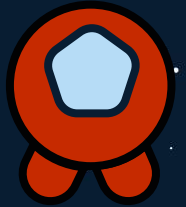


# TEA WITH [LOSTPOETS]



An analysis of the NFT collectible by **pak**  
(as exchanged on OpenSea)



01



# AN NFT GAME

Why analyze & play with them?

PROJECT

NFT project  
Based on Library of Babel  
Drop on Nifty Gateway

Roadmap  
Initial drop: Sept3  
Now: Act III

Data  
~3.5 months

## THE COLLECTION

Lost Poets is an NFT collectible and a strategy game. The NFT collection includes 65536 obtainable NFTs and 1024 Origin NFTs. The project's release is broken down into several stages. For further information, see [the secret roadmap](#).

## THE BAZAAR

The sale phase is 48 hours. Every page you acquire gives you the opportunity to claim a Poet NFT. In a way, each page is your ticket to a Poet.

Additionally, when the sale ends all remaining Pages will be distributed to Page holders proportionally. In a way, each page represents your part of the remaining token pool.

During the sale period, you will be able to collect pages for a set price of 0.32 \$ETH each. When you get multiple pages at once, you'll also get a percentage of extra pages. The sooner you collect, the more extra pages you'll get.

The pages you acquire will be locked to your wallet until the 48-hour sale window closes.

\$ASH holders will have one hour of early access to the sale. See [the scavaten](#) for more.

## THE POETS

Aeons ago in [The Library of Babel](#), the dusty shelves of a room contained 65536 poets that were all waiting to be discovered ab aeterno. In this fractal labyrinth, these forgotten poets from 1024 different origins roam between their hidden 256 selves.









"Hello" says one, "What's your name?"  
"I don't have one yet."

# PROJECT

Also a game  
1024 Origin NFTs (poets)  
Only 402 of them revealed  
Secret Roadmap (stages)  
Total 65536 NFTs (poets)  
Latent Genes  
Pages turn to Poets in time

## The Secret Roadmap

-  **PROLOGUE**  
*Project Introduction.*  
*48 hour pre-sale countdown starts.*
-  **ACT I: THE SALE**  
*48 hour sale starts.*  
*\$ASH holders are rewarded.*
-  **ACT II: THE REVEAL**  
*Poets NFTs are claimed using Page tokens.*  
*Leaderboard Oriqin NFTs are distributed.*
-  **ACT III: THE EXPLORER**  
*Collectors understand mechanisms.*  
*Some poets are named.*
-  **ACT IV: THE TWIST**  
*Remember, this is a Pak project.*  
*Anything can happen.*
-  **EPILOGUE**  
*Final form is reached (365 Days).*  
*\$ASH is enabled for all Poets.*

# QUESTION

## Analyze

Why is this game/ artwork interesting?

In what ways are people interested?

## Play

Can I play too (in my own way)?



02

# DATA & PIPELINE

Work with the Poets



DATA

# [ L O S T P O E T S ]

[ ]

LOSTPOETS

Created by pak

27.6K

items

8.4K

owners

0.338

floor price

26.8K

volume traded

AB AETERNO

Items

Activity

OpenSea Traded on  
As of Dec 10  
27.6K items (NFTs/Poets)  
26.8K trades

Filter

Status

Buy Now

On Auction

New

Has Offers

Price

United States Dollar (USD)

Min

to

Max

Apply

Chains

Search

27,561 results



LOSTPOETS  
Page

Price  
0.338  
Last 35

4.0K



LOSTPOETS  
Vina

Top Bid  
40  
5 days left

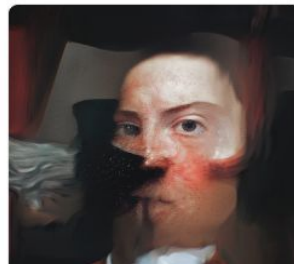
41



LOSTPOETS  
Nirvana

Top Bid  
63  
2 days left

88



LOSTPOETS  
Pakula

Top Bid  
70  
1.75

24



LOSTPOETS  
Poet #12058

Top Bid  
0.65  
14 hours left


5

DATA/API

eg.  
Origin Poet 1  
Named: I

API OpenSea Assets API  
Key Obtained for project  
Limit 10K data points  
Features 28 including  
token\_id, num\_sales etc.  
In Dict 5 inc. asset,  
payment\_token  
Cleaned & used  
11 inc. image\_url  
Image URL  
used to scrape 10K images

255



LOSTPOETS

Owned by pak 4.6K views 255 favorites

Highest offer  
+ 3.481 (\$14,078.56)  
Make offer

Price History  
All Time  
No item activity yet

Listings

Offers

Price	USD Price	Floor Difference	Expiration	From
+ 3.481 WETH	\$14,078.56	987.8% above	in 5 hours	F74FE1
+ 3.48 WETH	\$14,074.51	987.5% above	in 4 days	wagmil
+ 0.1 WETH	\$404.44	68.8% below	in 3 months	I3en
+ 0.002 WETH	\$8.09	99.4% below	—	351364
+ 0.002 WETH	\$8.09	99.4% below	—	351364

Item Activity



# LOSTPOETS

Created by pak

27.6K  
items

8.4K  
owners

0.338  
floor price

26.8K  
volume traded

AB AETERNO

Items

Activity

Sales Clear All

90 Day Avg. Price 1.0694  
90 Day Volume 22,384,2374

DATA/API  
eg. 12/16/2021  
API OpenSea Events API  
Key same key  
Limit 10K in one use  
Features 26 including  
event, token\_id, date etc.  
In Dict  
5 inc. asset, payment\_token  
Cleaned & used  
15 inc. winner, seller,  
num\_sales

		Price	Quantity	From	To	Time
Sale	Poet #20534	0.985 \$3,997.90	1	Fortuno024	7D6D4D	16 minutes ago
Sale	Poet #23902	0.97 \$3,937.02	1	1947A0	7D6D4D	20 minutes ago
Sale	Poet #26805	0.96 \$3,896.43	1	StreakVault	7D6D4D	21 minutes ago
Sale	Poet #12869	0.95 \$3,855.84	1	undercutBy...	7D6D4D	23 minutes ago
Sale	Poet #11218	0.95 \$3,855.84	1	g00dtimes	7D6D4D	24 minutes ago
Sale	Poet #12486	0.94 \$3,815.25	1	p8p101	7D6D4D	24 minutes ago

# GAME

OpenSea Assets API

Image Scrape



DATA  
ACQUISITION



DATA  
STORAGE



DATA  
CLEANING/  
PROCESSING



EDA +  
VISUALIZATION

MODELLING



WEB  
APPLICATION  
+  
DEPLOYMENT

OpenSea Events API



WEBSRAPE

# ANALYSIS

03

# APPS & ANALYSIS



# LOSTPOETS IN (THE) OPENSEA(S)

Streamlit

Sales & Assets Analysis





# EDA

## SALES - Transactions

Highest Prices Paid

## SALES - Volume of Trade

Most frequently traded  
Highest avg. trading \$\$

## Sellers & Buyers

Highest total \$\$ gained  
Highest total \$\$ spent



## Seller to Buyer

Highest volume & amount  
of interaction

## SALES - Total

Weekly & Daily

## ASSETS - Owners

Highest num of Poets  
held

# 5 PM TEA

Streamlit

Game

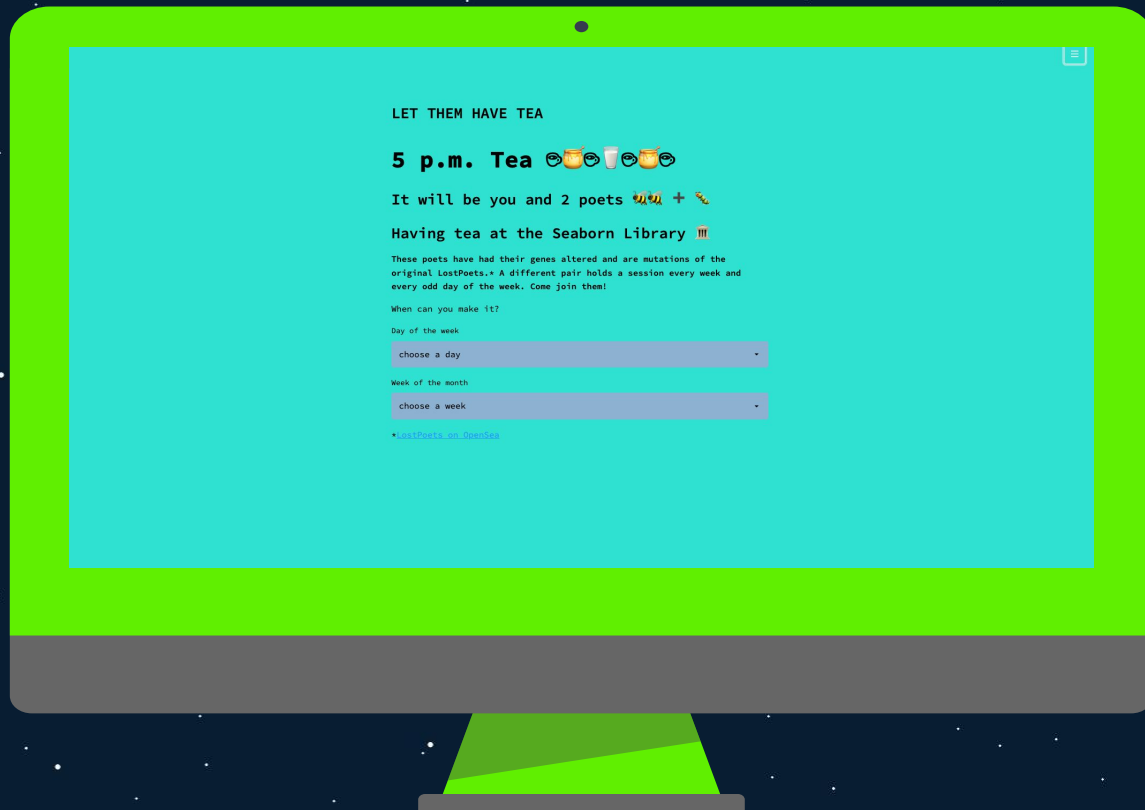
Choose

3 days MWF

Week of Month

Meet

2 poets generated for you







# MODEL - NN / GAN



**Generator**



**Discriminator**

Uses Origin Poets.  
· (402 NFTs)  
· 20,000 epochs  
· 25 characters

04

# CONCLUSIONS



# CONCLUSION / ANALYSIS

1 highly circulated collection



5 seller - buyer  
connection > \$100K



3 buyers spent  
> \$600K



Only 7 users  
received > \$200K



Token 78 > \$150K,  
3 tokens > \$100K



Mongo on fly



Streamlit on fire

# FURTHER WORK

A

## EDA/ Visualization

Real time data:  
Automate

Use Mongo Atlas

A

## EDA/ Visualization

Scale to other  
collectibles

G

## Game: GAN

More epochs!!

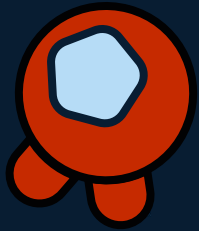
More characters!

G

## Game: GAN

Gamification

eg. NLP - What do  
these Poets talk  
about?



# QUESTIONS?

Presentation Template by **SlidesGo**,  
including icons by **Flaticon**,  
infographic & images by **Freepik**

# & APPENDIX

3406a41399c7fd2ba65cbc93697ad9e7ea61e5/6244

# API

OpenSea

Guides

SDK

API Reference

Partners

Marketplace

Changelog

v1.0

API Reference

JUMP TO

API

OPENSEA API

Non-Fungible Token (NFT) API

Overview

Asset Model

Event Model

Account Model

Collection Model

Retrieving assets

Retrieving events

Retrieving collections

Retrieving bundles

Retrieving a single asset

Retrieving a single contract

Retrieving a single collection

Retrieving collection stats

OPENSEA LISTINGS

Getting Started with Listings

Terminology

Retrieving orders

Retrieving orders - Testnets

OPENSEA TESTNETS

API

Testnets API Overview

Retrieving assets - Testnets

Retrieving events - Testnets

Retrieving collections - Testnets

Retrieving bundles - Testnet

Retrieving a single asset - Testnets

Retrieving events

0 Calls

7 Days

Your API calls will appear here. Make a request to get started!

The /events endpoint provides a list of events that occur on the assets that OpenSea tracks. The 'event\_type' field indicates what type of event it is (transfer, successful auction, etc).

**Please Note: this API endpoint requires an API key in order to use. Please fill out the API request form to obtain one** Don't have an API Key? Hop on over to [our testnets, events endpoint page](#), where we've supplied a default API key for developers to use in this documentation reference

The endpoint will return the following fields:

asset\_events

List of [Event Object](#)

QUERY PARAMS

asset\_contract\_address string

The NFT contract address for the assets for which to show events

collection\_slug string

Limit responses to events from a collection. Case sensitive and must match the collection slug exactly. Will return all assets from all contracts in a collection. For more information on collections, see our [collections documentation](#).

token\_id int32

The token's id to optionally filter by

account\_address string

A user account's wallet address to filter for events on an account

event\_type string

The event type to filter. Can be created for new auctions, successful for sales, cancelled, bid\_entered, bid\_withdrawn, transfer, or approve

only\_opensea boolean

Restrict to events on OpenSea auctions. Can be true or false

LANGUAGE

Shell

Node

Ruby

PHP

Python

AUTHENTICATION

Header

X-API-KEY

CURL

REQUEST

```
1 curl --request GET \  
2 --url 'https://api.opensea.io/api/v1/events/only_o\  
3 --header 'Accept: application/json'
```

Try It!

RESPONSE

Examples

Click **Try It!** to start a request and see the response here!  
Or choose an example:

200 - Result

400 - Result

Log In

Search

Help

# TRADES DATA

```
In [5]: sales_df.head(3)
```

```
Out[5]:
```

	_id	created_date	id	is_private	quantity	total_price	payment_token_symbol	payment_token_usd_price	ass
0	61b41aebd6ab32dbd9a84ea0	2021-12-11T03:27:23.942099	2427455930	False	1	3650000000000000000	ETH	3983.77	
1	61b41aebd6ab32dbd9a84ea1	2021-12-11T03:20:03.826890	2427391259	unknown	1	5000000000000000000	WETH	3972.70	
2	61b41aebd6ab32dbd9a84ea2	2021-12-11T02:47:15.343322	2427093401	False	1	10000000000000000000	ETH	3983.77	

```
In [6]: sales_df.iloc[0]
```

```
Out[6]:
```

```
_id                61b41aebd6ab32dbd9a84ea0
created_date       2021-12-11T03:27:23.942099
id                 2427455930
is_private         False
quantity           1
total_price        3650000000000000000
payment_token_symbol ETH
payment_token_usd_price 3983.77
asset_token_id     1
asset_num_sales    14807
asset_id           44596334
asset_image_url    https://lh3.googleusercontent.com/9GgkzN-7si-y...
transaction_from_account_username nikolas17
seller_username    0xBub
winner_account_username nikolas17
Name: 0, dtype: object
```



# POETS DATA

```
In [2]: poets_df = pd.read_csv('poets_clean.csv')
poets_df.head(3)
```

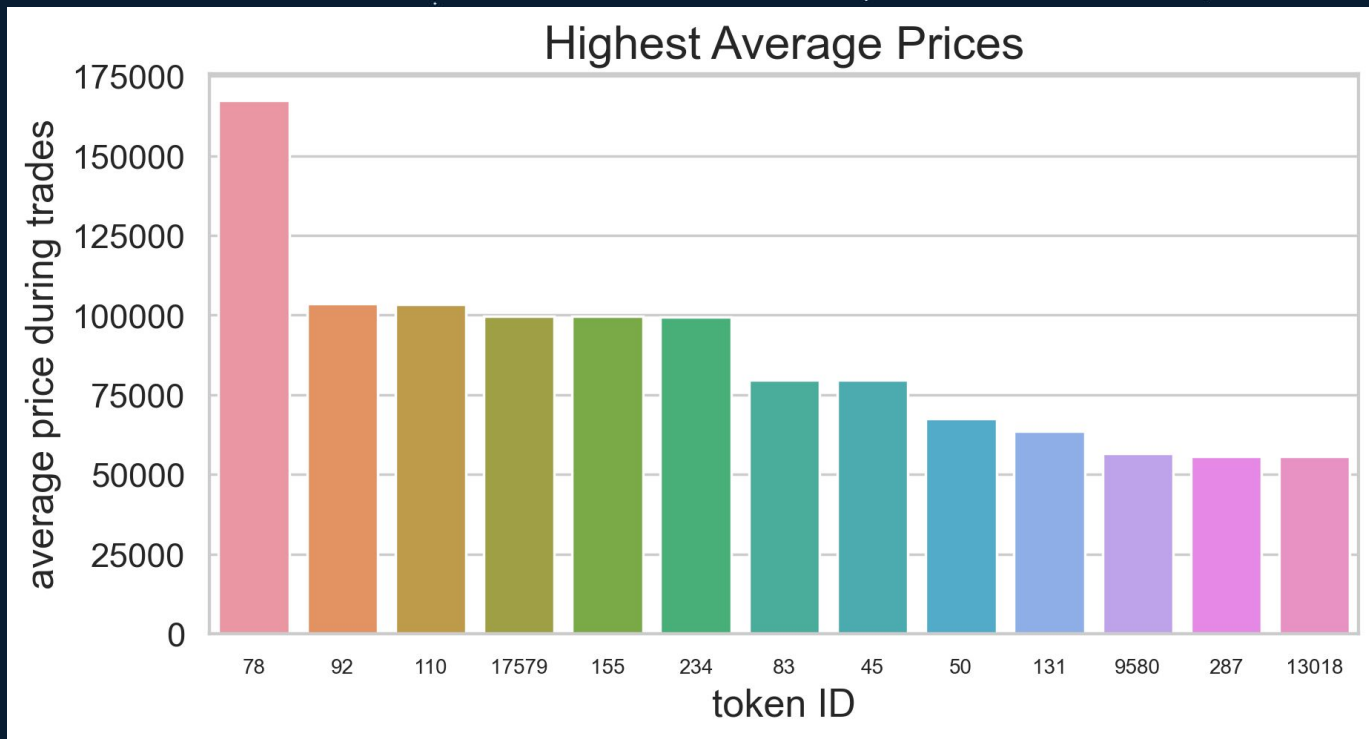
Out[2]:

	token_id	num_sales		image_url	image_original_url	name	description	
0	1	0	<a href="https://lh3.googleusercontent.com/ulT6Iu_77981...">https://lh3.googleusercontent.com/ulT6Iu_77981...</a>	<a href="https://d1xiei964ioe0z.cloudfront.net/full/a16...">https://d1xiei964ioe0z.cloudfront.net/full/a16...</a>		I	No Description Yet	<a href="https://opensea.io/assets/">https://opensea.io/assets/</a>
1	2	0	<a href="https://lh3.googleusercontent.com/gtvCMMER8xEL...">https://lh3.googleusercontent.com/gtvCMMER8xEL...</a>	<a href="https://d1xiei964ioe0z.cloudfront.net/full/622...">https://d1xiei964ioe0z.cloudfront.net/full/622...</a>		Origin #7THK	No Description Yet	<a href="https://opensea.io/assets/">https://opensea.io/assets/</a>
2	3	0	<a href="https://lh3.googleusercontent.com/xgxBi9sL8ZOT...">https://lh3.googleusercontent.com/xgxBi9sL8ZOT...</a>	<a href="https://d1xiei964ioe0z.cloudfront.net/full/304...">https://d1xiei964ioe0z.cloudfront.net/full/304...</a>		Origin #6AF2	No Description Yet	<a href="https://opensea.io/assets/">https://opensea.io/assets/</a>

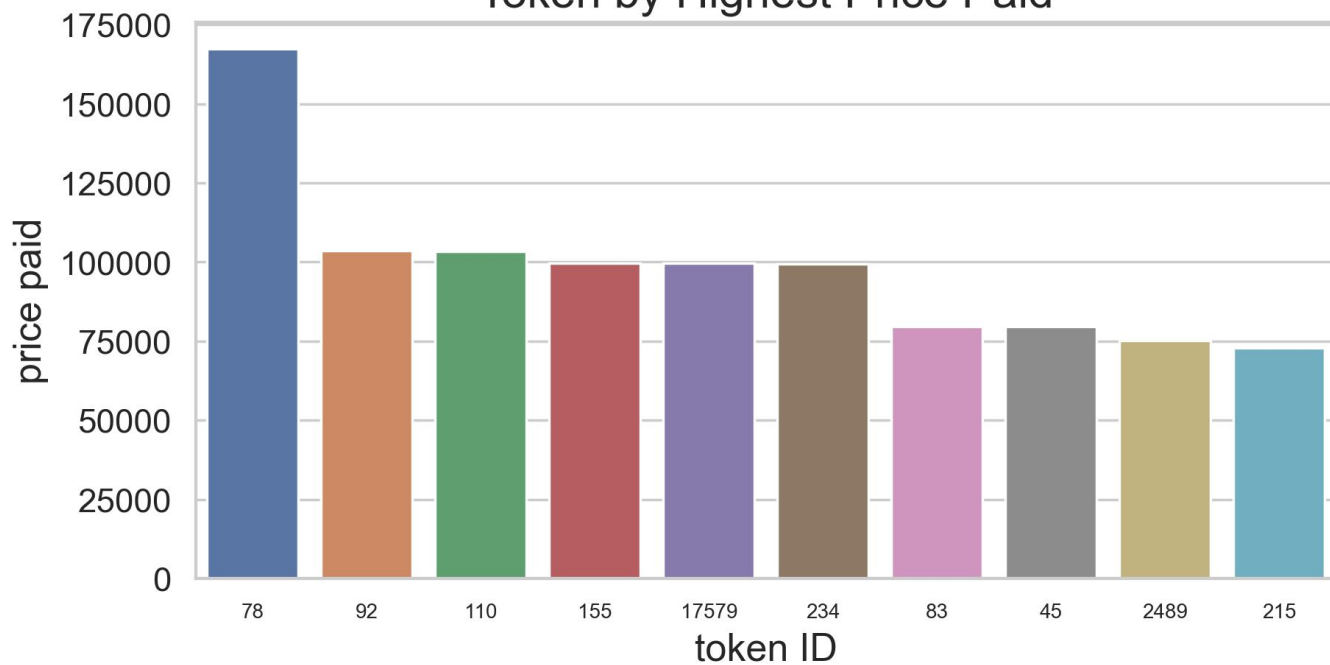
```
In [19]: poets_df.iloc[0]
```

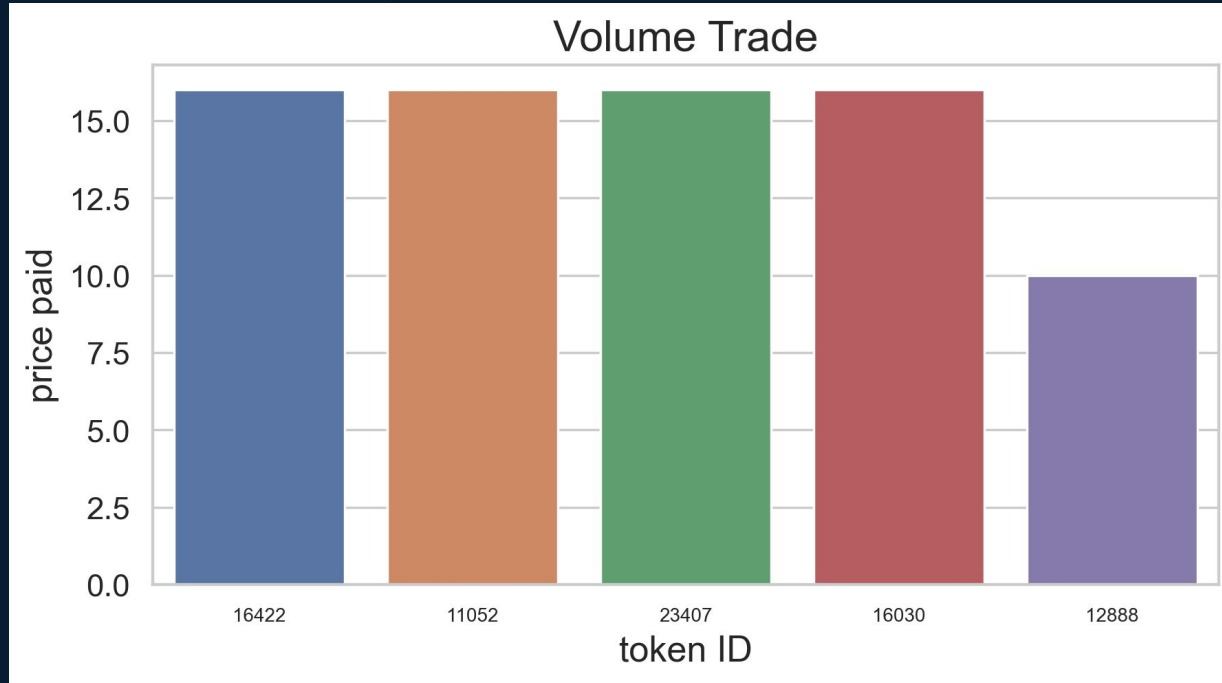
```
Out[19]: token_id                1
num_sales                0
image_url    https://lh3.googleusercontent.com/ulT6Iu_77981...
image_original_url  https://d1xiei964ioe0z.cloudfront.net/full/a16...
name                I
description                No Description Yet
permalink    https://opensea.io/assets/0x4b3406a41399c7fd2b...
creator                NaN
traits    [{'trait_type': 'Named', 'value': 'True', 'dis...
owner_username                pak
owner_address    0x2ce780d7c743a57791b835a9d6f998b15bbba5a4
Name: 0, dtype: object
```

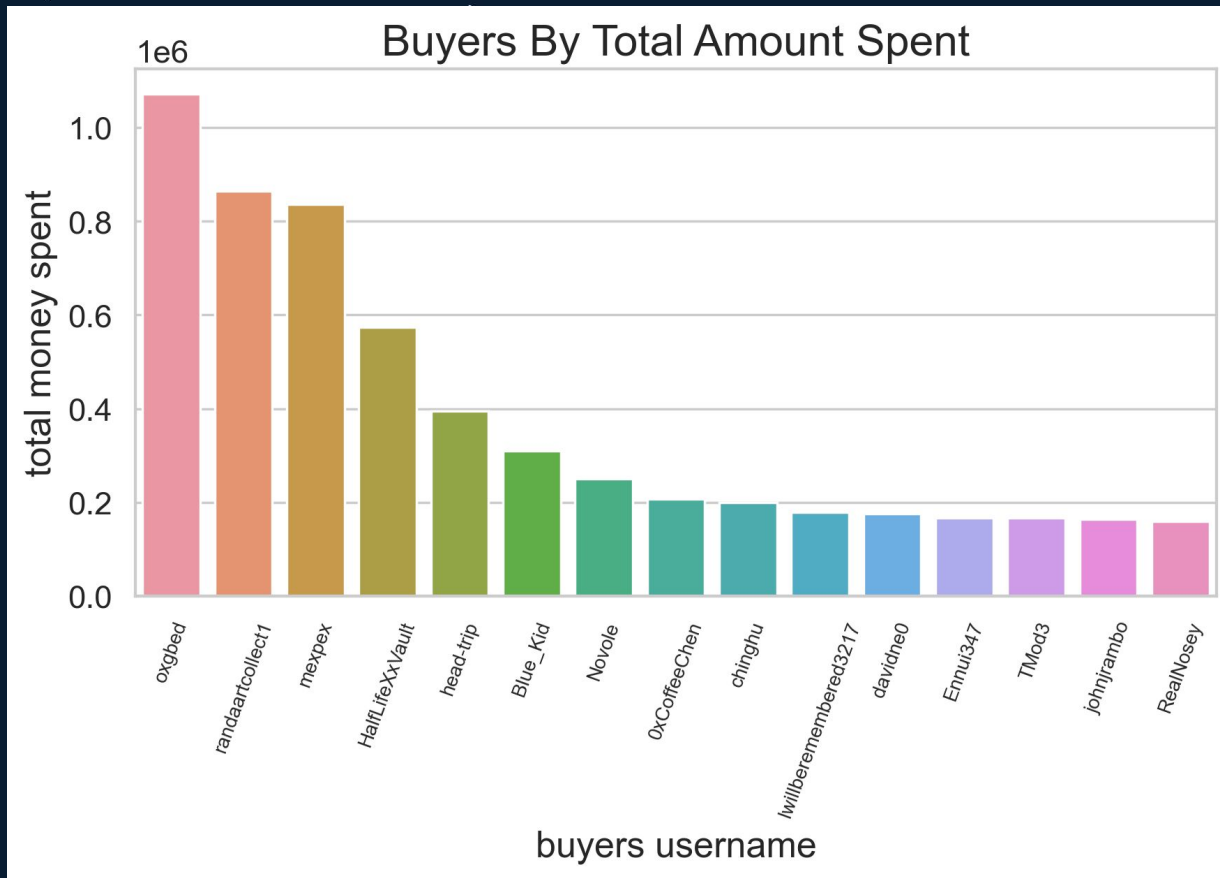
# PLOTS

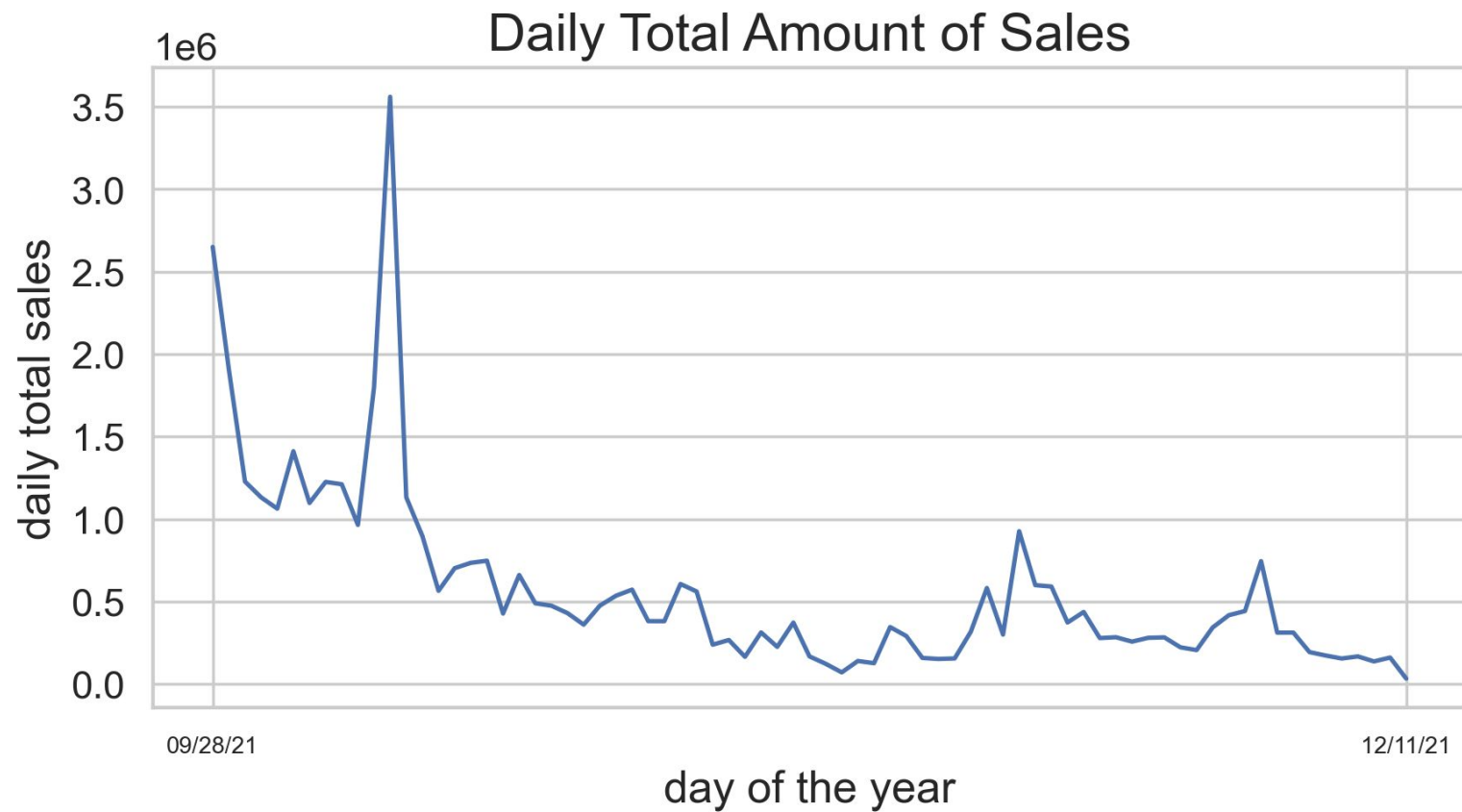


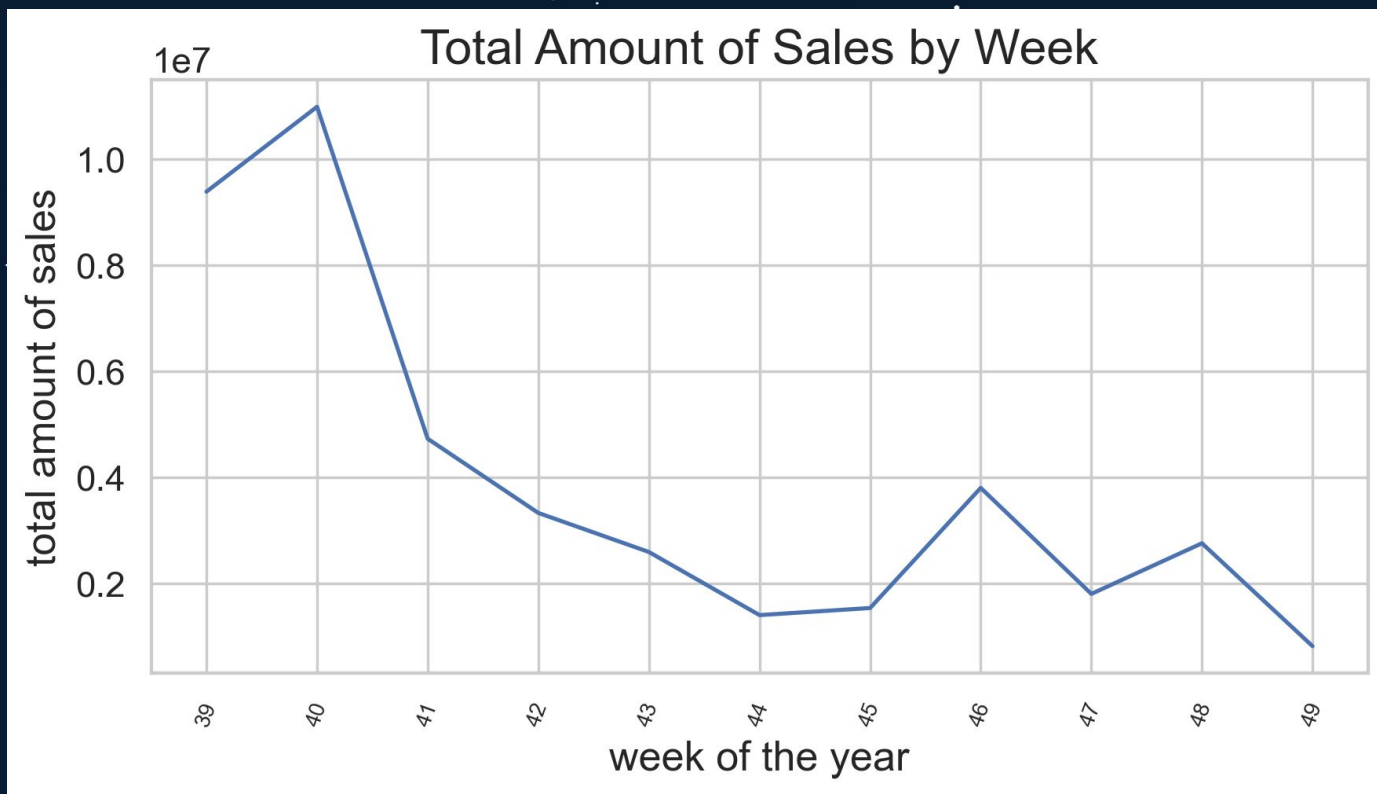
Token by Highest Price Paid











# Sellers By Total Amount Received

