

# NFT VALUE DASHBOARD

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Rachana, Madhavi, Deepak

Team – SMART Street





**THE WAY TO  
GET STARTED  
IS TO QUIT  
TALKING AND  
BEGIN  
DOING.**

**Walt Disney**



# Agenda

About NFT

Problem Statement

Data Description

Tableau Dashboard

Jupyter Notebook

Summary





# About NFT

The Definition





# About NFT

Non-Fungible tokens or NFTs for short are unique digital items such as digital art, music, collectibles or in-game assets that are issued on a blockchain.

Basically, they are digital tokens on a blockchain network and provide a representation of a unique item.

NFTs or non-fungible tokens are presently the hottest trends in the domain of blockchain and crypto codes which can be bought or sold using cryptocurrency.

Users can trade NFT via website called as NFT marketplace. These websites facilitate a location where a trade takes place, and often takes a percentage from the transaction for their services. Every blockchain has its own NFT marketplace.





# Problem Statement

NFT Value Dashboard





# Problem Statement

These days, NFTs are making a splash in the market by providing people with a new option to acquire assets. Between the second and third quarter of 2021, NFT trading increased 700% (\$10.7 billion) according to DappRadar. Whether they've been used for exchanges or as investments, NFTs have been applied to various fields, including science, technology, and art.

With NFTs becoming more popular, RMDS Lab is hosting its own data science competition - Creating a NFT Value Dashboard to Summarize the Past and Predict the Future. Contestants will be challenged with collecting datasets to create a dashboard that assesses trends in the development of NFTs and forecast their future trajectory.





# Data Description

Dataset





# Data Description

The datasets provided are:

## 1. ASSETS

Each row represents a specific NFT item. It includes features like name, description, and asset category.

## 2. EVENTS

Each row represents a specific event about NFTs. It includes features like event type, auction type, and duration.

## 3. COLLECTIONS

Each row represents a specific NFT collection. It includes features like created date, description, and average price.

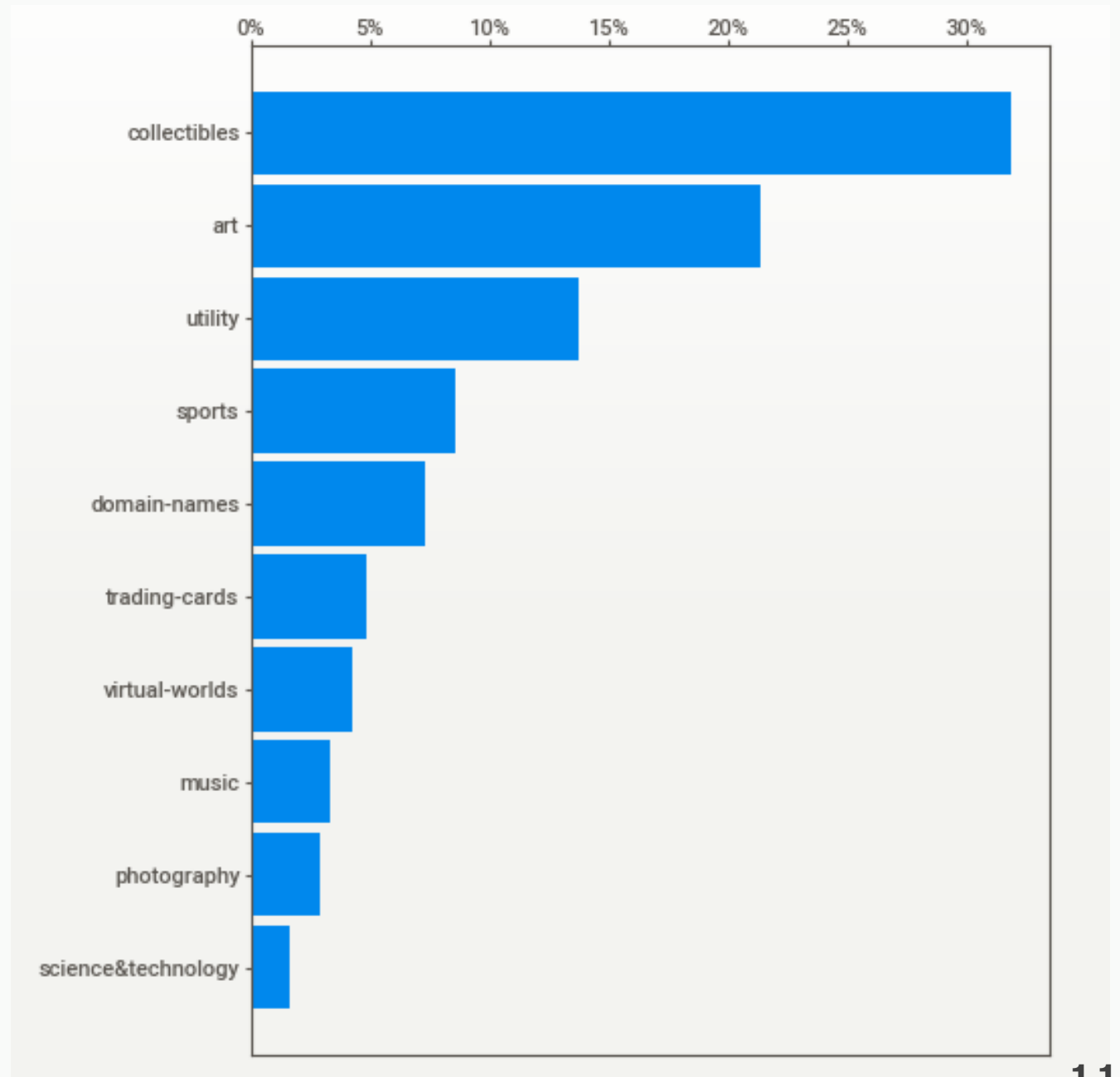


# Data Description - ASSETS

Statistics	Description
Number of Observations	16550
Total size in memory	44 MB
Number of Features	31
Categorical	9
Numerical	6
Text	16



# ASSET CATEGORY



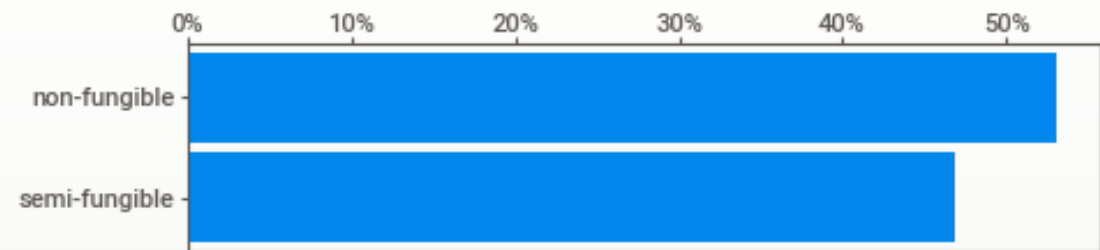
## TOP CATEGORIES

collectibles	5,283	32%
art	3,542	21%
utility	2,280	14%
sports	1,425	9%
domain-names	1,211	7%
trading-cards	806	5%
virtual-worlds	706	4%
music	549	3%
photography	483	3%
science&technology	265	2%
ALL	16,550	100%

# ASSET CATEGORY



# ASSET CONTRACT TYPE



## TOP CATEGORIES

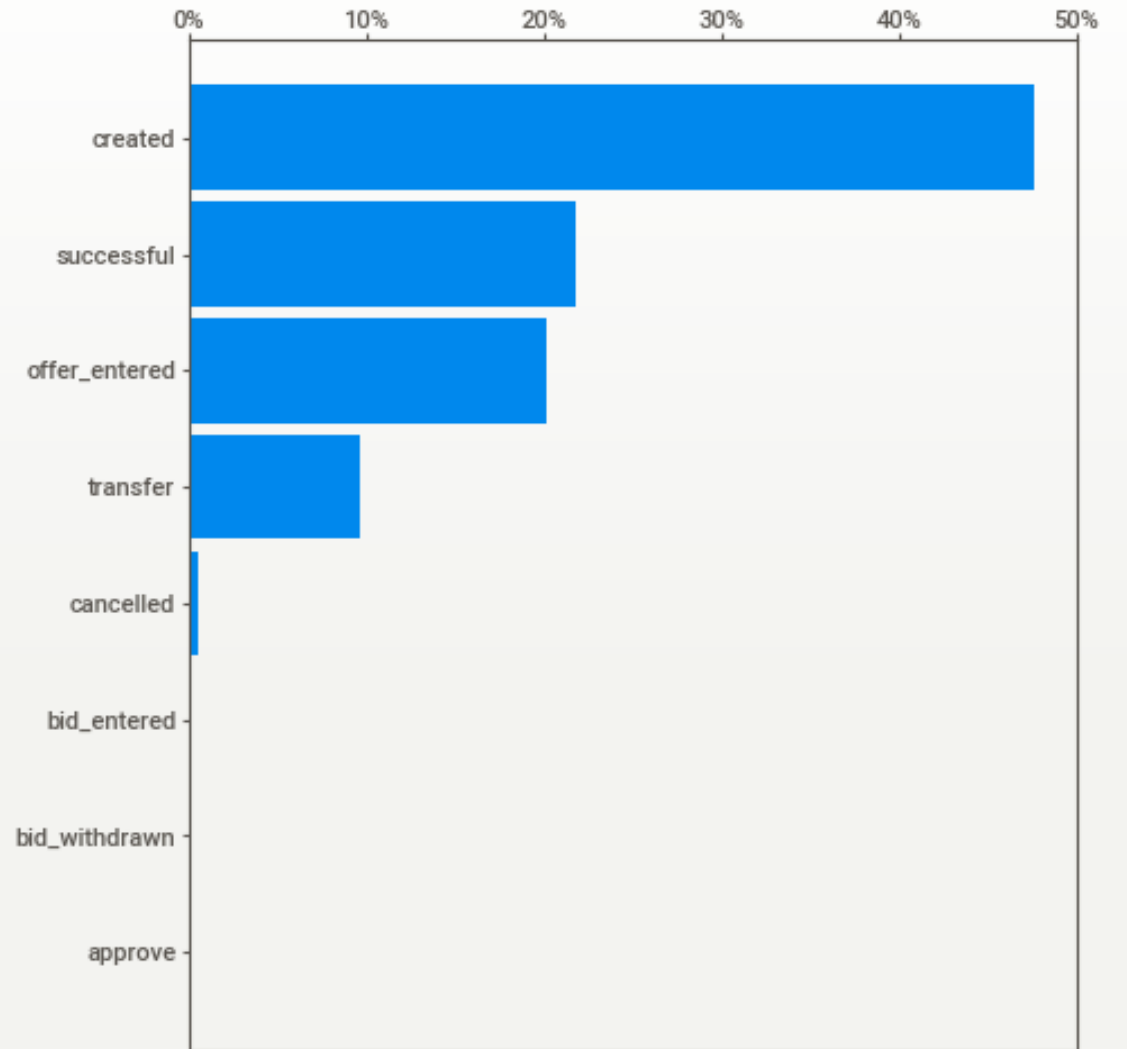
non-fungible	8,787	53%
semi-fungible	7,762	47%
ALL	16,549	100%

# Data Description - EVENTS

Statistics	Description
Number of Observations	87404
Total size in memory	86.5 MB
Number of Features	20
Categorical	3
Numerical	6
Text	11



# EVENT TYPE

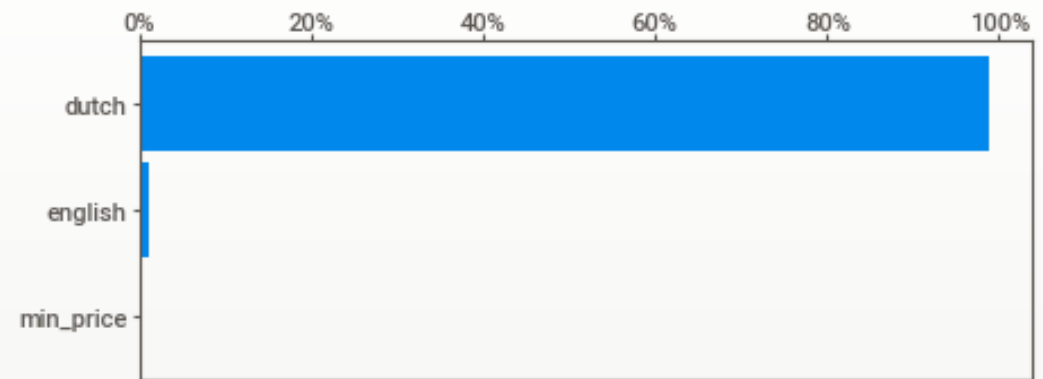


## TOP CATEGORIES

created	41,626	48%
successful	19,050	22%
offer_entered	17,621	20%
transfer	8,380	10%
cancelled	446	<1%
bid_entered	156	<1%
bid_withdrawn	124	<1%
approve	1	<1%
ALL	87,404	100%

# EVENT TYPE

# AUCTION TYPE



## TOP CATEGORIES

dutch	41,326	99%
english	461	1%
min_price	5	<1%
ALL	41,792	100%



# Data Description - COLLECTIONS

Statistics	Description
Number of Observations	1427
Total size in memory	3.2 MB
Number of Features	46
Categorical	10
Numerical	24
Text	12

# Sweetviz report for dataset

Dataset	Report
ASSETS	assets_sweetviz_report
COLLECTIONS	collections_sweetviz_report
EVENTS	events_sweetviz_report

Note: HTML report file is attached as part of deliverables



# Tableau Dashboard

NFT Value Dashboard



# NFT Value Dashboard – Asset Category

## Asset Category Trend and Distribution

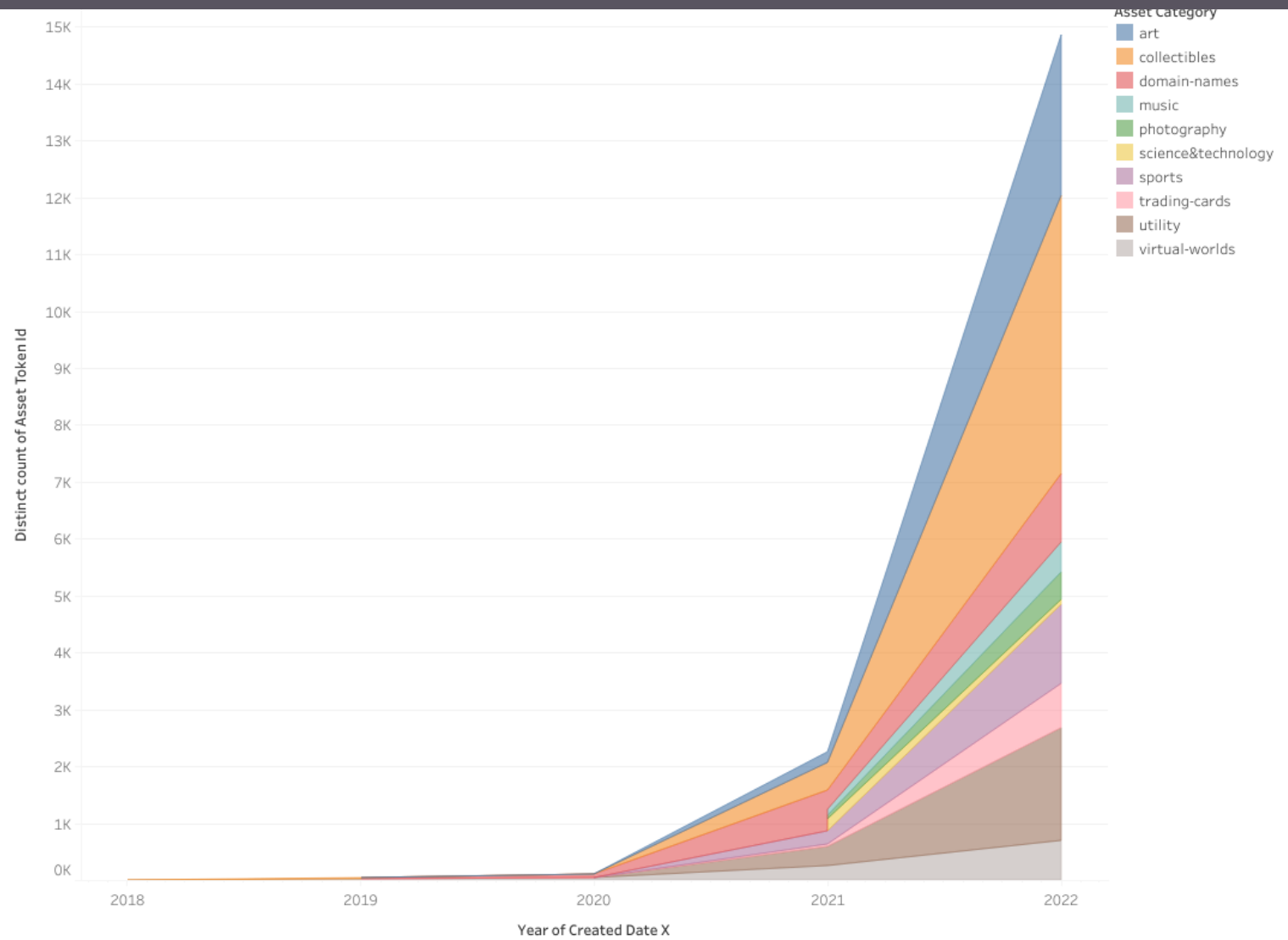
- [Year wise Trend](#)
- [Volume Traded](#)
- [Asset Category vs Auction Type](#)

## Asset Category Favorite and Social Media Presence

- [Favorite Distribution](#)
- [Social Media Presence](#)

# NFT Insights

- Year wise trend for Asset Category



# NFT Insights

- Volume traded

## Volume Traded

virtual-worlds

No. of Owners: 174,310,517

Market Cap: 292

collectibles

No. of Owners: 58,789,891

Market Cap: 676

domain-names

No. of Owners: 1,547,131,104

Market Cap: 455,635

trading-cards

No. of Owners: 194,022,296

Market Cap: 59

art

No. of Owners: 36,841,205

Market Cap: 522

utility

No. of

Owners:

Stats Total Volume

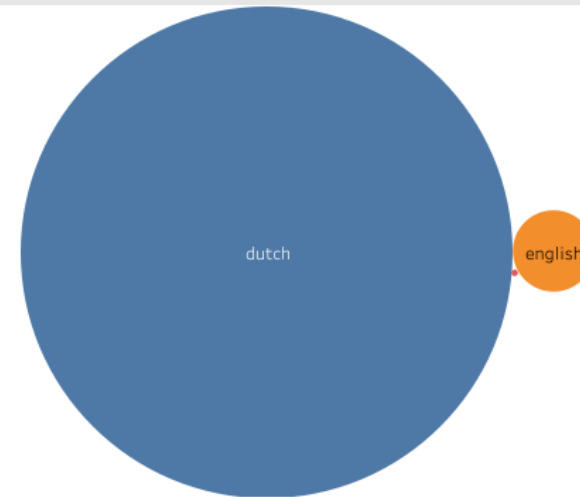
929 337M



# NFT Insights

- Asset Category vs Auction Type

Auction Type



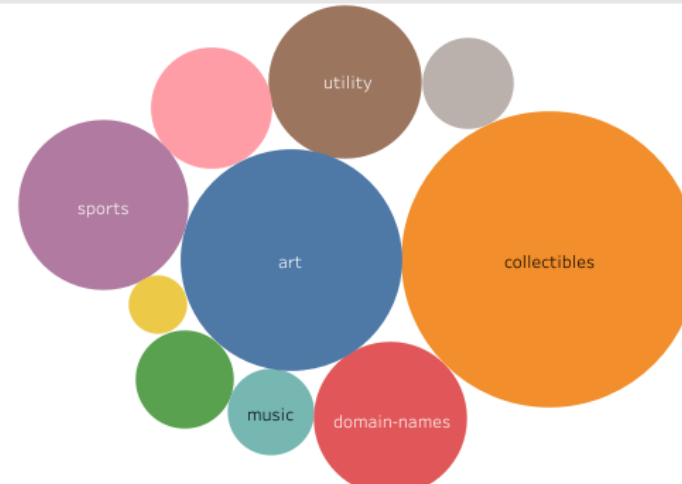
Auction Type

dutch  
english  
min\_price

Asset Category

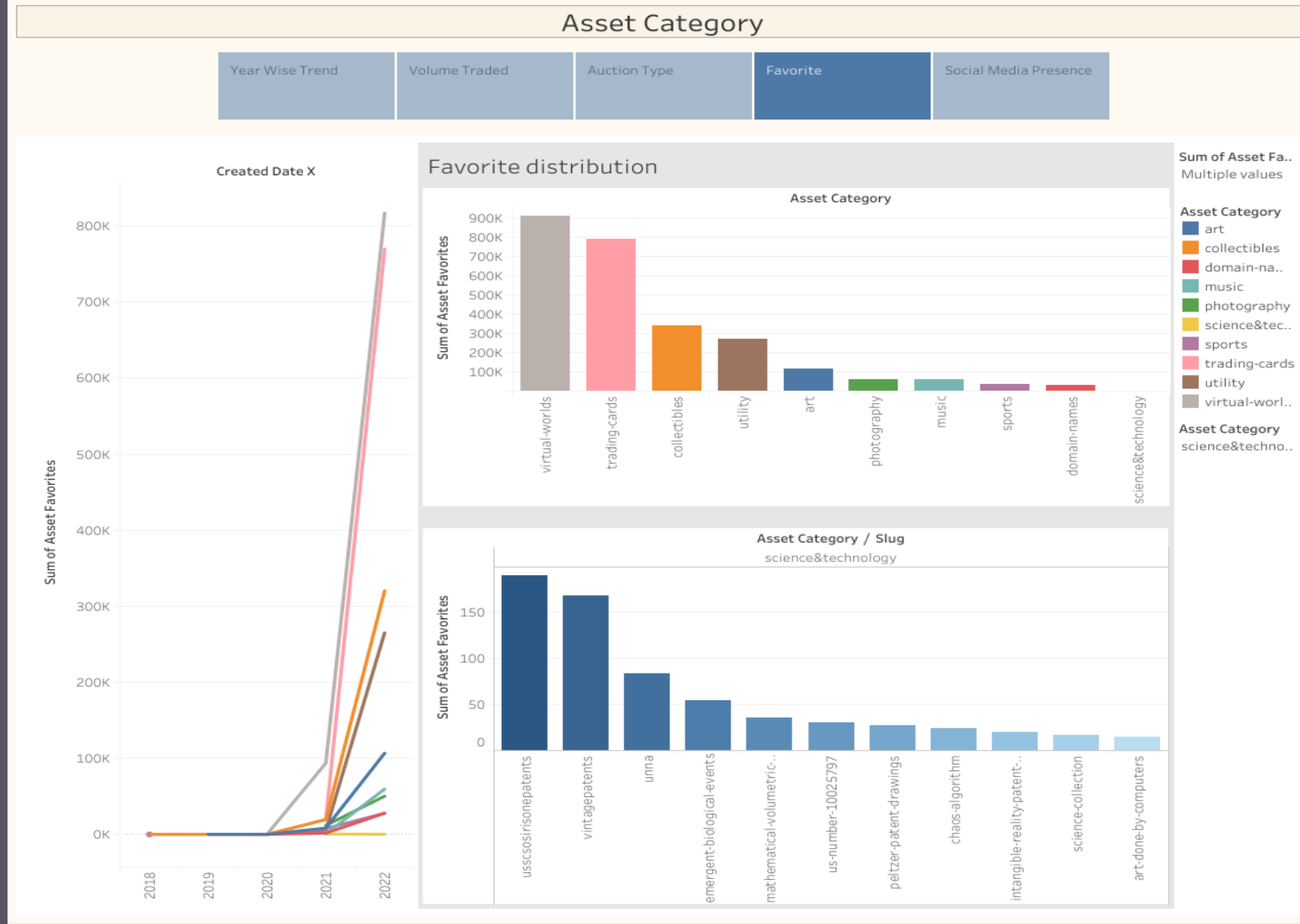
art  
collectibles  
domain-names  
music  
photography  
science&technology  
sports  
trading-cards  
utility  
virtual-worlds

Dutch Auction Type



# NFT Insights

- Favorite Distribution for Asset Category



# NFT Insights

- Social Media Presence for Asset Category





# NFT Value Dashboard

## Top Asset Category for 1-Day, 7-Day & 30-Day Volume, Sales & Avg. Price

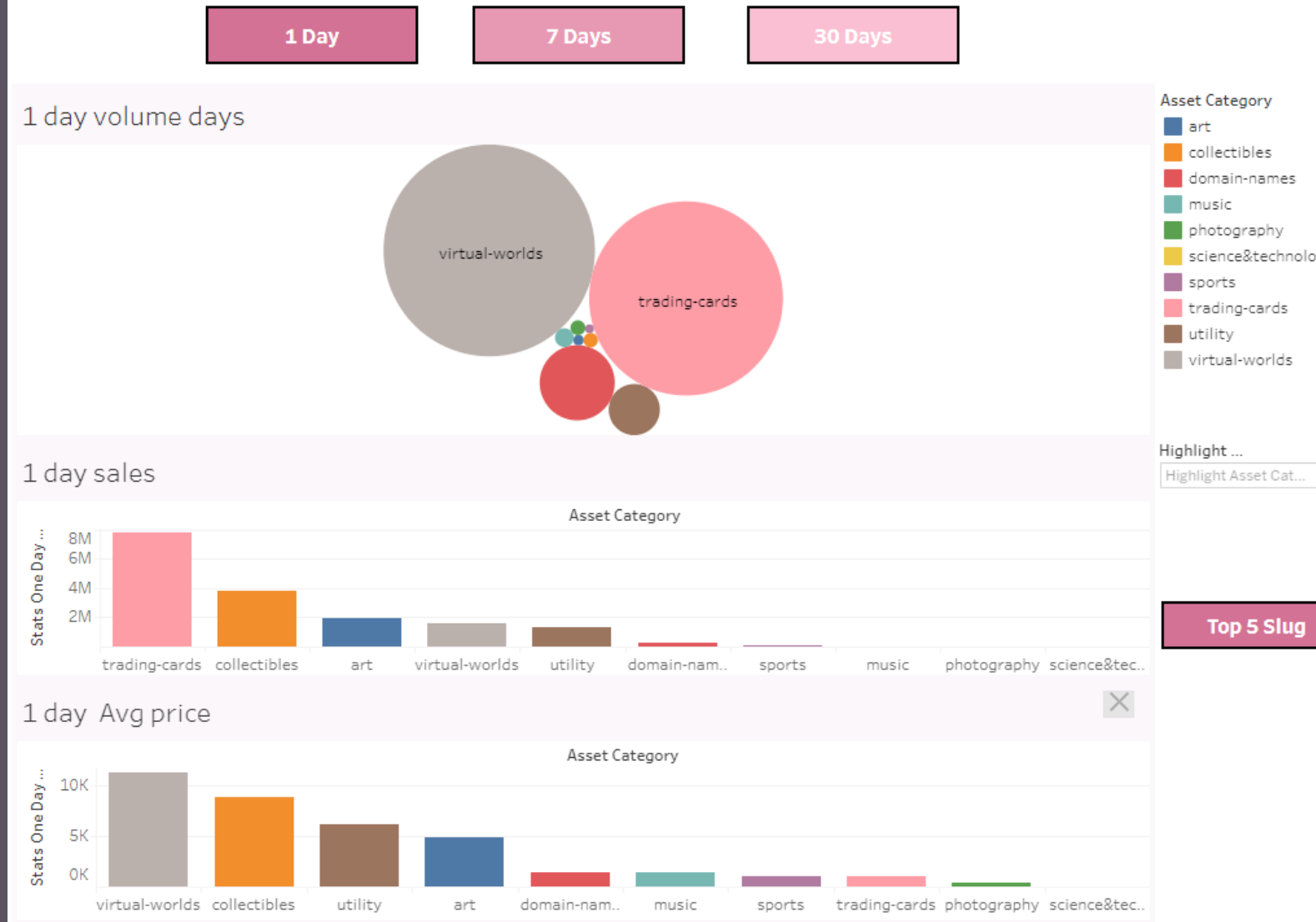
- [Top Asset Category for 1-Day](#)
- [Top Asset Category for 7-Day](#)
- [Top Asset Category for 30-Day](#)

## Top 5 Slug for 1-Day, 7-Day & 30-Day Volume, Sales & Avg. Price

- [Top 5 Slug for 1-Day](#)
- [Top 5 Slug for 7-Day](#)
- [Top 5 Slug for 30-Day](#)

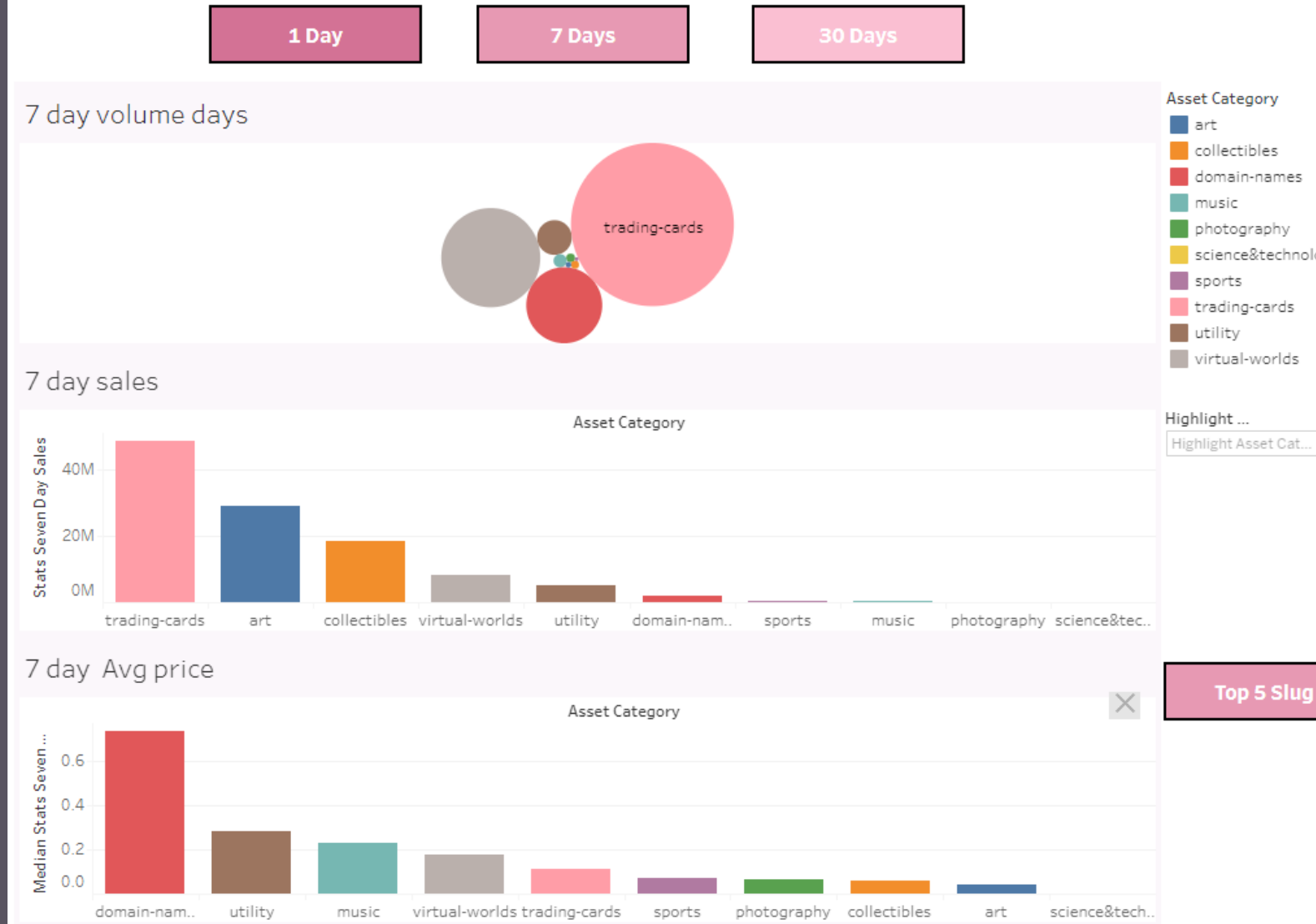
# NFT Insights

- Top Asset Category for 1-Day Volume, Sales & Avg. Price



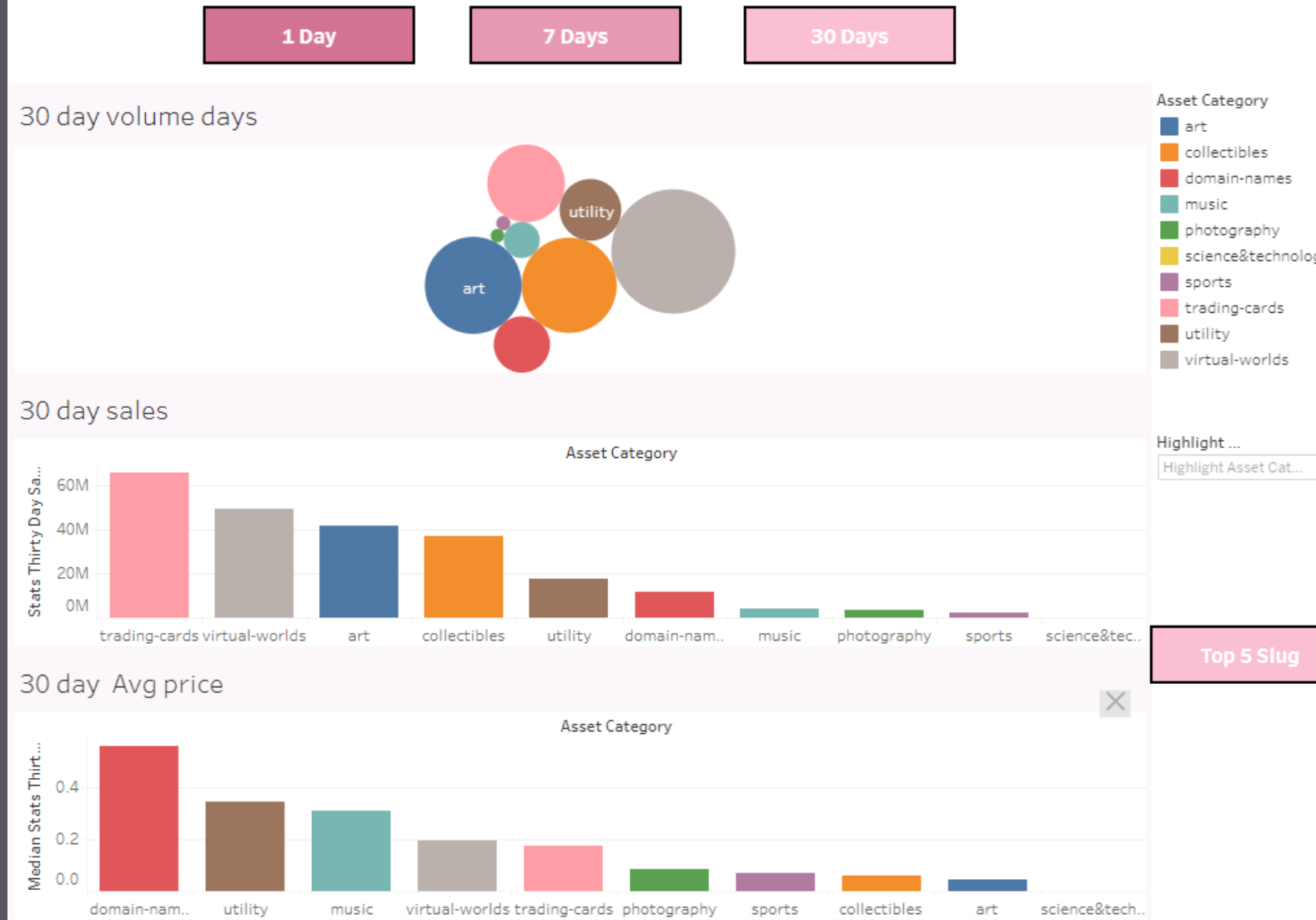
# NFT Insights

- Top Asset Category for 7-Day Volume, Sales & Avg. Price



# NFT Insights

- Top Asset Category for 30-Day Volume, Sales & Avg. Price





# NFT Insights

- Top 5 Slug for 1-Day Volume, Sales & Avg. Price

1 Day

7 Days

30 Days

1 Day

Asset Category	Slug	Avg. Stats One Day Average Price	Median Stats One Day Change	Median Stats O
art	karafuru	3	1	
	cryptopunks	69	-1	
	boredapeya..	99	0	
	wonderpals	1	0	
	dippies	0	-1	
collectibles	boredapeya..	99	0	
	clonex	18	0	
	veefriends	21	3	
	troverse-pl..	0	0	
	dourdarcel	0	6	
domain-names	ens	0	-1	
	dcl-names	0	-1	
	unstoppabl..	0	1	
	cryptovoxel..	0	-1	
	crypto-art-..	0	0	
music	theorbsbybt	2	1	
	wvrps-by-w..	0	0	
	snoopdogg..	2	-1	
	stellar-sens..	0	3	
	mola-chill-c..	0	2	
photography	quantum-	1	2	
	unseen-em..	1	0	
	uwpo	0	2	
	kevindyor	0	0	
	splitstories	0	0	
science&techn..	biology-1	0	0	
	art-done-by..	0	0	
	algorithm-n..	0	0	

Highlight Asset C

Highlight Asset C.

# NFT Insights

- Top 5 Slug for 7-Day Volume, Sales & Avg. Price

1 Day

7 Days

30 Days

7 Days

Asset Category	Slug	Avg. Stats Seven Day Average Price	Median Stats Seven Day Sales	Median Stats Seven
art	cryptopunks	52	107	
	boredapeya..	94	47	
	wonderpals	1	5,649	
	dippies	0	12,354	
	satoshirun..	0	8,462	
collectibles	azuki	12	312	
	boredapeya..	94	47	
	clonex	21	248	
	mutant-ape..	19	177	
	thewalking..	0	10,533	
domain-names	ens	1	357	
	unstoppabl..	0	10	
	dcl-names	0	6	
	unstoppabl..	0	8	
	cryptovoxel..	0	2	
music	theorbsbybt	1	94	
	wvrps-by-w..	0	181	
	snoopdogg..	2	54	
	soulection	0	40	
	musix	0	34	
photography	where-my-v..	64	1	
	quantum-	1	57	
	raskalov-co..	1	9	
	bondonthe..	3	7	
	-imperman..	0	244	
science&techn..	chaos-algor..	0	1	
	art-done-by..	0	0	
	algorithm-n..	0	0	

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# NFT Insights

- Top 5 Slug for 30-Day Volume, Sales & Avg. Price

1 Day

7 Days

30 Days

30 Days

Asset Category	Slug	Median Stats Thirty Day Volume	Median Stats Thirty Day Sales	Avg. Stats Thirty Day A
art	cryptopunks	31,149	306	
	boredapeya..	30,342	286	
	gazers-by-..	380	48	
	meridian-b..	309	26	
	letswalk	272	59	
collectibles	azuki	31,698	2,262	
	boredapeya..	30,342	286	
	clonex	26,331	1,400	
	mutant-ape..	20,635	1,000	
	veefriends	3,630	214	
domain-names	ens	1,230	2,201	
	unstoppabl..	6	229	
	dcl-names	5	33	
	unstoppabl..	1	56	
	cryptovoxel..	0	10	
music	theorbsbybt	2,172	1,279	
	wvrps-by-w..	2,032	3,467	
	snoopdogg..	407	244	
	namewee4..	4	6	
	eulerbeats	3	2	
photography	where-my-v..	551	10	
	quantum-	361	260	
	rowhomes	59	19	
	bondonthe..	21	7	
	urbananom..	2	2	
science&techn..	usscsosiris..	0	16	
	chaos-algor..	0	8	
	emergent-b..	0	1	

Highlight Asset

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# NFT Value Dashboard – Event Type

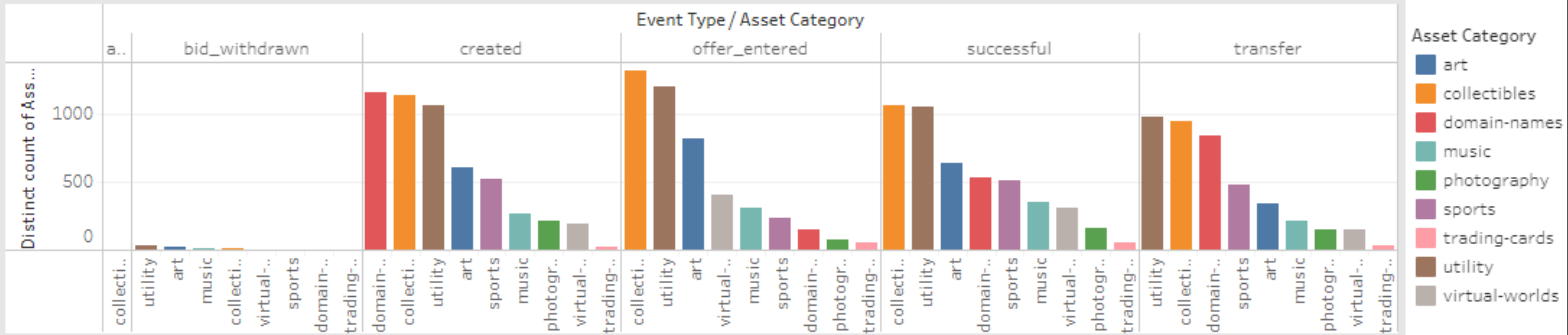
## NFT & SFT for Event Type

- [For NFT \(Non-Fungible Token\)](#)
- [For SFT \(Semi-Fungible Token\)](#)

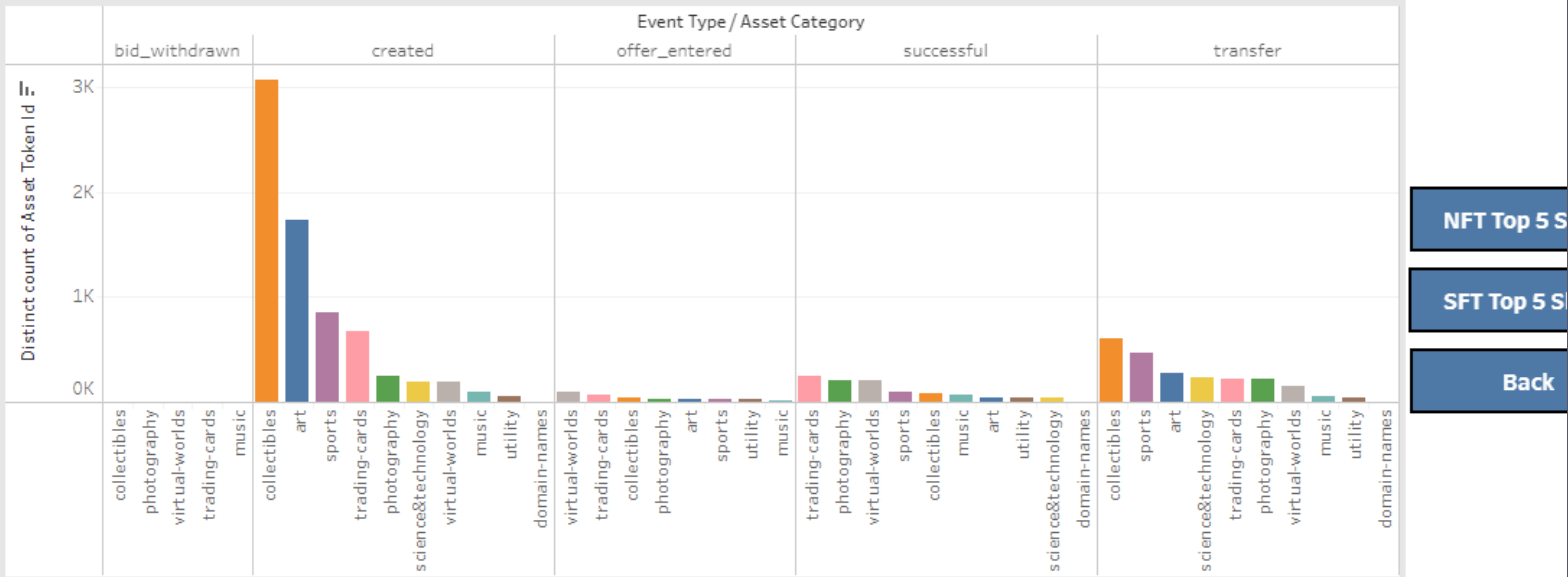
## NFT & SFT Top 5 Slugs for Event Type

- [NFT Top 5 Slugs](#)
- [SFT Top 5 Slugs](#)

No. of NFT under each category for respective Event Types



No. of SFT under each category for respective Event Types



# NFT - INSIGHTS

- Number of NFT & SFT for Event Type



Asset Category	Event Type	Slug	Median Ending Price	Median Stats Total Volume	Median Total Price	Median Stats Floor Price	Median Duration in days
art	created	desperate-ape-wives	5.000e+17	1.113e+04		3.450e-01	1.782e+00
		dippies	6.000e+17	5.531e+03		3.600e-01	1.001e+00
		harvmcmblocks	6.000e+17	1.974e+02		5.490e-01	3.001e+00
		spin-the-worlds-first-pain..	6.175e+17	3.570e+01		4.400e-01	6.895e+00
		wonderpals	7.800e+17	8.181e+03		6.900e-01	4.428e+00
offer_entered		cryptocoven		7.607e+03		9.800e-01	
		forgottenruneswizardscult		1.156e+04		1.840e+00	
		genesis-creepz		2.429e+04		1.960e+00	
		karafuru		3.599e+04		2.100e+00	
		pixels-farm		4.432e+03		9.700e-01	
successful		cryptocoven		7.607e+03	8.700e+17	9.800e-01	
		karafuru		3.599e+04	3.900e+18	2.100e+00	
		phantabear		3.277e+04	1.800e+18	6.975e-01	
		pixels-farm		4.432e+03	4.000e+17	9.700e-01	
		wonderpals		8.181e+03	9.000e+17	6.900e-01	
transfer		dippies		5.531e+03		3.600e-01	
		kpoptzen-official		4.898e+02		3.811e-01	
		lovelesscitymetropass		5.632e+02		3.970e-01	
		reptile-armoury		9.865e+03		1.900e-01	
		spin-the-worlds-first-pain..		3.570e+01		4.400e-01	

Asset Category

art

Event Type

(Multiple values)

Slug

- cryptocoven
- desperate-ape-wives
- dippies
- forgottenruneswizardsc...
- genesis-creepz
- harvmcmblocks
- karafuru
- kpoptzen-official
- lovelesscitymetropass
- phantabear
- pixels-farm
- reptile-armoury
- spin-the-worlds-first-pai...
- wonderpals

Back

# NFT - INSIGHTS

- NFT Top 5 Slug for Event Type

Asset Category	Event Type	Slug	Median Ending Price	Median Stats Total Volume	Median Total Price	Median Stats Floor Price	Median Duration in days
trading-cards	created	allstarfreaks	3.750e+17	4.591e+02		1.740e-01	3.000e+00
		arbo-artifacts	9.900e+16	1.230e+02		2.700e-03	7.001e+00
		billionaire-nft-club	4.300e+16	2.830e+01		3.830e-02	1.001e+00
		curiocardswrapper	5.245e+17	3.668e+04		3.880e-01	9.596e-01
		lux-cards	2.000e+18	5.053e+02		4.559e-02	1.810e+02
	offer_entered	arbo-artifacts		1.230e+02		2.700e-03	
		curiocardswrapper		3.668e+04		3.880e-01	
		parallelalpha		6.354e+04		1.500e-03	
	successful	arbo-artifacts		1.230e+02	1.600e+16	2.700e-03	
		curiocardswrapper		3.668e+04	4.680e+17	3.880e-01	
		lux-cards		5.053e+02	2.400e+17	4.559e-02	
		parallelalpha		6.354e+04	1.450e+16	1.500e-03	
		pokepxls		2.650e+01	1.000e+16	8.000e-03	
	transfer	arbo-artifacts		1.230e+02		2.700e-03	
		cryptohamsters-origins		1.724e+01		1.000e-02	
		parallelalpha		6.354e+04		1.500e-03	
		pokepxls		2.650e+01		8.000e-03	

Event Type

(Multiple values) ▼

Index

1 5

Asset Category

trading-cards ▼

Slug

- allstarfreaks
- arbo-artifacts
- billionaire-nft-club
- cryptohamsters-origins
- curiocardswrapper
- lux-cards
- parallelalpha
- pokepxls

Back

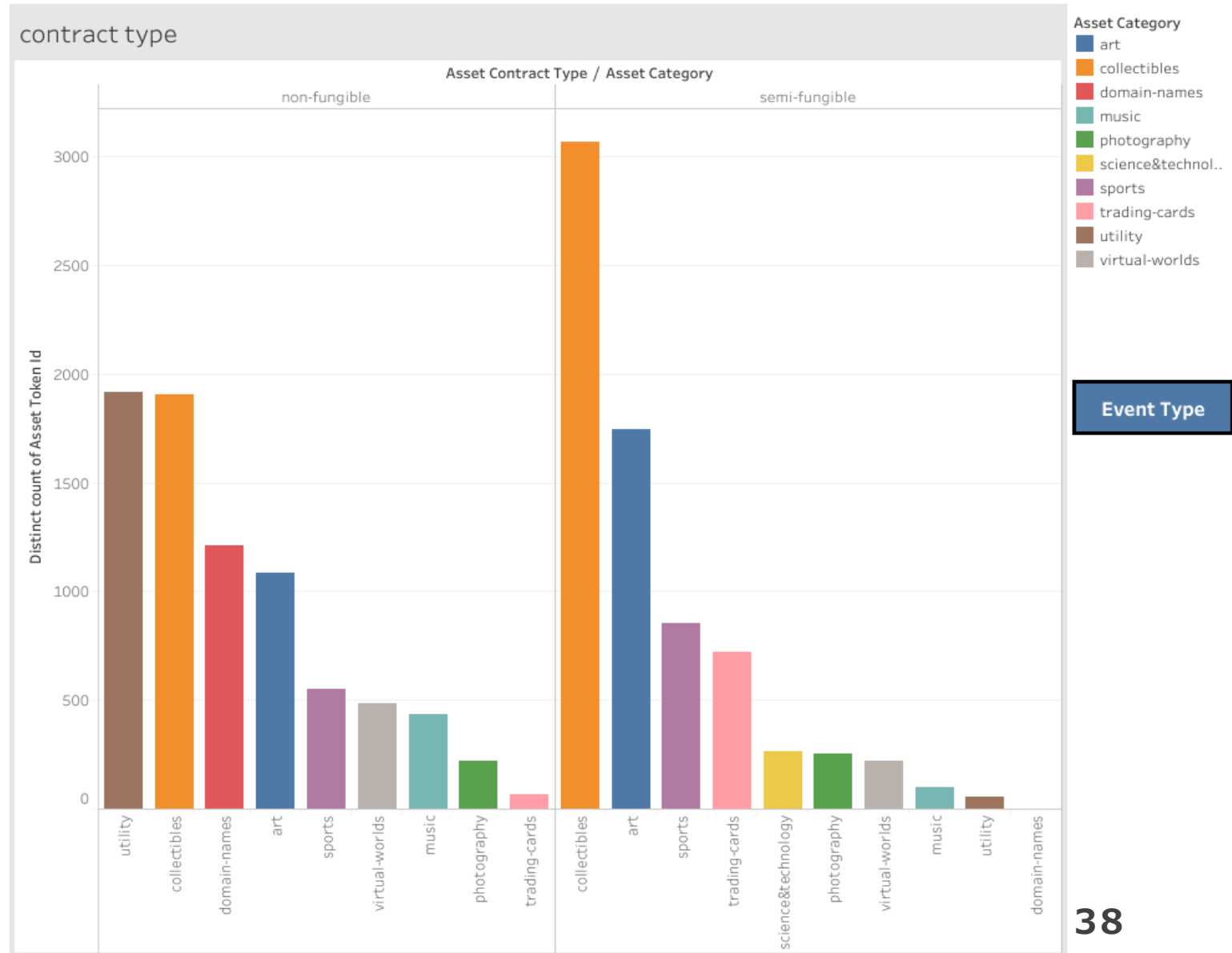
# NFT - INSIGHTS

- SFT Top 5 Slug for Event Type

# NFT - INSIGHTS

RMDS

Contract Type	1Day/7Days/30Days
---------------	-------------------



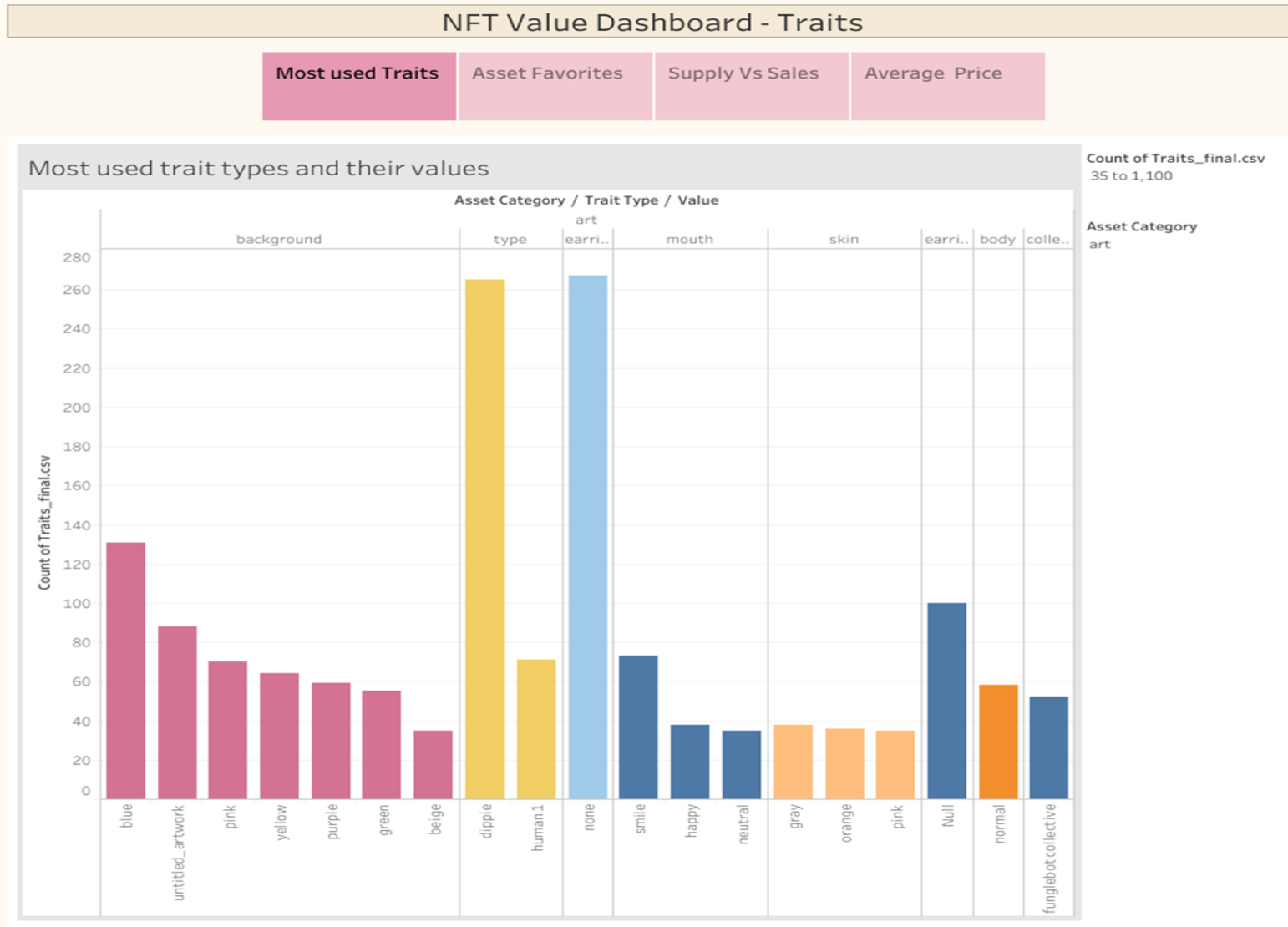
# NFT Value Dashboard - Traits

## Traits value Information

- [Most used Traits and Values](#)
- [Traits based on Asset Favorites](#)
- [Total Supply vs Sales](#)
- [Traits based on Average Price](#)

# NFT Insights

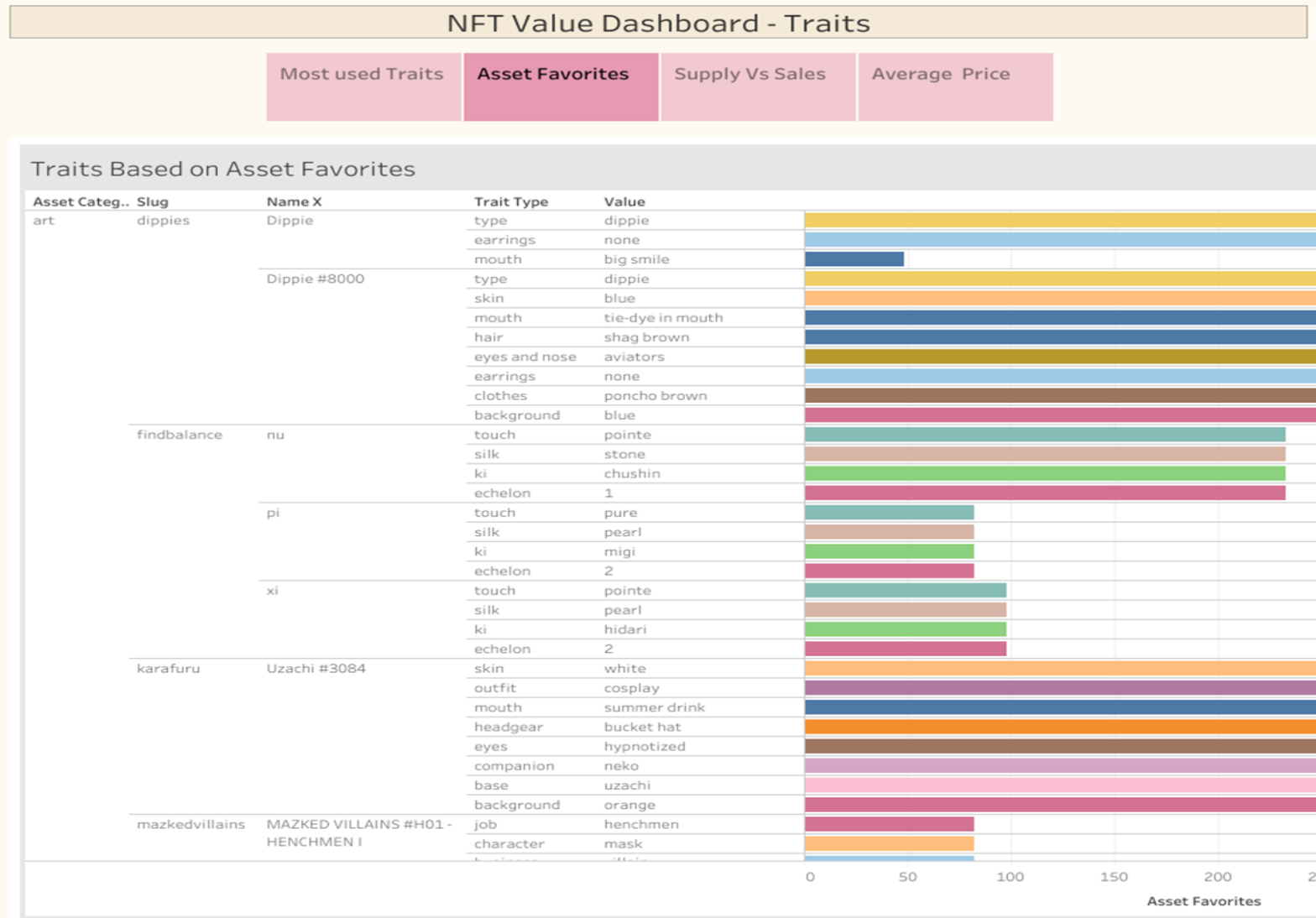
- Most used Traits and Values





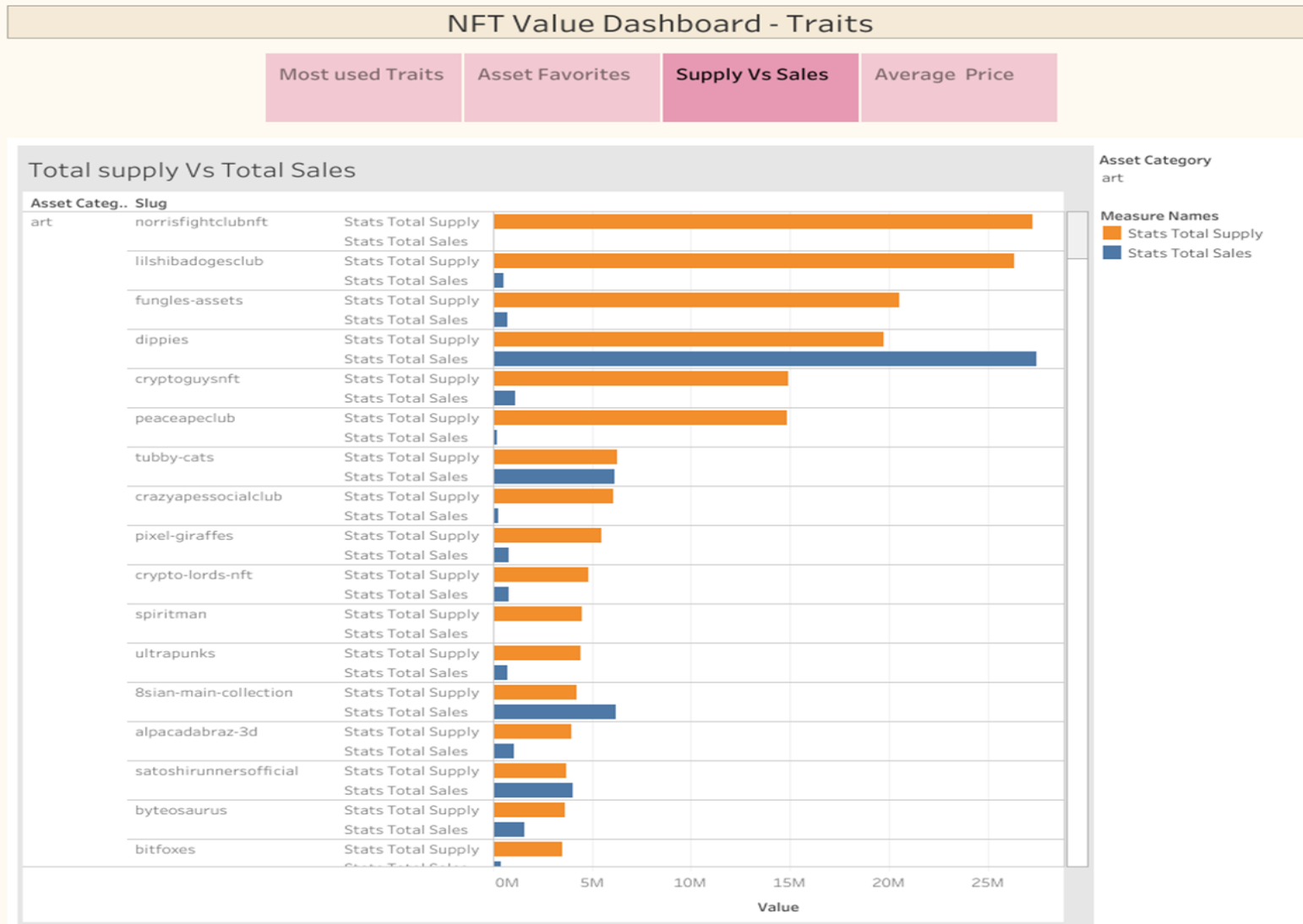
# NFT Insights

- Traits based on Asset Favorites



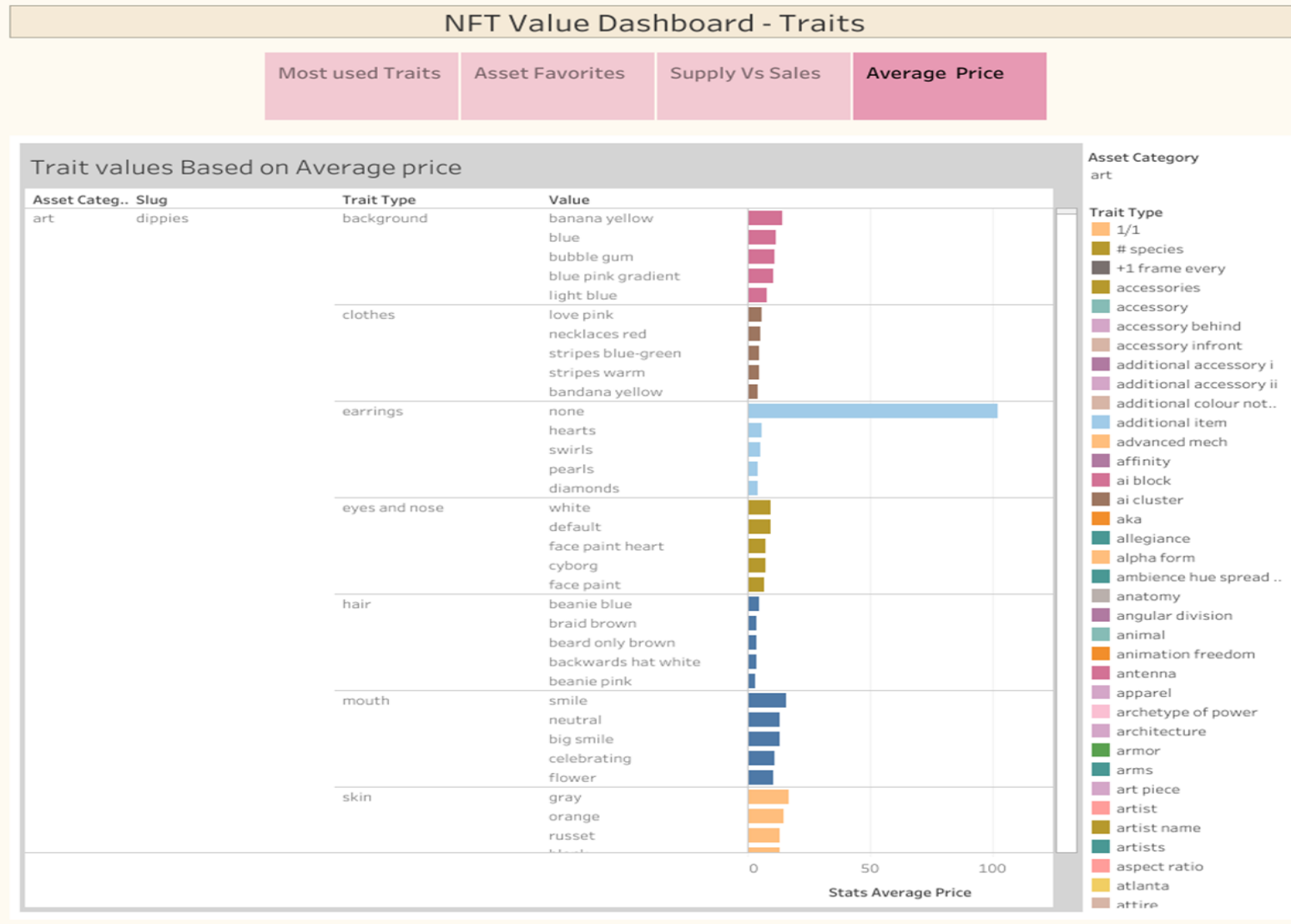
# NFT Insights

- Total Supply vs Sales



# NFT Insights

- Traits based on Average Price



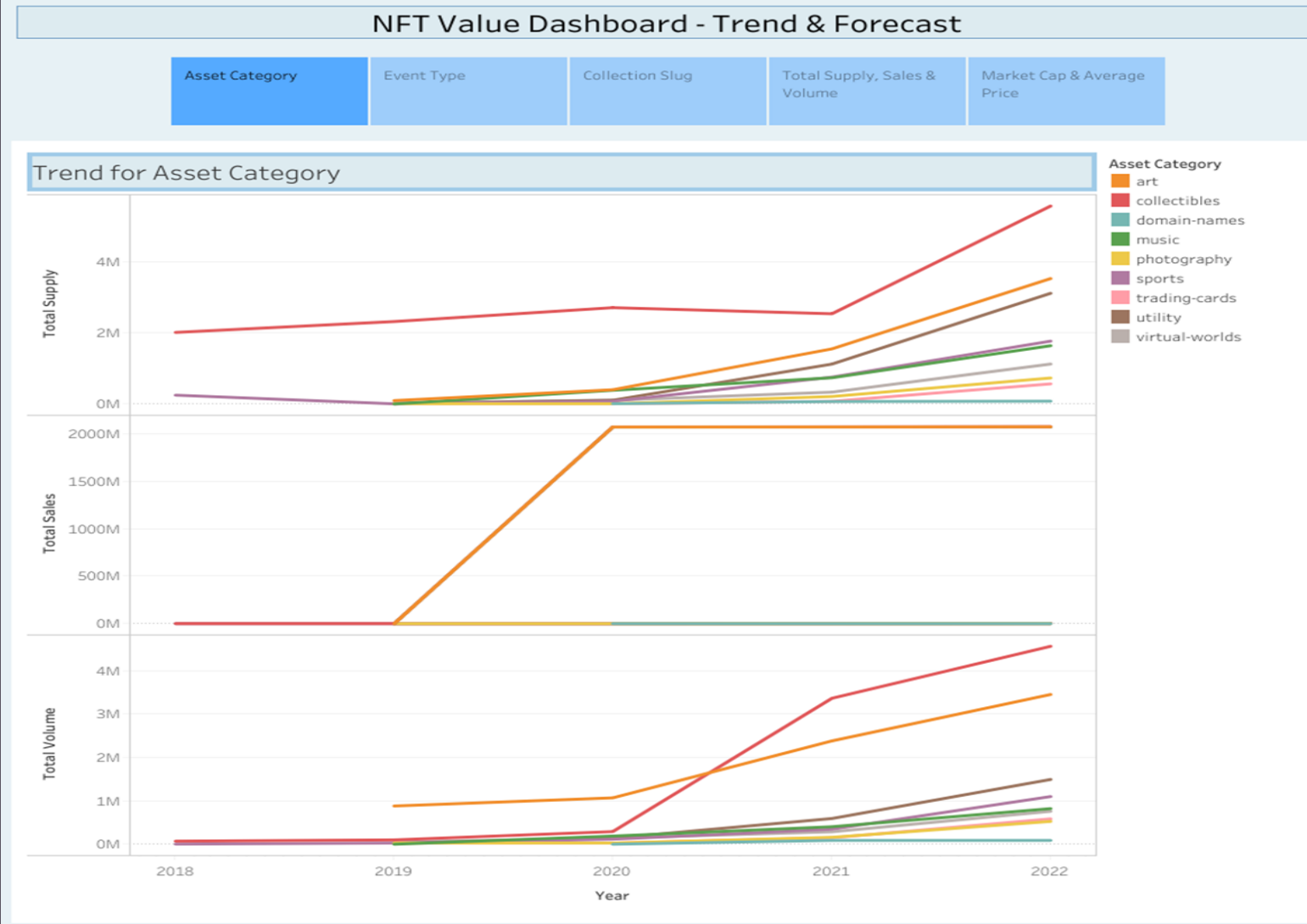
# NFT Value Dashboard – Trend & Forecast

## Trend & Forecast

- [Trend for Asset Category](#)
- [Trend for Event Type](#)
- [Trend for Collection Slug](#)
- [Total Supply, Sales & Volume Forecast](#)
- [Market Cap & Average Price Forecast](#)

# NFT Insights

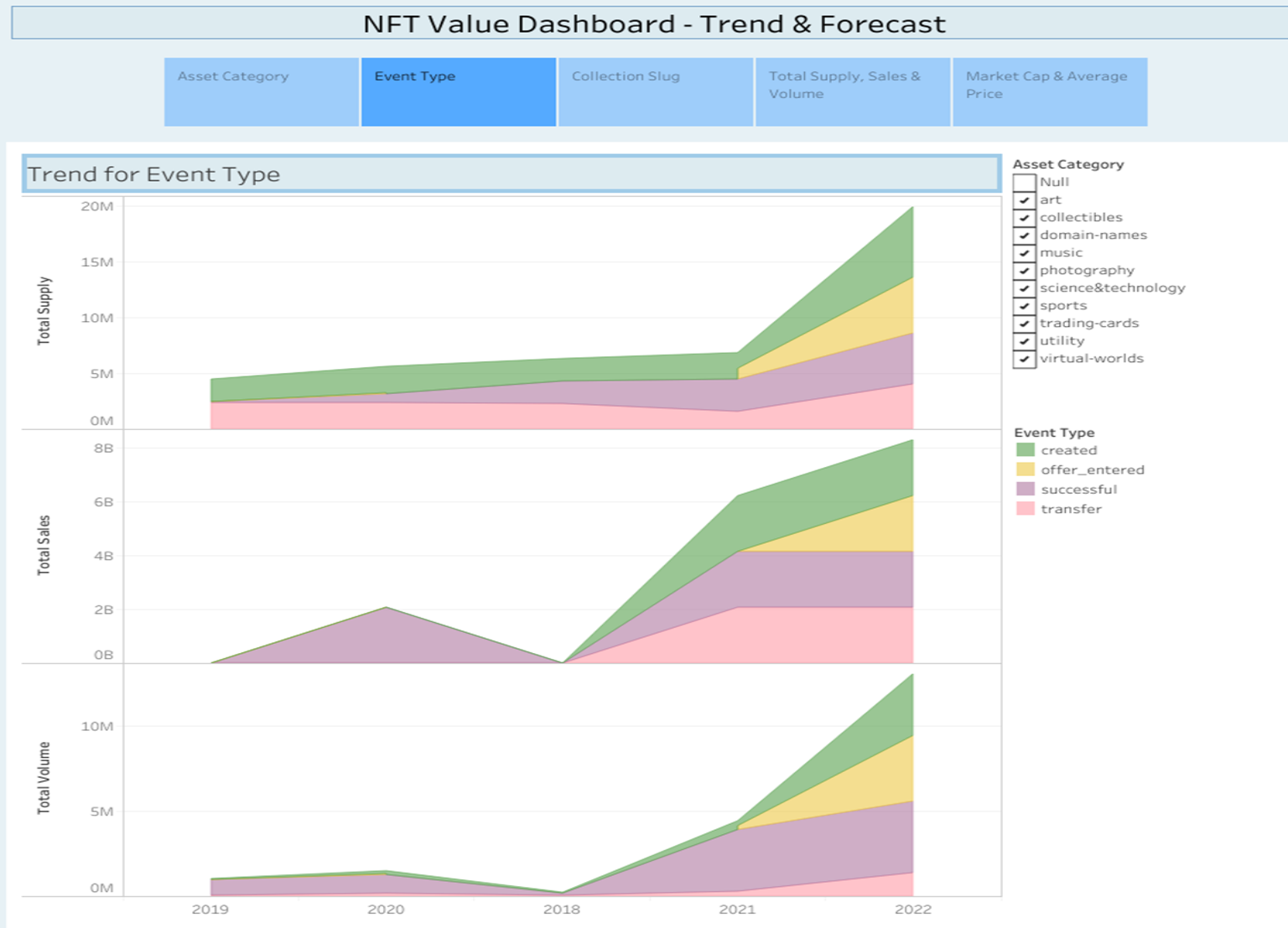
- Trend for Asset Category





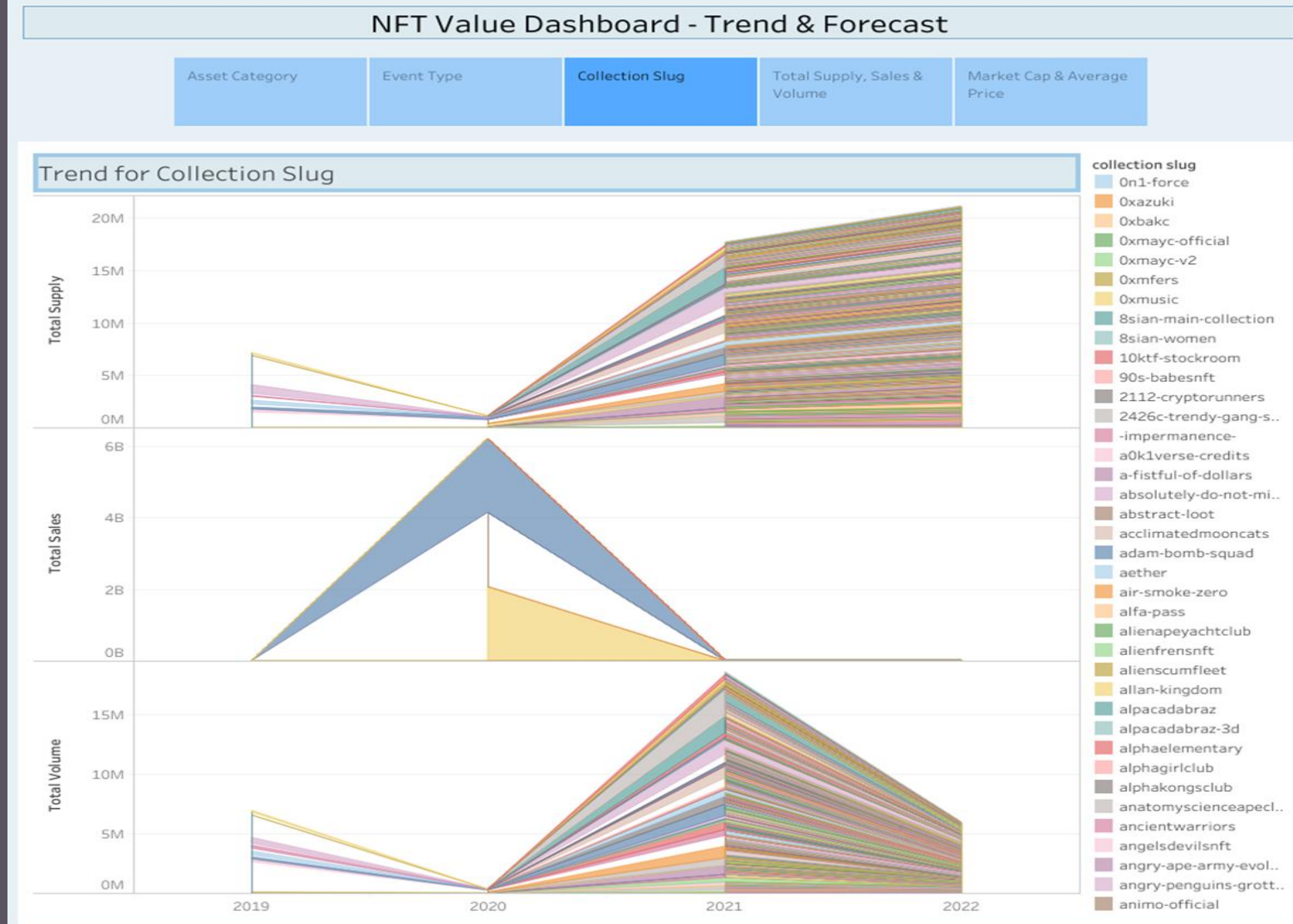
# NFT Insights

- Trend for Event Type



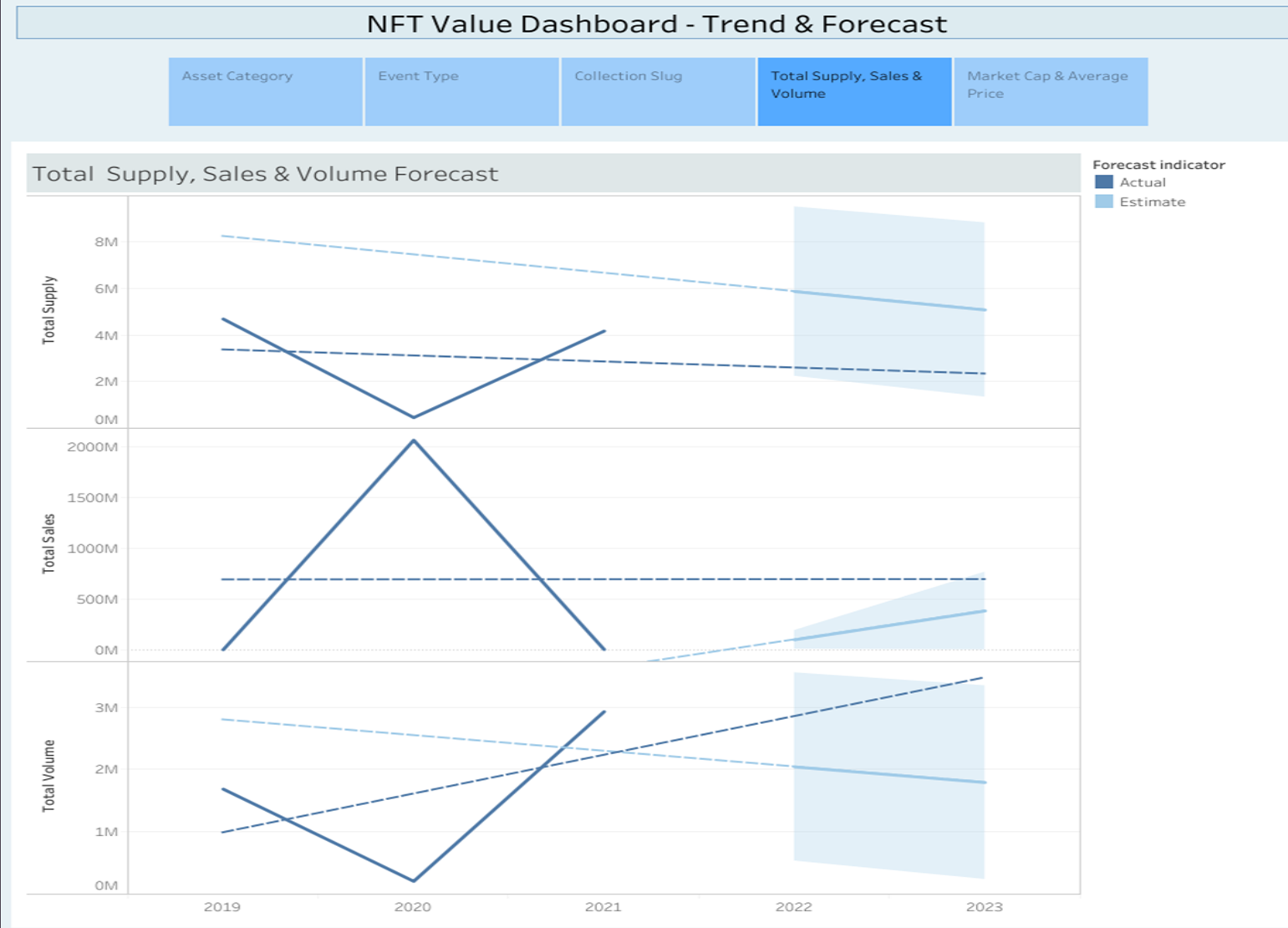
# NFT Insights

- Trend for Collection Slug



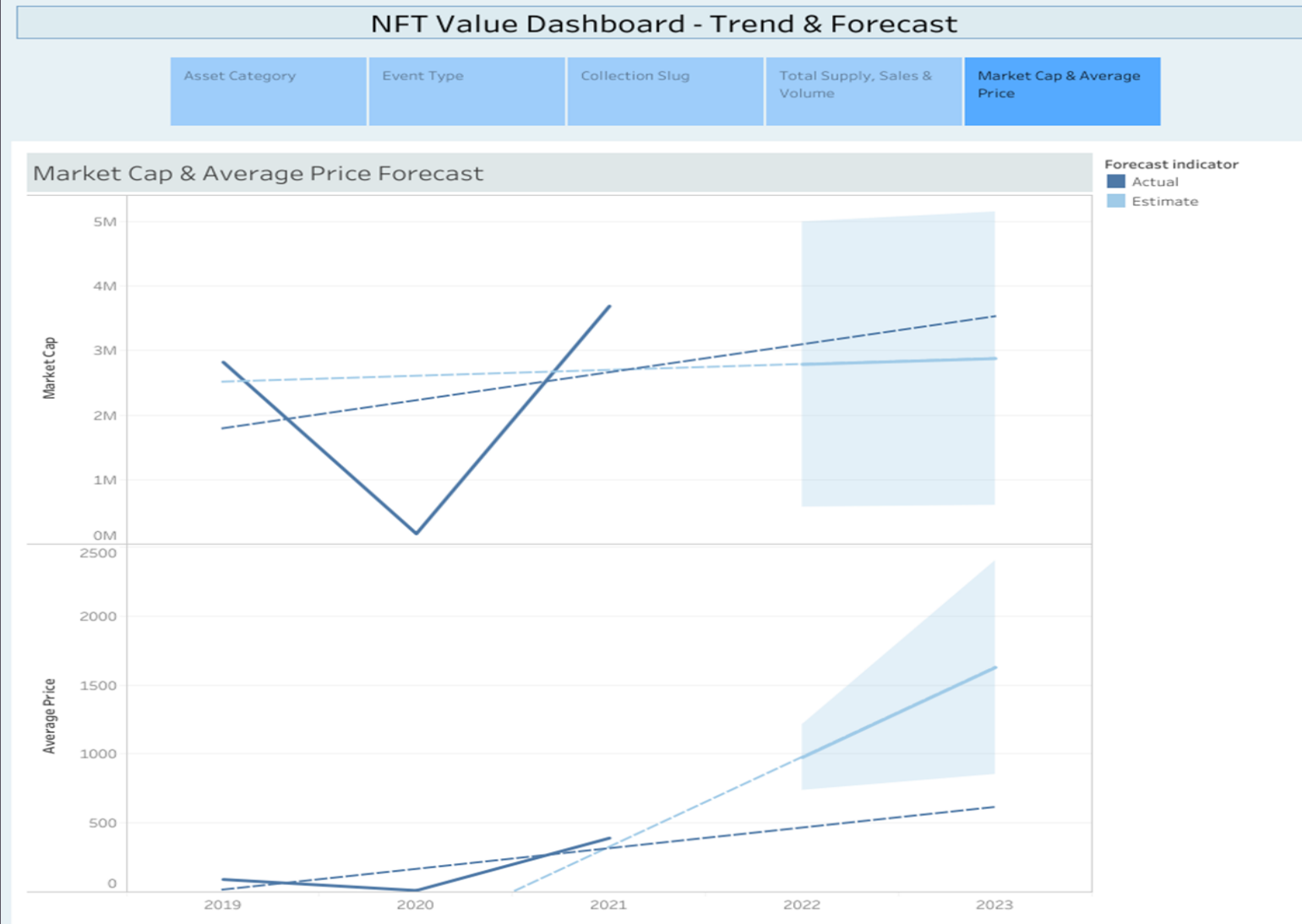
# NFT Insights

- Total Supply, Sales & Volume Forecast



# NFT Insights

- Market Cap & Average Price Forecast





# Jupyter Notebook

EDA and Model Building

# Jupyter Notebook – Team SMART Street

Notebook	Description
<a href="#"><u>GRMDS NFT SMART Street1</u></a>	EDA
<a href="#"><u>GRMDS NFT SMART Street2</u></a>	Model Building





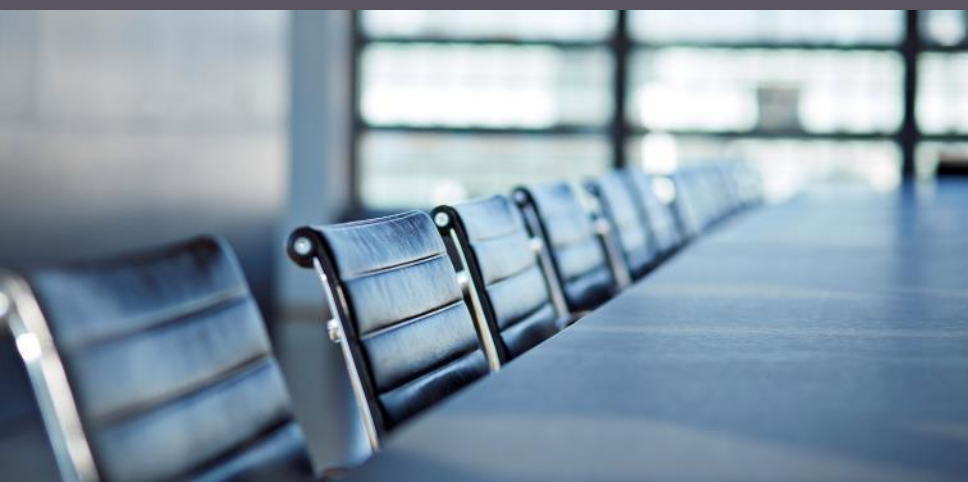
# Summary

NFT was **word of the year** for 2021 by Collins Dictionary along with Metaverse and Crypto in top 10 words of the year.

NFT's has opened the door for art buying and selling for everyone interested and especially giving new lease of life to artists.

Even though Science & Technology Asset Category is yet to catchup but overall Top 5 Asset Category which are **Collectibles, Art, Sports, Utility** and **domain-names** are going to continue to dominate NFT marketplace in year 2022 and beyond.

Team – SMART Street



# Summary

Top 5 NFT sales in Q1 of 2022 as per DappRadar report includes SUPERRARE, VOX COLLECTIBLES, CRYPTOPUNKS, BORED APE YACHT CLUB & DECENTRALAND.

NFT's generated \$12 billion in trades in Q1 2022 as per DappRadar report and NFT activity in blockchains outside Ethereum is ramping up.

Security is critical aspect as \$1.2 billion was stolen in hacks and bridge exploits in Q1 of 2022 as per DappRadar report.

Team – SMART Street

# Top 5 Hacks of Q1 2022 - DappRadar

Project	Date	Lost Funds	Scam Type	Protocol
Ronin	3/29/2022	\$615,500,000	Exploit	Ronin
Wormhole	2/2/2022	\$326,000,000	Exploit	Solana
Qubit Finance	1/27/2022	\$80,000,000	Exploit	Binance
Cashio	3/23/2022	\$48,000,000	Exploit	Solana
Lympo	1/10/2022	\$18,500,000	Access Control	Ethereum



# Summary

NFT has huge potential to create new revenue streams and engagement model in Digital commerce space.

Majority of NFT's are built on **Ethereum** which is one of the largest blockchain with robust ecosystem of users and developers.

Ethereum uses **Proof of Work** mechanism and moving towards **Proof of Stake** like Flow, Polygon or Solana will help reduce environmental impact of mining process.

Team - SMART Street



# THANK YOU



Reduce  
Reuse  
Recycle

Team – SMART Street

