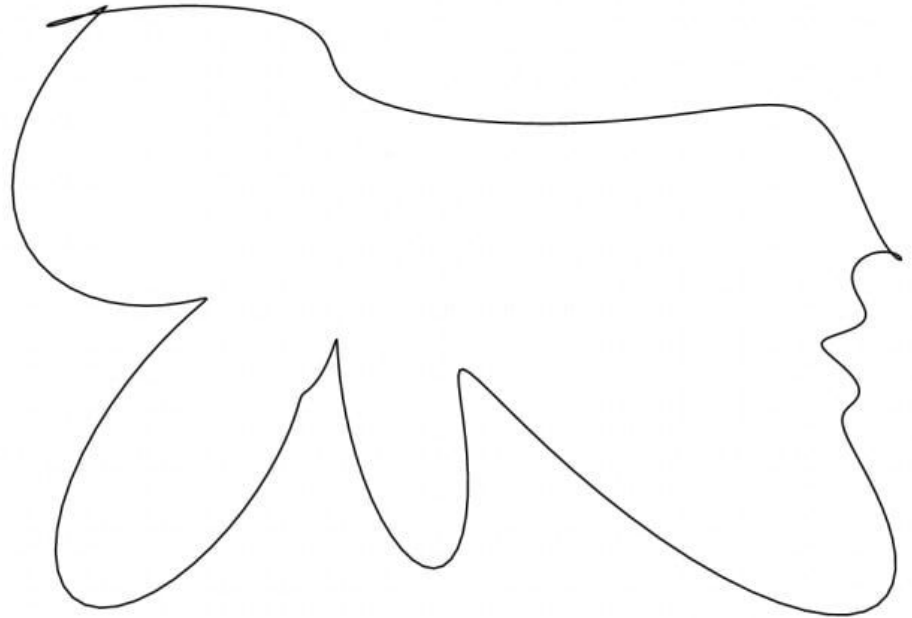
(30 from 218)



NFT's:

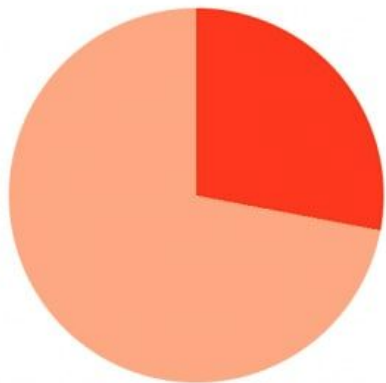
Add

#24	26.09.2021 01:51:06
#46	26.09.2021 01:52:01
#2	26.09.2021 01:52:14
#105	26.09.2021 01:52:22
#22	26.09.2021 01:52:28
#87	26.09.2021 01:52:33



Completed by 27.98%

(61 from 218)



NFT's:

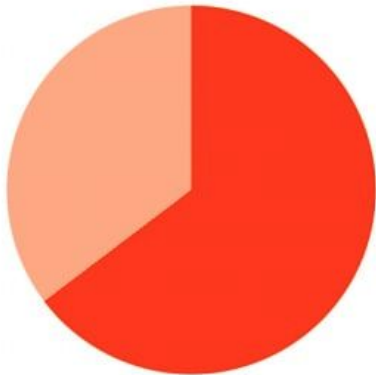
Add

#24	26.09.2021 01:51:06
#46	26.09.2021 01:52:01
#2	26.09.2021 01:52:14
#105	26.09.2021 01:52:22
#22	26.09.2021 01:52:28
#87	26.09.2021 01:52:33



Completed by 64.68%

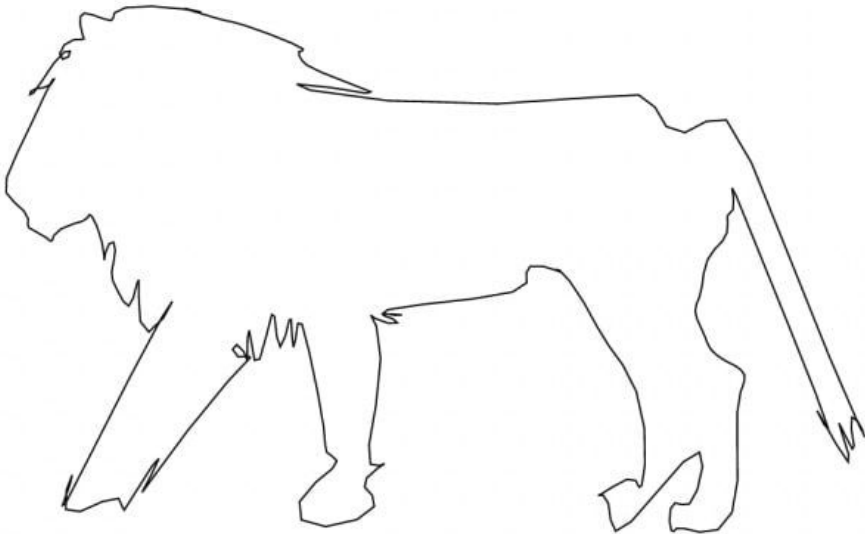
(141 from 218)



NFT's:

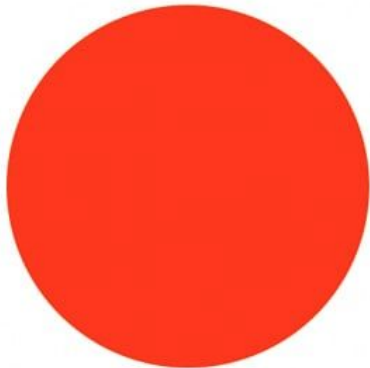
Add

#24	26.09.2021 01:51:06
#46	26.09.2021 01:52:01
#2	26.09.2021 01:52:14
#105	26.09.2021 01:52:22
#22	26.09.2021 01:52:28
#87	26.09.2021 01:52:33



Completed by 100.00%

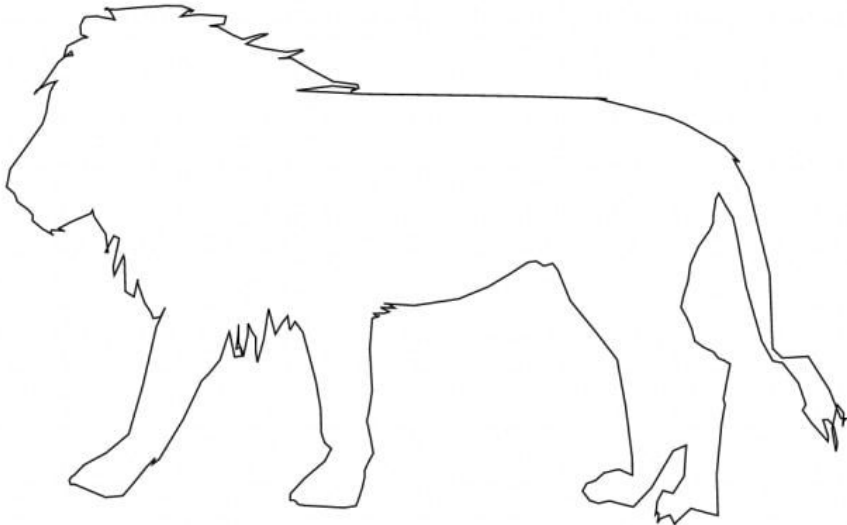
(218 from 218)



NFT's:

Add

#24	26.09.2021 01:51:06
#46	26.09.2021 01:52:01
#2	26.09.2021 01:52:14
#105	26.09.2021 01:52:22
#22	26.09.2021 01:52:28
#87	26.09.2021 01:52:33

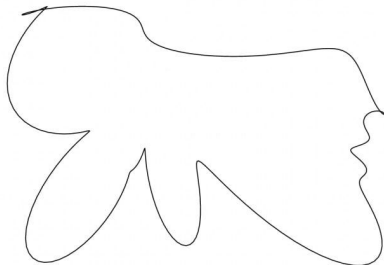


Completed by 13.76%
(30 from 218)

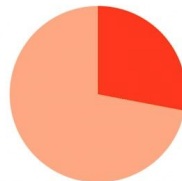


NFT's: [Add](#)

#24	26.09.2021 01:51:06
#46	26.09.2021 01:52:01
#2	26.09.2021 01:52:14
#105	26.09.2021 01:52:22
#22	26.09.2021 01:52:28
#87	26.09.2021 01:52:33

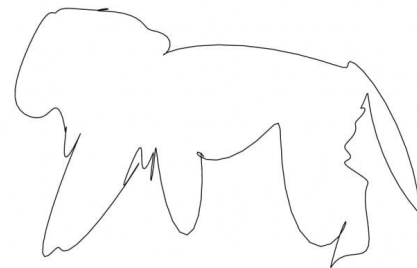


Completed by 27.98%
(61 from 218)

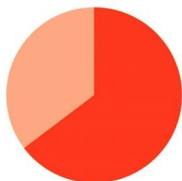


NFT's: [Add](#)

#24	26.09.2021 01:51:06
#46	26.09.2021 01:52:01
#2	26.09.2021 01:52:14
#105	26.09.2021 01:52:22
#22	26.09.2021 01:52:28
#87	26.09.2021 01:52:33

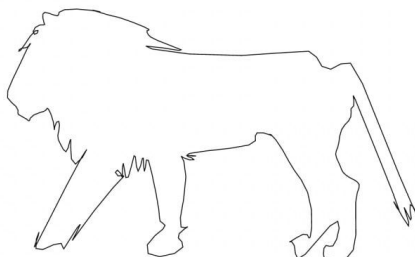


Completed by 64.68%
(141 from 218)

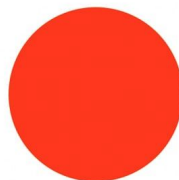


NFT's: [Add](#)

#24	26.09.2021 01:51:06
#46	26.09.2021 01:52:01
#2	26.09.2021 01:52:14
#105	26.09.2021 01:52:22
#22	26.09.2021 01:52:28
#87	26.09.2021 01:52:33

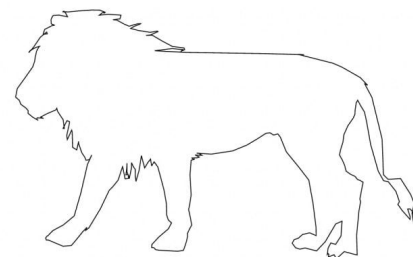


Completed by 100.00%
(218 from 218)



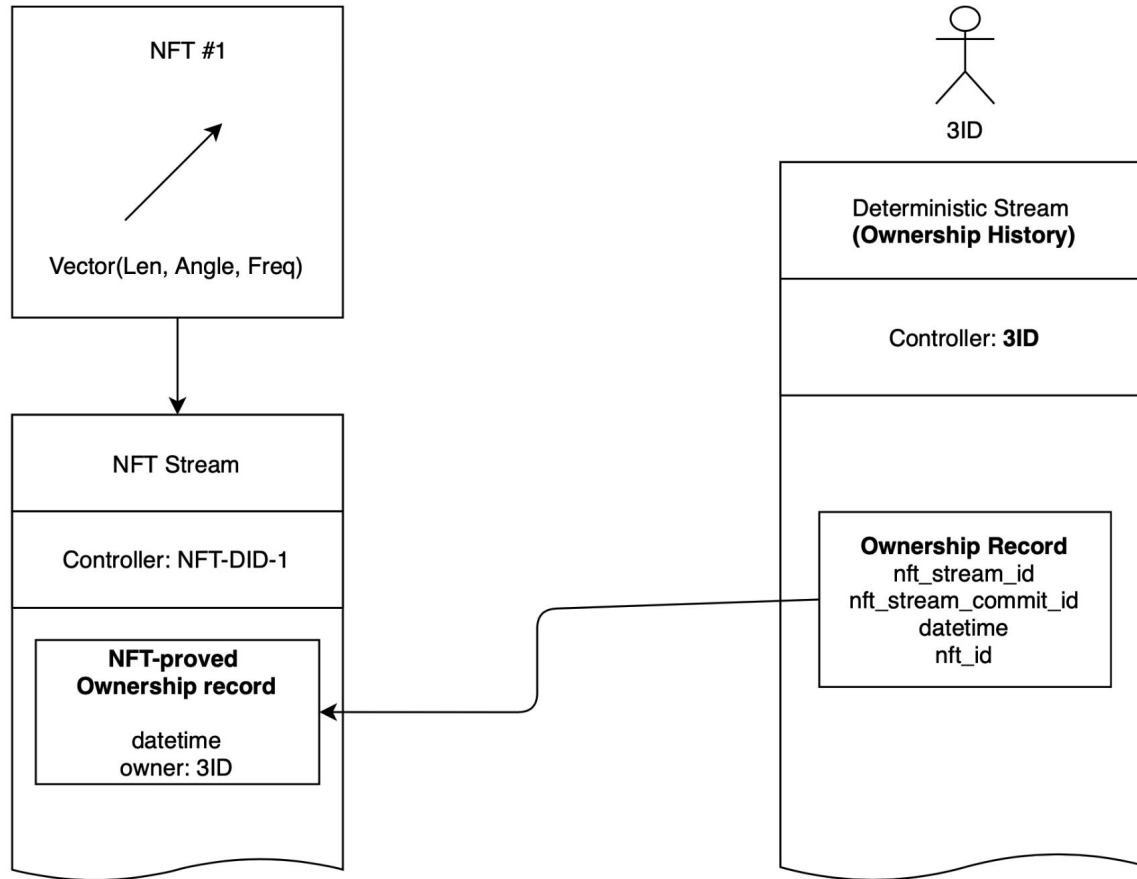
NFT's: [Add](#)

#24	26.09.2021 01:51:06
#46	26.09.2021 01:52:01
#2	26.09.2021 01:52:14
#105	26.09.2021 01:52:22
#22	26.09.2021 01:52:28
#87	26.09.2021 01:52:33



Technical Details

- Each vector is an NFT
- Each NFT has a Ceramic Stream that proves historical ownership
- User is identified via 3ID
- Each 3ID has a deterministic Ceramic stream with ownership records
- Ownership records in 3ID stream links to NFT-DID streams records of proved ownership



SHOW TIME!

TEAM



Zaur Agamov

Product Manager

[@agamov](#)

Makhachkala, Russia



Maxim Sultakov

Maxim Sultakov

[@sultakov](#)

St. Petersburg, Russia



Ilya Belkin

Backend Developer

St. Petersburg, Russia



Alexey Kalmykov

Software developer

[@akalmykov](#)

St. Petersburg, Russia



Karim Karimov

Machine Learning Architect

Denver, USA



Sergey Eroshenkov

FrontEnd Developer

[@techmeat](#)

Smolensk, Russia

THANK YOU!