

# hleofxquotes Program used with Moneydance Cryptocurrencies and Market Indices v5

(Ref PDF “hleofxquotes Program used with Moneydance” for How To use Program & Security History Loader)

Always do a **FILE- EXPORT BACKUP** before following the procedures below.

Tested with Security History Loader Build 2041

## OVERVIEW

### Cryptocurrencies

Moneydance is designed to handle normal currencies exchange rates but can also handle Cryptocurrencies. The hleofxquotes program can download Cryptocurrencies in a form that can be imported into Moneydance via Mike Brays Security History Loader. The process is outlined below, see [here](#).

| Exchange Rates | 1/x      | The 1/X inverts the listed values.  |
|----------------|----------|---|
| Bitcoin        | 0.000157 | In the screen shot the setting is such that one unit of the Moneydances Base Currency = X units in the denomination displayed. The inverse would give one unit of the denomination displayed = X units in the Base Currency.<br><br>Moneydance does not indicate the selection 1/X is making. |
| Ethereum       | 0.00193  |   |
| Euro           | 1.13335  |   |
| Ripple         | 1.935381 |   |
| US Dollar      | 1.354224 |   |

### Market Indices

Moneydance isn't designed to track Market Indices, such as the Dow Jones Industrial Average, FTSE 100 or Canadian S&P/TSX. However, it is possible to use the hleofxquotes Program to obtain data and Mike Brays Security History Loader to import that data into Moneydance and display this data thus. See [here](#)

| Stock Prices                                |                  |
|---|------------------|
| .Canadian S&P/TSX Comps Index               | INDEX: 15,668.93 |
| .Dow Jones Industrial Average               | INDEX: 24,311.19 |
| .FTSE 100                                   | INDEX: 7,502.21  |
| .FTSE 350                                   | INDEX: 4,175.55  |
| .NASDAQ NMS COMPOSITE INDEX                 | INDEX: 7,119.80  |
| AQR Style Premia UCITS Fund K               | GBP: 109.35      |
| Aberdeen UK Property Feeder Trust I Inc     | GBP: 1.52        |
| Algebris Financial Credit Fund Class ID Inc | GBP: 114.78      |




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# CRYPTOCURRENCIES

## Setting up Cryptocurrencies in Moneydance as a currency.

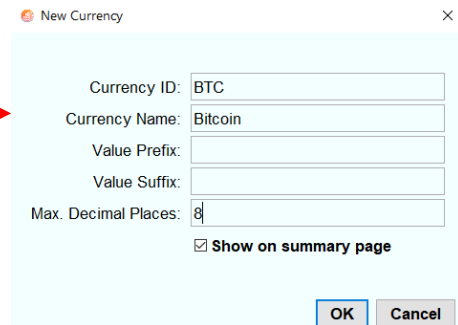
In the example the cryptocurrency Bitcoin is added.

TOOLS – CURRENCIES then click “+” and fill in window thus. 

Note the Symbol for the cryptocurrency must match the characters of the symbol given in the table [here](#) up to the “-”

Example for Ethereum use ETH and for DigitalCash use DASH

Click OK.



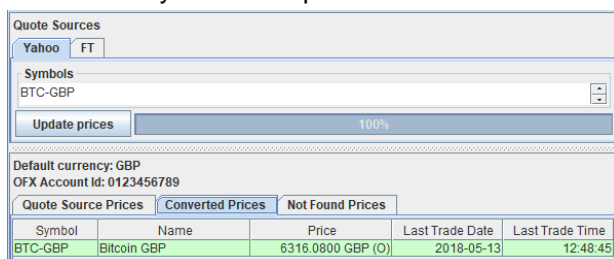
New Currency dialog box with fields: Currency ID: BTC, Currency Name: Bitcoin, Value Prefix: (empty), Value Suffix: (empty), Max. Decimal Places: 8. There is a checkbox for 'Show on summary page' which is checked. OK and Cancel buttons are at the bottom right.

## Entering the cryptocurrency symbols into the Yahoo Symbols windows Tab.

The format for the symbol is “cryptocurrency symbols – Currency” e.g. BTC-GBP see list of symbols [here](#)

The returned value gives the exchange rate of one Bitcoin = X GBP in the example one Bitcoin = 6316.08 GBP

Enter a list of symbols one per line.



Quote Sources window. Yahoo tab selected. Symbols: BTC-GBP. Update prices button. Default currency: GBP. OFX Account Id: 0123456789. Quote Source Prices, Converted Prices, Not Found Prices tabs. Table with columns: Symbol, Name, Price, Last Trade Date, Last Trade Time. Data row: BTC-GBP, Bitcoin GBP, 6316.0800 GBP (O), 2018-05-13, 12:48:45.

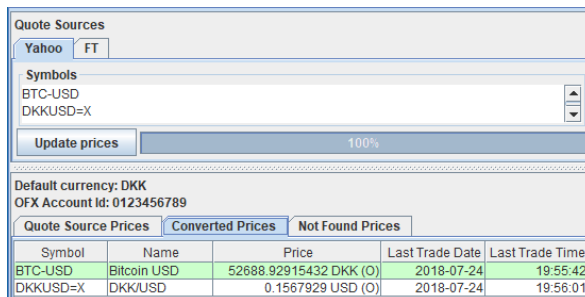
## Cryptocurrency exchange rates not supported by Yahoo

In situations where Yahoo does not support an exchange rate to a specific currency then the hleofxquotes program can do the conversion. For, example Yahoo does not provide cryptocurrency exchange rates to the Danish Krone.

To overcome this simply enter the “cryptocurrency symbols – Currency” for a currency that is supported see [here](#) and add an exchange rate attribute on the next line.

In the example of Bitcoin to return one Bitcoin = X DKK use the symbols

BTC-USD  
DKKUSD=X



Quote Sources window. Yahoo tab selected. Symbols: BTC-USD, DKKUSD=X. Update prices button. Default currency: DKK. OFX Account Id: 0123456789. Quote Source Prices, Converted Prices, Not Found Prices tabs. Table with columns: Symbol, Name, Price, Last Trade Date, Last Trade Time. Data rows: BTC-USD, Bitcoin USD, 52688.92915432 DKK (O), 2018-07-24, 19:55:42; DKKUSD=X, DKK/USD, 0.1567929 USD (O), 2018-07-24, 19:56:01.

Run the program “Update Prices” and save a CSV file.

## Import Cryptocurrency data using Security History Loader

MoneyDance Load Security History - Build 2038

| Select                   | Ticker  | Date       | Name                          | Last Update | Last Price         | New Price      |
|--------------------------|---------|------------|-------------------------------|-------------|--------------------|----------------|
| <input type="checkbox"/> | AAPL    | 24/07/2018 | Apply Inc                     | 24/07/2018  | £193.00000000      | 193.00000000   |
| <input type="checkbox"/> | BTC-GBP | 25/07/2018 | Bitcoin                       | 25/07/2018  | £6175.28000000     | 6175.28000000  |
| <input type="checkbox"/> | LLOY.L  | 25/07/2018 | Lloyds bank                   | 25/07/2018  | £62.40000000       | 62.40000000    |
| <input type="checkbox"/> | ^DJI    | 24/07/2018 | .Dow Jones Industrial Average | 27/06/2018  | INDEX7531.49000000 | 25241.94000000 |
| <input type="checkbox"/> | ^FTSE   | 25/07/2018 | .FTSE 100                     | 27/06/2018  | INDEX4202.97000000 | 7669.83000000  |
| <input type="checkbox"/> | BTC     | 25/07/2018 | Cur:Bitcoin                   | 00/00/0000  | 1.00000000         | 0.00016194     |
| <input type="checkbox"/> | ETH     | 25/07/2018 | Cur:Ethereum                  | 01/07/2018  | 0.00250215         | 0.00281953     |
| <input type="checkbox"/> | EUR     | 25/07/2018 | Cur:Euro                      | 27/06/2018  | 1.13300000         | 1.12537841     |
| <input type="checkbox"/> | USD     | 25/07/2018 | Cur:US Dollar                 | 27/06/2018  | 1.32070000         | 1.31663836     |
| <input type="checkbox"/> | XRP     | 25/07/2018 | Cur:Ripple                    | 01/07/2018  | 2.64170781         | 2.91600475     |

Use the security History Loader in the normal way to load your Cryptocurrency exchange rates alongside, Securities, Normal Exchange Rates and Market Indices.

See PDF “hleofxquotes Program used with Moneydance” for how to use the Security History Loader extension.

## Setting up Cryptocurrencies in Moneydance as an investment

To track a cryptocurrency as an investment the cryptocurrency must be set up as a security.

In the example the Moneydance Base Currency is GBP.

Cryptocurrency Bitcoin is added as a security.

TOOLS – SECURITIES then click “+” and fill in window thus.

Note the Symbol for the security must match the characters of the symbol given in the cryptocurrency table [here](#)

Example for a Moneydance Base Currency of GBP for Ethereum use ETH-GBP and for DigitalCash with a Moneydance Base Currency of USD use DASH-USD

Click OK.

### Adding an Investment Account called Cryptocurrency.

Create new investment account – “Cryptocurrency” in the normal way.

1. Click on another account in the side bar then back to Cryptocurrency.  
Buy the security in the normal way by  
First Security click Yes, next time ACTIONS – ADD SECURITY.

2. Fill in the window thus

3. In this example 0.01 Shares at a Price of £6318 will be purchased equal to an Amount of £63.18.

ACTION – NEW TRANSACTION and fill in transaction line thus.

| Portfolio View <b>Register</b> Bank Register Securities Detail Actions |             |             |         |          |              |           |                 |              |
|--|-------------|-------------|---------|----------|--------------|-----------|-----------------|--------------|
| All  | Unconfirmed | Uncleared   | 30 Days | 60 Days  | This Month   | This Year | New Transaction |              |
| Date   | Action      | Description | C       | Security | Transfer     | Shares    | Amount          | Cash Balance |
| Tax Date   | Cheque#     | Memo        |         | Category | Fee Category | Price     | Fee             |              |
| 01/07/2018   | Buy         |             |         | Bitcoin  |              | 0.01      | 63.18           | -63.18       |
|  |             |             |         |          |              | 6318      |                 |              |

The Security Detail window will then look like this.

| Securities Detail    |  |
|----------------------|--|
| Bitcoin              |  |
| Shares: 0.01         |  |
| Price: 6318 GBP      |  |
| Current Value: 63.18 |  |
| Cost Basis: 63.18    |  |
| Cost/Share: 6,318.00 |  |
| % Change: 0          |  |

4. Repeat steps 1 to 4 for each Cryptocurrency Security you wish to add.

### Obtaining cryptocurrency quotes.

If you have already followed the section “Entering the cryptocurrency symbols into the Yahoo Symbols windows Tab” then there is no more to be done. If not follow that section [here](#).

### Import Cryptocurrency data using Security History Loader

MoneyDance Load Security History - Build 2038

| Select                   | Ticker  | Date       | Name                         | Last Update | Last Price         | New Price      |
|--------------------------|---------|------------|------------------------------|-------------|--------------------|----------------|
| <input type="checkbox"/> | AAPL    | 24/07/2018 | Apple Inc                    | 24/07/2018  | £193.00000000      | 193.00000000   |
| <input type="checkbox"/> | BTC-GBP | 25/07/2018 | Bitcoin                      | 25/07/2018  | £6175.28000000     | 6175.28000000  |
| <input type="checkbox"/> | LLOY.L  | 25/07/2018 | Lloyds bank                  | 25/07/2018  | £62.40000000       | 62.40000000    |
| <input type="checkbox"/> | ADJI    | 24/07/2018 | Dow Jones Industrial Average | 27/06/2018  | INDEX7531.49000000 | 25241.94000000 |
| <input type="checkbox"/> | ^FTSE   | 25/07/2018 | FTSE 100                     | 27/06/2018  | INDEX4202.97000000 | 7669.83000000  |
| <input type="checkbox"/> | BTC     | 25/07/2018 | Cur.Bitcoin                  | 00/00/0000  | 1.00000000         | 0.00016194     |
| <input type="checkbox"/> | ETH     | 25/07/2018 | Cur.Ethereum                 | 01/07/2018  | 0.00250215         | 0.00281953     |
| <input type="checkbox"/> | EUR     | 25/07/2018 | Cur.Euro                     | 27/06/2018  | 1.13300000         | 1.12537841     |
| <input type="checkbox"/> | USD     | 25/07/2018 | Cur.US Dollar                | 27/06/2018  | 1.32070000         | 1.31663836     |
| <input type="checkbox"/> | XRP     | 25/07/2018 | Cur.Ripple                   | 01/07/2018  | 2.64170781         | 2.91600475     |

Use the security History Loader in the normal way to load your Cryptocurrency exchange rates alongside, Securities, Normal Exchange Rates and Market Indices.

See PDF “hleofxquotes Program used with Moneydance” for how to use the Security History Loader extension.

New Security

Security ID: BTC-GBP

Security Name: Bitcoin

Ticker Symbol: BTC-GBP

Price: 1

Value Prefix:

Value Suffix:

Max. Decimal Places: 8

☒ Show on summary page

OK Cancel

NOTE: When using Moneydance Base Currency not supported by Yahoo in terms of returning Cryptocurrency data see [here](#). The security symbol used in Moneydance should be that used to obtain the cryptocurrency data. In the referenced example [here](#) BTC-USD would be used as the Bitcoin Security Symbol.

Account Info: Cryptocurrency:

Account: British Pound

Security: Bitcoin New Security

Broker:

Phone Number:

Cost Basis: ☒ Avg. Cost ☐ Lot Matching

Type: Other

Subtype: Cryptocurrency Edit

Comments:

OK Cancel

## Cryptocurrency Table with hyperlinks

|                  |                          |                          |                          |                          |
|------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Bitcoin          | <a href="#">BTC-USD</a>  | <a href="#">BTC-GBP</a>  | <a href="#">BTC-CAD</a>  | <a href="#">BTC-EUR</a>  |
| Ethereum         | <a href="#">ETH-USD</a>  | <a href="#">ETH-GBP</a>  | <a href="#">ETH-CAD</a>  | <a href="#">ETH-EUR</a>  |
| Ripple           | <a href="#">XRP-USD</a>  | <a href="#">XRP-GBP</a>  | <a href="#">XRP-CAD</a>  | <a href="#">XRP-EUR</a>  |
| Bitcoin Cash BCC | <a href="#">BCH-USD</a>  | <a href="#">BCH-GBP</a>  | <a href="#">BCH-CAD</a>  | <a href="#">BCH-EUR</a>  |
| EOS              | <a href="#">EOS-USD</a>  | <a href="#">EOS-GBP</a>  | <a href="#">EOS-CAD</a>  | <a href="#">EOS-EUR</a>  |
| Litecoin         | <a href="#">LTC-USD</a>  | <a href="#">LTC-GBP</a>  | <a href="#">LTC-CAD</a>  | <a href="#">LTC-EUR</a>  |
| Tronix           | <a href="#">TRX-USD</a>  | <a href="#">TRX-GBP</a>  | <a href="#">TRX-CAD</a>  | <a href="#">TRX-EUR</a>  |
| Cardano          | <a href="#">ADA-USD</a>  | <a href="#">ADA-GBP</a>  | <a href="#">ADA-CAD</a>  | <a href="#">ADA-EUR</a>  |
| Stellar          | <a href="#">XLM-USD</a>  | <a href="#">XLM-GBP</a>  | <a href="#">XLM-CAD</a>  | <a href="#">XLM-EUR</a>  |
| IOTA             | <a href="#">IOT-USD</a>  | <a href="#">IOT-GBP</a>  | <a href="#">IOT-CAD</a>  | <a href="#">IOT-EUR</a>  |
| Vechain          | <a href="#">VEN-USD</a>  | <a href="#">VEN-GBP</a>  | <a href="#">VEN-CAD</a>  | <a href="#">VEN-EUR</a>  |
| NEO              | <a href="#">NEO-USD</a>  | <a href="#">NEO-GBP</a>  | <a href="#">NEO-CAD</a>  | <a href="#">NEO-EUR</a>  |
| Monero           | <a href="#">XMR-USD</a>  | <a href="#">XMR-GBP</a>  | <a href="#">XMR-CAD</a>  | <a href="#">XMR-EUR</a>  |
| DigitalCash      | <a href="#">DASH-USD</a> | <a href="#">DASH-GBP</a> | <a href="#">DASH-CAD</a> | <a href="#">DASH-EUR</a> |
| NEM              | <a href="#">XEM-USD</a>  | <a href="#">XEM-GBP</a>  | <a href="#">XEM-CAD</a>  | <a href="#">XEM-EUR</a>  |
| Binance Coin     | <a href="#">BNB-USD</a>  | <a href="#">BNB-GBP</a>  | <a href="#">BNB-CAD</a>  | <a href="#">BNB-EUR</a>  |
| Tether           | <a href="#">USDT-USD</a> | <a href="#">USDT-GBP</a> | <a href="#">USDT-CAD</a> | <a href="#">USDT-EUR</a> |
| Ethereum Classic | <a href="#">ETC-USD</a>  | <a href="#">ETC-GBP</a>  | <a href="#">ETC-CAD</a>  | <a href="#">ETC-EUR</a>  |
| ByteCoin         | <a href="#">BCN-USD</a>  | <a href="#">BCN-GBP</a>  | <a href="#">BCN-CAD</a>  | <a href="#">BCN-EUR</a>  |
| 0x               | <a href="#">ZRX-USD</a>  | <a href="#">ZRX-GBP</a>  | <a href="#">ZRX-CAD</a>  | <a href="#">ZRX-EUR</a>  |
| QTUM             | <a href="#">QTUM-USD</a> | <a href="#">QTUM-GBP</a> | <a href="#">QTUM-CAD</a> | <a href="#">QTUM-EUR</a> |
| ICON Project     | <a href="#">ICX-USD</a>  | <a href="#">ICX-GBP</a>  | <a href="#">ICX-CAD</a>  | <a href="#">ICX-EUR</a>  |
| Lisk             | <a href="#">LSK-USD</a>  | <a href="#">LSK-GBP</a>  | <a href="#">LSK-CAD</a>  | <a href="#">LSK-EUR</a>  |
| Aeternity        | <a href="#">AE-USD</a>   | <a href="#">AE-GBP</a>   | <a href="#">AE-CAD</a>   | <a href="#">AE-EUR</a>   |
| Bitcoin Gold     | <a href="#">BTG-USD</a>  | <a href="#">BTG-GBP</a>  | <a href="#">BTG-CAD</a>  | <a href="#">BTG-EUR</a>  |

## MARKET INDICES

### Setting up Market Indices in Moneydance.

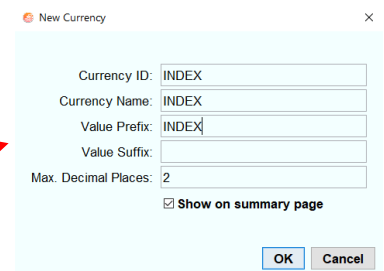
#### Adding a Currency Called INDEX.

In the example screen shot above, word INDEX is used to prefix the index value.

To achieve this a currency called INDEX must be created.

TOOLS – CURRENCIES then click “+” and fill in window thus.

Click OK, close window.



#### Adding a Investment and Bank Account called Market Indices.

Create new investment account – “Market Indices” in the normal way.

ACCOUNT – NEW ACCOUNT – INVESTMENT – NEXT and enter the “Account Name” as “Market Indices”. Tick the box “Inactive”. Click OK.

Create new Bank account - “Market Indices” in the normal way.

ACCOUNT - NEW ACCOUNT – BANK – NEXT and enter the “Account Name” as “Market Indices”. Click OK.

## Creating a Market Index.

In this example the “Dow Jones Industrial Average” will be created.

1. Create new security, -  
“Dow Jones Industrial Average” in the normal way.  
TOOLS – SECURITIES – “+”. Fill in the window thus.  
Then OK. Close window.
2. TOOLS – SECURITIES – “Dow Jones Industrial Average”  
– Change currency to “INDEX”, close windows.
3. Add security to investment account in the normal way.  
Side bar highlight “Market Indices. First Security click Yes, next time –  
ACTIONS - ADD SECURITY.  
Fill in window thus.

Then OK.

4. Click on another account in the sidebar then back to Market Indices. Buy the security in the normal way by  
ACTIONS – NEW TRANSACTION and fill in transaction line thus.

|  |        |  |                              |                |   |      |      |
|--|--------|--|------------------------------|----------------|---|------|------|
| 16/05/2018                                     | BuyXfr |  | Dow Jones Industrial Average | Market Indices | 1 | 1.00 | 0.00 |
| Enter Date Returned by Program for Index Value |        |  |                              |                | 1 |      |      |

5. Repeat steps 1 to 5 for each Market Index you wish to add.
6. Under TOOLS – ACCOUNTS – Market Indices (Type-Bank) – EDIT tick “Inactive”, then OK – DONE. If required  
right click on BANKS: Market Indices in sidebar and select “Remove from side bar”. Note: If you want to add  
further indices then you will need to make BANK: Market Indices active by unticking Inactive box under  
TOOLS – ACCOUNTS – Market Indices (Type-Bank) – EDIT then OK – DONE. Then follow steps 1-6 above.

## Use the program to obtain index values

Add Market index symbols, see [here](#), to your list of security symbols in the “Symbols” window.

Note: The need to add an attribute after the index symbol to prevent currency conversion  
for indices in a currency other than the default currency.

e.g. default currency GBP index currency USD attribute /USD/USD

Run the program “Update Prices” and save a CSV file.

There are a number of web sites that provide free CSV file downloads of historical index data for different Market indices for which you do not have to open an account. Once you have a history you can build on the data by using the hleofxquotes Program. Use your search engine to find one.

## Import data using Security History Loader

MoneyDance Load Security History - Build 2038

| Select                   | Ticker  | Date       | Name                         | Last Update | Last Price         | New Price      |
|--------------------------|---------|------------|------------------------------|-------------|--------------------|----------------|
| <input type="checkbox"/> | AAPL    | 24/07/2018 | Apply Inc                    | 24/07/2018  | £193.00000000      | 193.00000000   |
| <input type="checkbox"/> | BTC-GBP | 25/07/2018 | Bitcoin                      | 25/07/2018  | £6175.28000000     | 6175.28000000  |
| <input type="checkbox"/> | LLOY.L  | 25/07/2018 | Lloyds bank                  | 25/07/2018  | £62.40000000       | 62.40000000    |
| <input type="checkbox"/> | ^DJI    | 24/07/2018 | Dow Jones Industrial Average | 27/06/2018  | INDEX7531.49000000 | 25241.94000000 |
| <input type="checkbox"/> | ^FTSE   | 25/07/2018 | FTSE 100                     | 27/06/2018  | INDEX4202.97000000 | 7669.83000000  |
| <input type="checkbox"/> | BTC     | 25/07/2018 | Cur:Bitcoin                  | 00/00/0000  | 1.00000000         | 0.00016194     |
| <input type="checkbox"/> | ETH     | 25/07/2018 | Cur:Ethereum                 | 01/07/2018  | 0.00250215         | 0.00281953     |
| <input type="checkbox"/> | EUR     | 25/07/2018 | Cur:Euro                     | 27/06/2018  | 1.13300000         | 1.12537841     |
| <input type="checkbox"/> | USD     | 25/07/2018 | Cur:US Dollar                | 27/06/2018  | 1.32070000         | 1.31663836     |
| <input type="checkbox"/> | XRP     | 25/07/2018 | Cur:Ripple                   | 01/07/2018  | 2.64170781         | 2.91600475     |

Use the security History Loader in the normal way to load Market Indices alongside, Securities, Normal Exchange Rates and Cryptocurrency exchange rates.

See PDF “hleofxquotes Program used with Moneydance” for how to use the Security History Loader extension.

**IMPORTANT:** Dependant on the type of report and its settings the values of all the indices you have set up may be included, giving you an incorrect report. For relevant reports check under EDIT- SHOW: BY INDIVIDUAL that in the list of Investments “Market Indices” is deselected.

## Moneydance Summary Page

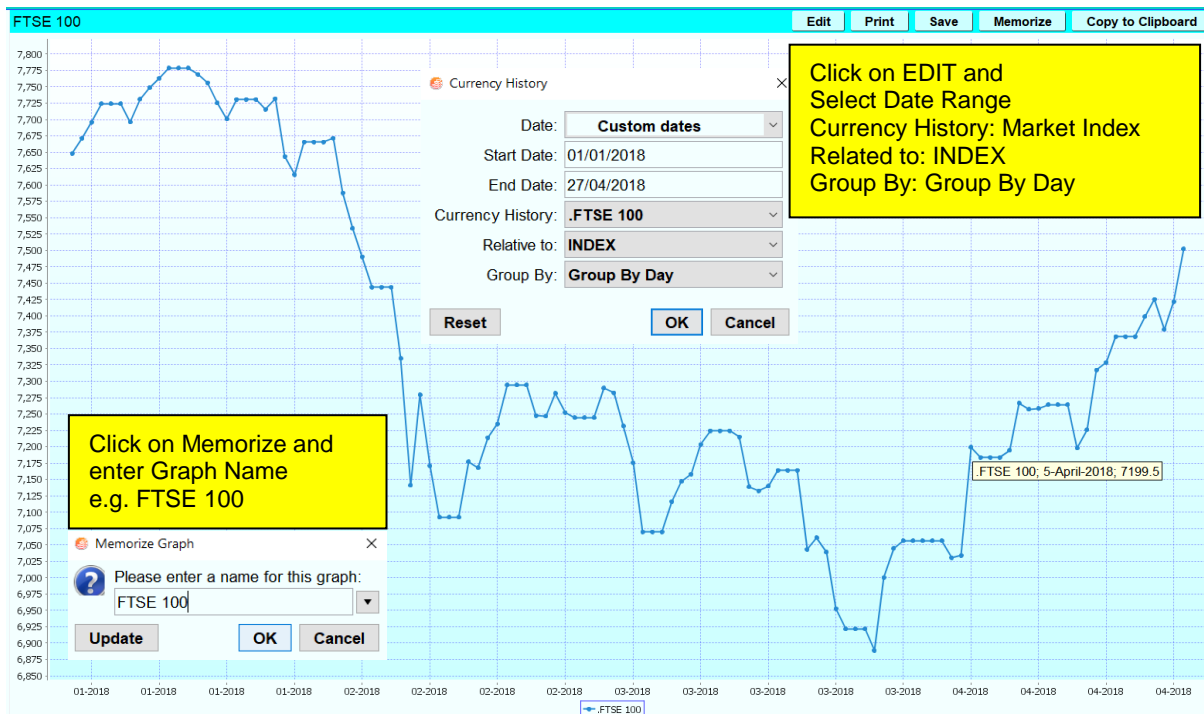
Provided that under FILE – PREFERENCES – SUMMARY PAGE “Stock Prices” have been selected to be display then the Market Indices will appear at the top of the “Stock Price” list.

### Stock Prices

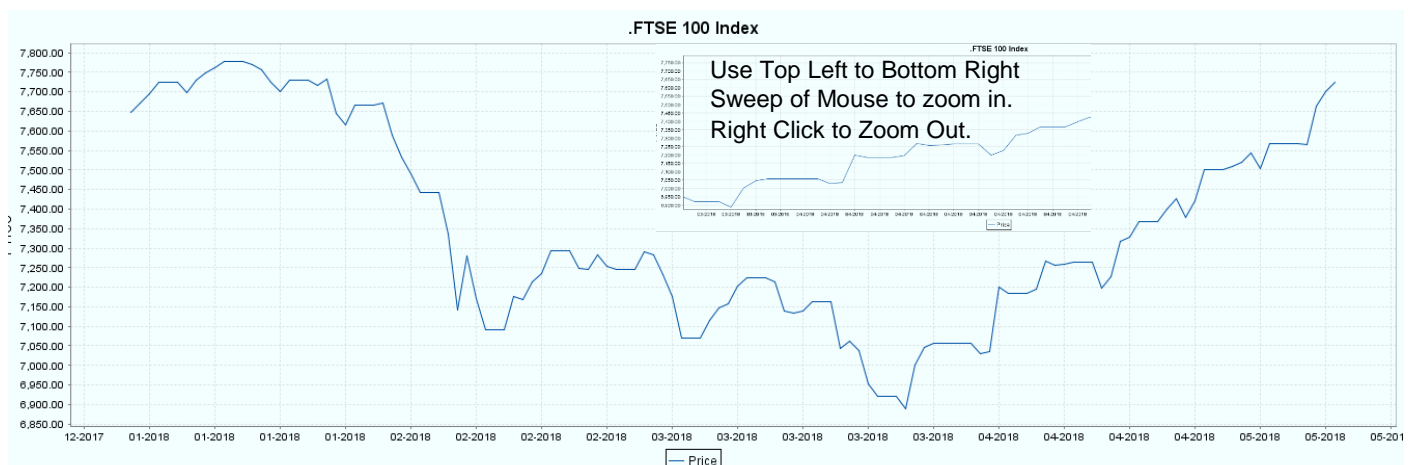
|   |                  |
|---|------------------|
| .Canadian S&P/TSX Comps Index               | INDEX: 15,668.93 |
| .Dow Jones Industrial Average               | INDEX: 24,311.19 |
| .FTSE 100                                   | INDEX: 7,502.21  |
| .FTSE 350                                   | INDEX: 4,175.55  |
| .NASDAQ NMS COMPOSITE INDEX                 | INDEX: 7,119.80  |
| AQR Style Premia UCITS Fund K               | GBP: 109.35      |
| Aberdeen UK Property Feeder Trust I Inc     | GBP: 1.52        |
| Algebris Financial Credit Fund Class ID Inc | GBP: 114.78      |

## Market Index Graph

The Graphs “Currency History” can be used to show Market Index changes over time.



The Graph from Side Bar- Investment – Market Indices – Securities Details – FTSE 100 Index





## Market Index Symbol Table with hyperlinks.

| FT SYMBOL                | FT DESCRIPTION               | YAHOO SYMBOL              | YAHOO DESCRIPTION            | CURRENCY |
|--------------------------|------------------------------|---------------------------|------------------------------|----------|
| <a href="#">N100:PAR</a> | Euronext 100 Idx             | <a href="#">^N100</a>     | Euronext 100                 | EUR      |
| <a href="#">INX:IOM</a>  | S&P 500 Index                | <a href="#">^GSPC</a>     | S&P 500                      | USD      |
| <a href="#">SHI:SHH</a>  | Shanghai Se Composite Index  | <a href="#">000001.SS</a> | Sse Composite Index          | CNY      |
| <a href="#">FTAL:FSI</a> | Ftse All Share Index         | <a href="#">^FTAS</a>     | Uk Ftse All Share            | GBP      |
| <a href="#">FTSA:FSI</a> | Ftse 350 Act Index           | <a href="#">^FTLC</a>     | Ftse 350                     | GBP      |
| <a href="#">CAC:PAR</a>  | Cac 40 Index                 | <a href="#">^FCHI</a>     | Cac 40                       | EUR      |
| <a href="#">XJO:ASX</a>  | S&P Aust Index Asx 200 Index | <a href="#">^AXJO</a>     | S&P/Asx 200                  | AUD      |
| <a href="#">PAX:PAR</a>  | Cac All Share Index          | <a href="#">PAX.PA</a>    | Cac All Shares               | EUR      |
| <a href="#">COMP:NAS</a> | Nasdaq Nms Composite Index   | <a href="#">^XIC</a>      | Nasdaq Composite             | USD      |
| <a href="#">FTSE:FSI</a> | Ftse 100 Index               | <a href="#">^FTSE</a>     | Ftse 100                     | GBP      |
| <a href="#">DAXX:GER</a> | German Se Xetra Dax Index    | <a href="#">^GDAXI</a>    | Dax Performance-Index        | EUR      |
| <a href="#">TSEA:TOR</a> | S&P/Tsx Comps Index          | <a href="#">^GSPTSE</a>   | S&P/TSX Composite Index      | CAD      |
| <a href="#">FTSM:FSI</a> | Ftse 250 Mid Index           | <a href="#">^FTMC</a>     | Ftse 250                     | GBP      |
| <a href="#">n225:NIK</a> | Nikkei 225 Tokyo             | <a href="#">^N225</a>     | Nikkei 225                   | JPY      |
| <a href="#">DJI:DJ</a>   | Dow Jones Industrial Average | <a href="#">^DJ</a>       | Dow Jones Industrial Average | USD      |
| <a href="#">HSI:HKG</a>  | Hang Seng                    | <a href="#">^HSI</a>      | Hang Seng Index              | HKD      |
| <a href="#">IPC:MEX</a>  | Se Ipc Index                 | <a href="#">^MX</a>       | Ipc Mexico                   | MXN      |

The above table represents a cross section of market indices across the world.

Reference the following two web sites to obtain further Market Indices.

Yahoo <https://uk.finance.yahoo.com/world-indices> FT <https://markets.ft.com/data/world>

Program set up for a mixture of Securities, Normal/Cryptocurrency Exchange Rates and Market Indices.

Quote Sources

Yahoo

FT

Symbols

BTC-GBP  
ETH-GBP  
XRP-GBP  
EURGBP=X  
USDGBP=X  
^DJI  
^FTSE  
AAPL  
LLOY.L

Update prices

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Default currency: GBP

OFX Account Id: 0123456789

Quote Source Prices

Converted Prices

Not Found Prices

| Symbol   | Name                         | Price                 | Last Trade Date | Last Trade Time |
|----------|------------------------------|-----------------------|-----------------|-----------------|
| AAPL     | Apple Inc.                   | 146.58543 GBP (C)     | 2018-07-24      | 21:00:01        |
| BTC-GBP  | Bitcoin GBP                  | 6175.2800 GBP (O)     | 2018-07-25      | 11:21:15        |
| ETH-GBP  | Ethereum GBP                 | 354.66873 GBP (O)     | 2018-07-25      | 11:21:23        |
| EURGBP=X | EUR/GBP                      | 0.88859 GBP (O)       | 2018-07-25      | 11:21:46        |
| LLOY.L   | LLOYDS BANKING GROUP ...     | 0.6240 GBP (O)        | 2018-07-25      | 11:06:13        |
| USDGBP=X | USD/GBP                      | 0.75951 GBP (O)       | 2018-07-25      | 11:20           |
| XRP-GBP  | Ripple GBP                   | 0.34293497 GBP (O)    | 2018-07-25      | 11:21:23        |
| ^DJI     | Dow Jones Industrial Average | 19171.5058494 GBP (C) | 2018-07-24      | 21:55:06        |
| ^FTSE    | FTSE 100                     | 7669.8300 GBP (O)     | 2018-07-25      | 11:21:46        |

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