Exploring Initial Prices of Newly Created Tokens

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Why?

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- Massive numbers of newly created coins
- Manipulation is everywhere (bots!)
- Interest in the crypto space
- Fun!

How:

- **Built blockchain scraper with web3.py**
- **187 tokens real-time tracked first 30 mins of creation**
- **Resampled time series to 20sec OHLC bins**

```
df.sample(3)
```

	time	open	high	low	close	count	norm_open	norm_high	norm_low	norm_close
64	2022-02-06 20:11:20	1.563479e-10	1.563479e-10	1.563479e-10	1.563479e-10	175	0.000000	0.000000	0.000000	0.000000
86	2022-02-05 01:01:20	1.554452e-08	1.554452e-08	1.554452e-08	1.554452e-08	179	0.041164	0.041164	0.041164	0.041164
58	2022-02-05 00:57:00	8.055423e-10	8.055423e-10	8.055423e-10	8.055423e-10	55	0.000000	0.000000	0.000000	0.000000

How p2:

- **New features were extracted**
- **Data was normalized & cleaned**
- **Examined with matplotlib & pandas**

```
In [7]: details
```

Out[7]:

count	max	min	mean	first	last	max_xs	first_buy_xs	gainer_30min	norm_open	norm_low
1	5.066400e-14	5.060500e-14	5.065413e-14	5.060500e-14	5.066400e-14	1.001166e+00	NaN	False	0.000000	0.000000
2	3.585264e-07	3.514944e-07	3.557134e-07	3.555301e-07	3.555601e-07	1.017111e+00	NaN	False	0.573901	0.573901
3	8.887662e-01	5.044248e-01	8.193348e-01	5.044248e-01	8.887662e-01	1.761940e+00	0.504425	True	0.000000	0.000000

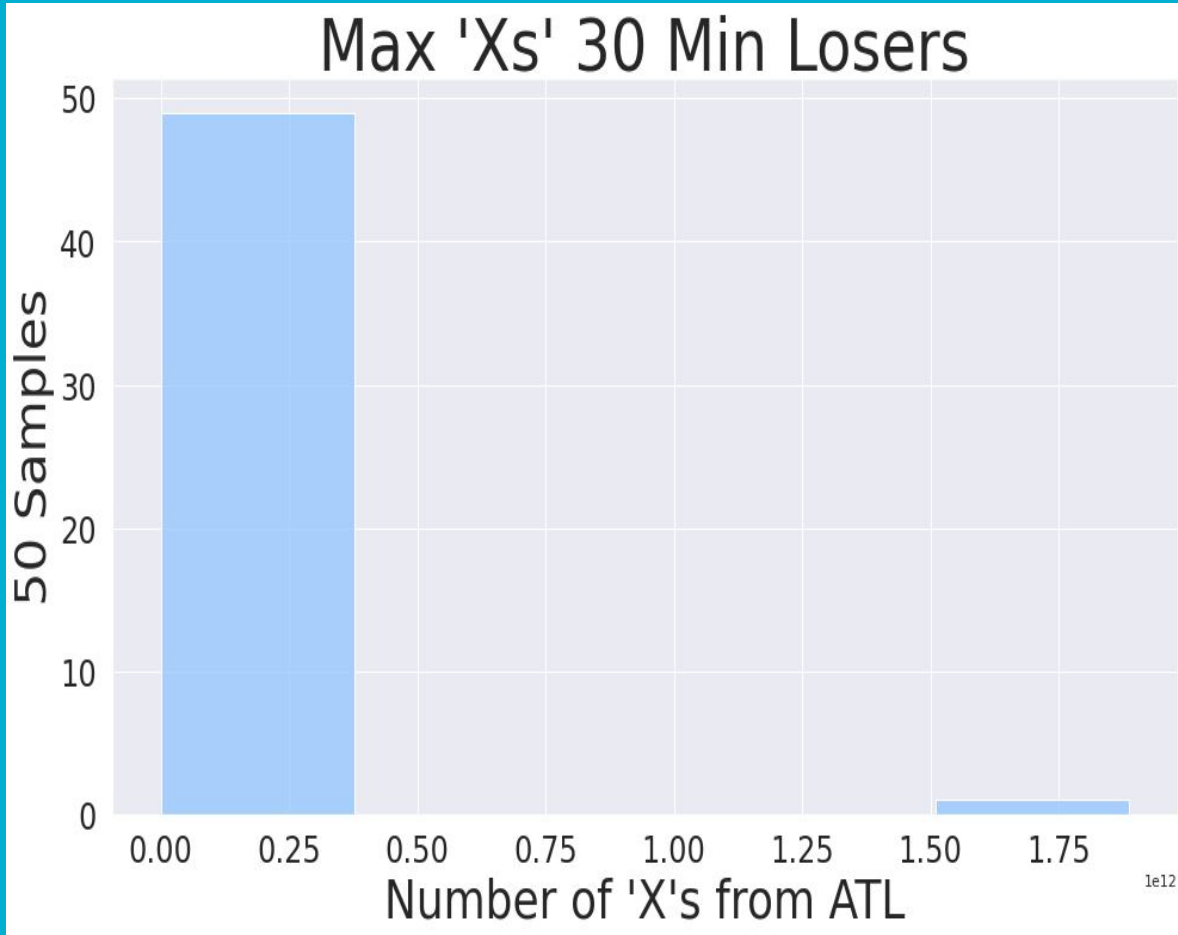# How many tokens Finished up more Than they started?

Gainers After 30min

True
16%

False
84%
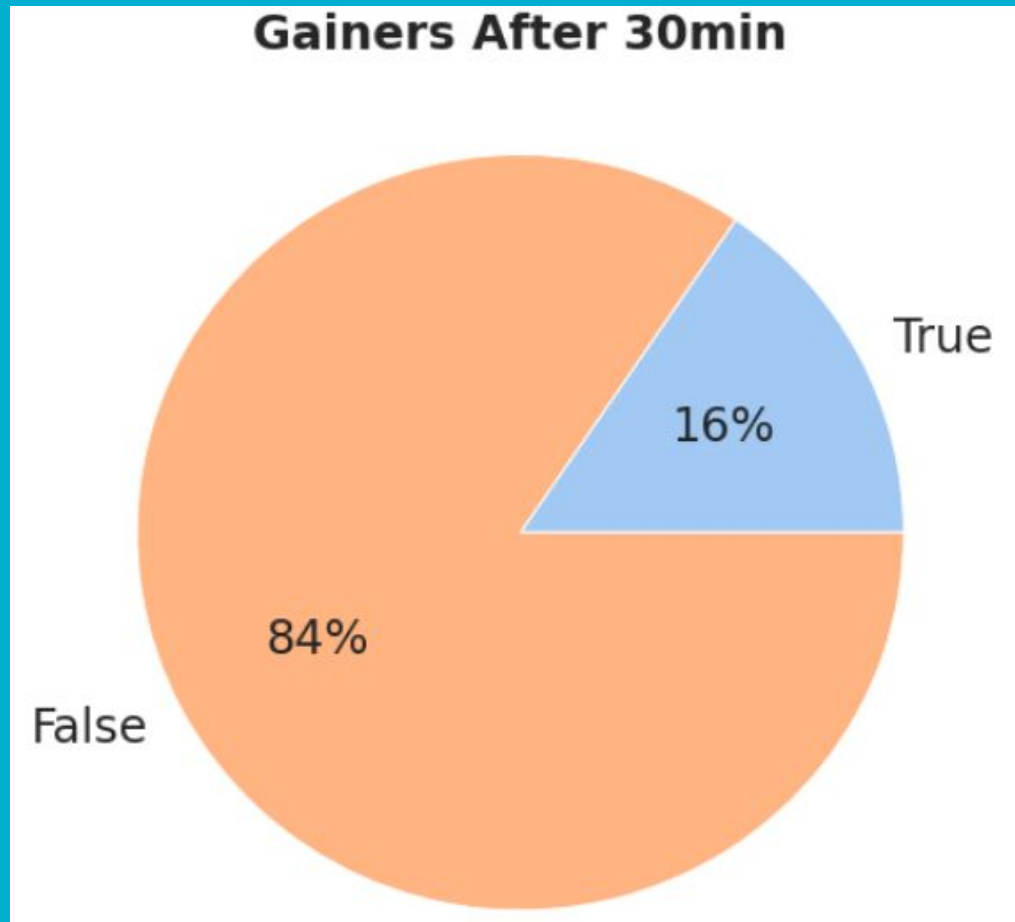
How much of Starting price Is lost after 30mins?

Half of coins lose 80% or more

Percent Loss of Losers From ATH
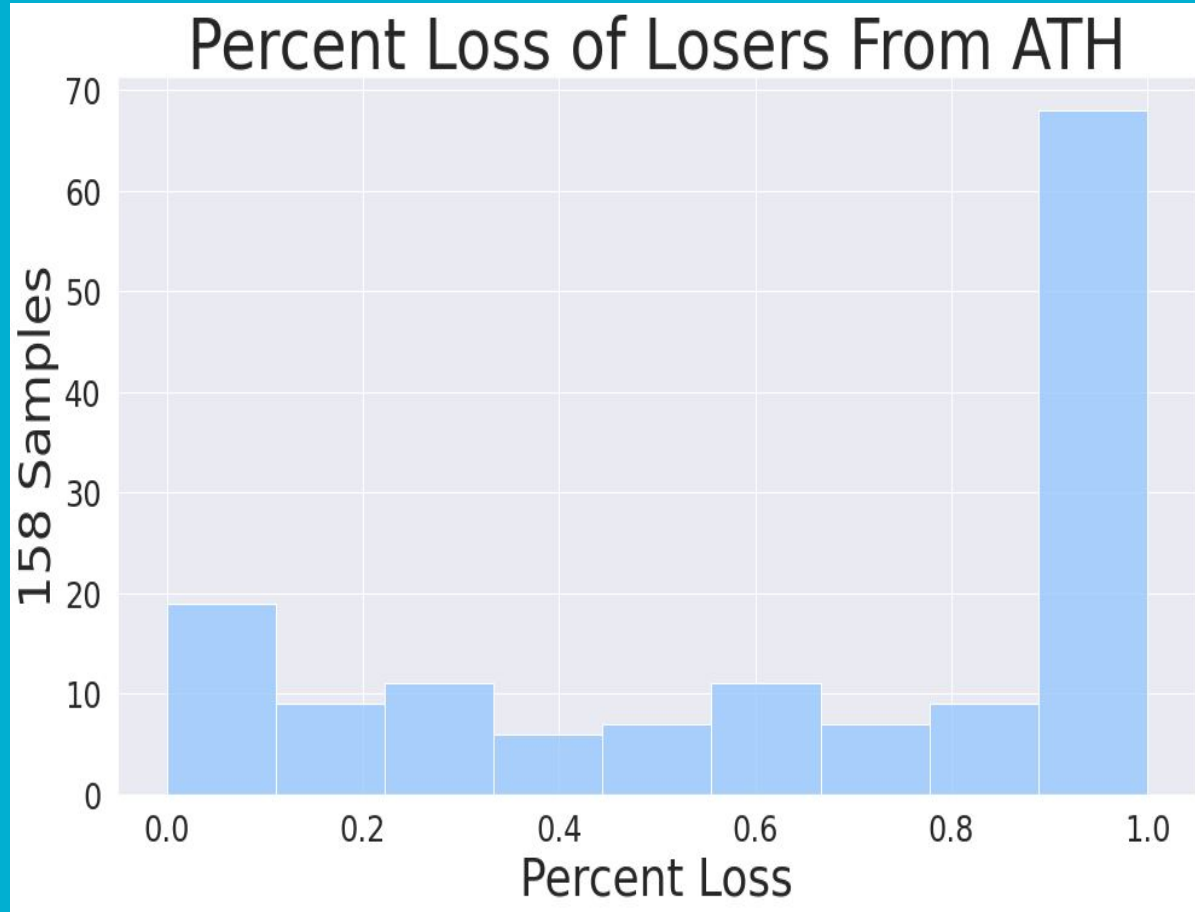
Did our losers Gain if timed right?

Very little

How much can
Be gained if
Timed right?
—

Of our gainers
More than half
4x ROI

Max 'Xs' 30 Min Winners

What does an Average loss Look like?

Normalized Loss Path

Time - 30 Minutes
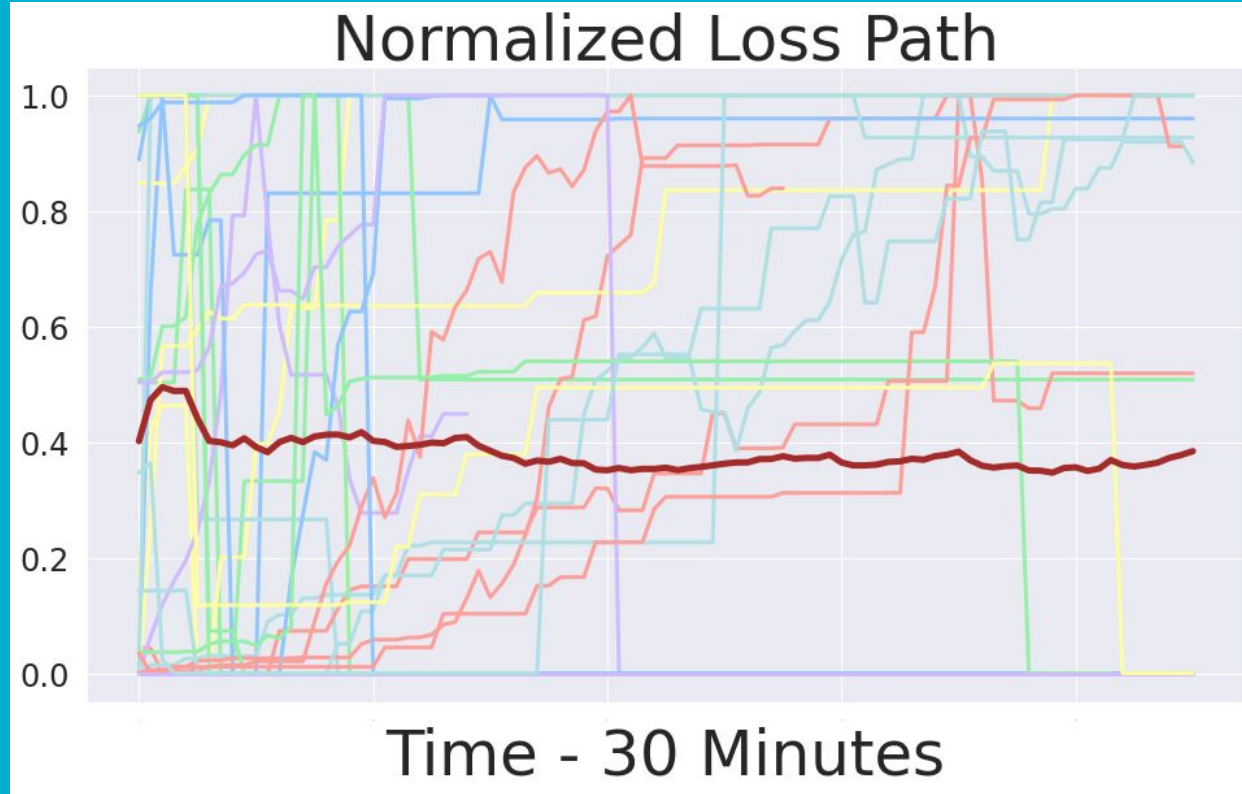
What does an Average gain Look like?

Normalized Gain Path

Time 30 Minutes
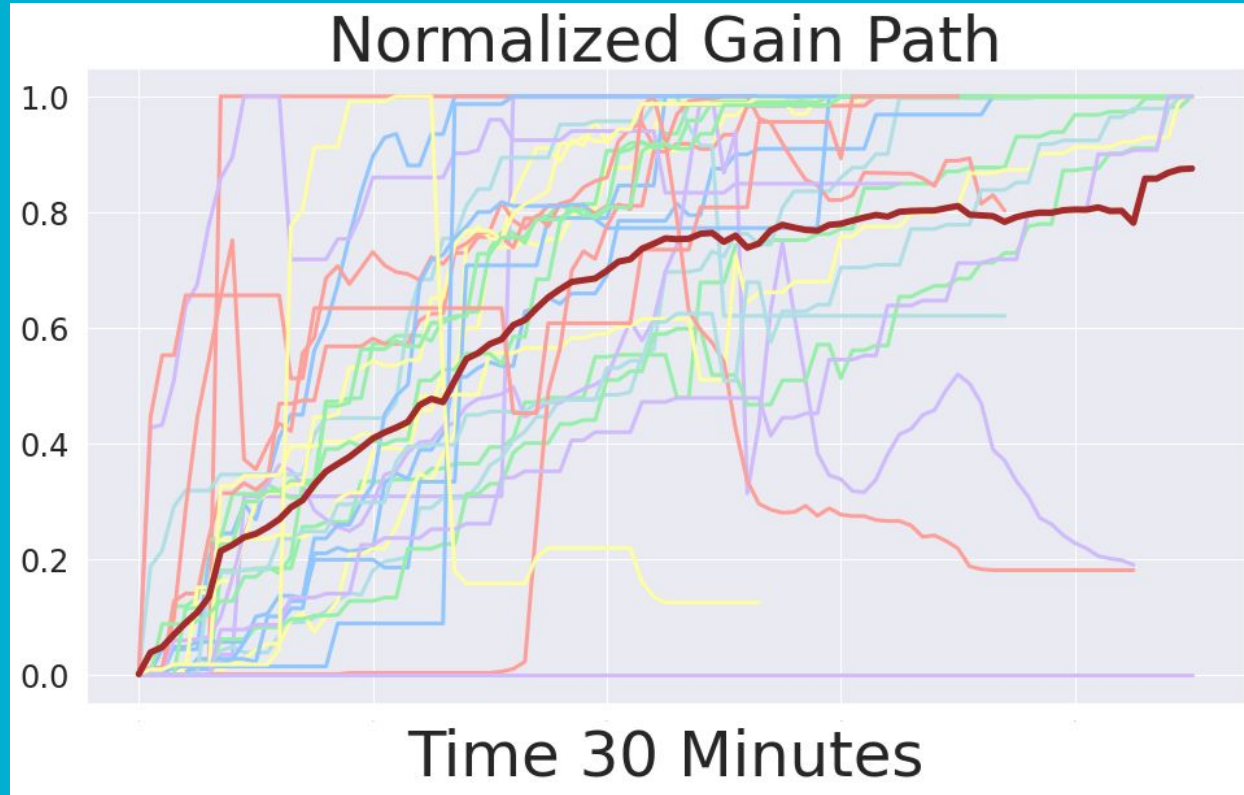
Summary

- **84% of new tokens lose nearly all their value > 30mins**
- **Losing coins have very low potential for profit**
- **Gaining coins often more than 4x the initial price**

Newly Discovered Questions

- How quickly are prices changing?
- How involved are bots initially?
- How many creations are verified contracts?
- How many participants are involved?

Future Exploring...

- Add liquidity, number of txs & other data
- Focus on certain tokenomics
- Extend observation time
- Add additional blockchains