

Pdf version 1.0.

© Dr. Julia Schneider & Noëlle Kröger (Berlin & Hamburg 2022) docjsnyder.net & noellekroeger.com

Kontakt: hello@nonfungiblecomic.org
Website: nonfungiblecomic.org

Illustration und Buchgestaltung: Noëlle Kröger Text: Dr. Julia Schneider Öffentlichkeitsarbeit: Eric Eitel Lektorat: Jennifer Bergmann Satz: Silka Mono © atipo® atipofoundry.com

Bibliografische Information der Deutschen Nationalbibliothek: Die Deutsche Nationalbibliothek verzeichnet diese Publikation in der Deutschen Nationalbibliografie; detaillierte bibliografische Daten sind im Internet über http://dnb.dnb.de erhältlich.

Open License: CC BY-NC-ND

Druck (on-demand): tredition GmbH, Halenreie 40-44, 22359 Hamburg

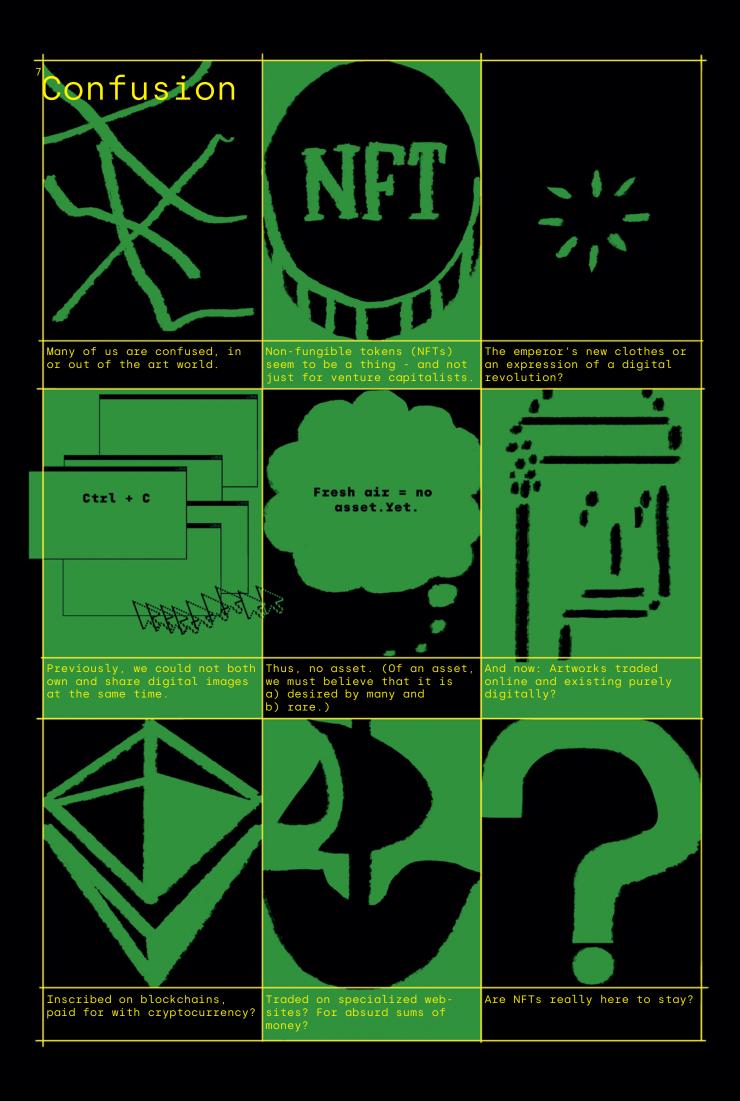
ISBN (Softcover): 978-3-347-64741-1 ISBN (Hardcover): 978-3-347-64749-7

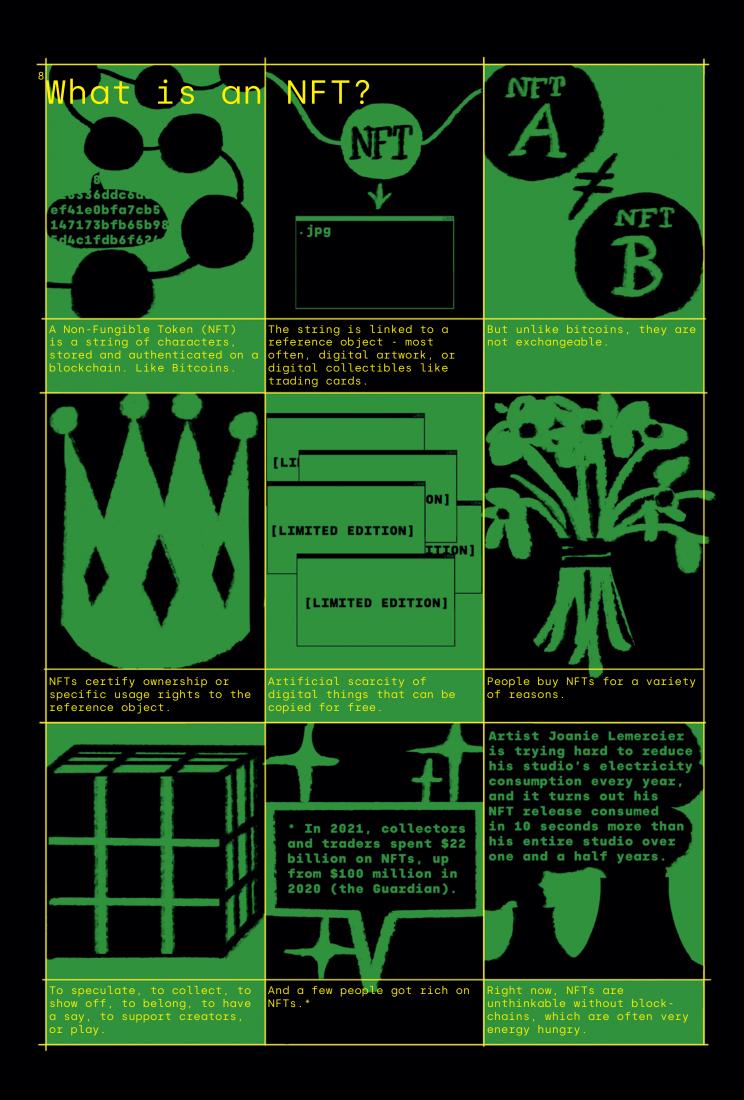
. Julia Schne

<u>Q</u>

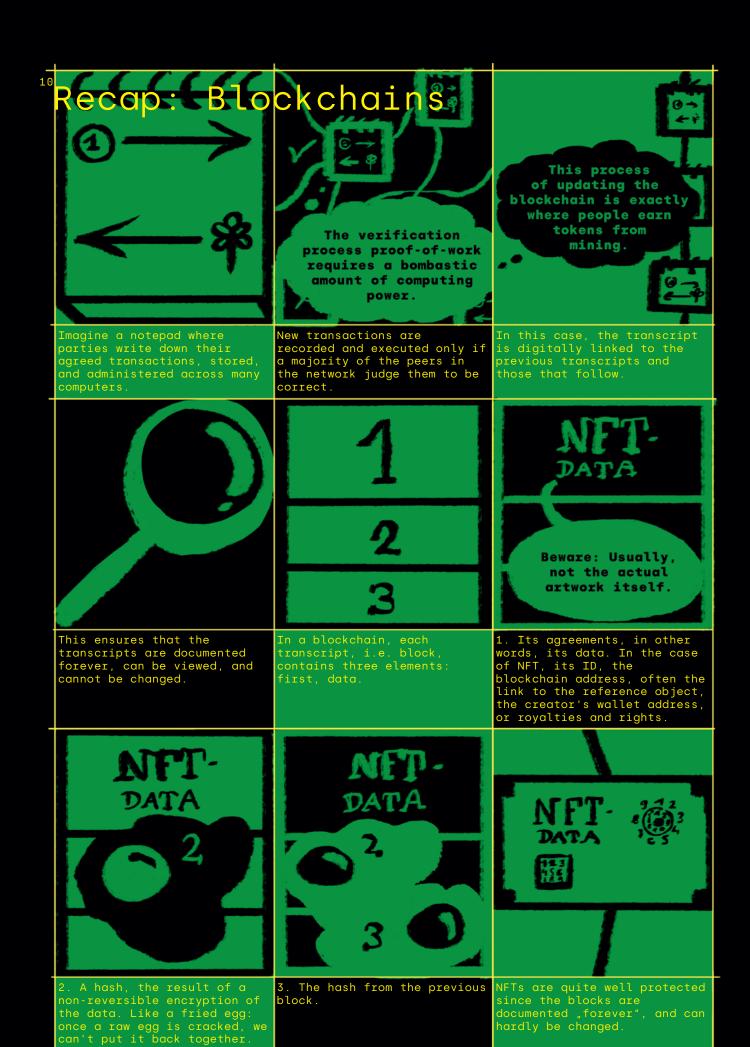
(

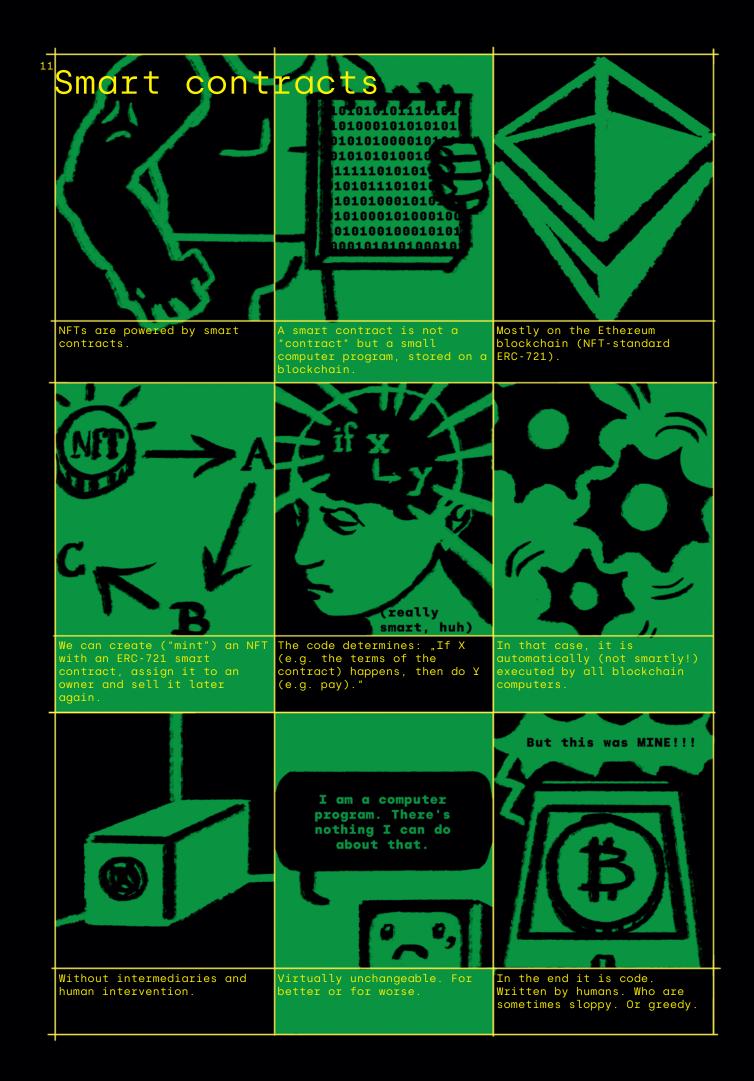
Moëlle Kröger

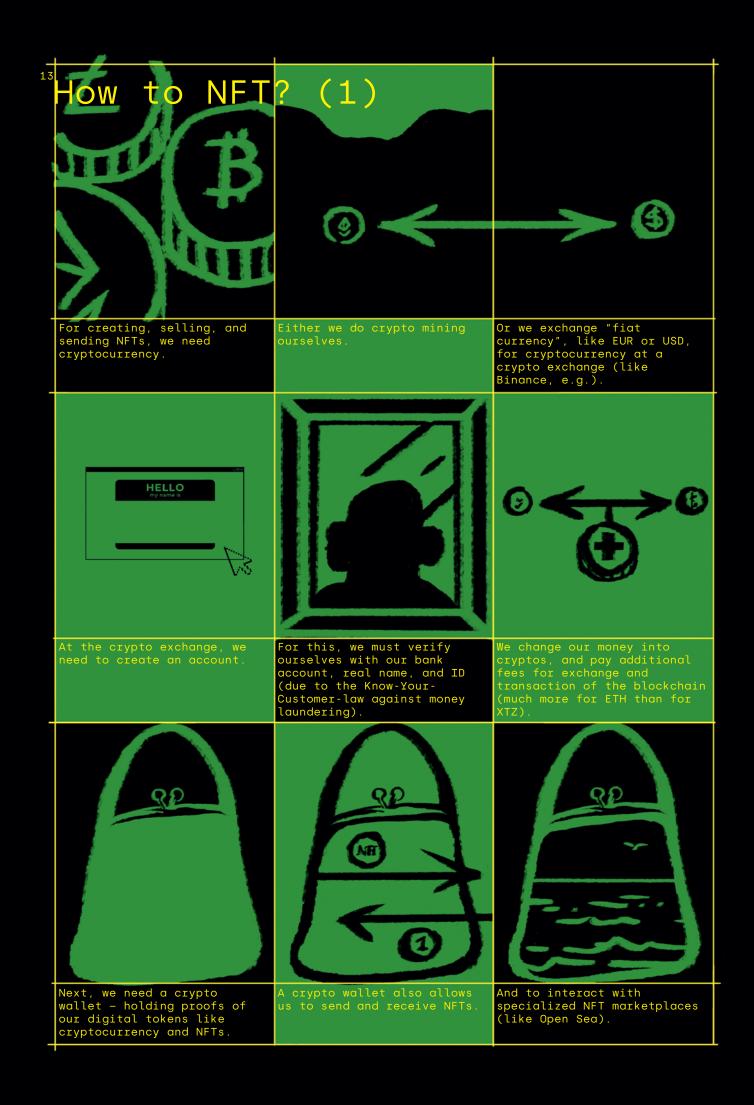












How to NFT? (2)



Most people choose NFT marketplaces that provide the technical infrastructure for NFT creation and trading.



So we probably make an account at a NFT marketplace and connect our crypto wallet to it.



However, we can also upload and host the required files ourselves.



In both cases, we will usually first upload a file containing our digital creation.



Such files are usually too large to be stored on the limited storage space of a blockchain (making the process too expensive as well).



Therefore, we store them either on one of the many designated platforms, or on any other storage (e.g., IPFS).

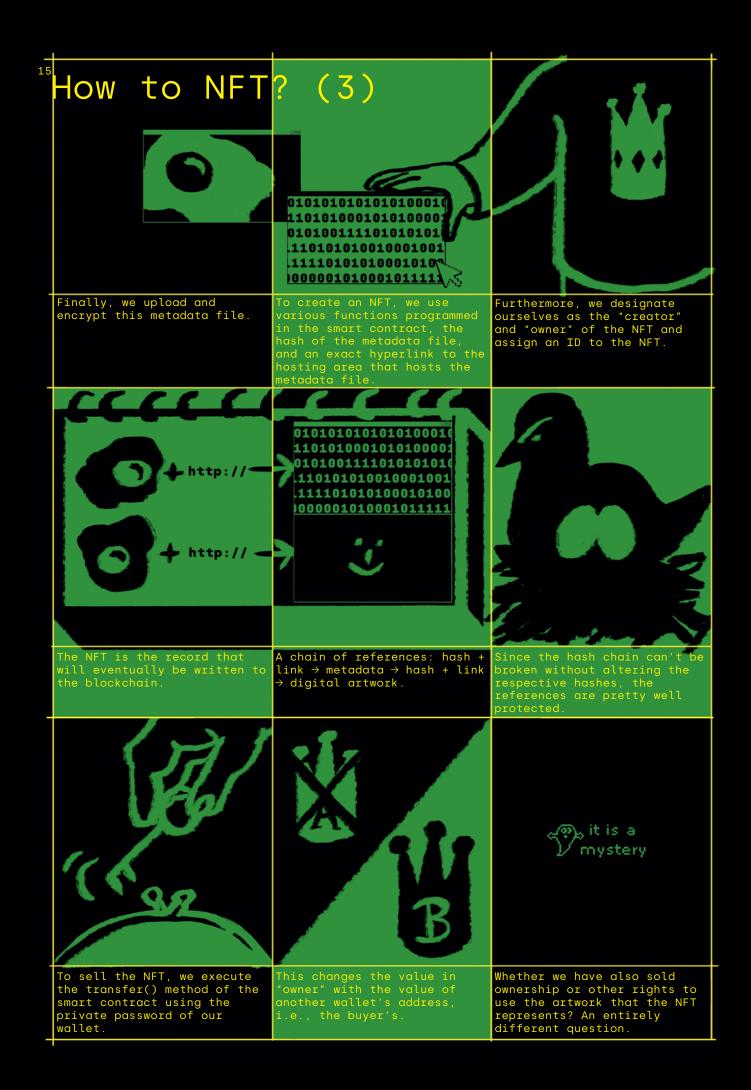


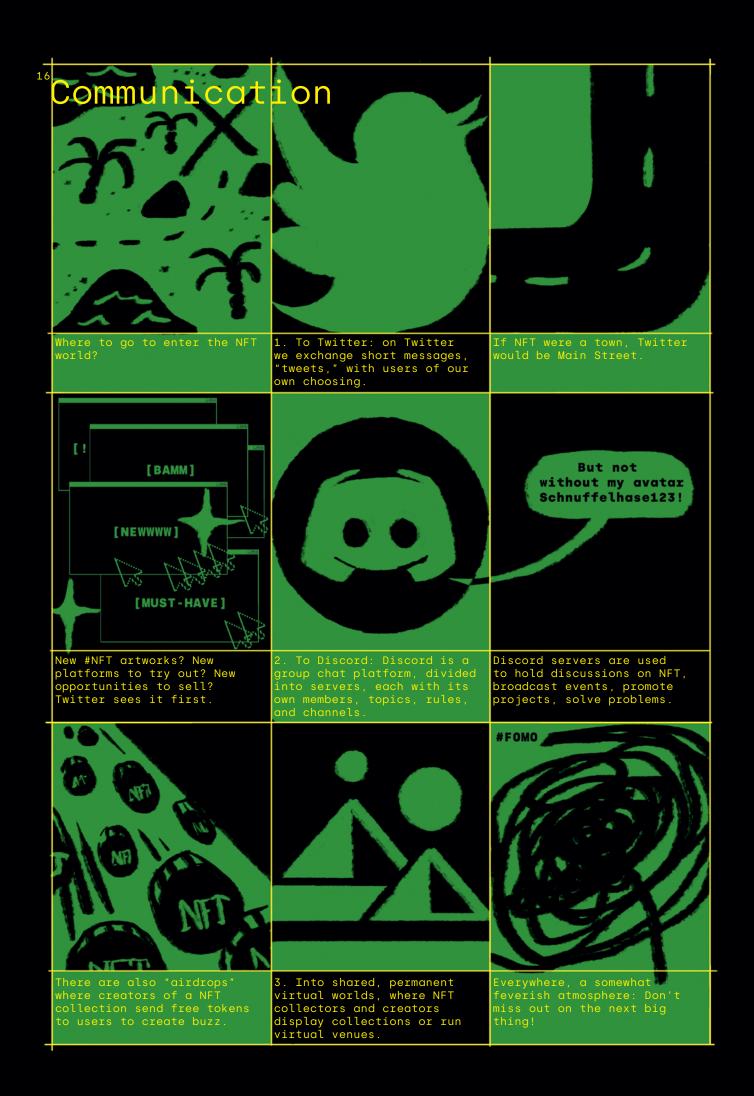
Example: this is the 256-bit hex hash value for the Beeple artwork: 6314b55cc6ff34f67a18e1ccc977234b803f7a5497b94f1f994ac9d1b896a017

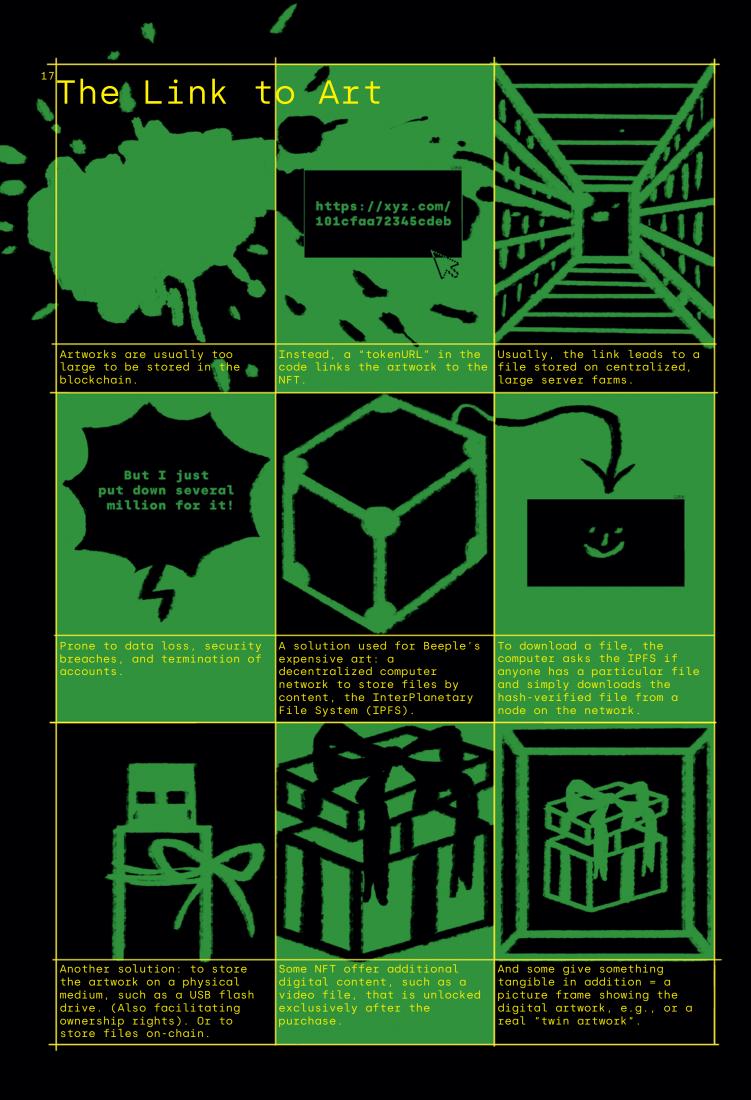
"my artwork"
"artist"
"bought by"
"beautiful"
"hash"
"hyperlink"

Next, we use a cryptographic hash algorithm to create an individual hash of the file containing the artwork.

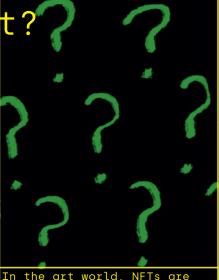
Once this hash value is generated, we create an accompanying metadata file for the artwork. Here we record, for example, the name and title of the artwork, our name, a description of the artwork - as well as the hash of the artwork file and an exact hyperlink to the hosting area that contains the artwork











In the art world, NFTs are still quite unknown.



Most NFTs are offered on rather new online marketplaces.



Hardly anyone knows the artists who are represented there either.



A confusing abundance of graphics, pixel collages and animations.



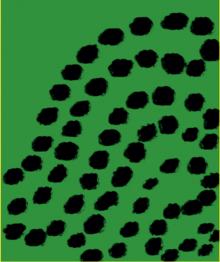
Contributing to the prejudice that NFT art is of low quality.



On the other hand, many fans of the digital world are hardly interested in this

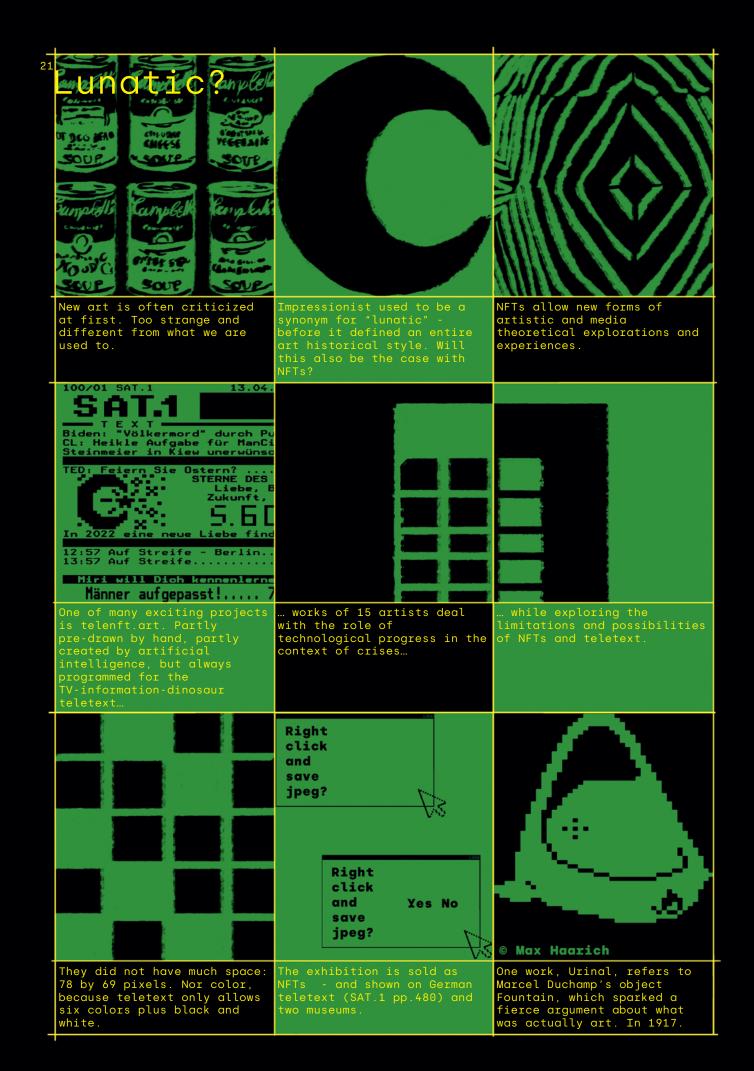


And exhibitions in established galleries or on curated platforms hint at the potential.



Just recently, people queued for hours to see artist Refik Anadol's immersive NFT works in Berlin.





And in 2021, the prestigious Art Review magazine even named the Ethereum NFT standard as the most influential force in contemporary art.

More and more museums and exhibition houses are digitizing analog masterpieces to offer them as NFTs.

Art or Merch?

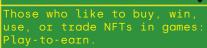
(Is that why NFT marketplaces don't like to disclose their sales figures?)

If you want to sell or buy NFTs, do it with innovative projects you enjoy, on sustainable blockchains. Better leave the speculative market to investors who can afford to lose.

*thatkimparker.medium.com

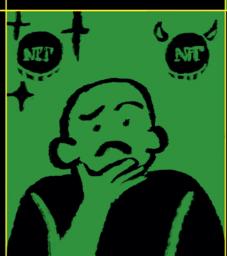


Indeed, NFTs have also made waves in the gaming scene.





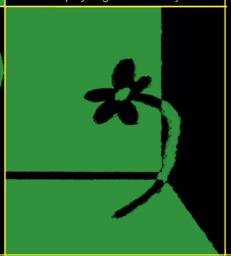
And those who reject NFTs because they influence a game too much towards gambling or create unfair advantages over the non-paying community.



Companies also fear losing money if they allow decentralization, interoperability and NFT trading.



In any case, NFT-games are not really mature yet.



They already exist, but in a special niche.

What's Gone is Gone



Time and again, NFT projects turn out to be a so-called "rug pull".



No sooner are the NFTs sold than the developers make off with their millions.



There is also a lot of fraud from simple hacker attacks, e.g. on wallets on which expensive NFTs are stored.



Since blockchain transactions ...there is little hope to get are anonymous and final... it back.





Recently, however, authorities have had success recovering stolen crypto assets.



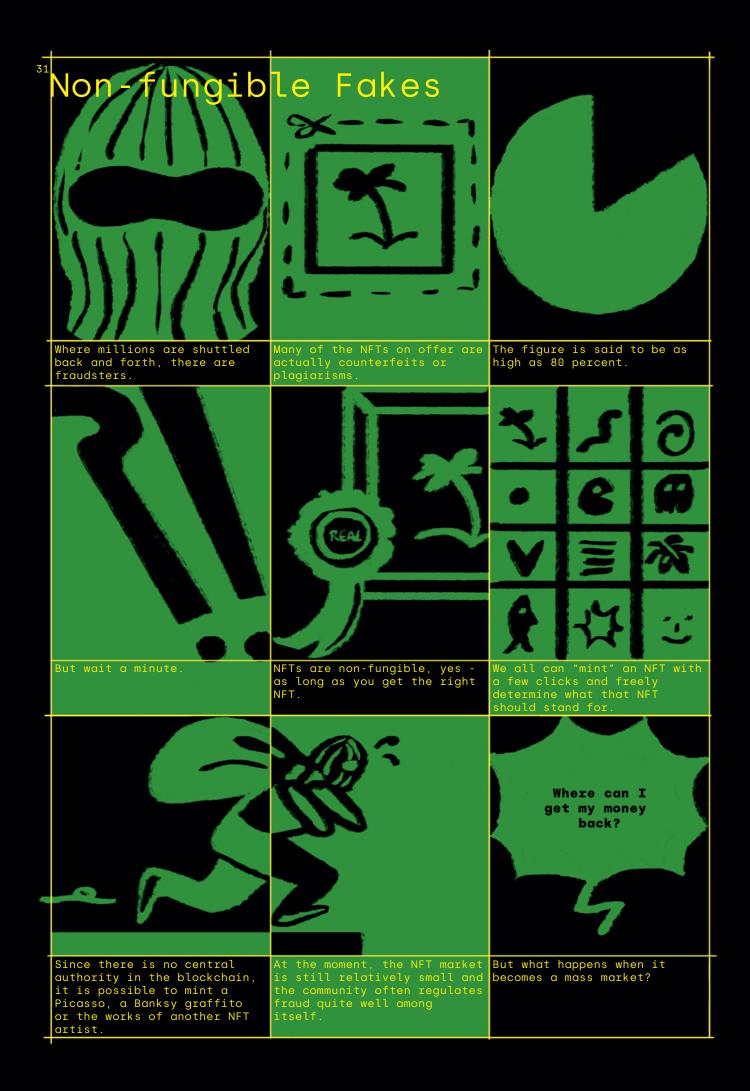
Forensic companies now specialize in analyzing transactions on the Blockchain - which are, after all, public.



And tracing the path of the stolen goods.



Whether it's worth pursuing the matter legally? Depends on the value of the token.



TINGID LERUST TUST

x89vxc8x90809vcxy09y88yxv8f8

hh8h98hfs0f00gjfdslkjfjkjkl

2943jkf0g00fg0g0dkjhsj22kog 72345cdeb4gxfg1<mark>hdk</mark>

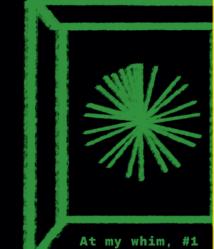
4fhefaa3774yxxmnexbn3<mark>2998</mark> a44fhxc98c89x89vxc8x96889 01jcjasf8989hh8h98hfs0f<mark>0</mark>0g; 748999jfk12jkdfjk32943j<mark>kf0</mark>g c8x9080101cfaa72345cdeb4<mark>gxf<</mark> fgxfgfcfaa3774yxxmncxbn3<mark>29983scx89xc</mark>

09y88yppxc98c89x89vxc8x<mark>:</mark>90809vcxy0 asf8989hh8h98hfs0f00g<mark>jfdslkjf</mark>f 32943jkf0g00fg0g<mark>0dkjhs</mark>j 72345cdeb4gxfg1<mark>hdksk</mark>1 Z4vxxmp

https://xyz.com/ 101cfaa72345cdeb

Instead, it is only referenced via a link.





And if someone then has access to exactly these servers, as Signal chief Marlinspike showed...



...the objects can be manipulated and exchanged at



You don't even have to be the owner of an NFT to do this.



More secure is storage in a decentralized network. But will that still exist in 100 years?



The structural problem is that "trustless" NFTs suddenly require trust in a provider again.



Trust that the providers and their servers will never



Granted: Innovation But the cur-

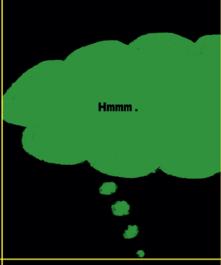
Granted: Innovation,
DIY-anarchy and "what good is
copyright if you don't have
the money to litigate against
the other side's lawyers" do
have their charm.



But the current legal uncertainty makes NFTs rather unattractive to many outside the community.



Do we acquire ownership or other rights to use the reference object when we buy an NFT?



Who can I complain to if someone cheats or steals from me?



Who punishes, on what legal ground?



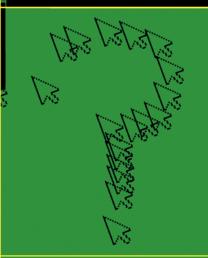
How can I reverse transactions if I have made a mistake?



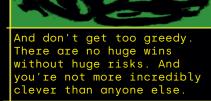
Plus: One of the most revolutionary features of the NFTs was their promise to prove the provenance of a work of art.

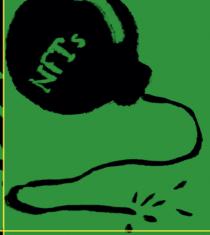


But as any person can create an NFT of anything, including content for which they hold no rights...



...there is no complete certainty about the provenance of an NFT artwork



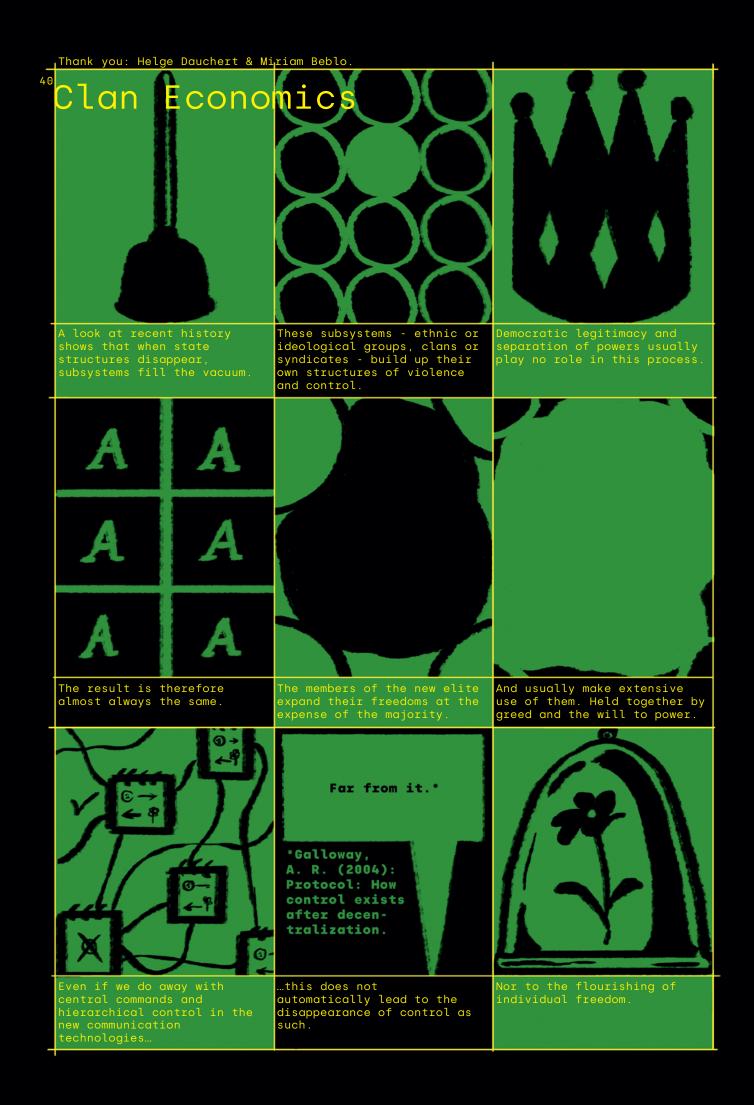


Plus, a simple truth: 100% security is not possible in the technical field,

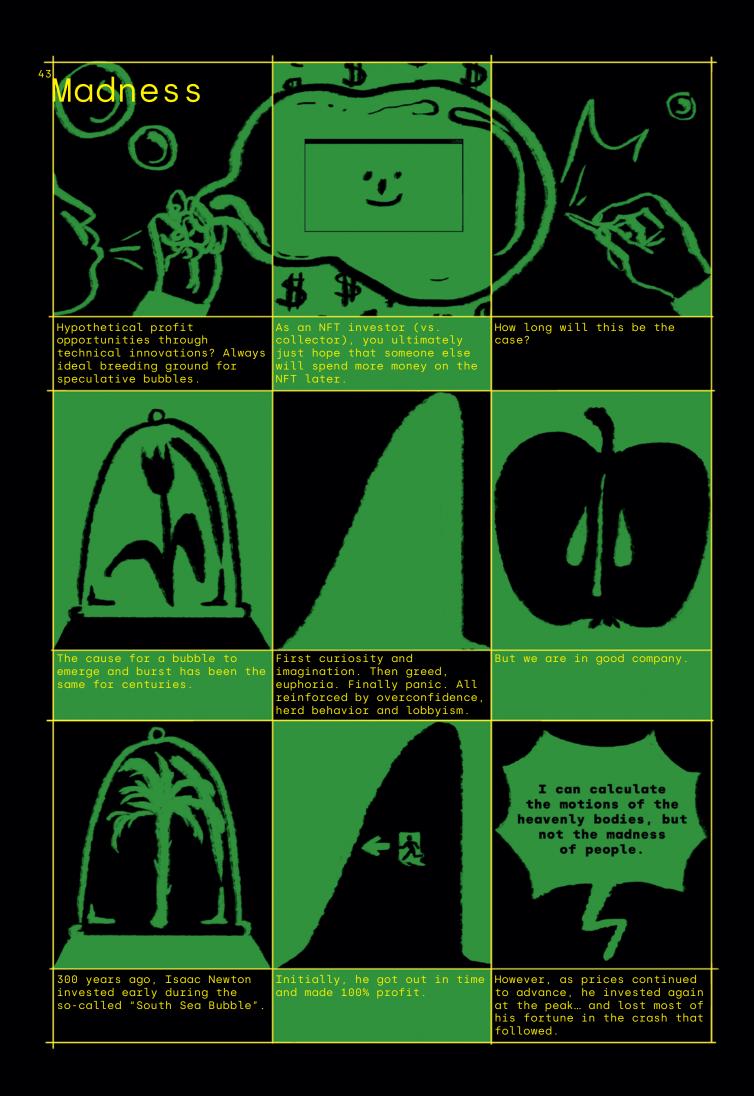


In 2021, the EU Commission started discussions to regulate NFTs. Their main concern: money laundering and terrorist financing.

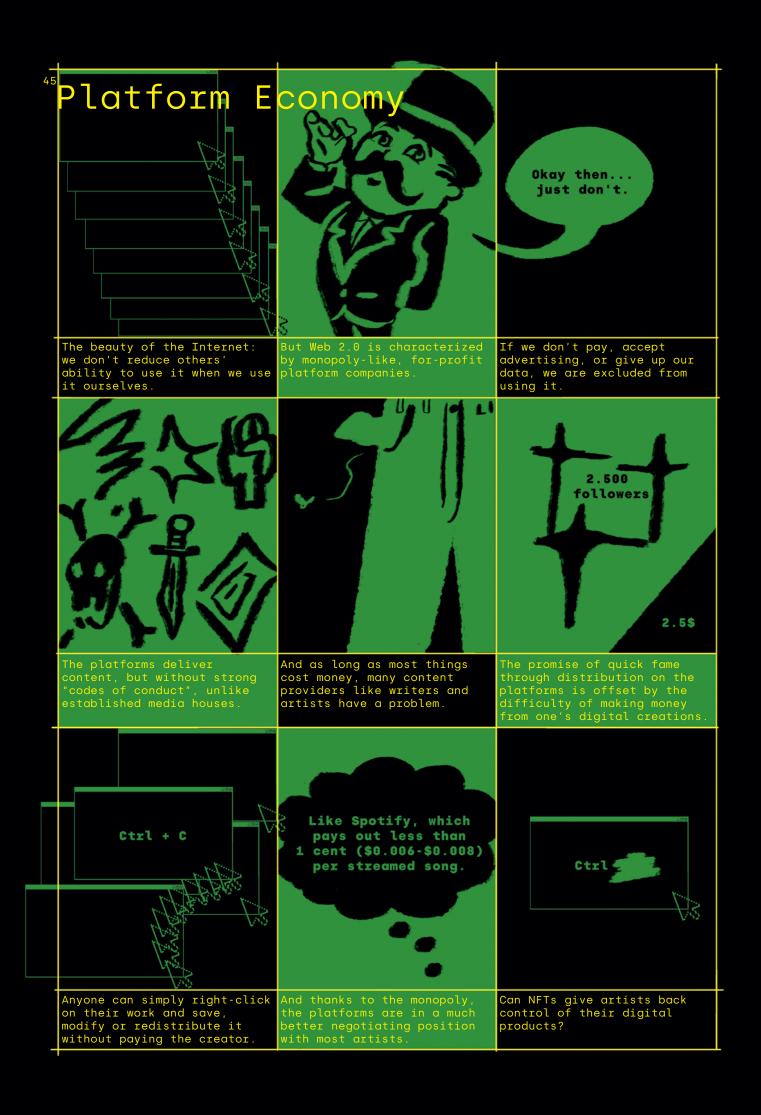
Environmen<mark>t (1)</mark> Trading NFTs is not a one-time thing, but consists of several steps that all consume lots of electricity. and therefore The simple answer is yes. And blockchain transactions consume so much power because by design, there is no central authority to verify them. The creation, the bidding, the withdrawal of a bid, the sale, the transfer and the ...all interactions require transactions in the respective blockchain. resales of an NFT... The PoW-guessing game requires incredible amounts of power (Bitcoin's carbon footprint equals that of New Zealand's). The first miner to correctly guess, verifies transactions en bloque and wins new coins. uses as verification method a hardware- and energy-intensive guessing game between network participants (miners): Proof-of-Work

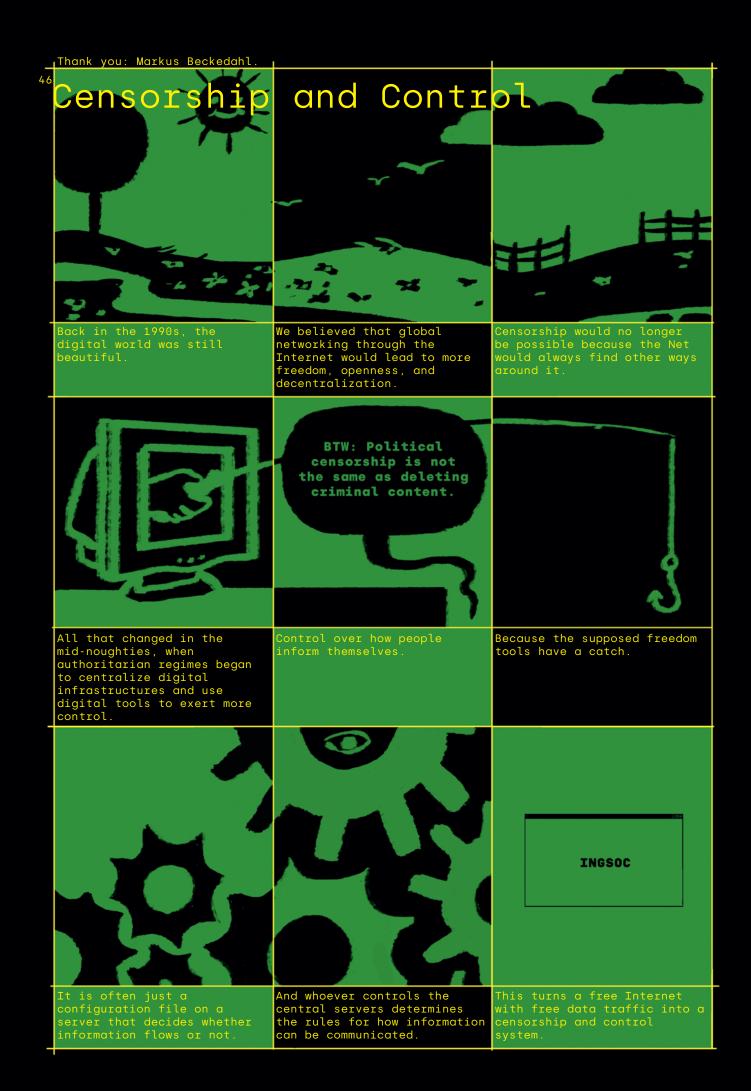








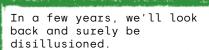




Thank you: Eric Eitel A DAO is an organization ruled by smart contracts written on blockchains and controlled by members - no leader required. It takes a lot of energy to found and run grassroots, legally secure cooperatives. Are decentralized autonomous organizations (or DAOs) a more rewarding alternative? MET Similar to a Cooperative Business in the US or a German "Genossenschaft", members must make a contribution. DAOs use tokens Nevertheless, there is great interest in DAOs. Downside: A DAO's smart contract is visible to all but hard to repair, thus leaving known security holes open to exploitation. Many people long for unbureaucratic, democratic solutions to implement Sustainable? Every blockchain transaction costs energy. As do bureaucracy and endless discussions. And now the synthesis please. sustainable projects together.



And that's unrealistic, because we all make mistakes, all the time. And our brains all have similar functional deficiencies - like overconfidence or confirmation bias, for example. Lawyers all over the world are currently racking their brains as to what an appropriate legal framework for NFT should look like.



Our guess: some of the hype will remain - and there will be regulation.

Digital sovereignty however we define it - is
also driven by the zeitgeist,
and it is getting more and
more difficult for
all-encompassing data
corporations to grab content
and data without
compensation. The fact that
"Likes" don't pay the rent
and artists often scrape by
on the poverty line, is a
problem that shouldn't be
explained away.

Cooperative alternatives have great potential.

If NFTs are to bring benefits to society as a whole, we need to combine a technical and legal framework focused on sustainability with other sciences that deal with individual and group behavior, such as social psychology, economics, and sociology - and art to go beyond the scope.

And then we're talking.

Index

Confusion >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	
What is an NFT?	8
Record Sales	9
Recap: Blockchains >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	10
Smart Contracts	11
Wallets and Keys	12
How to NFT?	13
Wallets and Keys How to NFT? Communication The Link to Art	16
The Link to Art	17
Is that Art? >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	18
Predecessors >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	19
The Analog Art Market >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	20
Lunatic? '>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	21
Art Market >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	22
Lunatic?	23
Stealing	24
No Riches	25
Connection >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	26
One-Stop-Shop >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	27
Games	28
Gamification >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	29
What's Gone is Gone >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	30
What's Gone is Gone	31
Non-fungible Trust >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	32
Metaverse >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	33
Bodies	34
NFTs Against Colonialism >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	35
Leagl Security >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	- 56
Environment >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	38
Clan Economics	40
Bros and Whales Esotericism Madness Digital Hinterland Platform Economy	41
Esotericism >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	42
Madness >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	43
Digital Hinterland	44
Platform Economy >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	45
Censorship and Control >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	46
DAOS >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	47
Web3?	48
Dead Machinery	49
Outlook: Frrare Humanum Fst	50

Thanks

Julia thanks Daiyi! (Chris), Elisa Lindinger, Eric Eitel, Helge Dauchert, Jörn Eichler, Julia Kloiber, Karina Filusch, Kim Parker, Markus Beckedahl, Max Haarich, Miriam Beblo, Paolina Wandruszka, Sylvester Tremmel, Till Wittwer, Timo Daum, Wolfgang Kerler - and Noëlle for the great cooperation.

Noëlle thanks Julia for the idea and great partnership and, as always, the secret comic club.



Julia Schneider aka
docjsnyder is a Berlin-based
comic essayist and PhD in
economics. With her work she
wants to inspire people to
form their own positions on
complex issues - building
a bridge between intellect
and intuition. Her last two
comics deal with artificial
intelligence ("We Need to
Talk, AI" with Lena Kadriye
Ziyal, available in English,
German, Russian, Spanish,
Turkish and Slovenian and as
an Open Online Course) and
money ("Money Matters" with
Pauline Cremer and Miriam
Beblo).

After her well-paid jobs in science and data science, Julia is still regularly shocked by how little money many artists have to get by with, and thinks that

sustainable, social solutions are needed. Whether that really lies in blockchains and the current shape of capitalism? She's not so sure. What else does she like about NFTs? The art - and the desire to try things out.

- > www.docjsnyder.net
- > @docjsnyder



Noëlle Kröger (he/she) lives and works as a comic artist and illustrator in Hamburg, Germany. She studied graphic storytelling at the HAW Hamburg. Her stories often feature queer perspectives, performances and animals.

While Noëlle has a lot of sympathy for the artists jumping on the NFT train with the hope to escape precarity, he believes it's not even close to being a solution. The environmental cost alone is enough to be weary, but the speculative nature of the market make NFTs even more of a risk. The end result is once more capitalism exploiting artists.

> noellekroeger.com

