# Blockchainizator

# Blockchain tokens for gaming & collectibles

Thoughts & exchanges about blockchain in gaming & collectibles, and particularly on how token formats for flexible consumer usages could unfortunately lead to fragmentation (e.g. on Ethereum the cases of different token's types like ERC-20, ERC-223, ERC-721, ERC-1155, etc. are sometime difficult to manage for apps & wallets).

A list of some aspects to consider for these kind of tokens (rough, and high level):

- (non-)divisible

- amount (units)
    - unique (NFT)
    - limited edition numbers
    - open, not (yet) locked vs. locked

- attributes (characteristics)
    - additional info written within token on blockchain/contract(s)
    - link to parameters file or rich media
      (stored centralized vs decentralized, e.g. on another blockchain)
    - hash from parameters file or rich media

- contracts
    - identified/authorized (restricted or not, e.g. black- or white-list)

- features
    - identified/authorized
    - ownership
    - sending
    - swap
    - mass distribution (per wallet, as dividend)
    - trade orders: sell, buy (for DEX: units, price, period validity)
    - complex sell/buy, e.g. auction (unit & price as time function)
    - sell authorisation (for wallet): white-list (black-list)
    - (temporary) renting or sharing of tokens

- group/family of tokens with sub-tokens

- issuer, ownership (of group/family, of individual token), renter, co-sharer

- usage by (d)apps
    - identified/authorized
    - etc.

2 last points about interoperability from BGA (Blockchain Game Alliance http://blockchaingamealliance.org/)

- (Last year) proposal with Json examples of digital assets collection
  https://blockchainizator.com/tmp2delete/JSON-proposal-blockchain-collection.html
  (slides overview available if desired)

- Blockchain Asset Metadata Standardization with a proposal named Blockchain Bean Assets (BBA)
  https://medium.com/@contact_39503/blockchain-game-alliance-launches-its-first-technical-working-group-today-april-19th-57a91d68e91c.

⇨ my advice by defining tokens formats in a blockchain: check previous experiences and put in place something modular to cover all use cases.

Nicolas Sierro - July 2019