



## OECD International Academy for Tax Crime Investigation

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



## Ethereum Blockchain Explorers

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# ETHEREUM 101

# Ethereum Basics: Ether

- Ether (ETH) is a cryptocurrency, just like Bitcoin
- Ethereum uses a blockchain to store transactions.
- All transactions on the Ethereum blockchain are public.
- Ethereum addresses can hold balances and require authorization (typically in the form of private keys) to spend from them
- Unlike Bitcoin, Ethereum transactions send exact amounts from one address to another.

# Ethereum Basics: Smart Contracts

- The Ethereum network can store and run programs.
- Ethereum has a programming languages that enable the creation of:
  - Fungible tokens (i.e. cryptocurrencies)
  - Non-fungible tokens (e.g. Bored Apes)
  - Smart contracts (i.e. computer programs)
  - DeFi Platforms (i.e. financial services programs)
- Ethereum addresses typically store their owner's ether as well as their tokens.

# Information displayed by Ethereum Blockchain Explorers

- **Block information:** dates, times and transactions
- **Transaction information:**
  - Amounts of Ethereum transferred
  - Tokens transferred
  - Senders and recipients
  - Dates and times
- **Ethereum Address information:**
  - Balances
  - Token holdings & activity
  - Address type: Contract Account or Externally Owned Account (EOA)

# Some Ethereum Blockchain Explorers

- [\*\*Etherscan\*\*](#) - English, Chinese, Korean, Russian, and Japanese
- [Etherchain](#)
- [Ethplorer](#) - English, Chinese, Spanish, French, Turkish, Russian, Korean and Vietnamese
- [Blockchair](#) - English, Spanish, French, Italian, Dutch, Portuguese, Russian, Chinese, and Farsi
- [Blockscout](#)
- [OKLink](#)
- [Otterscan](#)

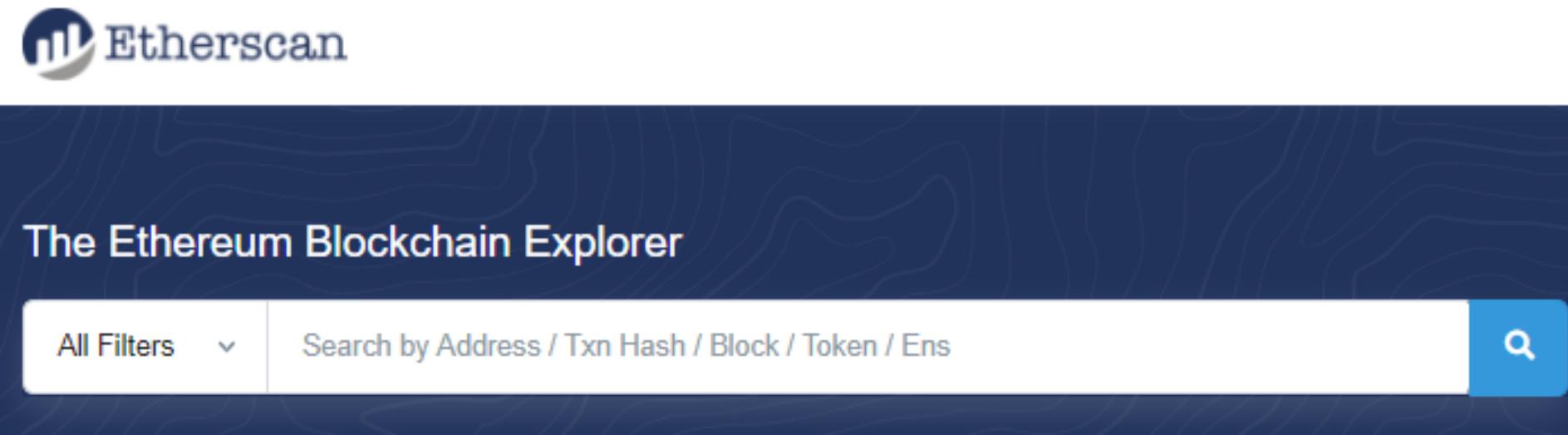
# Important features

- What language do they support?
- Do they present information clearly?
- Is the information that they contain comprehensive?
- Do they allow you to export information (e.g. in CSV files)
- Do they allow you to identify an address' Ethereum based assets?
- How comprehensive is the list of tokens/projects that they identify?
- Timeline graphics?

The most popular Ethereum Blockchain Explorer

**ETHERSCAN.IO**

# Etherescan - Search



- Ethereum Address
- Transaction Hash
- Block number
- Ethereum Name Service name (ENS)

# ETHERSCAN ADDRESSES

# Two Ethereum Address Types

## Externally Owned Accounts

- May have an ETH balance
- No associated code
- Can initiate transactions
- Ability to send crypto is controlled by private keys

## Contract Accounts

- May have an ETH balance
- **Has associated code**
- The code is initiated by transactions or messages from other addresses
- Its code must be deployed by another address

# Contract Accounts

- Contract accounts are identified in Etherscan by the word Contract.
- Contracts must be deployed by other contracts
  - Tracing the deployer account may help you identify who is behind the smart contract's project (e.g. Bored Ape Yacht Club)



Eth: \$1,327.16 (+2.27%) | 29 Gwei



Contract 0xcDA72070E4!



# Etherscan Addresses/Accounts

- The Address page will tell you:
  - The address type (Contract or EOA)
  - The address deployer (if it is a Contract address)
  - The address' ETH balance
  - Warning information about the address

# Exercise

## Etherscan Address

<https://etherscan.io/>

Search for the following Address:

**0x3DD59DE66e2AD31A7D663Df977Ddd6E5F2a5F6b6**

1. Is the address a Contract or an EOA?
2. What is the balance of the address?
3. What name has the address been given by Etherscan?
4. Click on some transaction hashes:
  1. Can you identify any Ether being moved **into** the address?
  2. What type of NFTs did the address transfer?



Address 0x3DD59DE66e2AD31A7D663Df977Ddd6E5F2a5F6b6



Balance:

0.00035796790869 Ether

9:08:07

Fake\_Phishing5028

OUT

Fake\_Phishing5028

9:

(0x3dd59de66e2ad31a7d663df977ddd6e5f2a5f6b6)

	0x09c09deb819f373543...	Transfer	13891474	2021-12-28 3:57:41	0x29adaa4bbef7f689f5e...	IN	Fake_Phishing5028	65 Ether
	0x8d058bf03ca4c2cdb0c...	Safe Transfer Fr...	13905788	2021-12-30 9:08:07	Fake_Phishing5028	OUT	Bored Ape Yacht Club: B...	0 Ether
	0xae14a1d1bbb58300cd...	Safe Transfer Fr...	13905774	2021-12-30 9:05:46	Fake_Phishing5028	OUT	Bored Ape Yacht Club: B...	0 Ether
	0x60b8344dffcbd186e6b...	Safe Transfer Fr...	13905763	2021-12-30 9:04:23	Fake_Phishing5028	OUT	Bored Ape Yacht Club: B...	0 Ether
	0xd04cdbf4ff97aaea265...	Safe Transfer Fr...	13905759	2021-12-30 9:02:26	Fake_Phishing5028	OUT	Bored Ape Yacht Club: B...	0 Ether
	0x8dd950b4b568b1a6b2...	Safe Transfer Fr...	13905759	2021-12-30 9:02:26	Fake_Phishing5028	OUT	Bored Ape Yacht Club: B...	0 Ether

# ETHERSCAN TRANSACTIONS

# Some Basic Transaction Types

## 1. Simple ETH transfer

- Moves ETH from one account to another
- Requires payment of a fee

## 2. Simple Token Transfer

- Moves a token from one account to another
- Requires a fee payment as well as interaction with the token's smart contract

## 3. Transfer using a Smart Contract

- Initiated by another address (EOA or Contract)
- Requires fee payment as well as interaction with smart contracts

# Etherscan Transactions

- You can search for a specific transaction using its hash.
- You can view an address' different types of token transfers
  - ERC20 fungible tokens
  - ERC721 NFTs
  - ERC1155 tokens (multiple token types)
- You can view the address' activity timeline

Transactions Internal Txns **Erc20 Token Txns** Erc721 Token Txns Erc1155 Token Txns Analytics Comments

# ERC20 - Cryptocurrency

Transactions	Internal Txns	Erc20 Token Txns	Erc721 Token Txns	Erc1155 Token Txns	Analytics	Comments																																				
ⓘ Transactions involving tokens with poor reputation have been detected. To hide these transactions, go to <a href="#">Token Ignore List</a> .																																										
⬇️ Latest 25 ERC-20 Token Transfer Events																																										
<table><thead><tr><th>Txn Hash</th><th>Date Time (UTC)</th><th>From</th><th>To</th><th>Value</th><th>Token</th></tr></thead><tbody><tr><td>0x9d984c21c4ff913fc644...</td><td>2022-10-10 12:25:59</td><td>0x65e07e30b44e572a7b...</td><td>IN Ukraine Crypto Donation</td><td>50</td><td>USD Coin (USDC)</td></tr><tr><td>0x1155bd6a370d5783fc...</td><td>2022-10-10 9:15:47</td><td>0xbc74ec9d39eb28cb4c...</td><td>IN Ukraine Crypto Donation</td><td>5</td><td>USD Coin (USDC)</td></tr><tr><td>0x22f3b52f05bc3e8439e...</td><td>2022-10-10 2:05:59</td><td>0x8a934a2144bac20807...</td><td>IN Ukraine Crypto Donation</td><td>500,000,000,000</td><td>ERC-20: Kom....inu</td></tr><tr><td>0xb931ae354cea9706a2...</td><td>2022-10-10 2:04:59</td><td>0x8a934a2144bac20807...</td><td>IN Ukraine Crypto Donation</td><td>500,000,000</td><td>ERC-20: Kom....inu</td></tr><tr><td>0xaf6e5b6ea063408518...</td><td>2022-10-10 2:00:59</td><td>komainusoul.eth</td><td>IN Ukraine Crypto Donation</td><td>500,000,000,000</td><td>ERC-20: Kom....inu</td></tr></tbody></table>							Txn Hash	Date Time (UTC)	From	To	Value	Token	0x9d984c21c4ff913fc644...	2022-10-10 12:25:59	0x65e07e30b44e572a7b...	IN Ukraine Crypto Donation	50	USD Coin (USDC)	0x1155bd6a370d5783fc...	2022-10-10 9:15:47	0xbc74ec9d39eb28cb4c...	IN Ukraine Crypto Donation	5	USD Coin (USDC)	0x22f3b52f05bc3e8439e...	2022-10-10 2:05:59	0x8a934a2144bac20807...	IN Ukraine Crypto Donation	500,000,000,000	ERC-20: Kom....inu	0xb931ae354cea9706a2...	2022-10-10 2:04:59	0x8a934a2144bac20807...	IN Ukraine Crypto Donation	500,000,000	ERC-20: Kom....inu	0xaf6e5b6ea063408518...	2022-10-10 2:00:59	komainusoul.eth	IN Ukraine Crypto Donation	500,000,000,000	ERC-20: Kom....inu
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0x165CD37b4C644C2921454429E7F9358d18A45e14

# ERC721 - NFT

Transactions Internal Txns Erc20 Token Txns **Erc721 Token Txns** Erc1155 Token Txns Analytics Comments

ⓘ Transactions involving tokens with poor reputation have been detected. To hide these transactions, go to [Token Ignore List](#).

Latest 25 ERC-721 Token Transfer Events [View All](#)

Txn Hash	Date Time (UTC)	From	To	Token ID	Token	Details
<a href="#">0x34d19dee5bdbb6c50a...</a>	2022-09-04 21:21:17	 *sor&n.eth	 Ukraine Crypto Donation	88	 ERC-721: Sov....nty	<a href="#">View NFT &gt;</a>
<a href="#">0xaabd1671ae32ff55e2...</a>	2022-08-07 14:13:17	 cryptoleon.eth	 Ukraine Crypto Donation	116001754	 Art Blocks (BLOCKS)	<a href="#">View NFT &gt;</a>
<a href="#">0x33b666f5b98cbb91...</a>	2022-05-18 21:33:11	 coco.eth	 Ukraine Crypto Donation	22	 ERC-721 TOKEN*	<a href="#">View NFT &gt;</a>
<a href="#">0xed81f712a78cd77c35...</a>	2022-05-18 9:55:38	 0xe858993955dca086a8...	 Ukraine Crypto Donation	162	 ERC-721: Moo....ive	<a href="#">View NFT &gt;</a>

0x165CD37b4C644C2921454429E7F9358d18A45e14

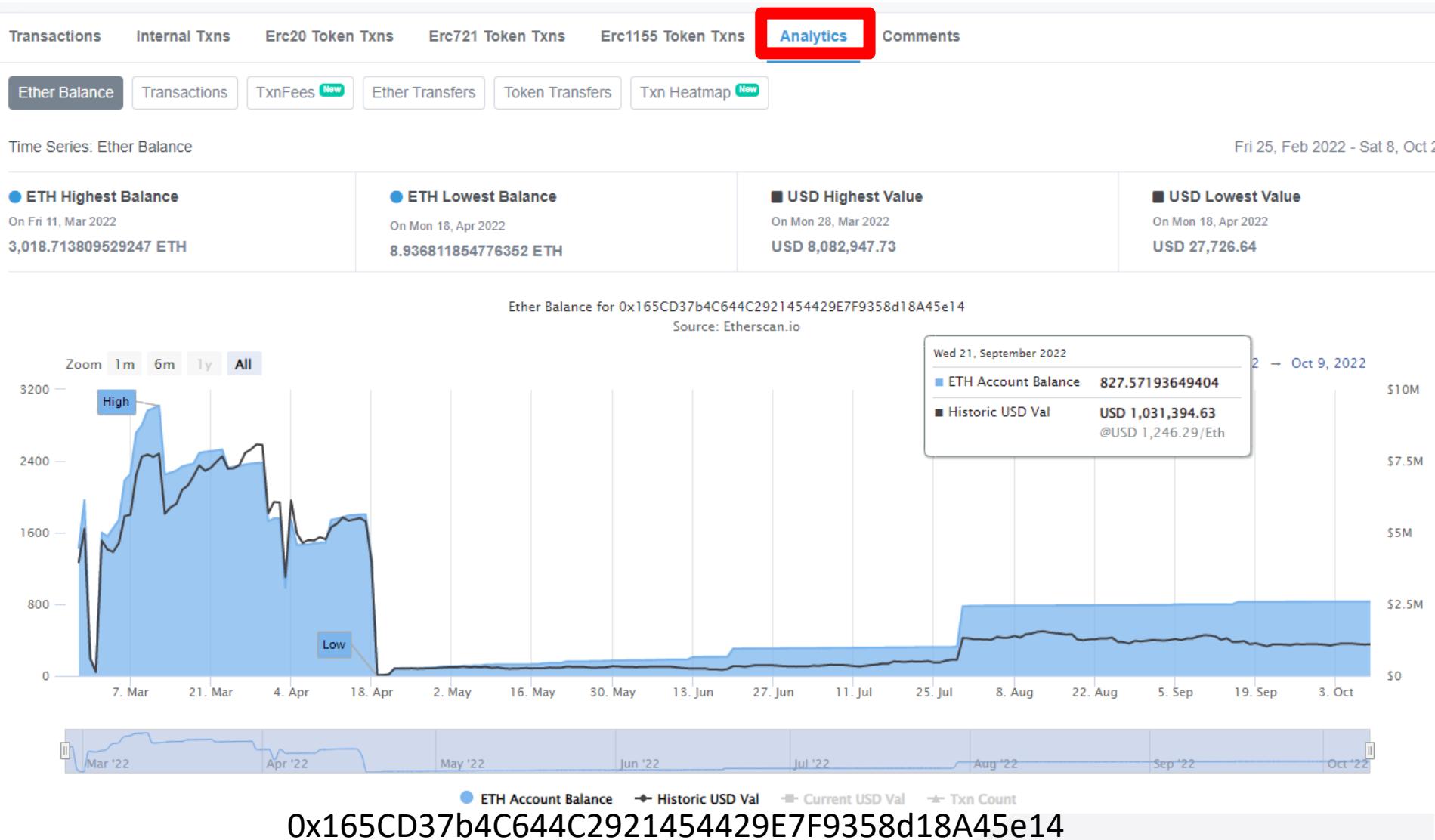
# ERC1155 - Multitoken

Transactions	Internal Txns	Erc20 Token Txns	Erc721 Token Txns	Erc1155 Token Txns	Analytics	Comments
<p>ⓘ Transactions involving tokens with poor reputation have been detected. To hide these transactions, go to <a href="#">Token Ignore List</a>.</p>						
<p> Newest 25 ERC-1155 Token Transfer Events <a href="#">View All</a></p>						
Txn Hash	Date Time (UTC)	From	To	Token ID	Value	Token
<a href="#">0x5b307b8a668fb06232...</a>	2022-08-29 19:51:26	<a href="#">0x8f84b9237939a31a1e...</a>	<span>IN</span> Ukraine Crypto Donation	649152389...	1	 OpenSea Shar... (OPE)
<a href="#">0x2ec3c0bdc98ef967de2...</a>	2022-08-11 13:32:26	<a href="#">robvanlife.eth</a>	<span>IN</span> Ukraine Crypto Donation	106458886...	1	 OpenSea Shar... (OPE)
<a href="#">0x716348fb134457cf8d0...</a>	2022-07-24 5:08:25	<a href="#">0xd5888e912763659d18...</a>	<span>IN</span> Ukraine Crypto Donation	965839119...	1	 OpenSea Shar... (OPE)
<a href="#">0xc664ca652e8b5daa48...</a>	2022-06-18 20:08:49	<a href="#">0x3dc582a776914aebe2...</a>	<span>IN</span> Ukraine Crypto Donation	279400543...	1	 OpenSea Shar... (OPE)
<a href="#">0x3e1f47198127c74fe6a...</a>	2022-06-09 6:05:02	<a href="#">0x8a9eac6f7f3a1993a5c...</a>	<span>IN</span> Ukraine Crypto Donation	626995250...	1	 OpenSea Shar... (OPE)
<a href="#">0x7149a03035e73b2d1a...</a>	2022-04-26 18:27:21	Ukraine Crypto Donation	<span>OUT</span> 0xe7ff6de260d3eca21a89...	49867	1	 Rarible (RARI)

0x165CD37b4C644C2921454429E7F9358d18A45e14

# Analytics - Timeline

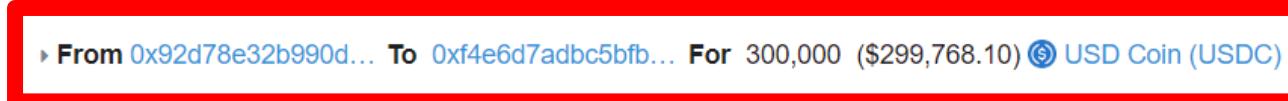
<https://etherscan.io/>



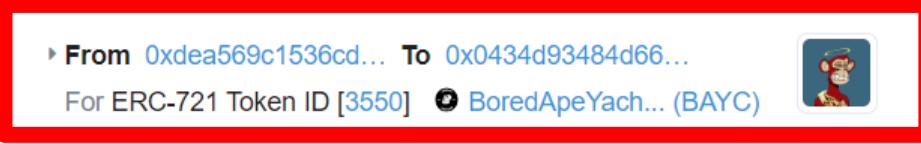
# Ethereum (ETH) Transfer

② Transaction Hash:	 0x87053073c99342d0954a746fd2da55289e875c22c40ccfd51e3fb9a41d5a5593 
② Status:	  Success
② Block:	 15675270  89 Block Confirmations
② Timestamp:	 ⌚ 17 mins ago (Oct-04-2022 02:09:35 PM +UTC)   ⏱ Confirmed within 12 secs
② From:	 0xbc18a90125326a2fb7f9d90c6b8acf8b2a1fcb00 
② To:	 0x70055a5f2af816db9e227cd060738c10c41ea0fa 
② Value:	 46.19706 Ether (\$62,493.53)
② Transaction Fee:	0.000433207200111 Ether (\$0.59)

# ERC20 (cryptocurrency token) Transfer

② Transaction Hash:	 0xd92bc0ed4808da1ec0abe4b03057a2a3d033f415eabce9dfce5314ae12b57445 
② Status:	  Success
② Block:	 15675270 
② Timestamp:	 19 mins ago (Oct-04-2022 02:09:35 PM +UTC)    Confirmed within 6 secs
② From:	0x92d78e32b990d10aec0875dc5585f1a6f958179 
② Interacted With (To):	 Contract 0xa0b86991c6218b36c1d19d4a2e9eb0ce3606eb48 (Centre: USD Coin)  
② Tokens Transferred:	 <p>From 0x92d78e32b990d... To 0xf4e6d7adbc5fb... For 300,000 (\$299,768.10) </p>
② Value:	0 Ether (\$0.00)
② Transaction Fee:	0.001254753711750075 Ether (\$1.70)

# ERC721 (NFT) Transfer

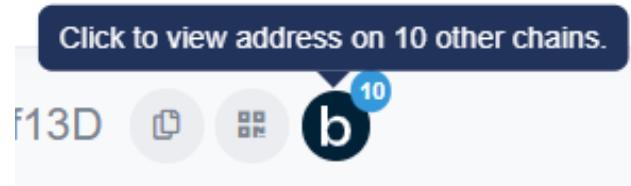
② Transaction Hash:	 0xa96d317f2482fcf6e0e36b95eb5c187e1fcf1a952888d1c34a082739041fc995 
② Status:	  Success
② Block:	  13857167  1818210 Block Confirmations
② Timestamp:	 ② 285 days 17 hrs ago (Dec-22-2021 08:34:36 PM +UTC)   ① Confirmed within 30 secs
② Transaction Action:	 ▶ Transfer of  BoredApeYach... (BAYC) From 0xdea569c1536cd4b0d7... To 0x0434d93484d66fe90d... ▶ 1 of Token ID [3550]
② From:	0xdea569c1536cd4b0d749e189221e9b41a320c97a 
② Interacted With (To):	 Contract 0xbc4ca0eda7647a8ab7c2061c2e118a18a936f13d (Bored Ape Yacht Club: BAYC Token)  
② Tokens Transferred:	 ▶ From 0xdea569c1536cd... To 0x0434d93484d66... For ERC-721 Token ID [3550]  BoredApeYach... (BAYC) 
② Value:	0 Ether (\$0.00)
② Transaction Fee:	0.011086380380564046 Ether (\$15.00)

# Transactions on other Chains?

- Etherscan will show you if an address conducted on other chains such as the Binance Smart Chain (BSC), Polygon, or other chains.
  - This can lead you to additional assets as well as an extended transaction history.

The screenshot shows the Etherscan interface for the address `0x5c70aF3ddc7e815a40F2A09d22483e6E24EdDf8E`. The top bar displays the current price of Ethereum (Eth) as \$1,322.59 (+1.92%) and the gas price as 23 Gwei. A button on the right says "Click to view address on 7 other chains." Below the address, there are several icons: a green square with a white 'A', a blue square with a white 'B' (which has a red arrow pointing to it), a white square with a blue 'C', and a white square with a blue 'D'. The 'B' icon is highlighted with a blue circle and has a small '7' in the top right corner, indicating the number of other chains.

# Clicking on the “b” link will bring up Blockscan



A screenshot of the Blockscan search interface. The address "0x5c70aF3ddc7e815a40F2A09d22483e6E24EdDf8E" is entered into the search bar. Below the search bar are two tabs: "Addresses" (which is selected and highlighted in blue) and "Transactions". To the right of the tabs is a blue search button with a white magnifying glass icon.

Address 0x5c70aF3ddc7e815a40F2A09d22483e6E24EdDf8E found in 8 different chains. (0.006 secs)

## Etherscan

A screenshot of the Etherscan interface. The address "0x5c70aF3ddc7e815a40F2A09d22483e6E24EdDf8E" is shown in a blue link. Below it is a "Ethereum" button. The Etherscan logo is on the left.

## BscScan

A screenshot of the BscScan interface. The address "0x5c70aF3ddc7e815a40F2A09d22483e6E24EdDf8E" is shown in a blue link. Below it is a "Binance Smart Chain" button. The BscScan logo is on the left.

## PolygonScan

A screenshot of the PolygonScan interface. The address "0x5c70aF3ddc7e815a40F2A09d22483e6E24EdDf8E" is shown in a blue link. Below it is a "Polygon (Matic)" button. The PolygonScan logo is on the left.

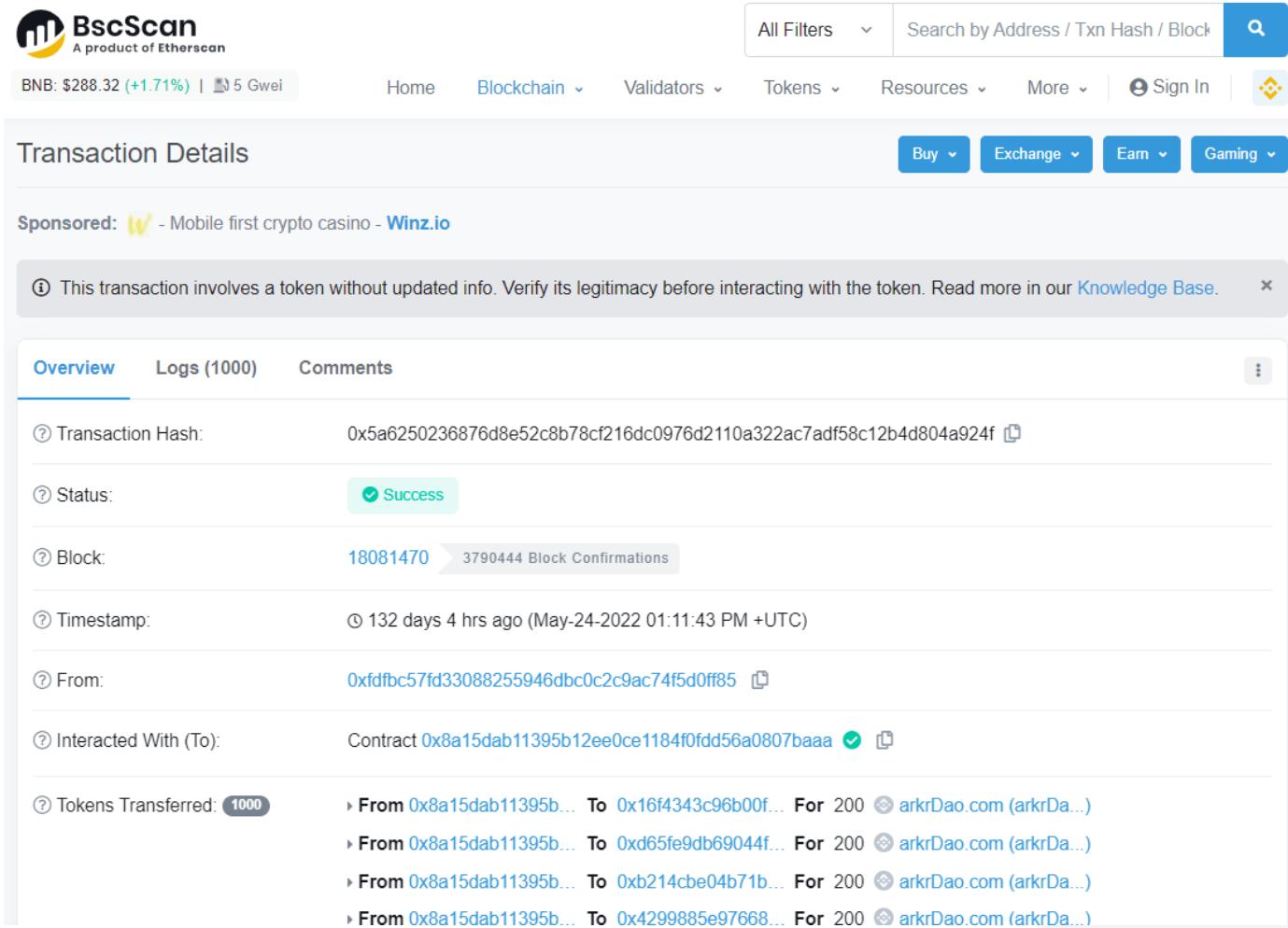
# Clicking on the Blockscan links will bring up the address in a blockchain explorer for the selected chain

The screenshot shows the BscScan blockchain explorer interface. At the top, there is a navigation bar with links for Home, Blockchain, Validators, Tokens, Resources, More, Sign In, and a search bar. The main content area shows the address `0x5c70aF3ddc7e815a40F2A09d22483e6E24EdDf8E` with a balance of 0 BNB. The 'More Info' section shows a placeholder for a name tag. Below this, the 'Transactions' section lists a single BEP-20 token transfer event. The event details are as follows:

Txn Hash	Age	From	To	Value	Token
<a href="#">0xa6250236876d8e52c...</a>	132 days 4 hrs ago	<a href="#">0xa15dab11395b12ee0...</a>	<a href="#">0x5c70af3ddc7e815a40f...</a>	200	<a href="#">BEP-20: ark....com</a>

At the bottom right, there is a link to [ Download CSV Export ].

# You can then examine the address' transactions on the other blockchain



The screenshot shows the BscScan interface for a transaction. At the top, there's a navigation bar with the BscScan logo, a search bar, and various dropdown menus for filters, address search, and sign-in. Below the header, a banner indicates BNB price and a 5 Gwei tip. The main content is titled 'Transaction Details' and shows a sponsored message from Winz.io. A note cautions about interacting with tokens without updated info. The transaction details are listed in a table with columns for category and value. The 'Logs (1000)' tab is selected, showing a list of 1000 logs. The 'Tokens Transferred' section shows four transfers from the address to arkrDAO contracts.

Category	Value
Transaction Hash:	0x5a6250236876d8e52c8b78cf216dc0976d2110a322ac7adf58c12b4d804a924f
Status:	Success
Block:	18081470 3790444 Block Confirmations
Timestamp:	132 days 4 hrs ago (May-24-2022 01:11:43 PM +UTC)
From:	0xfd9bc57fd33088255946dbc0c2c9ac74f5d0ff85
Interacted With (To):	Contract 0x8a15dab11395b12ee0ce1184f0fdd56a0807baaa
Tokens Transferred: 1000	<ul style="list-style-type: none"><li>From 0x8a15dab11395b... To 0x16f4343c96b00f... For 200 arkrDAO.com (arkrDa...)</li><li>From 0x8a15dab11395b... To 0xd65fe9db69044f... For 200 arkrDAO.com (arkrDa...)</li><li>From 0x8a15dab11395b... To 0xb214cbe04b71b... For 200 arkrDAO.com (arkrDa...)</li><li>From 0x8a15dab11395b... To 0x4299885e97668... For 200 arkrDAO.com (arkrDa...)</li></ul>

# Etherscan Transaction Exercise

<https://etherscan.io/>

Search for the following transaction ID:

**0xbfad81c48e7853d9f26752823390bed1d99a3b16  
cb9314122f0d68cd20efd656**

1. What is the date and time of the transaction?
2. What was transferred in this transaction?
3. How much was transferred?
4. What was the gas fee?
5. Which address sent the tokens?
6. Which address received the tokens?
7. What types of addresses are the senders and the recipients (Contract or EOA)?

Overview   State   Comments

---

② Transaction Hash:	0xbfad81c48e7853d9f26752823390bed1d99a3b16cb9314122f0d68cd20efd656	
② Status:	 Success	
② Block:	 15675270	43752 Block Confirmations
② Timestamp:	⌚ 6 days 2 hrs ago (Oct-04-2022 02:09:35 PM +UTC)	⌐ Confirmed within 8 mins:11 secs
② From:	0x347607fa6313ae68db5da038791587a31e6c49cb	
② To:	0x5f203f646f8633844ee8a239b00b7be49745614f	
② Value:	0.028330955161565 Ether	(\$36.83)
② Transaction Fee:	0.0004074 Ether	(\$0.53)
② Gas Price:	0.0000000194 Ether (19.4 Gwei)	
② Ether Price:	\$1,361.90 / ETH	

# Etherscan Transaction Exercise

<https://etherscan.io/>

Search for transaction ID:

**0x691f9001f243e6b5b94fa4aac2b9cb1cd0b08e94  
1b7250ed5d89b742ce52d6e3**

1. What was the date and time of the transaction?
2. What type of token was transferred?
3. What address were the transferred from?
4. What address were they transferred to?

Overview   Logs (1)   State   Comments

② Transaction Hash: 0x691f9001f243e6b5b94fa4aac2b9cb1cd0b08e941b7250ed5d89b742ce52d6e3 

② Status:  Success

② Block:  15655293 63776 Block Confirmations

② Timestamp: ① 8 days 21 hrs ago (Oct-01-2022 07:08:59 PM +UTC) | ① Confirmed within 5 secs

② From: 0xcc123b0dc18e4dc147a9ca83ce0f59ebb54ac983 

② Interacted With (To): Contract 0xdac17f958d2ee523a2206206994597c13d831ec7 (Tether: USDT Stablecoin)  

② ERC-20 Tokens Transferred:  From 0xcc123b0dc18e4...  To Ukraine Crypto Do...  For 5,000 (\$5,000.00)  Tether USD (USDT)

② Value: 0 Ether (\$0.00)

② Transaction Fee: 0.000379718139563686 Ether (\$0.49)

# Etherscan Transaction Exercise

<https://etherscan.io/>

Search for the following transaction ID:

**0x0332696b0dfc2b5a1a6ab4f6e1d4ca269da70bd  
3346078a68fea70f386888fa9**

1. What is the date and time of the transaction?
2. What type of token was transferred?
3. Which token was transferred (TokenID#)?
4. What address was the token transferred from?
5. What address was the token transferred to?
6. What smart contract address mediated the transaction?

Overview Logs (2) State Comments

② Transaction Hash:  0x0332696b0dfc2b5a1a6ab4f6e1d4ca269da70bd3346078a68fea70f386888fa9 

② Status:  Success

② Block:  14479338 1239753 Block Confirmations

② Timestamp:  ① 195 days 11 hrs ago (Mar-29-2022 05:56:17 AM +UTC) | ① Confirmed within 46 secs

💡 Transaction Action:

- ▶ Transfer of ② BoredApeYach... (BAYC) From 0xb83c2fd4c54df286bfffbc1c2d41e5ef46ae0407 
- ▶ 1 of Token ID [3771]

② From: 0xb83c2fd4c54df286bfffbc1c2d41e5ef46ae0407 

② Interacted With (To): Contract 0xbc4ca0eda7647a8ab7c2061c2e118a18a936f13d (Bored Ape Yacht Club: BAYC Token)  

② ERC-721 Tokens Transferred:

- ▶ From 0xb83c2fd4c54df2... To 0x8aec189750b04...  
For ERC-721 Token ID [3771] ② BoredApeYach... (BAYC) 

② Value: 0 Ether (\$0.00)

# ETHERSCAN AND NFTs

# Etherscan & NFTs

- Etherscan allows you to search for individual NFTs and will display their history of their sales as well as their transfers.
- A simple sale will include:
  - A transfer of ETH from the buyer to the seller.
  - A transfer of the NFT from the seller to the buyer.
- Transfers may become more complex if the sales or transfers are made through marketplaces or decentralized platforms.
- When NFTs are stolen no sale transaction takes place – the NFT is just transferred.

# Etherscan URLs

- A fast way to get information on specific tokens is to query Etherscan directly with a URL.
- The URL will take you directly to the information you need.
- Simply clicking on links may not get you to the information page that you are looking for (e.g. one containing an image of the NFT).
- You need to know:
  - The token contract address
  - The token ID number

**[<https://etherscan.io/token/>](https://etherscan.io/token/) <CONTRACT\_ADDRESS>/<TOKEN\_NUMERIC\_ID#>**

List of and links to all transactions conducted involving a specific token.

# Some Useful URLs

**[https://etherscan.io/token/<CONTRACT\\_ADDRESS>a=<TOKEN\\_NUMERIC\\_ID#>](https://etherscan.io/token/<CONTRACT_ADDRESS>a=<TOKEN_NUMERIC_ID#>)**

List of and links to all transactions conducted involving a specific token.

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**[https://etherscan.io/nft/<CONTRACT\\_ADDRESS>/<TOKEN\\_NUMERIC\\_ID#>](https://etherscan.io/nft/<CONTRACT_ADDRESS>/<TOKEN_NUMERIC_ID#>)**

Image of NFT, owner, transactions involving the NFT.

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**<https://etherscan.io/address/<ADDRESS>#tokentxnsErc721>**

List of all the **ERC-721** token transfers conducted by an address.

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**<https://etherscan.io/tokentxns-nft?a=<ADDRESS>>**

List of all the **ERC-721** token transfers conducted by an address.

# URL Exercise

- Search for Bored Ape token 1035
  - **Contract:**  
0xBC4CA0EdA7647A8aB7C2061c2E118A18a936f13D
  - **Numeric ID:** 1035
- What does it look like?
- How many transactions has it been involved in?
- Who owns it at the moment?
- What was the last sale price?

[https://etherscan.io/token/<CONTRACT\\_ADDRESS>?a=<TOKEN\\_NUMERIC\\_ID#>](https://etherscan.io/token/<CONTRACT_ADDRESS>?a=<TOKEN_NUMERIC_ID#>)

[https://etherscan.io/nft/<CONTRACT\\_ADDRESS>/<TOKEN\\_NUMERIC\\_ID#>](https://etherscan.io/nft/<CONTRACT_ADDRESS>/<TOKEN_NUMERIC_ID#>)

Sponsored: 🦍 Fairspin Birthday Tournament! [Play and win a new Tesla Model 3 and 7,000,000 TFS!](#)

Overview		Profile Summary <a href="#">[Edit]</a>	
TokenID:	1035 <a href="#">(i)</a>	Contract:	0xbc4ca0eda7647a8ab7c2061c2e118a18a936f13d
Transfers:	2	Official Site:	<a href="https://boredapeyachtclub.com/">https://boredapeyachtclub.com/</a> <a href="#">(i)</a>
		Social Profiles:	<a href="#">Twitter</a> <a href="#">Facebook</a> <a href="#">Reddit</a>



Transfers	Inventory	Info	NFT Trades	Contract <a href="#">(i)</a>	Comments	TokenID: 1035	<a href="#">(i)</a>	<a href="#">(i)</a>
A total of 2 transactions found								
Txn Hash	Method <a href="#">(i)</a>		Date Time (UTC)	From	To	TokenID	Details	
<a href="#">0x566c0ea7f96db0ba76...</a>	Transfer From		2021-05-01 4:05:16	<a href="#">adaugelli.eth</a>	<a href="#">0x4117f96a6c700eb2f84...</a>	1035	<a href="#">View NFT &gt;</a>	
<a href="#">0x15a0bd6ec5f8be1c55...</a>	Mint Ape		2021-05-01 3:33:18	Null Address: 0x000...000	<a href="#">adaugelli.eth</a>	1035	<a href="#">View NFT &gt;</a>	

Last Sale (Contract) [\(i\)](#)

85 ETH (\$110,792.40)

# URL Exercise

- Search for Autoglyph token 509
  - **Contract:**  
0xd4e4078ca3495DE5B1d4dB434BEbc5a986197782
  - **Numeric ID:** 509
- What does it look like?
- How many transactions has it been involved in?
- Who owns it at the moment?
- What was the last sale price?

[https://etherscan.io/token/<CONTRACT\\_ADDRESS>?a=<TOKEN\\_NUMERIC\\_ID#>](https://etherscan.io/token/<CONTRACT_ADDRESS>?a=<TOKEN_NUMERIC_ID#>)

[https://etherscan.io/nft/<CONTRACT\\_ADDRESS>/<TOKEN\\_NUMERIC\\_ID#>](https://etherscan.io/nft/<CONTRACT_ADDRESS>/<TOKEN_NUMERIC_ID#>)



Sponsored:  Fairspin Birthday Tournament! **Play and win a new Tesla Model 3 and 7,000,000 TFS!**

## Overview

TokenID: **509** ①

Transfers: **6**



## Autoglyph #509

 Autoglyphs ①

Min. Price ②

0.0053 ETH (\$6.87)

Last Sale (Item) ②

205 ETH (\$267,666.45)

Last Sale (Contract) ②

235 ETH (\$306,837.15)

### ≡ Details

② Owner:

0xef764bac8a438e7e498c2e5fccf0f174c3e3f8db [🔗](#)

② Contract Address:

0xd4e4078ca3495DE5B1d4dB434BEbc5a986197782 [🔗](#)

② Creator:

Autoglyphs: Deployer [🔗](#)

② Token ID:

509 [🔗](#)

② Token Standard:

ERC-721

② Marketplaces:



# You can now chat with the owner!

## Autoglyph #509

Autoglyphs 

Min. Price 

0.0053 ETH (\$6.87)

Last Sale (Item) 

205 ETH (\$267,666.45)

Chat with Owner  



 Blockscan | Chat

## Welcome to Blockscan Chat

A messaging platform for users to simply and instantly message each other wallet-to-wallet, powered by  Log-in With Ethereum



### Before You Continue...

-  Keep it **fun and friendly!** Let's treat each other with the kindness and respect befitting our community.
-  **Never share any confidential information** including passwords, private keys or seed phrases to anyone online.
-  Given access to your device, someone could log you in to another device. If uncertain, simply **log out from all sessions**.
-  Remember we're **off-chain**. Blockscan Chat (Built by Etherscan) is run on our servers and messages are not sent on any blockchain. Nor is there a guarantee that the recipient will see or reply to your message
-  Blockscan Chat is currently in Beta mode. Please feel free to DM any feedback to [Etherscan: Donate \(0x71C...76F\)](#).

## Login to Blockscan Chat

Connect with your web3 based wallet and sign-in



**MetaMask** 

Connect using a browser plugin or mobile app. Best supported on Chrome or Firefox.



**WalletConnect**

Connect by scanning a QR code with any supported mobile wallet.

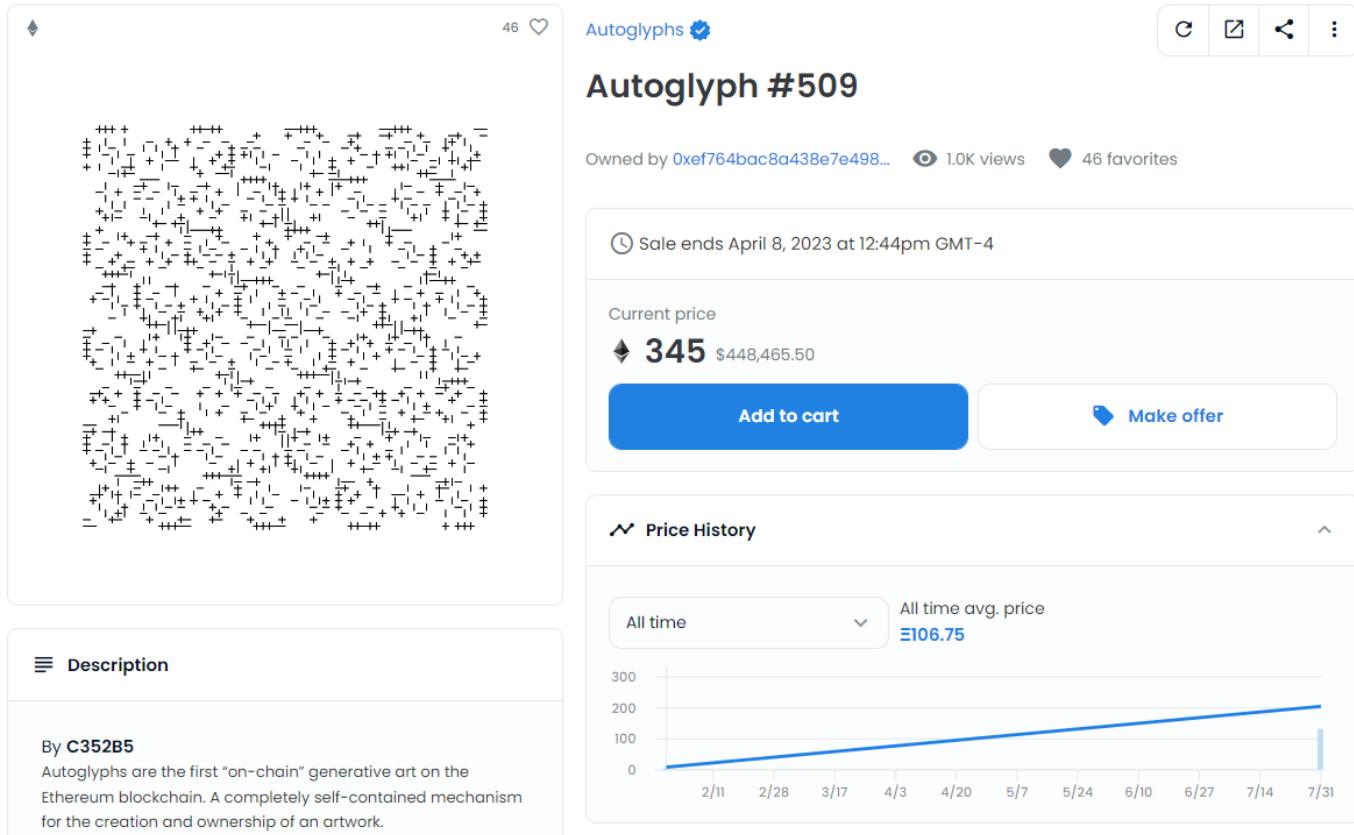


**Coinbase Wallet**

Connect with Coinbase Wallet browser extension or mobile app. Best supported on Chrome...

# You can use the same technique on some NFT platforms like OpenSea

<https://opensea.io/assets/ethereum/0xd4e4078ca3495de5b1d4db434bebc5a986197782/509>



The screenshot shows an NFT listing for "Autoglyph #509" on OpenSea. The main image is a generative artwork composed of a grid of symbols, including plus signs and asterisks. The listing details are as follows:

- Owner:** 0xf764bac8a438e7e498...
- Views:** 1.0K
- Favorites:** 46
- Sale ends:** April 8, 2023 at 12:44pm GMT-4
- Current price:** 345 (in ETH)
- Price History:** All time avg. price is 106.75.

The "Description" section notes that the artwork is "By C352B5" and describes it as the first "on-chain" generative art on the Ethereum blockchain, created using a completely self-contained mechanism.

# Useful Reference Materials

- European Cyber Crime Centre (EC3) (2022). Etheruem Guide - Follow the Ether, Europol.
- Ethereum Glossary: <https://info.etherscan.com/glossary/>
- Ethereum 2.0 Glossary:  
<https://info.etherscan.com/eth2glossary/>
- Etherscan FAQ: <https://info.etherscan.com/tag/faq/>
- Ethereum Documentation:  
<https://ethereum.org/en/developers/docs/>