

cryptoInfo JS

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1 Objective and functionalities

The objective of this application is to learn some new ideas for future javascript projects, using cmd, API's, etc. The functionalities of this application is to check the price, rank and view historical info for cryptocurrencies, the program also allows the user to change the requested API Key from nomics.com.

2 Used Libraries

Commander: <https://www.npmjs.com/package/commander> allows us to manage the cmd with commands.

Colors : <https://www.npmjs.com/package/colors> change cmd text colors.

Axios : <https://www.npmjs.com/package/axios> send HTTP requests, used to send the request with the API key.

Inquirer: <https://www.npmjs.com/package/inquirer>: nice cmd format

3 Application running

First screen:

```
PS H:\Programming\Javascript\Projetos\Crypto Price\bin> node --experimental-json-modules coindex.mjs
(node:1780) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
Usage: coindex [options] [command]

Options:
  -V, --version      output the version number
  -h, --help         display help for command

Commands:
  key                Manage API Key -- https://nomics.com
  check              Check Coin Price Info
  historical          Check coins historical info
  help [command]     display help for command
PS H:\Programming\Javascript\Projetos\Crypto Price\bin> █
```

Key management:

```
PS H:\Programming\Javascript\Projetos\Crypto Price\bin> node --experimental-json-modules coindex.mjs key
(node:13948) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
(node:15184) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
Usage: coindex-key [options] [command]

Options:
  -h, --help      display help for command

Commands:
  set             Set API Key -- Get at https://nomics.com
  show            Show API Key
  remove          Remove API Key
  help [command] display help for command
PS H:\Programming\Javascript\Projetos\Crypto Price\bin> █
```

Key show:

```
PS H:\Programming\Javascript\Projetos\Crypto Price\bin> node --experimental-json-modules coindex.mjs key show
(node:11960) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
(node:16980) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
Current API Key: 123123123aaBSDSADAS █
```

Key set:

```
PS H:\Programming\Javascript\Projetos\Crypto Price\bin> node --experimental-json-modules coindex.mjs key set
(node:7332) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
(node:13044) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
? Enter API Key https://nomics.com 123123123aaBSDSADAS █
```

Check price main screen:

```
PS H:\Programming\Javascript\Projetos\Crypto Price\bin> node --experimental-json-modules coindex.mjs check
(node:7232) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
(node:11544) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
Usage: coindex-check [options] [command]

Options:
  -h, --help      display help for command

Commands:
  price [options] Check price of coins
  help [command]  display help for command
PS H:\Programming\Javascript\Projetos\Crypto Price\bin> █
```

Check price default:

```
PS H:\Programming\Javascript\Projetos\Crypto Price\bin> node --experimental-json-modules coindex.mjs check price
(node:3560) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
(node:11412) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
Coin: BTC (Bitcoin) | Price: $35,665.29 | Rank: 1
Coin: ETH (Ethereum) | Price: $2,166.95 | Rank: 2
Coin: XRP (Ripple) | Price: $0.79 | Rank: 8
```

Check price with options:

```
PS H:\Programming\Javascript\Projetos\Crypto Price\bin> node --experimental-json-modules coindex.mjs check price --coin DOGE
(node:12176) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
(node:7940) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
Coin: DOGE (Dogecoin) | Price: $0.29 | Rank: 7

PS H:\Programming\Javascript\Projetos\Crypto Price\bin> node --experimental-json-modules coindex.mjs check price --coin DOGE --cur EUR
(node:6032) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
(node:10960) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
Coin: DOGE (Dogecoin) | Price: €0.24 | Rank: 7
```

First trade data default:

```
PS H:\Programming\Javascript\Projetos\Crypto Price\bin> node --experimental-json-modules coindex.mjs historical First_Trade_Date
(node:1456) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
(node:10468) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
Coin: BTC (Bitcoin) | First trade in: 2011-08-18T00:00:00Z
Coin: ETH (Ethereum) | First trade in: 2015-08-07T00:00:00Z
Coin: XRP (Ripple) | First trade in: 2013-05-09T00:00:00Z
```

First trade data with coin option:

```
PS H:\Programming\Javascript\Projetos\Crypto Price\bin> node --experimental-json-modules coindex.mjs historical First_Trade_Date --coin DOGE
(node:12080) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
(node:3352) ExperimentalWarning: Importing JSON modules is an experimental feature. This feature could change at any time
(Use `node --trace-warnings ...` to show where the warning was created)
Coin: DOGE (Dogecoin) | First trade in: 2014-01-21T00:00:00Z
```

4 Project Idea and reference

https://www.youtube.com/watch?v=-60AHsde15E&list=PLQ_99qrIfCg1qbb3F20xeMUQcko0ZPEaS&index=13

5 Future updates

- New price info, like variations from the last 1/7/30 days
- Change some parameters to constants