



OECD International Academy for Tax Crime Investigation

*Anti-Money Laundering: Current Trends, Prosecutions,
and the Challenges around Cryptocurrencies*



General Information Tools

Clark Moody Dashboard, Coin Dance,
Blockchain.com, Bitinfocharts, Messari

Some Useful Information Sites

- **Clark Moody Bitcoin Dashboard:** Detailed bitcoin network information
- **Coin Dance:** Visualization / graphics
- **Blockchain.com:** Browser, prices, charts, DeFi, NFTs
- **Bitinfocharts:** charts, graphing, address transaction activity
- **Messari:** investment resource, links to project social media
- **Etherscan:** Tokens, charts, price history
- **DappRadar:** DeFi, DApps, Tokens

Clark Moody - Bitcoin Dashboard

- Extensive, live information on the state of the bitcoin blockchain.
- Price related data.
- Blockchain related data.
- Transaction fees.
- Technical data.

<https://bitcoin.clarkmoody.com/dashboard/>

Clark Moody Bitcoin Dashboard							
Lightning Network (Public)		Mining		Pool		Samourai Whirlpool	
Total Capacity	3,363.32 BTC	Hash Rate, 2016 Blocks	192.3 EH/s	Transactions	16,747	Unspent Capacity	4,377.97 BTC
Capacity Value	\$124.0M	Difficulty	26.6e18	Percentage RBF	22.7%	Unspent Value	\$162.0M
Total Nodes	19,430	Difficulty Epoch	358	Volts	11.26 Mv	Unspent Count	62,740
Total Channels	84,697	Last Difficulty Change	9.3%	Blocks to Clear	12	TS Volume, 30 days	478.29 BTC
Tor Capacity	2,571.38 BTC	Block Time, 2016 Blocks	9:25	Pending Fees	0.49 BTC	Spent Cycle Output, 30 days	407.84 BTC
Percentage Tor Capacity	76.5%	Difficulty Retarget		Pending Fees Value	\$18.11B	Cycles, 30 days	10,514
Tor Nodes	11,398	Blocks to Retarget	1,217	Time Since Last Block	8:23	Economics	
Bitfindex Lightning Node		Retarget Date	February 3, 2022	Minimum Fee Rate	1.00 sat/vb	Realized Monetary Inflation	1.77%
Inbound Capacity	99.58 BTC	Estimated Difficulty Change	-3.3%	Predicted Next Block		Forward Monetary Inflation	1.74%
Outbound Capacity	422.51 BTC	Block Time, Diff. Epoch	10:20	Transactions	3,005	Velocity of Money	55
Bitfindex Channels	706	Mining Economics		Output	8,533.84 BTC	Daily Value Throughput	\$184.5B
Liquid Sidechain		Block Subsidy	6.25 BTC	Output Value	\$315.8M	Stock-to-Flow (S2F)	
Peg-in Capacity	3,530.36 BTC	Block Subsidy Value	\$231,250	Reward	6.37 BTC	Realized Stock-to-Flow Ratio	56
Peg-in Capacity Value	\$130.0M	Daily Hash/s Revenue	502,041 sats	Reward Value	\$235.61B	S2F Price	\$105,404
Liquid Block Height	1,678,303	Daily Hash/s Value	\$281.03	Fees vs. Reward	1.93%	Forward Stock-to-Flow Ratio	57
Liquid Chain Size	11.0 GB	Avg. Fees per Block	0.06 BTC	Median Fee	32 sat/vb	Output Type Usage (90 Days)	
Transactions		Avg. Fees vs. Reward	1.00%	Fee Estimates		Pubkey Hash	67.1%
Total All Time	705,842,760	Halvings		Immediate	11 sat/vb	Script Hash	10.9%
Rate, 30 days	2.9 tx/s	Subsidy Epoch	4	Hour	8 sat/vb	Segwit v0 Pubkey Hash	20.6%
Count, 30 days	7,246,627	Blocks to Halving	119,489	Day	1 sat/vb	Segwit v0 Script Hash	1.4%
Chain Security		Halving Estimate	May 2, 2024	Week	1 sat/vb	Rare Output Types (90 Days)	
Hash Rate, 90 Days	172.3 EH/s	Transaction Fees		Bare Multisig		Bare Multisig	2,754
Chain Work	93.3 bits	Fee Rate		Fee Rate		Non-standard	0
Chain Rewrite Days	734	Fee Percentage		Fee Percentage		Pubkey	194
Annual Mining Revenue	\$16.8B	Fee Value		Fee Value		Taproot	71,287
						Segwit Unknown Version	23

Clark Moody Exercise

<https://bitcoin.clarkmoody.com/dashboard/>

1. What is the current price of Bitcoin?
2. How many blocks are there currently in the blockchain?
3. How many bitcoin transactions have ever taken place?
4. What is the current median fee for a transaction?
5. How many transactions are currently waiting in the Mempool to clear and how many blocks will it take to clear them?
6. How many nodes are reachable?
7. How many reachable nodes are TOR nodes?

Coin Dance

<https://coin.dance/>

- Bitcoin information and visualizations
 - Volume: <https://coin.dance/volume>
 - Statistics: <https://coin.dance/stats>
 - Nodes: <https://coin.dance/nodes>
 - Politics and Opinion:
<https://coin.dance/poli>
 - Blocks: <https://coin.dance/blocks>
 - Resources: <https://coin.dance/resources>
 - And a lot more...

Coin Dance Exercise

1. In which countries is Bitcoin illegal?
2. What is the USD volume of transactions at LocalBitcoins for the week of 2017-12-23?
 - What is the most recent weekly volume of transactions in USD?
3. What is a Bitcoin Core node?
4. How many nodes are Bitcoin Core nodes?

<https://coin.dance/poli>

<https://coin.dance/volume/localbitcoins>

<https://coin.dance/nodes/core>

Blockchain.com

<https://www.blockchain.com/>

- **Explorer:** General information page. Links to other information pages which provide more detailed information
- **Prices:** Current and historical prices for many cryptocurrencies.
- **Charts:** Provides basic info in a graphical format.
- **DeFi:** Lists the different DeFi (i.e. Smart Contract) platforms and links to more detailed information on DappRadar.com
- **NFTs:** Information on NFTs including links to their creators, owners, and collection.

Blockchain.com – Prices Exercise

<https://www.blockchain.com/>

1. What are the current prices for:
 - Bitcoin (BTC)
 - Ethereum (ETH)
 - Binance Coin (BNB)
2. What are the three most expensive NFTs which sold in the last 24 hours?

<https://www.blockchain.com/explorer/prices>

<https://www.blockchain.com/explorer/nfts>

Blockchain.com – Charts

<https://www.blockchain.com/charts>

- Currency Prices
- Currency Statistics
- Block Details
- Mining Information
- Network Activity
- Wallet Activity
- Market Signals

Blockchain.com – Charts Exercise

<https://www.blockchain.com/charts>

1. What is the total number of transactions on the Bitcoin blockchain as of yesterday?
2. What is the average amount of time that it takes for a transaction to be mined yesterday?
3. What is the average fee for a transaction yesterday?
4. What was the highest fee for a transaction ever mined? And on what date was it mined?
5. What were the highest and lowest market capitalizations for Bitcoin in the last year?

Bitinfocharts

<https://bitinfocharts.com/>

- Gives prices and other information for a large number of coins.
- Useful for finding charts of general information:
 - Market capitalization
 - Average transaction value
 - Transaction stats
 - Number of active addresses
- **Investigations:** Useful for quickly graphing & viewing the transaction history of addresses.

Bitinfocharts Tallycoin Exercise

<https://bitinfocharts.com/bitcoin/>

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1. During what date range did most of the donations take place?
2. When did people stop donating?
3. When were the bitcoins emptied out of the address?

Bitinfocharts Exercise

General Information

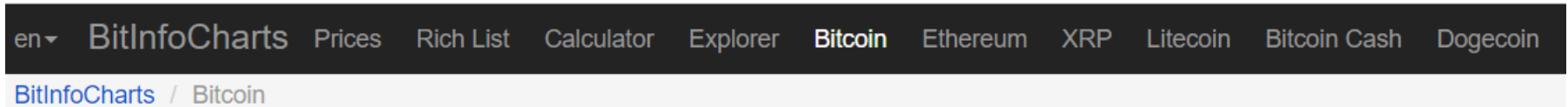
<https://bitinfocharts.com/cryptocurrency-prices/>

1. What is the current price of Bitcoin in GBP?
2. Find the GBP price on two different exchanges. Are the prices the same?

Cryptocurrency	Price in GBP	Pric
BTC Bitcoin	17,592 +0.53% (\$104) +1.7% (\$326)	1 BT +0% it +0% it
BNB Binance Coin	250.71 +0.18% (\$0.4) -1.75% (\$4.95)	0.0 -0.35% -3.39%
ETH Ethereum	1,196 +1.03% (\$13) +2.1% (\$27.3)	0.0 +0.49% +0.39%
SOL Solana	29.75 +1.3% (\$0.42) +1.36% (\$0.4)	0.0 +0.76% -0.34%
LTC Litecoin	48.46 +1.49% (\$0.7) +2.16% (\$1.1)	0.0 +0.95% +0.45%
XRP XRP	0.466 +1.57% in 12 +12.26% in 7	0.0 +1.03% +10.3%
BCH Bitcoin Cash	106.43 +0.45% (\$0.5) +2.19% (\$2.5)	0.0 -0.09% +0.49%

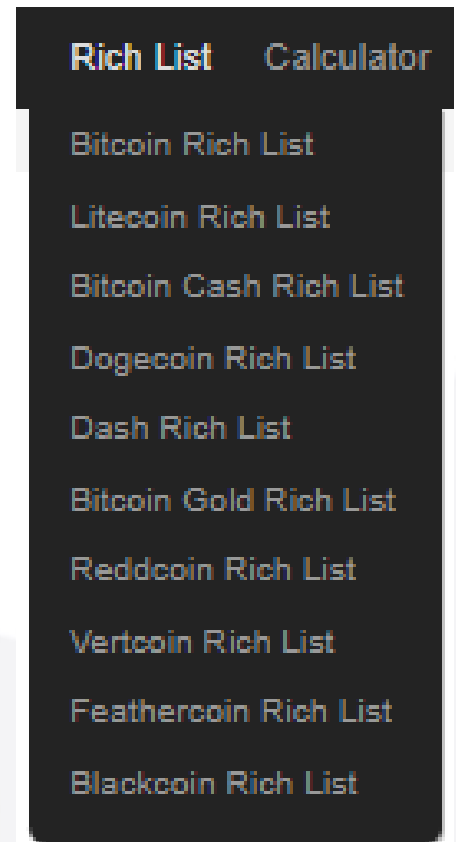
Bitinfocharts Exercise

Rich List



1. What company controls the Bitcoin address with the most bitcoins in it?
2. How many dollars are the bitcoins worth?

<https://bitinfocharts.com/>



- **Primarily used by investors.**
- Token, platform and trading statistics.
- Governance proposals and information.
- Some features require subscription fee to access.
- Attempts to eliminate wash trading from transaction statistics.
- Useful in getting the big picture.
- **May help you find communication platforms for tokens, code repository, etc.**

Messari Exercise

Communications

<https://messari.io/>

- Search for “SuperRare” in the search box.
 - Select “**SuperRare Protocol DAO**”
 - Locate and click on the “Tools” tab
1. What platform does SuperRare use for Discussion/Communication?



Etherscan

<https://etherscan.io/>

- Ethereum Blockchain Brower
- Allows you to search for accounts, tokens, transactions, and much more
- Displays Ethereum Charts and Statistics:
 - Price
 - Transactions
 - Total supply & Market Cap
 - Token transfers
 - Node tracker
 - Etc....

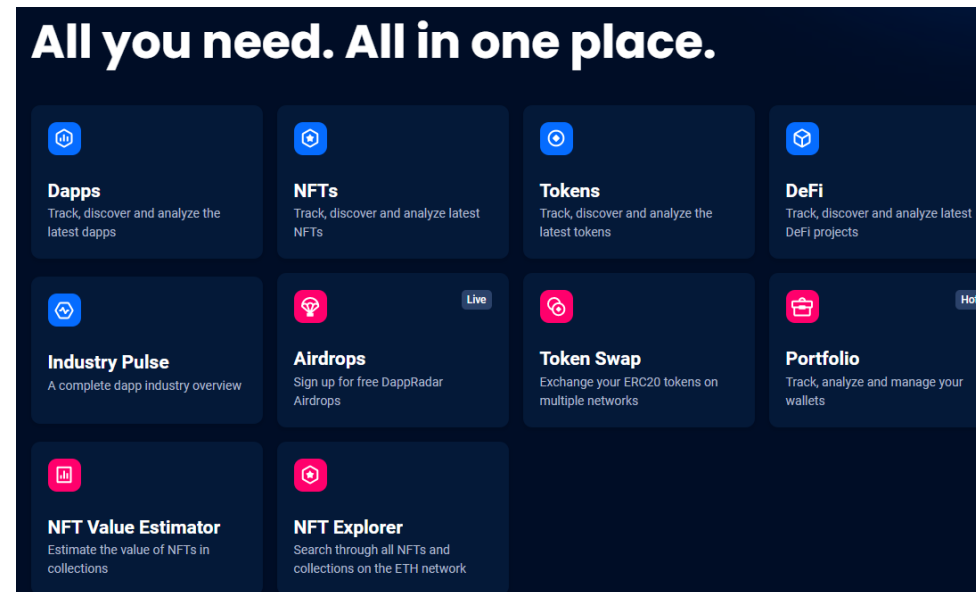
Etherscan Exercise

1. What are the five top Ethereum based cryptocurrencies (ERC20)?
 - <https://etherscan.io/tokens>
 - Which are tied in value to the US Dollar?
 - How many dollars worth are in circulation?
2. What was the highest price of Ether?
 - <https://etherscan.io/chart/etherprice>
 - Download the CSV price information
 - What was the price of Ether on January 3, 2020?
3. Go to the Node Tracker Chart
 - <https://etherscan.io/charts>
 - How many Ethereum nodes are running in Italy?

DappRadar

<https://dappradar.com/>

- Information about decentralized applications (**Dapp**), decentralised finance (**DeFi**) and **NFTs**.
- **Protocols:** Ethereum, TRON, EOX, etc.
- **Categories:** Games, Exchanges, Collectibles, etc.



Dapp Radar Exercise

- Go to DappRadar and search for “VeeFriends” in the search box at the top of the page.
- What is the Market Capitalization of the VeeFriends token collection?
- Scroll down to the **VeeFriends statistics**
 - Go to the Historical **Activity Chart** and click on **All**
 - Click on the menu box and download the CSV.
 - How many **Transactions** occurred on **January 4, 2022**?
 - How many **Unique Active Wallets (UAW)** were responsible for the transactions?
- What could this CSV help you graph?