

# Market Stats Tools

Tool	Description	Parameters	What it tells you
market_stats	Get aggregated market stats, including 24h DEX volume and total active addresses onchain.	quote: str (e.g., ADA, USD, EUR, ETH, BTC), ignore_cache: bool (default: False)	24h DEX trading volume and number of active on-chain addresses

# NFT Tools

Tool	Description	Parameters	What it tells you
nft_sale_history	Get a specific asset's sale history.	policy: str (required), name: str (optional), ignore_cache: bool (default: False)	Historical sale data for a specific NFT or collection
nft_stats	Get high-level stats on a certain NFT asset.	policy: str , name: str , ignore_cache: bool (default: False)	Floor price, sales volume, listings, and other key metrics of a specific NFT
nft_traits	Get a specific NFT's traits and trait prices.	policy: str , name: str , prices: str (0 or 1, default: 1), ignore_cache: bool (default: False)	Shows all traits of the NFT and optionally the price of NFTs with similar traits

Tool	Description	Parameters	What it tells you
collection_assets	Get all NFTs from a collection with sorting and filtering options.	policy: str , sortBy: str , order: str , search: str , onSale: str , page: int , perPage: int , **traits , ignore_cache: bool (default: False)	Fetches all NFTs in a collection with options to sort/filter by price, rank, sale status, or traits
holder_distribution	Get distribution of NFTs within a collection by number of NFTs held.	policy: str , ignore_cache: bool (default: False)	Provides a breakdown of how many wallets hold how many NFTs from the collection (e.g., whales vs. small holders)
nft_top_holders	Get the top NFT holders in a collection, including listed and staked assets.	policy: str (required), page: int (default: 1), perPage: int (default: 10), excludeExchanges: int (0 or 1), ignore_cache: bool (default: False)	Shows wallets holding the most NFTs in a given collection
nft_holder_trend	Get daily trended holder count for a collection, including	policy: str (required), timeframe: str (default: "30d"),	Displays how the number of holders has changed over time

Tool	Description	Parameters	What it tells you
	listed and staked assets.	ignore_cache: bool (default: False)	
nft_collection_info	Get basic info about an NFT collection such as name, socials, and logo.	policy: str (required), ignore_cache: bool (default: False)	Fetches basic collection metadata like name, logo URL, and social media links
number_of_active_listing	Get the total number of active listings for a collection.	policy: str (required), ignore_cache: bool (default: False)	Returns the total number of active listings for a collection, helping you see market activity at a glance
nft_listings_depth	Retrieves the <b>cumulative number</b> of listings at ascending price points from floor upward.	policy: str (required), items: int (default: 500, max: 1000), ignore_cache: bool (default: False)	Returns cumulative listing counts by price — e.g., "100 NFTs listed under 100 ADA", "250 under 150 ADA", etc.
nft_active_listings	Get a paginated, sortable list of currently active NFT	policy: str (required), sortBy: str (default: "price"), order: str (default: "asc"), page: int (default: 1),	Fetches active listings for a collection with options to sort by

Tool	Description	Parameters	What it tells you
	listings in a collection.	perPage: int (default: 100), ignore_cache: bool (default: False)	price or time, and paginate through results
nft_listings_trended	Get trended number of listings and floor price over time.	policy: str (required), interval: str (e.g., 1d , 1w ), numIntervals: int (optional), ignore_cache: bool (default: False)	Displays how listings and floor price have changed over a specified time period
nft_floor_price_ohlcv	Get OHLCV (open, high, low, close, volume) data for NFT floor price.	policy: str (required), interval: str (e.g., 1d , 1w ), numIntervals: int (optional), quote: str (default: ada ), ignore_cache: bool (default: False)	Provides OHLCV data for the floor price of an NFT collection over time
nft_collection_stats	Get basic statistics about an NFT collection, such as floor price, volume, and supply.	policy: str (required), ignore_cache: bool (default: False)	Displays key statistics for an NFT collection (e.g., floor price, sales volume, total supply)
nft_collection_stats_extended	Get extended statistics about an NFT collection with	policy: str (required), timeframe: str (optional, default: "24h", options: "24h",	Extended collection stats including floor price,

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	percent changes.	"7d", "30d"), ignore_cache: bool (optional, default: False)	volume, supply, and percent changes over a given timeframe.
nft_collection_trades	Get individual trades for a particular collection.	policy: str (required), min_amount: int (required), from_timestamp: int (required), timeframe: str (optional, default: "30d", options: "1h", "4h", "24h", "7d", "30d", "1y"), sort_by: str (optional, default: "time"), order: str (optional, default: "desc"), page: int (optional, default: 1), per_page: int (optional, default: 100), ignore_cache: bool (optional, default: False)	Returns individual trades for the collection with options to filter by value, timestamp, and sort the results.
nft_collection_trades_stats	Get trading stats for a particular collection.	policy: str (required), timeframe: str (optional, default: "24h", options: "1h", "4h", "24h", "7d", "30d", "all"), ignore_cache: bool	Provides trading statistics like volume, sales, and the number of buyers/sellers

Tool	Description	Parameters	What it tells you
		(optional, default: False)	for the collection.
nft_collection_traits_price	Get prices of traits within a collection.	policy: str (required), name: str (optional), ignore_cache: bool (optional, default: False)	Displays trait prices within a collection and optionally filters by a specific NFT name.
nft_collection_metadata_rarity	Get the rarity of metadata attributes within a collection.	policy: str (required), ignore_cache: bool (optional, default: False)	Provides rarity details for metadata attributes in the collection.
nft_rarity_rank	Get the rarity rank of a specific NFT in a collection.	policy: str (required), name: str (required), ignore_cache: bool (optional, default: False)	Returns the rarity rank of the specified NFT within the given collection.
nft_volume_trended	Get trended volume and sales data for a collection.	policy: str (required), interval: str (required), numIntervals: int (optional), ignore_cache: bool (optional, default: False)	Provides trended volume and number of sales for a particular NFT collection.

Tool	Description	Parameters	What it tells you
nft_market_stats	Get high-level market stats across all NFTs.	timeframe: str (optional, default: "24h"), ignore_cache: bool (optional, default: False)	Returns high-level market stats across the entire NFT market.
nft_market_stats_extended	Get detailed NFT market stats with percentage changes.	timeframe: str (optional, default: "24h"), ignore_cache: bool (optional, default: False)	Returns detailed market stats including percentage changes.
nft_market_volume_trended	Get trended volume data for the entire NFT market.	timeframe: str (optional, default: "30d"), ignore_cache: bool (optional, default: False)	Provides trended volume for the entire NFT market.
nft_marketplace_stats	Get stats for a specific marketplace over a time period.	timeframe: str (optional, default: "7d"), marketplace: str (optional), lastDay: int (optional), ignore_cache: bool (optional, default: False)	Returns high-level NFT marketplace stats optionally filtered by marketplace.
nft_top_rankings	Get top NFT rankings based on total market cap, 24-hour volume, or 24-	ranking: str (required - options: marketCap, volume, gainers, losers), items: int (default: 25, max: 100),	Lists the top NFT collections based on the selected ranking criteria

Tool	Description	Parameters	What it tells you
	hour top price gainers/losers.	ignore_cache: bool (default: False)	
nft_top_volume_collections	Get top NFT collections by trading volume over a specified timeframe.	timeframe: str (default: "24h", options: 1h, 4h, 24h, 7d, 30d, all), page: int (default: 1), perPage: int (default: 10, max: 100), ignore_cache: bool (default: False)	Shows the top NFT collections by trading volume for the selected time period
nft_top_volume_collections_extended	Get top NFT collections by trading volume with percentage change metrics.	timeframe: str (default: "24h", options: 1h, 4h, 24h, 7d, 30d, all), page: int (default: 1), perPage: int (default: 10, max: 100), ignore_cache: bool (default: False)	Provides top collections by volume with additional percentage change metrics

## Token Tools

Tool	Description	Parameters	What it tells you
token_links	Get a specific token's social links, if they have been provided to TapTools.	unit: str (required), ignore_cache: bool (default: False)	Shows social media links and other external resources for a specified token
token_market_cap	Get a specific token's supply and market cap information.	unit: str (required), ignore_cache: bool (default: False)	Provides supply statistics and market capitalization data for a specific token

# Token Analytics

These tools analyze native tokens on Cardano. Unlike Ethereum where tokens are smart contracts, Cardano's tokens exist natively on the blockchain.

Tool	Description	Parameters	What it tells you
token_holders_analysis	Get top holders of a specific token with distribution analysis	token_identifier, holders_count=20, include_distribution=True	Who owns the token, how concentrated ownership is, and wealth distribution patterns
token_database_lookup	Get the complete Cardano token database	(no parameters)	Reference information for all known tokens and their policy IDs
token_price_indicators	Analyze token price indicators with technical analysis	token_identifier, interval="1d", indicator="ma"	Technical analysis indicators like moving averages, RSI, MACD, and Bollinger Bands

# Token Price Tools

Tool	Description	Parameters	What it tells you
token_price_ohlcv	Get a specific token's trended (open, high, low, close, volume) price data.	interval: str (required, options: 3m, 5m, 15m, 30m, 1h, 2h, 4h, 12h, 1d, 3d, 1w, 1M), unit: str (optional), onchainID: str (optional), numIntervals: int (optional), ignore_cache: bool (default: False)	Historical price data with candlestick format for charting and analysis

Tool	Description	Parameters	What it tells you
token_prices	Get prices for a list of tokens (max 100).	<code>tokens: list[str]</code> (required, max 100), <code>ignore_cache: bool</code> (default: False)	Current prices for multiple tokens aggregated across all supported DEXs
token_price_percent_change	Get a specific token's price percent change over various timeframes.	<code>unit: str</code> (required), <code>timeframes: str</code> (optional, options: 5m, 1h, 4h, 6h, 24h, 7d, 30d, 60d, 90d), <code>ignore_cache: bool</code> (default: False)	Price percentage changes over specified timeframes
quote_price	Get current ADA quote price (e.g., ADA/USD).	<code>quote: str</code> (optional, default: USD), <code>ignore_cache: bool</code> (default: False)	Current ADA price against specified quote currency
available_quote_currencies	Get all currently available quote currencies.	<code>ignore_cache: bool</code> (default: False)	List of all supported quote currencies

## Token Liquidity Tools

Tool	Description	Parameters	What it tells you
token_liquidity_pools	Get a specific token's active liquidity pools.	<code>unit: str</code> (optional), <code>onchainID: str</code> (optional), <code>adaOnly: int</code> (optional, 0 or 1), <code>ignore_cache: bool</code> (default: False)	Active liquidity pools for a token, including TVL and exchange information

# Token Ranking Tools

Tool	Description	Parameters	What it tells you
top_liquidity_tokens	Get tokens ranked by their DEX liquidity.	page: int (optional, default: 1), perPage: int (optional, default: 10, max: 100), ignore_cache: bool (default: False)	Tokens ranked by total liquidity across all DEXs
top_market_cap_tokens	Get tokens with top market cap in descending order.	type: str (optional, options: mcap, fdv), page: int (optional, default: 1), perPage: int (optional, default: 20, max: 100), ignore_cache: bool (default: False)	Tokens ranked by market capitalization or fully diluted value
top_volume_tokens	Get tokens with top volume for a given timeframe.	timeframe: str (optional, options: 1h, 4h, 12h, 24h, 7d, 30d, 180d, 1y, all, default: 24h), page: int (optional, default: 1), perPage: int (optional, default: 20, max: 100), ignore_cache: bool (default: False)	Tokens ranked by trading volume over specified timeframe

# Token Trading Tools

Tool	Description	Parameters	What it tells you
token_trades	Get token trades across the entire DEX market.	timeframe: str (optional, options: 1h, 4h, 24h, 7d, 30d, 90d, 180d, 1y, all, default: 30d), sortBy: str (optional, options: amount, time, default: amount), order: str (optional, options: asc, desc, default: desc), unit: str (optional), minAmount: int (optional),	Individual trade data including buy/sell, amounts, prices, and exchanges

Tool	Description	Parameters	What it tells you
		from_timestamp: int (optional), page: int (optional, default: 1), perPage: int (optional, default: 10, max: 100), ignore_cache: bool (default: False)	
trading_stats	Get aggregated trading stats for a particular token.	unit: str (required), timeframe: str (optional, options: 15m, 1h, 4h, 12h, 24h, 7d, 30d, 90d, 180d, 1y, all, default: 24h), ignore_cache: bool (default: False)	Aggregated statistics including buy/sell volume, number of buyers/sellers, and trade counts

## Asset and Address Tools

Tool	Description	Parameters	What it tells you
asset_supply	Get onchain supply for a token.	unit: str (required), ignore_cache: bool (default: False)	Token unit (policy + hex name) supply information
address_info	Get address payment credential and stake address, along with its current aggregate balance.	address: str (optional), paymentCred: str (optional), ignore_cache: bool (default: False)	Payment credentials, stake address, lovelace balance, and multi-asset holdings (either address or paymentCred must be provided)
address_utxos	Get current UTxOs at an address/payment credential.	address: str (optional), paymentCred: str (optional), page: int (default: 1), perPage: int (default: 100, max: 100), ignore_cache: bool (default: False)	List of UTxOs with assets at the specified address (either address or paymentCred must be provided)

Tool	Description	Parameters	What it tells you
transaction_utxos	Get UTxOs from a specific transaction.	hash: str (required), ignore_cache: bool (default: False)	Transaction inputs and outputs with asset details

# Portfolio Tools

Tool	Description	Parameters	What it tells you
get_portfolio_positions	Get wallet's current portfolio positions with supporting market data.	address: str (required), ignore_cache: bool (default: False)	Current positions in fungible tokens (FT), LP tokens, and NFTs with market data
get_token_trade_history	Get the token trade history for a particular wallet.	address: str (required), unit: str (optional), page: int (default: 1), perPage: int (default: 100, max: 100), ignore_cache: bool (default: False)	Historical token trades for the wallet, optionally filtered by token unit
get_portfolio_trended_value	Get historical trended value of an address in 4hr intervals.	address: str (required), timeframe: str (default: "30d", options: 24h, 7d, 30d, 90d, 180d, 1y, all), quote: str (default: "ADA", options: ADA, USD, EUR, ETH, BTC), ignore_cache: bool (default: False)	Historical portfolio value trends in 4-hour intervals

# Blockchain Data Tools

Tool	Description	Parameters	What it tells you
get_token_by_id	Returns details of a given token by its address.	<code>id: str (required), ignore_cache: bool (default: False)</code>	Token details including name, policy, supply, and other metadata
get_block	Returns a specific block using either the number of the block or its timestamp.	<code>number: int (optional), timestamp: int (optional), ignore_cache: bool (default: False)</code>	Block information (either number or timestamp must be provided)
get_events	List of events occurred in a range of blocks.	<code>fromBlock: int (required), toBlock: int (required), limit: int (default: 1000, max: 1000), ignore_cache: bool (default: False)</code>	Events that occurred within the specified block range
get_dex	Return details of a given DEX by its factory address or alternative id.	<code>id: str (required), ignore_cache: bool (default: False)</code>	DEX information including name, fees, volume, and pairs
get_latest_block	Returns the latest block processed in the blockchain/DEX.	<code>ignore_cache: bool (default: False)</code>	Latest block number and timestamp
get_pair_by_id	Returns pair details (aka pool) by its address.	<code>id: str (required), ignore_cache: bool (default: False)</code>	Pair/pool details including liquidity, reserves, and pricing information

# Account Analytics

These tools help you analyze stake accounts, which are Cardano's way of tracking ADA delegation and rewards.

Tool	Description	Parameters	What it tells you
account_overview	Get a comprehensive summary of a Cardano stake account	stake_address, include_rewards=True, include_delegations=True, include_assets=False, summary_only=False	How much ADA is staked, which pool it's delegated to, and cumulative rewards
account_rewards_analysis	Analyze rewards distribution and performance	stake_address, epochs=30	How consistent rewards are, which pools performed best, and reward trends
account_delegation_tracker	Track delegation changes and rewards	stake_address, delegations_limit=10	When and where stake was delegated and how those choices affected rewards
account_history	View historical activities (rewards, delegations, registrations)	stake_address, history_type="all", limit=50	All past activities including registrations, delegations, and rewards
account_assets_summary	View all assets held across	stake_address, include_details=True	All native tokens owned

Tool	Description	Parameters	What it tells you
	addresses		across all addresses in this stake account

## Address Analytics

These tools analyze individual Cardano addresses, which hold ADA and native tokens. Understanding UTXOs is key here - they're like individual "bills" or "coins" at an address.

Tool	Description	Parameters	What it tells you
address_explorer	Explore address details, balances and activity	address, include_utxos=True, include_transactions=True, transactions_limit=10	Full address overview including ADA balance, native tokens, UTXOs, and recent transactions
address_assets_tracker	Track assets held at an address with valuation	address, include_valuation=True, include_metadata=True	Detailed breakdown of all tokens at an address with metadata and valuation
address_utxo_browser	View all UTXOs at an address with detailed information	address, include_assets=True, include_datum=True, lazy_load=False	Examine each individual UTXO - useful for debugging smart contract interactions
address_transaction_history	Get transactions	address, limit=20, include_details=True	All transaction activity with

Tool	Description	Parameters	What it tells you
	for an address with filtering		filtering options for date ranges and transaction types

## DeFi Analytics

These tools focus on decentralized finance activities, particularly P2P lending on platforms like Lenfi and Levvy.

Tool	Description	Parameters	What it tells you
loan_offers_analysis	Analyze P2P loan offers for a specific token	token_identifier, include="collateral,debt", sort_by="time", order="desc", offers_count=50	Available loan terms, interest rates, and market demand for borrowing/lending a token
active_loans_analysis	Analyze active P2P loans with risk assessment	token_identifier, include="collateral,debt", sort_by="time", order="desc", loans_count=100	Risk assessment of existing loans, liquidation risks, collateralization levels, and market trends