Brain Dump follows…

TudCoin
SatChiCoin

Agility
Monolith
microservice
Decentralized
centralized
bleeding edge
cutting edge
NKOTB
TEZOS
ETH
Polygon

carbon offsets

globalism

k-pop

Post-yolo

critical thinking,

social fabric

Opensea

Metamask

hide the complexity

Inclusivity

Utility

primitives

access control

Forging

NFT non-fungible tokens

Crafting

random generation

ERC20

ERC721

ERC1155

EIP-2309

IBC > Inter-Blockchain Communication

Chainswaps

StrongNode

Node

Polygon

ETH native

PolygonEt

on-chain.

CryptoKitties

Crypto punks

Bored apes yacht club

Trailers

goobers

baked in

Tokens

closed-source

Rarity

attributes

off chain

gas'

Ipfs

Filecoing

Namecoin

unstoppable domains

Eth domains

censorship resistance

smart contract

turing complete

unit tests

automation

monkey

Fuzzing

wallets

Stakeholder

virtual event

Giveaways

asset vault

Gamified

Collab

HR

Wellness

ERC

web3

frameworks

Metamask

brave

distributed app (dapp)

https://www.npmjs.com/package/ethers

https://framework.embarklabs.io/

https://www.trufflesuite.com/

https://tatum.io/apidoc.php

app example walk through, https://cryptozombies.io/

natively on ETH blockchain + metamask or equiv. (and poly assumed)

smart contract

json-rpc-methods

Solidity,

Web3.js)

Polygon

ETH

Polygon_ETH

nodes

blockchain with an ETH

Fork

transaction fee

Ipfs

filecoin

PHP 'GUI' +

solidity

JS

on chain

dapp

Punk

NFT

URL

'temples of enthusiasm'

protecting the floor

brrr

bitcoin

Taproot

ETH

Proof Of Work

fractionalized Union nft

Brain Dump follows....

agility or rigidity
monolith vs microservice
decentralize or centralized
bleeding edge (bespoke edge) vs cutting edge (NKOTB, TEZOS, ETH/Polygon ETC...can we eliminate risk of blood!) vs 'established' tech (ETH)

risk assessment

timescale

delivery window

it must work, top of the mountain or zero

early stakeholder engagement;

accessibility

addressing environmental concerns / carbon offsets etc

https://medium.com/superrare/no-cryptoartists-arent-harming-the-planet-43182f72fc61

nothing is cooler than k-pop right now...so what's next, afrocentrism (last big in 2004), globalism, what does 2024 art style look like, k-pop meets Cuba divided by Uzbekistan multiplied by Bhutan?... sex positive, mental health, post-yolo, nuance, critical thinking, social fabric, trust, identity, privacy, governance, scenius...

achieving understanding benefits from diverse communication

data to inform, not monitor<

trust and belief<

uncover existing skills in users (use opensea or metamask etc)<

hide the complexity< < add inclusivity, humour, warmth, fun and kindness

-> comic strip / video / audio / text / live walkthrough / in person events / fearless crypto champions

, , scale, scope, testing, pilot, soft launch with fake assets and full team testing, hard launch with assets and 'final product'

Utility

What can an NFT actually do?

https://eth.wiki/json-rpc/API#json-rpc-methods

basic primitives are ownership, transfer, and simple access control

complex mechanics, like forging, crafting, redeeming, random generation

NFT 'Flavours'

ERC20 | ERC721 | ERC1155 | (key difference is how multiples are handled)

https://eips.ethereum.org/EIPS/eip-2309 (EIP-2309: ERC-721)

IBC > Inter-Blockchain Communication ('chainswaps') < this is huge, this allows me to burn an NFT from one chain to have it manifest on another, all protocols will aspire to this as it's required to compete and the winner stands a chance of 'taking all'

ex. StrongNode is creating a global last-mile mesh network by harnessing and sharing latent computing resources of node seeders to power companies around the world.

Polygon vs ETH native (or PolygonEth! need more understanding here)

https://bitcoinke.io/2021/09/understanding-polygon/

Smart contracts allow developers to place hard caps on the supply of non-fungible tokens and enforce persistent properties that cannot be modified after the NFTs are issued. For example, a developer can enforce programmatically that only a specific number of a specific rare item can be created, while keeping the supply of more common items infinite. Developers can also enforce that specific properties do not change over time by encoding them on-chain.

CryptoKitties baked in a breeding mechanic directly into the contract that represents the digital cats.

…a crypto kitty may own a scratching post and a feeding dish; the dish may contain some amount of fungible “chow” tokens. If I sell the crypto kitty, I sell all of the belongings of the crypto kitty.

, they built an on-chain breeding algorithm, hidden inside of a closed-source smart contract that determined the genetic code of a cat (which in-turn determined its “cattributes”).

,

, The CryptoKitties team even ensured the randomness of the breeding through a sophisticated incentive system and had the 'foresight' to reserve certain low-ID cats for later use as promotional tools. (my quotes...)

,

storing data, on chain vs off chain (tldr, on chain too expensive, off chain required (not a problem as we control the persistent environment)

costs: 'Ethereum’s Yellow Paper states that it costs 20 000 gas to store one 256-bit word. Now, let’s do some math. Eight bit make one byte, so one word is 32 byte. 1024 byte make one kilobyte. So the amount of gas you’d pay to store 1 kilobyte equals 32*20 000 gas=640 000 gas. The price of gas in ETH isn’t fixed, though: users can set their own. According to ETH Gas Station, the average price as of November 2019 is 6 gwei, or 0.000006 ETH. Thus, to store just 1 kilobyte of data you’d pay on average 640 000 gas*0.000006 ETH = 0.00384, or $0.73 at the current ETH/USD price.'

where is the data;

durability, privacy, security (ipfs/filecoing NOT - namecoin (Dead?), (ex. unstoppable domains (scam kind of))

https://nft.storage/ vs centralized servers (centralized for ease, ipfs for cool factor...$$$ and a bit controversial regards censorship resistance issues)

https://docs.ipfs.io/how-to/best-practices-for-nft-data/#metadata

3rd party security audit / penetration test for smart contract soundness and vulnerabilities (ETH is turing complete, errors can be complex and undetectable using unit tests, automation, monkey, random or fuzzing analysis, etc) < developer trust implications! (easily more documentation than code ratio, 32 lines of descriptive text for each line of code in a smart contract is probably about right, flowcharts, etc, we must understand every symbol!)

intro to basic security, blockchain, wallets, fearlessNFT intro, security reminder

addressing stakeholder buy in (or how many things can you roll into one NFT platform)

virtual event giveaways (eg, come to results call, get virtual trombone,etc)

technical / regulatory / control / privacy hurdles

asset vault with commissioned corp NFT, shared between coop. sell when X above purchase and reinvest based on group vote etc etc

gamified collab,

reward trades with currency,

reward courses and training with currency

loyalty deals with other corp, hot desk access, blah?

head of people / HR / compensations

media meets utility, purpose based, (engagement, wellness, share in performance results)

tantric salmon

link currency to corp id, gamify corp wellness targets (gym, taking holiday on time, etc, signed up to x,y,z rewards, etc)

new ERC standard allows almost unlimted NFT to be created on the ETH Polygon chain with minimal gas fee (https://dev.to/femostic4j/how-to-create-your-own-erc-721-token-that-runs-on-local-testnet-1abo)

web3 frameworks + metamask (https://docs.metamask.io/guide/#account-management)

for distributed app (dapp)

https://www.npmjs.com/package/ethers

https://framework.embarklabs.io/

https://www.trufflesuite.com/

https://tatum.io/apidoc.php

app example walk through, https://cryptozombies.io/

natively on ETH blockchain + metamask or equiv. (and poly assumed)
https://karl.tech/learning-solidity-part-1-deploy-a-contract/

https://eth.wiki/json-rpc/API#json-rpc-methods

Blockchain Tutorial For Developers: Step-By-Step Guide (Ethereum, Solidity, Web3.js)

https://www.youtube.com/watch?v=nvw27RCTaEw (2.5 hrs)

polygon offers low cost transactions (based on ETH net, requires initial purchase of polygon or transfer of eth, some confusion over Polygon and Polygon_ETH to be worked out

or... run nodes and launch your own blockchain with an ETH fork, low transaction costs, (nodes can be hired for £xxx) and build the NFT on there?

tezos hit en nuc 'street cred' low transaction fee?

ipfs + chain = forever

community benefits + philanthropy + meaning + cause

(PHP 'GUI' + solidity (JS,etc) vs (pure on chain dapp)

tatum.io (lockin?)

fractionlized an $ art piece , NFT picture changes using $ art collection, you can 'win' a display for home that is an electronic art piece showing exclusive work

buy a punk add it to a collection and frationalise, or better still, buy 2, keep 1 'whole' in the collection AND fractionalise them, get creative to remix the punk into individualised fearless punks for all, (*new hats, badge, borders, etc) this could change over time (the NFT is just a link to a URL, we control everything else...)

whole company learning experience=maybe coins can be traded with anyone?

#1 Financial Wellness Programs. ...

#2 Flexible Work Arrangements. ...

#3 Health Insurance Benefits. ...

#4 Paid Time Off. ...

#5 Mental Health Benefits. ...

#6 Family-Friendly Employee Benefits. ...<<<

#7 Professional Development Benefits. ...<<

#8 Student Loan Employee Benefits.

'temples of enthusiasm'

protecting the floor, built in value rise over time, everyone is sad when number goes down, money printer should say brrr every day...

can a blue chip grasp the level of humour required to participate in the community as a whole, deflecting issues around corporate appropriation...it does not always work.

chains can change, bitcoin Taproot ETH Proof Of Work move will demonstrate how the code behind these systems can be swapped out for new code, while at scale that appears hard, it's dynamically easier because all parties are aligned, if the new code offers benefits every

one wins, platform, miners and holders, so they move together fairly fluidly as a dynamic dependent system compared to a competitive environment and a rigid hierarchical system.

Programmed #1 - pilot in Bristol, 160 tickets (impemented in hardware? geolocated and monitored for 'panic button', drink spike, knife or tipoff, subtle, anonymous and secure) for 200 cap £2666 budget (exchange tickets for drinks, or keep for next event...) fancy cocktails mohito and marini espresso, more tokens representing tracks to be played, buy to ensure play time...or artists.. pay to have play live...etc.etc safe levels family hour 6-10pm then loud, accessable, (sight,sound, level floor, toilets) yoga, dancing, gong bath, smoke n strobe, optical illusions, UV, sound level profiling, indoor fireworks, er, zones of regulation, EQ , dB etc, face paint (anti-cctv) and photo id style snapshot for next NFT...if you make it to the end..

fractionalized Union nft take over and employee buyouts.

Further Reading:

https://portal.neondistrict.io/

https://nonfungible.com/

https://superrare.com/

https://knownorigin.io/

https://makersplace.com/

https://www.cent.co/

https://digitalartchain.com/

https://www.mintbase.io/

https://mintable.app/

https://rarible.com/

https://app.cargo.build/

https://decentraland.org/

https://battleracers.io/

https://www.cryptovoxels.com/

https://tryroll.com/

https://somniumspace.com/

https://www.sandbox.game/en/

https://enjin.io/

https://lostrelics.io/

https://opensea.io/assets/gods-unchained

https://www.skyweaver.net/

https://cryptospells.jp/

https://ens.domains/

https://www.reddit.com/r/ethdev/comments/n4cq3c/approaches_for_batch_minting_of_nfts/

https://www.pinata.cloud/

https://www.ibc.org/trends/what-nft-means-to-the-content-model-could-be-profound/7953.article

- [ ] Death of KYC/AML

“A crazy thing with Taproot is:
A company could create a virtual bank to handle all transfers with its suppliers by doing a single onchain transaction.

From the outside, it would look like a normal "Someone sent some coins from address A to address B" transaction.

But internally, a key needed to spend the funds is only valid if the company and all of its suppliers sign it.

This means every time there is a transaction between the company and one of its suppliers, the company would send out a signed message with the new spending conditions (the new balance of the company and every supplier) to the supplier network. Everyone signs it and that's it. It does not go on chain.

Only if a participant becomes uncooperative, the latest state will go on chain and everyone will get what they own.

So in the future, two transactions on the Bitcoin chain a few years apart could be "Someone sent something somewhere in December 2021 and then they send something somewhere in June 2025". Or it could be "BMW did ten thousand transactions with its suppliers". You don't know. Both look the same on chain. And all of the transactions were free, instant and possible 24/7.
“