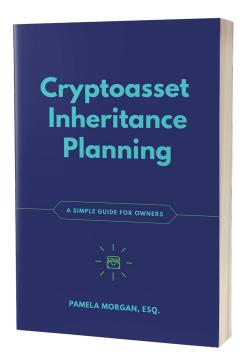
CRYPTO FOR LAWYERS



I am Pamela Morgan
I am here because I'm a lawyer, working in crypto since early 2014
You can find me at @pamelawjd

I WROTE A BOOK

A simple guide for owners of cryptocurrencies, like bitcoin, and cryptoassets to understand what needs to be done in terms of inheritance planning for cryptoassets.



INSTRUCTIONS FOR USE OF THIS SLIDE DECK

DISCLAIMER

The information contained in this presentation is not legal advice. It's not intended to be your only source of information on the topics of cryptocurrencies, cryptoassets, or crypto security.

OPEN SOURCE

This presentation (and the SlidesCarnival template used here) is available for you to use free of charge under a <u>Creative</u> <u>Commons Share Alike Attribution license</u> CC-BY-SA-4.0

CRYPTO MOVES FAST

The information in this presentation is as accurate as possible as of the date it's delivered. However things change fast in crypto and if you're seeing this presentation later, things may have changed.

WE NEED GOOD LAWYERS
WE ARE SHAPING THE LAW – RIGHT NOW
WE HAVE AN OPPORTUNITY

INHERITANCE PLANNING FOR CRYPTOASSETS

Technical Plan

- Balance security and liability risk
- × Find an expert to help
- × Regular updates

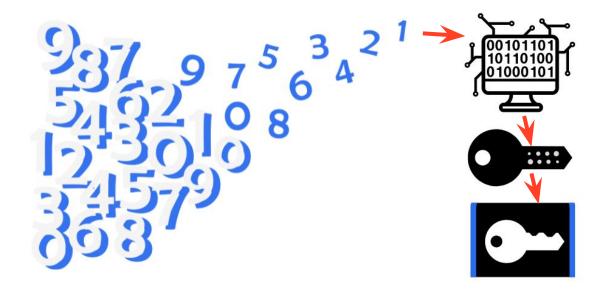
Legal Plan

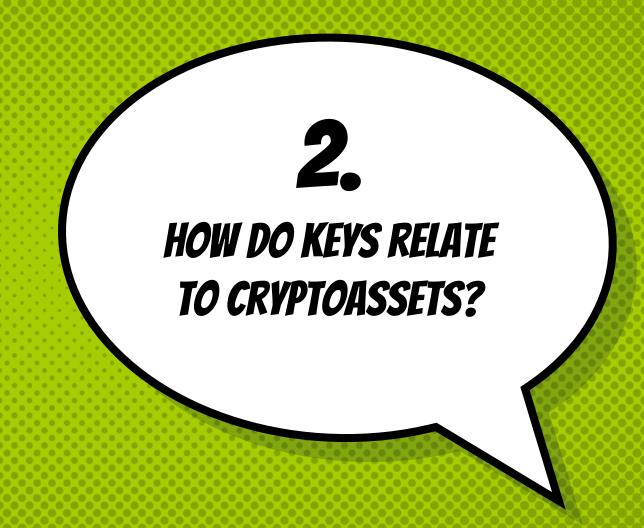
- × Control
- × Transfer or Liquidate
- × Valuation & Taxes
- × Novel Issues





WHERE DO PUBLIC PRIVATE KEYPAIRS COME FROM?

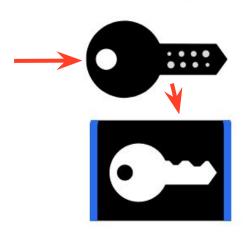




PRIVATE KEYS CONTROL CRYPTOASSETS - ALWAYS

From a network (not a legal) perspective, a **private key** demonstrates ownership and control over the underlying cryptoasset.

Your keys, your coins. Your keys, your cryptoassets.

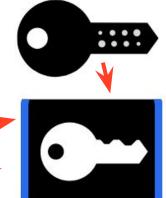


WHAT CAN YOU DO WITH A PRIVATE KEY?

Manage and control ALL cryptoassets locked to that key

Create public key(s) & network address(es) for cryptoassets

Sign messages to prove authenticity

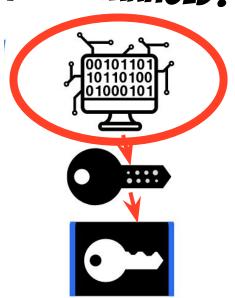




WHERE ARE KEYS CREATED, STORED, AND MANAGED?



WALLETS create, manage, and use KEYS to store and transfer cryptoassets



WHAT DOES A KEY LOOK LIKE?



Software: <u>Copay</u> Date: <u>March 2018</u> Assets: <u>BTC, BCH</u>	Additional Code Req: 💇 N
Notes: Part of 2-of-3	multisig w Alice & Bob
first	13 drip
harvest	14 thumb
walk	15 resemble
fancy	16 vendor
follow	17 error
crazy	18 path
day	19 trade
train	20 impact
purity	21 verb
glide	22 later
11 grape	23 club
12 victory	24 rug

14

WAIT... A WALLET HOLDS KEYS? WHAT IS A CRYPTOASSET WALLET?

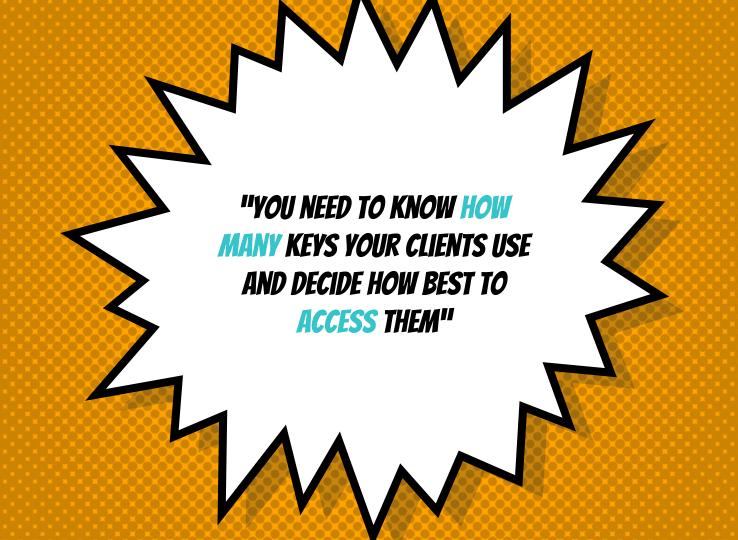


A CRYPTOASSET WALLET IS SIMPLY SOFTWARE

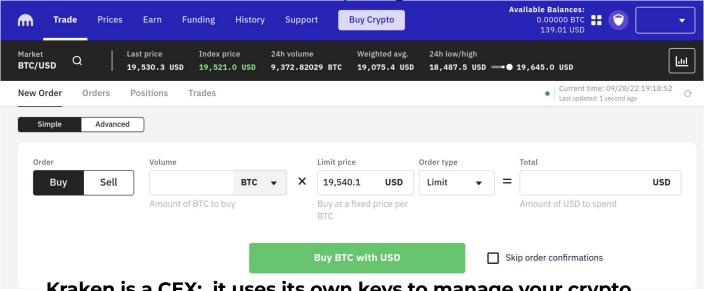
A wallet might:

- Create cryptographic keys
- Store and manage keys
- Create and sign transactions
- Publish transactions
- Keep track of one or more blockchain networks
- Interact with one or more networks





KRAKEN EXCHANGE WALLET (CEX)



Kraken is a CEX; it uses its own keys to manage your crypto

METAMASK



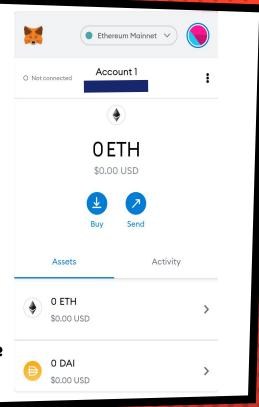
Multicurrency and multichain

Most widely used wallet for NFT projects

Limited and expensive "buy" options

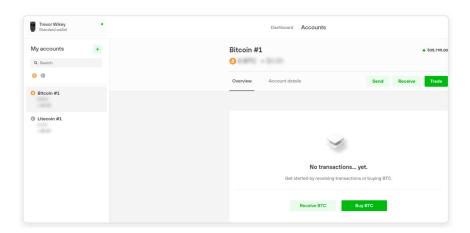
MetaMask is a self custody wallet; you use your keys to manage your crypto

Download



TREZOR HARDWARE WALLET





Trezor is a self custody device and wallet; you manage your keys

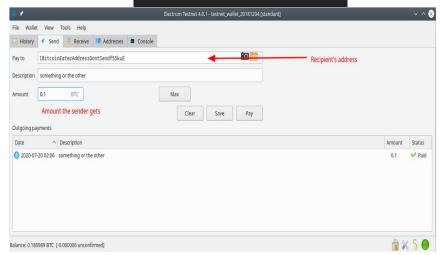
ELECTRUM DESKTOP WALLET



Create multisignature & complex locking

Select UTXO (specific coins)

Advanced features like CPFP



Electrum is a self custody device and wallet; you manage your keys

HARDWARE WALLETS OFFER MORE SECURITY

Most Popular: Trezor, Ledger Multi-token support

Integrate with many software wallets including MetaMask and Electrum



IF I LOSE MY KEYS, WHO CAN I CONTACT TO GET ACCESS TO MY CRYPTOASSETS?

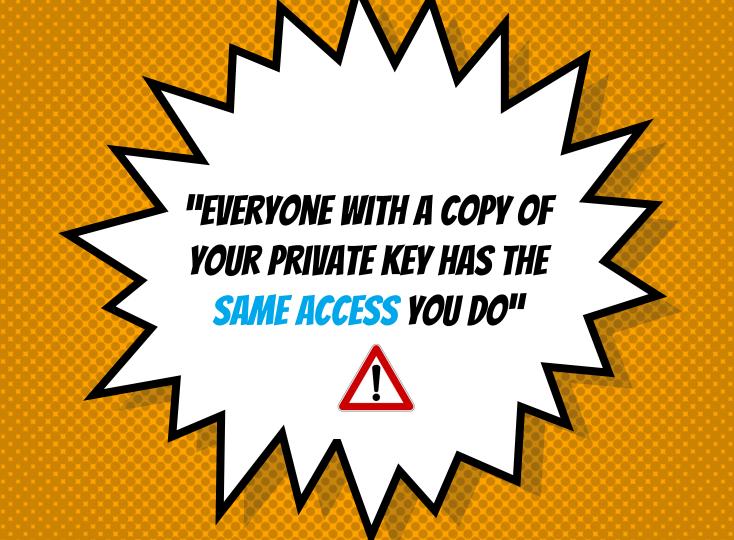




NO KEYS, NO COINS

CAN I MAKE COPIES OF MY CRYPTO KEYS AND GIVE THEM TO MY LAWYER?





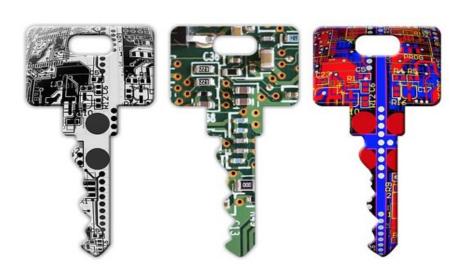






MORE THAN ONE KEY

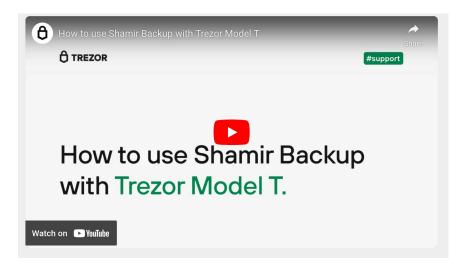
Sometimes more than one key is required to unlock assets



Multisignature and time locks are examples of protocol level security

DIFFERENT PARTS OF ONE KEY

Trezor offers an advanced backup option involving shares of a key.

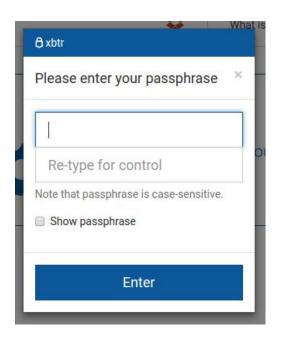


Without the correct number of shares, the key will be unrecoverable

MORE THAN KEYS

Key + Passphrase = Coins

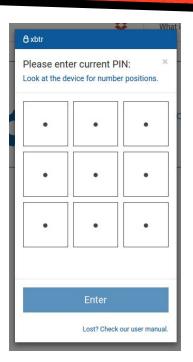
Key + no passphrase = Empty Wallet



A passphrase is another example of a protocol level security measure

MORE THAN KEYS

Sometimes wallets are secured with 2FA



2FA is an example of device level security, not protocol level security

KEYS & WALLETS



- Get the name of every cryptoasset owned by your client
- Get the name and a link to the software used to access each asset
- Create a plan to access private keys that control assets <u>when needed</u> (phone, laptop, backups)
- Be sure you have additional access control information e.g. multisignature, passphrase

KEYS & WALLETS



- Store a copy of your client's cryptoasset keys
- Control cryptoassets for your client
- Store client user names and passwords
- Allow your client to share sensitive information with you (like location of key material) on unencrypted channels
- Destroy keys



Let's take a look at some transactions on the blockchain



SOME BLOCKCHAIN EXPLORERS TO TEST



https://live.blockcypher.com/



https://etherscan.io/

More explorers: https://slashdot.org/software/blockchain-explorers/

#1 Scan the QR code using a smart device camera. You should see the bitcoin address:

17SkEw2md5avVNyYgj6RiXuQKNwkXaxFyQ

#2 Copy the address to your clipboard



#3 Go to https://live.blockcypher.com

#4 Choose BTC blockchain

#5 Paste the address in the search bar

& search

17SkEw2md5avVNyYgj6RiXuQKNwkXaxFyQ



器 Bitcoin Address

17SkEw2md5avVNyYgj6RiXuQKNwkXaxFyQ



RECEIVED 10,000.00253593 BTC

10,000.0 BTC

BALANCE **0.00253593 BTC**

Advanced Details -

TESTING A BLOCKCHAIN EXPLORER ₩ Bitcoin Address 17SkEw2md5avVNyYgj6P 10,000.00253593 10,000.0 BTC BTC

Details

131 Inputs Consumed

150.0 BTC from

■ 1XPTgDRhN8RFnzniWCddobD9iKZatrvH4 (output)

1 Output Created

10,000.0 BTC to

₽ 17SkEw2md5avVNyYgj6RiXuQKNwkXaxFyQ (spent)

250.0 BTC from

■ 1XPTgDRhN8RFnzniWCddobD9iKZatrvH4 (output)

150.0 BTC from

■ 1XPTgDRhN8RFnzniWCddobD9iKZatrvH4 (output)

80.0 BTC from

■ 1XPTgDRhN8RFnzniWCddobD9iKZatrvH4 (output)



WHAT ABOUT FINANCIAL PRIVACY?



TRICKY STICKY ADDRESSES

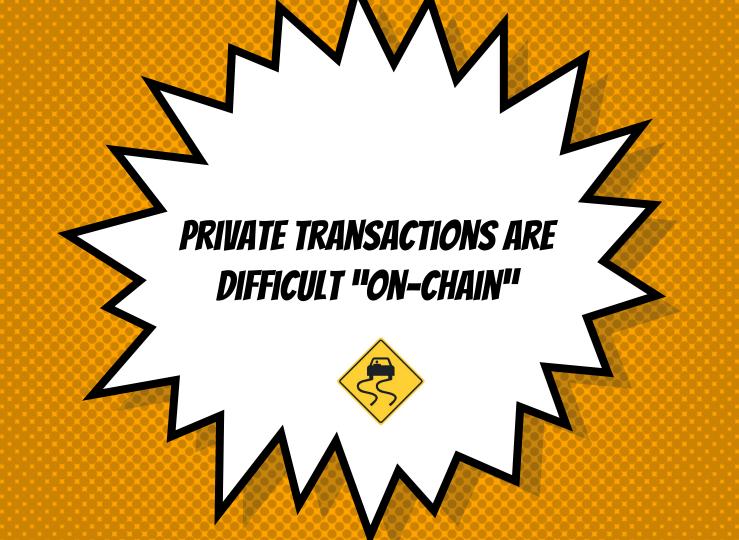
Can he stop you (or anyone) from sending bitcoin to this address?

Can he close or cancel this address?

Can he have more than one address?

What does this mean for my client?





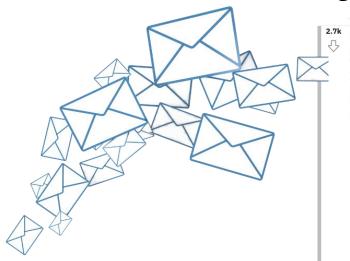


OFAC SANCTIONS



You should check OFAC lists prior to transferring cryptoassets

CRYPTO COMMUNITY RESPONDS



Someone is using Tornado Cash to send ETH to Doxxed Wallets

GENERAL-NEWS

It appears there's still some chaotic good left in the world. Earlier today, someone or a group of individuals began using tornado cash to send ETH to known wallets of celebrities. Recipients included Donald Trump, Jimmy Fallon, Beeple, Shaq, Brian Armstrong, Randi Zuckerberg, BitBoy and many more.



https://www.reddit.com/r/CryptoCurrency/comments/wkdwj8/someone_is_using_tornado_cash_to_send_eth_to/https://www.coindesk.com/policy/2022/08/09/someone-is-trolling-celebs-by-sending-eth-from-tornado-cash/

OFAC RESPONDS

Cyber-related Sanctions

1078. Do OFAC reporting obligations apply to "dusting" transactions?

OFAC is aware of reports following the designation of Tornado Cash that certain U.S. persons may have received unsolicited and nominal amounts of virtual currency or other virtual assets from Tornado Cash, a practice commonly referred to as "dusting." Technically, OFAC's regulations would apply to these transactions. To the extent, however, these "dusting" transactions have no other sanctions nexus besides Tornado Cash, OFAC will not prioritize enforcement against the delayed receipt of initial blocking reports and subsequent annual reports of blocked property from such U.S. persons.

For guidance related to filing an initial and annual report of blocked property, please see FAQs 49, 50, and 646, respectively, and 31 C.F.R. § 501.603. Please note that the annual filing requirement for 2022 applies only to persons holding blocked property as of June 30 of this year.

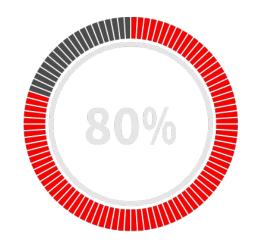
Released on 09/13/2022

https://home.treasury.gov/policy-issues/financial-sanctions/faqs/added/2022-09-13

OFAC OVERSTATED ILLICIT ACTIVITY BY ~80%

"The Treasury Department said about \$7 billion in crypto flowed through the mixer over the past three years or so since Tornado launched. Blockchain analytics firm Elliptic estimated that some 20% of this was illicit, which, to be clear, is a lot."

Estimated (at the high end) at \$1.4 billion



https://www.coindesk.com/policy/2022/08/12/issues-crypto-should-watch-for-in-the-tornado-cash-sanctions/

ETHEREUM FOUNDER IS PART OF THE 80%





THIS IS WHY WE CAN'T HAVE NICE THINGS...



LENDING AND STAKING ARE DIFFICULT IN THE USA NOW

Lending

Prior to FTX, many crypto owners were lending their crypto to others at comparatively high interest rates.

Staking

Staking is offering crypto for collateral to secure a crypto network. Staking is rewarded with tokens.

Stablecoins

Stablecoins are tokens pegged to another asset. Whether or not they are stable depends on many factors.

MARGIN TRADING IS EXTREMELY RISKY IN CRYPTO

- Make sure you know if your client is crypto trading on margin (prepare a plan)
- Given the price fluctuations margin trading is the wrong choice for most people

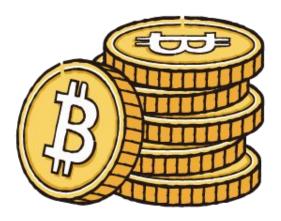
A FEW TAX ISSUES (RELATING TO FTX)

- Reported gains without actual access
- × Unable to offset gains
- × Companies have not yet written off the losses
- × Bankruptcy is complex and lengthy



WHAT IS A FUNGIBLE TOKEN?

With a fungible token one token or coin is exactly the same as another. A bitcoin is a bitcoin (mostly):)



WHAT IS AN NFT?
WHY ARE THEY VALUABLE?
ARE THEY VALUABLE?

NON FUNGIBLE TOKENS (NFT)

A token that is unique and different from all other tokens. Rights are part of the token, much like the bundle of sticks in real property law.





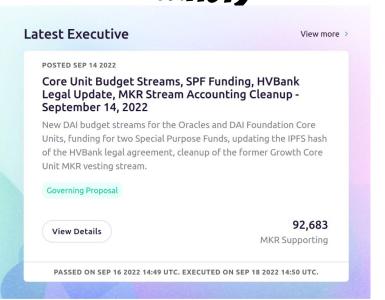
GOVERNANCE TOKENS (INTERNET DEMOCRACY)

Maker Governance Voting Portal

Vote with or delegate your MKR tokens to help protect the integrity of the Maker protocol

How to vote

https://makerdao.com/en/



BEEPLE

Beeple sold an NFT for \$69 million



/ Through a first-of-its-kind auction at Christie's

By JACOB KASTRENAKES / @jake_k Mar 11, 2021, 3:09 PM UTC | □







Beeple's collage, Everydays: The First 5000 Days, sold at Christie's. Image:

https://www.theverge.com/2021/3/11/22325054/beeple-christies-nft-sale-cost-everydays-69-million

BAYC NFT

"BAYC is arguably the most successful NFT project in the world. As of 2022, sales of BAYC have produced more than **\$2 billion** in trading volume.

Members of the Bored Ape Yacht Club include a-star celebrities like Snoop Dogg, KSI, Post Malone, **Jimmy Fallon,** Mark Cuban, KSI, DJ Khaled, Shaquille O'Neal, Justin Beiber, Serena Williams, Future, and more"

https://www.peerplays.com/news-articles/the-10-most-successful-nft-projects-of-all-time-what-made-them-so-successful%ef%bf%bc/



ACCESS TOKENS (SPECIAL PLACES, THINGS, OFFERS)

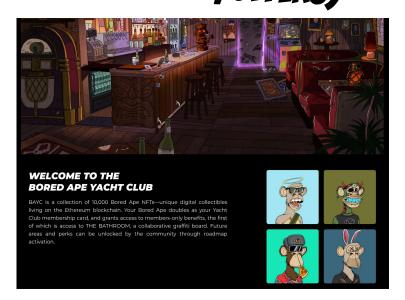
Membership tokens unlock access to spaces and perks

Owners can commercially exploit (in ToS) https://boredapeyachtclub.com/#/terms

Ethereum blockchain (network)

No choice of law. AAA arbitration in NY, NY

https://www.gemini.com/cryptopedia/what-is-boredape-yacht-club-nft-bored-apes



CAN I CREATE MY OWN NFTS EASILY AND QUICKLY?



BUYING AND CREATING NFTS ON OPENSEALIO

Largest marketplace

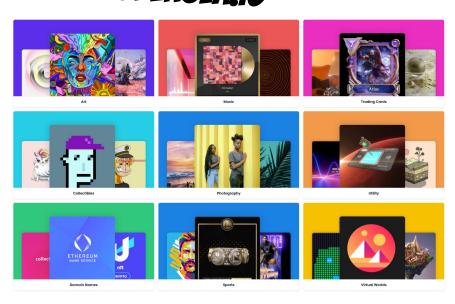
No standardization of rights or services

No standardization of law

JAMS Arbitration

Choice of law and venue NY, NY

https://opensea.io/tos



ADIDAS COLLAB WITH BAYC



Q Search items, collections, and accounts



adidas Originals Into the Metaverse

By adidasOriginals 🕏

Items 2 · Created Dec 201 · Creator fee 10%

Bored Ape Yacht Club, PUNKS Comic, una gmoney welcome adidas Originals into the Metaverse. Phase 1 NFT physical product claims have now closed.

See less ^

♦ 46.7K total volume

♦ 0.57 floor price

♦ < 0.01

best offer

100%

listed

68%

unique owners



adidas Originals: Into the Metaverse (Pha...

Price **♦** 0.568

Ends in 17 hours

17 hours



adidas Originals: Into the Metaverse (Pha...

Price

♦ 0.599

Ends in a day

https://opensea.io/assets/ethereum/0x28472a58a4 90c5e09a238847f66a68a47cc76f0f/0 https://www.adidas.com/into_the_metaverse

ADIDAS COLLAB WITH BAYC

Limited right to physical

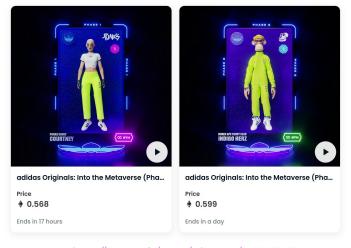
merch. The Phase 1 token no longer grants the ability to claim collaborative physical merchandise.

Owners **cannot** commercially exploit (in ToS), no derivatives or mods

https://adidasapp.adidas.com/legal/into_the_metaverse_tc.html

Ethereum blockchain (network)

German law applies



https://opensea.io/assets/ethereum/0x28472a58a4 90c5e09a238847f66a68a47cc76f0f/0 https://www.adidas.com/into_the_metaverse

NFT LICENSE STANDARDIZATION



The Can't Be Evil NFT Licenses

by Miles Jennings and Chris Dixon

August 31, 2022

NFTS



- Know if your client is a creator (royalties)
- Know what assets your client has & what platforms they're using



- Assume what rights an NFT owner has, you must check ToS
- Assume your client's wallet(s) will know of all of their NFTs

ESTATE PLANNING



- Ensure your client creates an access plan for their cryptoassets
- Ask your client if they want their estate to hold cryptoassets
- Include a clause that allows the executor or trustee discretion and flexibility for cryptoassets
- Create a tech plan if assets will be held
- Remember we're all in this together, call on colleagues

ESTATE PLANNING



- Help your client recognize the technical (in)abilities of their heirs
- Have your client identify helpers with technical expertise who can access the assets when needed
- Consider leaving self custody keys to a specific person or organization after assets have been distributed*
- Plan for dust or junk tokens

ESTATE PLANNING DON'TS

- Include sensitive information, like asset lists, key locations, and access plans, in estate planning documents
- Allow more than one year to pass without updating asset lists, software lists, and access plans
- Rely on your client to actually do the access planning, trust but verify

ADDITIONAL RESOURCES

The Property Law of Tokens:

https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3928901

Non-fungible Tokens (NFTs) and Copyright

https://www.wipo.int/wipo_magazine/en/2021/04/article_0007.html

Coindesk is a fairly reputable publication: https://coindesk.com

Coin Center provides excellent resources for lawyers and policy makers in the USA: https://coincenter.org

BONUS

Service of Process by NFT in the UK?!?



https://www.coindesk.com/policy/2022/07/13/uk-court-allows-serving-of-suits-via-nfts/

https://www.lawgazette.co.uk/news/high-court-permits-service-by-nft-in-english-legal-first/5113106.article

BONUS

"awarding luxury brand Hermès \$133,000 in damages from artist Mason Rothschild, who made and sold non-fungible tokens [MetaBirkins] of the brand's iconic Birkin handbag"

Hermès Wins Trademark Case Against Artist Who Sold Birkin Bag NFTs

The case was deemed a critical examination of how a company can enforce intellectual property rights in relation to virtual assets.

Arkin-hoos-nft-trademark-casa/444543

https://www.entrepreneur.com/business-news/hermes-wins-birkin-bags-nft-trademark-case/444643



Any questions?

You can find me at @pamelawjd & pamela@empoweredlaw.com