

```

import requests
import pandas as pd

page = requests.get('http://api.weatherapi.com/v1/current.json?
key=1e85d63222be4b55b4085940252003&q=Tumkur')

print(page)#page response

<Response [200]>

result=page.json()
print(result)

{'location': {'name': 'Tumkur', 'region': 'Karnataka', 'country':
'India', 'lat': 13.3422, 'lon': 77.1017, 'tz_id': 'Asia/Kolkata',
'localtime_epoch': 1742462072, 'localtime': '2025-03-20 14:44'},
'current': {'last_updated_epoch': 1742461200, 'last_updated': '2025-
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'condition': {'text': 'Sunny', 'icon':
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'wind_mph': 9.4, 'wind_kph': 15.1, 'wind_degree': 113, 'wind_dir':
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'heatindex_c': 32.7, 'heatindex_f': 90.8, 'dewpoint_c': 6.6,
'dewpoint_f': 43.9, 'vis_km': 10.0, 'vis_miles': 6.0, 'uv': 9.2,
'gust_mph': 10.8, 'gust_kph': 17.4}}

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n1=pd.DataFrame(result)
n1.head()

```

	location	current
name	Tumkur	NaN
region	Karnataka	NaN
country	India	NaN
lat	13.3422	NaN
lon	77.1017	NaN

```

page1 = requests.get('http://api.weatherapi.com/v1/forecast.json?
key=1e85d63222be4b55b4085940252003&q=07112&days=7')

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print(page1)

```

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<Response [200]>

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```

result1=page1.json()
print(result1)

```

```

{'location': {'name': 'Newark', 'region': 'New Jersey', 'country':
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3.0}, {'time_epoch': 1743033600, 'time': '2025-03-26 20:00', 'temp_c':
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0}}]]]]}

```

```

n2=pd.DataFrame(result1)
n2.head()

```

	location	current	forecast
name	Newark	NaN	NaN
region	New Jersey	NaN	NaN
country	USA	NaN	NaN
lat	40.710701	NaN	NaN
lon	-74.213097	NaN	NaN

```
page0 = requests.get('http://api.coincap.io/v2/assets/bitcoin')
```

```
print(page0)
```

```
<Response [200]>
```

```
result0=page0.json()
```

```
print(result0)
```

```
{'data': {'id': 'bitcoin', 'rank': '1', 'symbol': 'BTC', 'name': 'Bitcoin', 'supply': '19839365.000000000000000000', 'maxSupply': '21000000.000000000000000000', 'marketCapUsd': '1706241760412.3130528488747730', 'volumeUsd24Hr': '10173204000.7721397007467311', 'priceUsd': '86002.8413415607330602', 'changePercent24Hr': '2.9533726942887002', 'vwap24Hr': '85201.0651284456121972', 'explorer': 'https://blockchain.info/'}, 'timestamp': 1742463795097}
```

```
import pandas as pd
n=pd.DataFrame(result0)
n.head()
```

	data	timestamp
changePercent24Hr	2.9533726942887002	1742463795097
explorer	https://blockchain.info/	1742463795097
id	bitcoin	1742463795097
marketCapUsd	1706241760412.3130528488747730	1742463795097
maxSupply	21000000.000000000000000000	1742463795097

```
n.to_csv(r"C:\Users\DELL\Downloads\my_python\result0.csv")
```

```
page_1 = requests.get('http://api.coincap.io/v2/assets')
```

```
print(page_1)
```

```
<Response [200]>
```

```
result_1=page_1.json()
```

```
print(result_1)
```

```
{'data': [{'id': 'bitcoin', 'rank': '1', 'symbol': 'BTC', 'name': 'Bitcoin', 'supply': '19839365.000000000000000000', 'maxSupply': '21000000.000000000000000000', 'marketCapUsd':
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'1704955514229.8536583614825300', 'volumeUsd24Hr':  
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'426994941.8607666412845971', 'priceUsd': '0.1744214446729326',  
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'1.8745983524101705', 'explorer':  
'https://explorer.solana.com/address/4k3Dyjjvzvp8eMZWUXbBCjEvwSkkk59S5i  
CNLY3QrkX6R'}, {'id': 'axie-infinity', 'rank': '100', 'symbol': 'AXS',
```



```
'name': 'Axie Infinity', 'supply': '159645321.1352010700000000',
'maxSupply': None, 'marketCapUsd': '548782864.3373647579205450',
'volumeUsd24Hr': '8415528.9910990918140144', 'priceUsd':
'3.4375129846280263', 'changePercent24Hr': '1.1774303321250629',
'vwap24Hr': '3.4549118489821158', 'explorer':
'https://etherscan.io/token/0xf5d669627376ebd411e34b98f19c868c8aba5ada
'}], 'timestamp': 1742464532225}
```

```
cd=result_1['data']
mydata=pd.DataFrame(cd)
mydata.head()
```

	id	rank	symbol	name	
supply \					
0	bitcoin	1	BTC	Bitcoin	19839365.000000000000000000
1	ethereum	2	ETH	Ethereum	120629195.426956490000000000
2	xrp	3	XRP	XRP	58108919817.000000000000000000
3	tether	4	USDT	Tether	143653509034.065300000000000000
4	binance-coin	5	BNB	BNB	144006830.000000000000000000

	maxSupply	marketCapUsd \
0	21000000.000000000000000000	1704955514229.8536583614825300
1	None	242111101587.1799842856242144
2	100000000000.000000000000000000	145761026736.6174415875141228
3	None	143740135265.1651833230852544
4	144006830.000000000000000000	91541242235.4067090238004010

	volumeUsd24Hr	priceUsd
changePercent24Hr \		
0	10140624530.3458942477910495	85938.0083097343921220
2.9939351116256912		
1	6622944848.4808813207588759	2007.0688586643466302
3.4417480343071294		
2	3362939508.9273152325278126	2.5084105365519884
8.6077379181505057		
3	24633885225.2738938902019050	1.0006030220332407
0.1496540696871500		
4	553181090.7130583820557930	635.6729207594300147
3.2476019225504610		

	vwap24Hr
explorer	
0	85201.0651284456121972
https://blockchain.info/	
1	2023.0357853491439004

```

https://etherscan.io/
2      2.4898083714762087
https://xrpcharts.ripple.com/#/graph/
3      0.9999677996084417
https://www.omniexplorer.info/asset/31
4      617.6091689478402690
https://etherscan.io/token/0xB8c77482e45F1F44d...

mydata.to_csv(r"C:\Users\DELL\Downloads\my_python\cd.csv")

mf=pd.read_csv(r"C:\Users\DELL\Downloads\my_python\cd.csv")

mf.head()

```

	Unnamed: 0	id	rank	symbol	name	supply \
0	0	bitcoin	1	BTC	Bitcoin	1.983936e+07
1	1	ethereum	2	ETH	Ethereum	1.206292e+08
2	2	xrp	3	XRP	XRP	5.810892e+10
3	3	tether	4	USDT	Tether	1.436535e+11
4	4	binance-coin	5	BNB	BNB	1.440068e+08

	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd
changePercent24Hr \				
0	2.100000e+07	1.704956e+12	1.014062e+10	85938.008310
2.993935				
1	NaN	2.421111e+11	6.622945e+09	2007.068859
3.441748				
2	1.000000e+11	1.457610e+11	3.362940e+09	2.508411
8.607738				
3	NaN	1.437401e+11	2.463389e+10	1.000603
0.149654				
4	1.440068e+08	9.154124e+10	5.531811e+08	635.672921
3.247602				

	vwap24Hr	explorer
0	85201.065128	https://blockchain.info/
1	2023.035785	https://etherscan.io/
2	2.489808	https://xrpcharts.ripple.com/#/graph/
3	0.999968	https://www.omniexplorer.info/asset/31
4	617.609169	https://etherscan.io/token/0xB8c77482e45F1F44d...

```

import seaborn as sns
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

mf.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 100 entries, 0 to 99
Data columns (total 13 columns):

```

#	Column	Non-Null Count	Dtype
0	Unnamed: 0	100 non-null	int64
1	id	100 non-null	object
2	rank	100 non-null	int64
3	symbol	100 non-null	object
4	name	100 non-null	object
5	supply	100 non-null	float64
6	maxSupply	44 non-null	float64
7	marketCapUsd	100 non-null	float64
8	volumeUsd24Hr	100 non-null	float64
9	priceUsd	100 non-null	float64
10	changePercent24Hr	100 non-null	float64
11	vwap24Hr	98 non-null	float64
12	explorer	89 non-null	object

dtypes: float64(7), int64(2), object(4)

memory usage: 10.3+ KB

mf.isnull().sum()

```

Unnamed: 0      0
id              0
rank            0
symbol          0
name            0
supply          0
maxSupply       56
marketCapUsd    0
volumeUsd24Hr   0
priceUsd        0
changePercent24Hr 0
vwap24Hr        2
explorer        11
dtype: int64

```

mf.dropna(inplace=True)

mf.isnull().sum()

```

Unnamed: 0      0
id              0
rank            0
symbol          0
name            0
supply          0
maxSupply       0
marketCapUsd    0
volumeUsd24Hr   0
priceUsd        0
changePercent24Hr 0
vwap24Hr        0

```

```
explorer          0
dtype: int64
```

```
mf.describe(include='all')
```

	Unnamed: 0	id	rank	symbol	name	
supply count	\ 40.000000	40	40.000000	40	40	4.000000e+01
unique	NaN	40	NaN	40	40	NaN
top	NaN	bitcoin	NaN	BTC	Bitcoin	NaN
freq	NaN	1	NaN	1	1	NaN
mean	46.375000	NaN	47.375000	NaN	NaN	2.550103e+13
std	29.211595	NaN	29.211595	NaN	NaN	1.130327e+14
min	0.000000	NaN	1.000000	NaN	NaN	8.480744e+05
25%	19.750000	NaN	20.750000	NaN	NaN	1.493931e+08
50%	42.500000	NaN	43.500000	NaN	NaN	1.409425e+09
75%	67.250000	NaN	68.250000	NaN	NaN	2.710419e+10
max	98.000000	NaN	99.000000	NaN	NaN	5.892529e+14

	maxSupply	marketCapUsd	volumeUsd24Hr	priceUsd	\
count	4.000000e+01	4.000000e+01	4.000000e+01	40.000000	
unique	NaN	NaN	NaN	NaN	
top	NaN	NaN	NaN	NaN	
freq	NaN	NaN	NaN	NaN	
mean	2.527077e+13	5.195367e+10	4.441234e+08	2219.139532	
std	1.131153e+14	2.693694e+11	1.660421e+09	13578.461302	
min	0.000000e+00	5.529552e+08	7.193787e+05	0.000008	
25%	1.860017e+08	9.462875e+08	3.059257e+07	0.265395	
50%	1.409000e+09	2.066243e+09	6.290298e+07	2.189840	
75%	2.909377e+10	7.147119e+09	1.262672e+08	15.580942	
max	5.895527e+14	1.704956e+12	1.014062e+10	85938.008310	

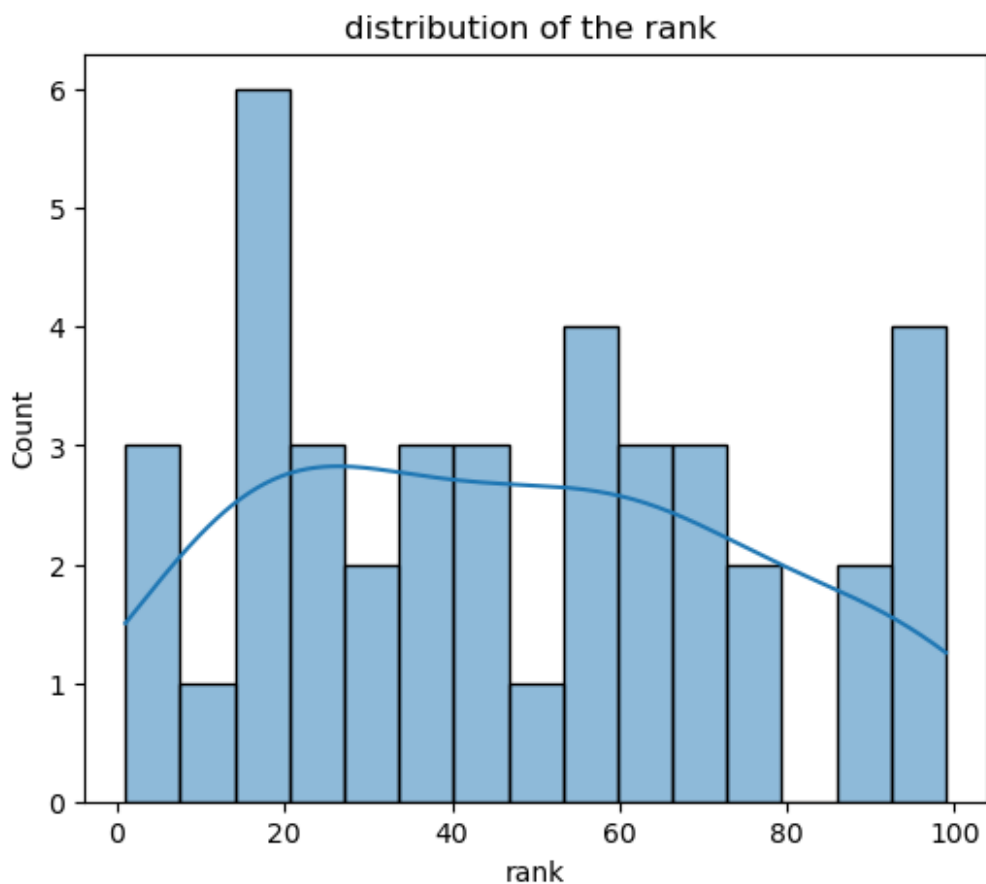
	changePercent24Hr	vwap24Hr	explorer
count	40.000000	40.000000	40
unique	NaN	NaN	40
top	NaN	NaN	<a href="https://blockchain.info/">https://blockchain.info/</a>
freq	NaN	NaN	1
mean	3.888406	2200.407494	NaN
std	3.739039	13462.016038	NaN
min	-3.067007	0.000007	NaN

25%	2.557420	0.265478	NaN
50%	3.332507	2.135576	NaN
75%	4.529505	15.684078	NaN
max	21.782335	85201.065128	NaN

```
plt.figure(figsize=(6,5))
sns.histplot(mf['rank'],kde=True,bins=15)
plt.title('distribution of the rank ')
plt.show()
```

C:\ProgramData\anaconda3\Lib\site-packages\seaborn\\_oldcore.py:1119: FutureWarning: use\_inf\_as\_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.

```
with pd.option_context('mode.use_inf_as_na', True):
```



```
nmf=mf.select_dtypes(include=['number'])
nmf.head()
```

Unnamed: 0	rank	supply	maxSupply	marketCapUsd	
volumeUsd24Hr	\				
0	0	1	1.983936e+07	2.100000e+07	1.704956e+12

1.014062e+10					
2	2	3	5.810892e+10	1.000000e+11	1.457610e+11
3.362940e+09					
4	4	5	1.440068e+08	1.440068e+08	9.154124e+10
5.531811e+08					
8	8	9	3.523480e+10	4.500000e+10	2.583631e+10
5.074687e+08					
14	14	15	2.476378e+09	5.047559e+09	9.021006e+09
7.802840e+07					

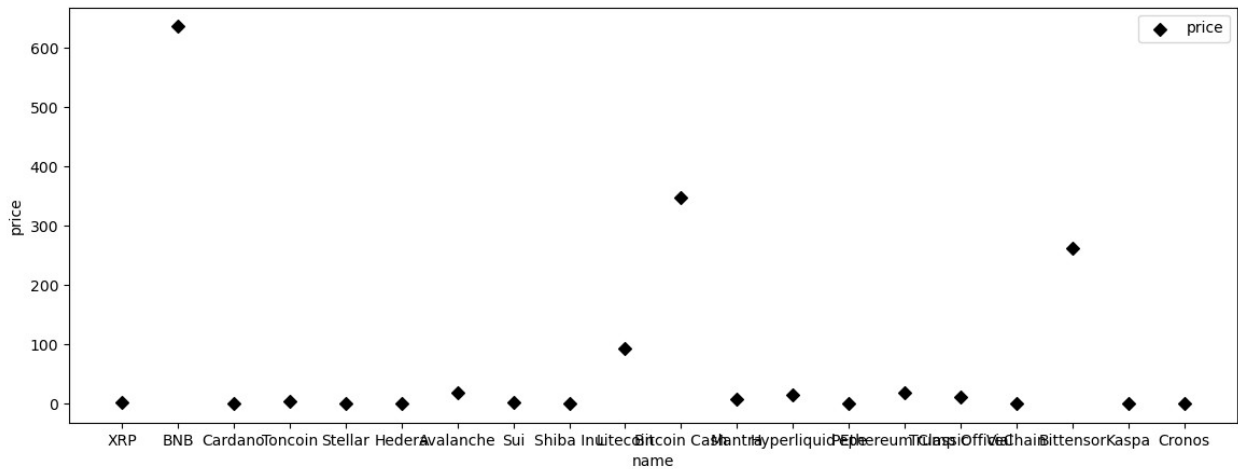
	priceUsd	changePercent24Hr	vwap24Hr
0	85938.008310	2.993935	85201.065128
2	2.508411	8.607738	2.489808
4	635.672921	3.247602	617.609169
8	0.733261	2.599788	0.732204
14	3.642822	1.638530	3.654987

```
subset = mf.loc[2:50, ['priceUsd', 'name']]
print(subset.head(10))
```

	priceUsd	name
2	2.508411	XRP
4	635.672921	BNB
8	0.733261	Cardano
14	3.642822	Toncoin
15	0.287798	Stellar
16	0.194405	Hedera
17	19.096878	Avalanche
18	2.478497	Sui
19	0.000013	Shiba Inu
20	92.526402	Litecoin

```
plt.figure(figsize=(14,5))
plt.scatter(subset['name'],subset['priceUsd'],color='k',label='price',
marker="D")
plt.xlabel("name")
plt.ylabel("price")
plt.legend()
```

<matplotlib.legend.Legend at 0x26e91854350>



price is less than 2usb and create a scatter plot

```
q=mf[mf['priceUsd']<2]
q
```

Unnamed: 0	id	rank	symbol	\
8	cardano	9	ADA	
15	stellar	16	XLM	
16	hedera-hashgraph	17	HBAR	
19	shiba-inu	20	SHIB	
32	pepe	33	PEPE	
39	vechain	40	VET	
42	kaspa	43	KAS	
43	crypto-com-coin	44	CRO	
51	algorand	52	ALGO	
53	fantom	54	S	
54	jupiter	55	JUP	
57	fetch	58	FET	
64	stacks	65	STX	
68	theta	69	THETA	
71	eos	72	EOS	
75	gala	76	GALA	
91	telcoin	92	TEL	
92	floki-inu	93	FLOKI	
94	curve-dao-token	95	CRV	
98	raydium	99	RAY	

\	name	supply	maxSupply
8	Cardano	3.523480e+10	4.500000e+10
15	Stellar	3.075455e+10	5.000181e+10
16	Hedera	4.190396e+10	5.000000e+10

19	Shiba Inu	5.892529e+14	5.895527e+14		
32	Pepe	4.206899e+14	4.206900e+14		
39	VeChain	8.598504e+10	8.671263e+10		
42	Kaspa	2.588740e+10	2.870403e+10		
43	Cronos	2.526301e+10	3.026301e+10		
51	Algorand	8.514767e+09	1.000000e+10		
53	Sonic (prev. FTM)	2.803635e+09	3.175000e+09		
54	Jupiter	2.690911e+09	3.000000e+09		
57	Artificial Superintelligence Alliance	2.520000e+09	2.630547e+09		
64	Stacks	1.517731e+09	1.818000e+09		
68	Theta Network	1.000000e+09	1.000000e+09		
71	EOS	1.553563e+09	2.100000e+09		
75	Gala	4.359970e+10	5.000000e+10		
91	Telcoin	9.388008e+10	1.000000e+11		
92	FLOKI	9.626638e+12	0.000000e+00		
94	Curve DAO Token	1.301120e+09	3.030303e+09		
98	Raydium	2.908480e+08	5.550000e+08		
	marketCapUsd	volumeUsd24Hr	priceUsd	changePercent24Hr	vwap24Hr
8	2.583631e+10	5.074687e+08	0.733261	2.599788	0.732204
15	8.851113e+09	1.673339e+08	0.287798	3.857867	0.288359
16	8.146319e+09	1.092278e+08	0.194405	3.028593	0.193989
19	7.615015e+09	6.002327e+07	0.000013	2.680728	0.000013
32	3.195835e+09	4.625146e+08	0.000008	4.250249	0.000007
39	2.269869e+09	4.035312e+07	0.026398	3.303400	0.026436
42	2.085648e+09	2.594525e+07	0.080566	2.615375	0.080926
43	2.046837e+09	1.184701e+07	0.081021	2.697397	0.080464



51	1.687510e+09	5.676532e+07	0.198186	5.337429	0.196837
53	1.503316e+09	1.217212e+08	0.536203	6.265429	0.529026
54	1.443752e+09	2.911486e+07	0.536529	3.963168	0.534265
57	1.346075e+09	5.046031e+07	0.534157	3.361614	0.539734
64	9.841279e+08	1.606457e+07	0.648420	4.423860	0.648472
68	9.457234e+08	2.347913e+07	0.945723	4.394446	0.945153
71	9.068076e+08	1.074363e+08	0.583695	1.627076	0.576308
75	7.658960e+08	3.454440e+07	0.017567	2.696938	0.017503
91	6.146752e+08	3.075049e+06	0.006547	21.782335	0.005948
92	6.118610e+08	5.498563e+07	0.000064	4.846440	0.000063
94	5.846559e+08	1.985795e+07	0.449348	-3.067007	0.468102
98	5.529552e+08	7.444243e+07	1.901183	3.439016	1.874598

	explorer
8	<a href="https://cardanoexplorer.com/">https://cardanoexplorer.com/</a>
15	<a href="https://dashboard.stellar.org/">https://dashboard.stellar.org/</a>
16	<a href="https://app.dragonglass.me/hedera/home">https://app.dragonglass.me/hedera/home</a>
19	<a href="https://etherscan.io/token/0x95ad61b0a150d7921...">https://etherscan.io/token/0x95ad61b0a150d7921...</a>
32	<a href="https://etherscan.io/token/0x6982508145454ce32...">https://etherscan.io/token/0x6982508145454ce32...</a>
39	<a href="https://explore.veforge.com/">https://explore.veforge.com/</a>
42	<a href="https://explorer.kaspa.org/">https://explorer.kaspa.org/</a>
43	<a href="https://etherscan.io/token/0xa0b73e1ff0b80914a...">https://etherscan.io/token/0xa0b73e1ff0b80914a...</a>
51	<a href="https://algoexplorer.io/">https://algoexplorer.io/</a>
53	<a href="https://sonicscan.org">sonicscan.org</a>
54	<a href="https://solscan.io/token/JUPyiwrYJFskUPiHa7hke...">https://solscan.io/token/JUPyiwrYJFskUPiHa7hke...</a>
57	<a href="https://etherscan.io/token/0x1d287cc25dad7ccaf...">https://etherscan.io/token/0x1d287cc25dad7ccaf...</a>
64	<a href="https://explorer.stacks.co/">https://explorer.stacks.co/</a>
68	<a href="https://explorer.thetatoken.org/">https://explorer.thetatoken.org/</a>
71	<a href="https://bloks.io/">https://bloks.io/</a>
75	<a href="https://ethplorer.io/es/address/0x15d4c048f83b...">https://ethplorer.io/es/address/0x15d4c048f83b...</a>
91	<a href="https://etherscan.io/token/0x85e076361cc813a90...">https://etherscan.io/token/0x85e076361cc813a90...</a>
92	<a href="https://bscscan.com/token/0xf5b5b838b6cfeedc287...">https://bscscan.com/token/0xf5b5b838b6cfeedc287...</a>
94	<a href="https://etherscan.io/token/0xD533a949740bb3306...">https://etherscan.io/token/0xD533a949740bb3306...</a>
98	<a href="https://explorer.solana.com/address/4k3DyJzvzp...">https://explorer.solana.com/address/4k3DyJzvzp...</a>

```
plt.figure(figsize=(14,5))
plt.scatter(q['name'],q['priceUsd'],color='k',label='price',marker="D"
)
```

```
plt.xlabel("name")
plt.ylabel("price")
plt.legend()
```

<matplotlib.legend.Legend at 0x26e91912c10>

