

# Quote Loader System by Mike Bray & hleofxquotes

V1.0

Use at your own risk

## OVERVIEW

This system has been tested on the latest release of Moneydance 2017.

The authors of the hleofxquotes standalone program and the Security Price/History Load extensions have combined to create an all in one solution called the Quote Loader system. This document describes this new system.

The system provides an end to end solution, obtaining quotes from a choice of two sources and entering them into the relevant History window, all from a single window within Moneydance. The system can obtain Security prices, Exchange Rates, Market indices, Cryptocurrency Rates and prices for Cryptocurrency Investments. For UK user's prices are consistent, no switching between Pence and Pounds and back again. Returned prices in Pence will be automatically converted into Pounds before they are entered into the Security History window. Quotes and/or Securities in a foreign currency are converted into Moneydances Base Currency automatically. The system delivers the last traded price, not a price history, thus it does not overwrite your existing history. It provides quotes for stocks and funds, from many stock exchanges US, Canada, UK, Europe and Australia to name but a few. The process of obtaining quotes from the selected source is fast and error free.

The system has the following advantages.

- You can see for each security, its Name and Ticker Symbol.
- You can see for each security the Last Price and Price Date held in the History window.
- You can Select the Source to obtain quotes from.
- You can Get Prices for Exchange Rates and Securities or Exchange Rates only.
- You can determine if you want to get quotes for Securities you no longer hold.
- You can see each quote being returned with its New Price, Trade Date and Trade Currency.
- You can do a reality check before saving the data to Moneydance.
- You can see exactly what you are saving to Moneydance.
- You can add a New Price and Trade Date to any security that is not found.
- You can select the securities to be saved to Moneydance, all or selected prices.
- You can test a symbol before it is entered into Moneydance to check that a price can be returned.

There is no guarantee that the Quote Loader system will continue to operate. Factors outside the developer's control may change and the system will be unable to return quotes. User's should be aware of this warning and only use the free Quote Loader system based on the acceptance of this possibility.

A YouTube Tutorial Video can be found [here](#).

For how to set up Market Indices and/or cryptocurrencies in Moneydance see separate PDF.

## Example screen of the Quote Loader interface

MoneyDance Quote Loader 2054 - Rhumba 1032 - hleofxquotes 225

Help

Include zero accounts?  Process Currencies  Decimal Digits

Select	Ticker	Name	Source	Last Price	Price Date	New Price	Trade Date	Trade Currency
<input type="checkbox"/>	AAPL	Apple Inc	FT	\$215.9501	24/08/2018	0.0		
<input type="checkbox"/>	AIR.PAR	Airbus SE	FT	€97.1269	24/08/2018	0.0		
<input type="checkbox"/>	GB0033772517.L	Dimensional Emerging Markets Core Equity Fund GBP Income	Yahoo	£36.8500	23/08/2018	0.0		
<input type="checkbox"/>	GB00B0CNH270	Legal & General Global Health & Pharmaceuticals Index Trust 1 Class Distribution	FT	£0.6708	23/08/2018	0.0		
<input type="checkbox"/>	IE00B0V9T862	PIMCO Funds: Global High Yield Bond Fund Institutional GBP Hedged Inc	Do not load	€5.9100	17/08/2018	0.0		
<input type="checkbox"/>	IE00B1W56S93	BlackRock iShares Pacific Index Fd Inst Acc USD	FT	€13.1250	23/08/2018	0.0		
<input type="checkbox"/>	IE00B3NLD6F0	Polar Capital Healthcare Opportunities Fd 1 Inc	FT	€33.0000	20/08/2018	0.0		
<input type="checkbox"/>	LLOY	Lloyds Banking Group plc	FT	£0.6095	24/08/2018	0.0		
<input type="checkbox"/>	PHIA.AEX	Royal Philips	FT	€34.2519	24/08/2018	0.0		
<input type="checkbox"/>	RY.TO	Royal Bank of Canada	FT	€61.9610	24/08/2018	0.0		
<input type="checkbox"/>	TOTF.PA	Total SA	FT	€49.6025	24/08/2018	0.0		
<input type="checkbox"/>	VHGX	Vanguard Global Equity Fund Investor Shares	FT	€31.7265	23/08/2018	0.0		
<input type="checkbox"/>	VOW3	Volkswagen AG	FT	€137.6476	24/08/2018	0.0		
<input type="checkbox"/>	CAD	Cur.Canadian Dollar	FT	1.0754	24/08/2018	0.0		
<input type="checkbox"/>	EUR	Cur.Euro	FT	1.1067	24/08/2018	0.0		
<input type="checkbox"/>	USD	Cur.US Dollar	FT	1.2855	24/08/2018	0.0		

Click to Select all lines

Save Parameters Get Exchange Rates Get Prices Save Selected Values Close

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## EXTENSION INSTALLATION

Make a FILE – EXPORT BACKUP in case things do not turn out as expected.

The system consists of three elements.

- ❖ Quote Loader extension, providing a user interface.
- ❖ The hleofxquotes program, used to obtain quotes.
- ❖ The Rhumba extension, a communications interface extension, to provide a communications link between the Quote Loader extension and the hleofxquotes program.

Once installed the hleofxquotes program and Rhumba extension, in use, are invisible to the user.

All parts of the system use the Java installation provided with Moneydance. A separate installation of Java is not required.

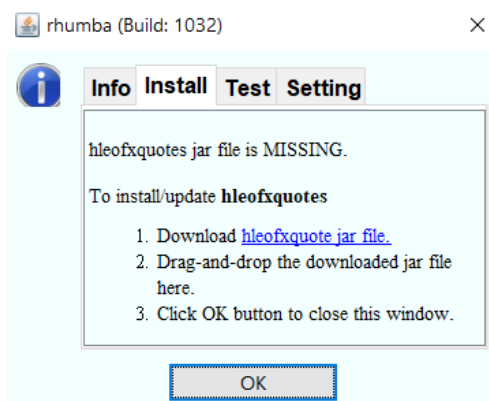
Download the two extension “securityquoteload.mxt” and “rhumba.mxt as well as the hleofxquotes program hleOfxQuotes.jar from [here](#)

Install the two extensions by dragging and dropping them into the Moneydance’s sidebar.

It’s safe to install both of these extensions, you can ignore the warning message.

The warning simply means that as third-party extensions they have not been reviewed and signed by Infinite Kind (Moneydance). The two developers, Mike Bray and hleofxquotes are responsible for several widely used programs. This new Quote Loader system has been tested by a number of experienced Moneydance users without any problems.

Run the Rhumba extension from EXTENSIONS to give.



Drag and Drop the hleofxquotes program, hleofxquote.jar, into the window to install and click OK.

No need to run the hleofxquotes program, it runs when required invisible to the user. The same applies the Rhumba extension under EXTENSIONS.

When you run Quote Loader you should see the build numbers of the different elements displayed top left of the Quote Loader window.

If the installation is incorrect, after up to a 10 second delay you will get a Warning message.

Note: Use the Grab and Drop process outlined above to update any element of the system. No need to uninstall the old build first.

Note: When running Quote Loader see under HELP – ONLINE HELP for further information.

## INITIAL SETUP

Make a FILE – EXPORT BACKUP in case things do not turn out as expected.

Start the extension by selecting “Quote Loader” under EXTENSIONS to give.

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1 2 3

Include zero accounts?  Process Currencies  Decimal Digits 4

Select	Ticker	Name	Source	Last Price	Price Date	New Price	Trade Date	Trade Currency
<input type="checkbox"/>	AAPL	Apple Inc	FT	\$215.9501	24/08/2018	0.0		
<input type="checkbox"/>	AIR-PAR	Airbus SE	FT	£97.1269	24/08/2018	0.0		
<input type="checkbox"/>	GB003372517.L	Dimensional Emerging Markets Core Equity Fund GBP Income	Yah	£36.8500	23/08/2018	0.0		
<input type="checkbox"/>	GB00B0CNH270	Legal & General Global Health & Pharmaceuticals Index Trust I Class Distribution	FT	£0.6708	23/08/2018	0.0		
<input type="checkbox"/>	IE00B0V9T862	PIMCO Funds: Global High Yield Bond Fund Institutional GBP Hedged Inc	Do not load	£5.9100	17/08/2018	0.0		
<input type="checkbox"/>	IE00B1W56S93	BlackRock iShares Pacific Index Fd Inst Acc USD	FT	£13.1250	23/08/2018	0.0		
<input type="checkbox"/>	IE00B3NLDF60	Polar Capital Healthcare Opportunities Fd I Inc	FT	£33.0000	20/08/2018	0.0		
<input type="checkbox"/>	LLOY	Lloyds Banking Group plc	FT	£0.6095	24/08/2018	0.0		
<input type="checkbox"/>	PHIA:AEX	Royal Philips	FT	£34.2519	24/08/2018	0.0		
<input type="checkbox"/>	RY.TO	Royal Bank of Canada	FT	£61.9610	24/08/2018	0.0		
<input type="checkbox"/>	TOTF:PA	Total SA	FT	£49.6025	24/08/2018	0.0		
<input type="checkbox"/>	VHGX	Vanguard Global Equity Fund Investor Shares	FT	£31.7265	23/08/2018	0.0		
<input type="checkbox"/>	VOW3	Volkswagen AG	FT	€137.6476	24/08/2018	0.0		
<input type="checkbox"/>	CAD	Cur:Canadian Dollar	FT	1.6754	24/08/2018	0.0		
<input type="checkbox"/>	EUR	Cur:Euro	FT	1.1067	24/08/2018	0.0		
<input type="checkbox"/>	USD	Cur:US Dollar	FT	1.2855	24/08/2018	0.0		

4

5

Click to Select all lines

Save Parameters Get Exchange Rates Get Prices Save Selected Values Close

NOTE: Mouse hover over a button or most tick boxes to display a help dialog.

- If “Include zero accounts?” box is ticked then:
  - If a security is assigned to an investment account but has a zero balance then it will appear whether or not it is listed in the Stock Prices section on the Summary Page.
  - If a security is not assigned to an investment account then it will only appear if it is listed in the Stock Prices section on the Summary Page.
- If you wish to update currency exchange rates tick “Process Currencies”. For a currency to be listed under “Ticker” Symbols it must be selected in Moneydance to “Show on summary page” under TOOLS – CURRENCIES select currency - EDIT.
- Most securities and currencies are quoted in no more than 4 decimal places but cryptocurrencies require up to 8. Use the “Decimal Digit” dropdown to select the number of decimal places returned.
- In the “source” column select a quote source.  
 Right click on Source to open a popup. Select the most used Source. →   
 Then to change an individual source click in a source box and use a dropdown to make a selection. →   
 If you not sure what source to select see [here](#).
- Click “Save Parameters”, OK. The next time you open the extension all the selection will be remembered.
- If any quotes are in British Sterling you **MUST** follow the step [here](#).

## OBTAINING QUOTE

Make a FILE – EXPORT BACKUP in case things do not turn out as expected.

If not already running start the extension by selecting “Quote Loader” under EXTENSIONS to give

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Help

Include zero accounts?  Process Currencies  Decimal Digits **4**

Select	Ticker	Name	Source	Last Price	Price Date	New Price	Trade Date	Trade Currency
<input type="checkbox"/>	AAPL	Apple Inc	FT	\$215.9501	24/08/2018	228.3600	04/09/2018	USD
<input type="checkbox"/>	AIR-PAR	Airbus SE	FT	€97.1269	24/08/2018	95.0212	04/09/2018	EUR(105.16)
<input type="checkbox"/>	GB0033772517.L	Dimensional Emerging Markets Core Equity Fund GBP Income	Yahoo	£36.8500	23/08/2018	36.8100	24/08/2018	GBX(3681.0)
<input type="checkbox"/>	GB00B0C9H270	Legal & General Global Health & Pharmaceuticals Index Trust I Class Distribution	FT	£0.6708	23/08/2018	0.6753	04/09/2018	GBX(67.53)
<input type="checkbox"/>	IE00B0V9T832	PIMCO Funds: Global High Yield Bond Fund Institutional GBP Hedged Inc	Do not load	£5.9100	17/08/2018	0.0		
<input type="checkbox"/>	IE00B1W56S93	BlackRock iShares Pacific Index Fd Inst Acc USD	FT	£13.1250	23/08/2018	13.4033	03/09/2018	USD(17.23)
<input type="checkbox"/>	IE00B3NLDF60	Polar Capital Healthcare Opportunities Fd I Inc	FT	£33.0000	20/08/2018	0.0		
<input type="checkbox"/>	LLOY	Lloyds Banking Group plc	FT	£0.6095	24/08/2018	0.6035	04/09/2018	GBX(60.35)
<input type="checkbox"/>	PHIA.AEX	Royal Philips	FT	€34.2519	24/08/2018	34.3182	04/09/2018	EUR(37.98)
<input type="checkbox"/>	RY.TO	Royal Bank of Canada	FT	€61.9610	24/08/2018	61.9374	04/09/2018	CAD(103.77)
<input type="checkbox"/>	TOTF_PA	Total SA	FT	€49.6025	24/08/2018	48.4594	04/09/2018	EUR(53.63)
<input type="checkbox"/>	VHGX	Vanguard Global Equity Fund Investor Shares	FT	\$31.7265	23/08/2018	32.7100	31/08/2018	USD
<input type="checkbox"/>	VOW3	Volkswagen AG	FT	€137.6476	24/08/2018	136.2000	04/09/2018	EUR
<input type="checkbox"/>	CAD	Cur:Canadian Dollar	FT	1.6754	24/08/2018	1.6945	05/09/2018	CAD
<input type="checkbox"/>	EUR	Cur:Euro	FT	1.1067	24/08/2018	1.1093	05/09/2018	EUR
<input type="checkbox"/>	USD	Cur:US Dollar	FT	1.2855	24/08/2018	1.2851	05/09/2018	USD

Click to Select all lines

Save Parameters    Get Exchange Rates    Get Prices    Save Selected Values    Close

New Price  
 160.4411  
 96.3769  
 3682.0000  
 66.3300  
 5.9100  
 0.0  
 60.9800  
 0.0  
 59.1852  
 0.0000  
 0.0000  
 0.0000

66% Progress Bar  
 Progress Bar may pause. This is normal.

1    4    5

3 Do not tick until step 3.

The Moneydance Status Bar at the bottom of the main Moneydance window display the quote data as it is obtained  
 ||| AAPL,216.16,USD

Status of obtaining quotes in indicated by colour.  
 ➤ Yellow-Being obtained.  
 ➤ Green-Obtained.  
 ➤ Original colour-Do not load.  
 ➤ Red-Not found.

### Procedure if all Securities & Quotes are in Moneydance’s Base Currency

1. Click “Get Prices” button and when progress bar reaches 100% click OK.
2. If security is returned in Red or original colour, with a zero price, see [here](#)
3. Tick the “Click to Select all lines” box or individual tick boxes to Select the values to be saved.
4. Click “Save selected values”, click OK button OR click “Close” to cancel Save.
5. Close the window.

Note: To obtain exchange rate only, tick Process Currency, click Get Exchange Rates.

## Procedure if one or more Securities or Quotes are not in Moneydance's Base Currency.

- A. If Moneydance Base Currency is different from one or more securities/quote source currencies.

Example: Base Currency GBP. The security Volkswagen in TOOLS–SECURITIES–Volkswagen set to Euro.

Quote for Volkswagen obtained from the source are in Euro's.

Ticker	Name	Source	Last Price	Price Date	New Price	Trade Date	Trade Currency
VOW3	Volkswagen AG	FT	€126.2402	21/08/2018	140.1800	22/08/2018	EUR

- B. If one or more quotes are not in the currency of the security set in Moneydance.

Example The security BlackRock... In TOOLS–SECURITIES–BlackRock.. set to GBP. Quote for BlackRock.. obtained from the source are in USD. Base Currency is GBP.

Ticker	Name	Source	Last Price	Price Date	New Price	Trade Date	Trade Currency
IE00B1W56S93	BlackRock ...	FT	£13.1250	23/08/2018	13.4033	03/09/2018	USD(17.23)

Note: Currency difference £ symbol in Last Price column and Source value in USD in Trade Currency Column.

For the correct prices to be entered into Moneydance the process is in two stages.

- First stage.  
Obtain and save the exchange rates.  
In these example EUR and USD. In case A the exchange rate is used to convert the price in the History window to the Base Currency used in other areas of Moneydance. In case B the exchange rate is used in the second stage to convert the source quote price into the Base Currency before entering the value into the New Price column. In the BlackRock.. example the New Price will be converted from USD to GBP using the Last Price USD exchange rate.
- Second stage.  
Obtain and save quotes.

The process involves using an exchange rate to perform a currency conversion. For each security the system tries to use the exchange rate date that is the same as the security Trade Date. If this does not exist it looks into the past to find the first available exchange rate. This works well unless the exchange rate it finds is so out of date as to result in an inaccurate currency conversion. Regularly updating the exchange rate or at least the days prior to updating security price cut out errors. Alternatively, on the completion of step a. you can do the following. Check the results to see if the Trade Date for any of the securities are older than the Trade Date for the related exchange rate. If yes, double click on the exchange rate Trade Date to enter the edit mode. Edit the Trade Date to equal the oldest Security Trade Date. Note: Clicking again in the edit mode will open a calendar. If you wish to remove the small conversion error that could exist you can edit the New Price exchange rate using one obtained on the web for that Trade Date.

The process steps are as follows: -

- Click "Get Prices" button. When process is complete click OK.
- Tick the boxes to select the exchange rates to be saved.
- Click "Save selected values" button, click OK.
- Click "Get Prices" button. When process is complete click OK.
- If security is returned in Red or original colour, with a zero price, see [here](#)
- Tick Select All box or individual tick boxes to select the values to be saved. It's OK to enter exchange rates again.
- Click "Save selected values" button.

## FINDING AND USING THE CORRECT SECURITY TICKER SYMBOL.

The first step is to determine which source you intend to use to obtain a quote for each security.

It's possible one source will cover all your needs. Or it could be you need to use both sources to find quotes for all your securities.

The biggest problem is often finding the correct Ticker symbol to use. e.g. Apple Inc does not require an exchange extension "APPL", Lloyds Bank requires a ".L" ("LLOY.L") when the source is Yahoo but does not require an exchange extension when FT is used, only "LLOY".

Ticker symbols are unique in an exchange, but are not unique across all exchanges. For example, WBC is a valid Ticker Symbol and both sources will return the same value. WBC is the ticker symbol for WABCO Holdings Inc. However, this company is traded on a number of stock exchanges, US, Mexico, Australia, Germany, etc, each trading in a local currency. So, in such cases you must check that the Trade Currency returned matches your expectations and if necessary add the required exchange extension.

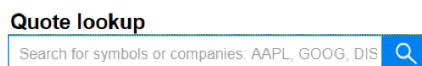
The Ticker symbol and stock exchange separator can sometimes be a "." or a ":"

To help you determine the correct Ticker Symbol use

<https://markets.ft.com/data/equities>



<https://uk.finance.yahoo.com/lookup>



In both cases enter the security name or the Ticker Symbol itself to determine if it is recognised and if it requires an exchange extension. You can test Ticker Symbols see [here](#).

Once you have determined the source you need to use and the Ticker Symbol it requires you need to check that the security in Moneydance is using the correct Ticker Symbol. Look at the Ticker Symbol column in the extension window.

If any are incorrect click TOOLS – SECURITIES and select each security in turn and then under its EDIT button change the Ticker Symbol as required.

## Testing Ticker Symbols using the Rhumba extension

This feature allows the user to test a Ticker Symbol before it is entered under TOOLS – SECURITIES – "+"

Run Rhumba under EXTENSIONS and click on TEST.

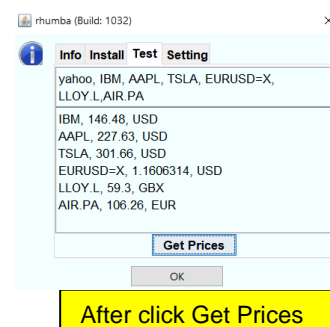
The top window shows a set of example Ticker Symbols which you can edited.

You can only test one source at a time.

You can use more than one line. NOTE: Comma at end of line.

If the source requires an exchange symbol add at end. e.g. LLOY.L, AIR.PA

For currencies use the format, FT use GBPUSD, for Yahoo use GBPUSD=X



## QUOTES IN BRITISH STERLING PENCE, ONETIME SETUP

This stepup **must** be performed to avoid incorrect British Sterling values.

The quote source will consistently return prices in either Pounds (GBP) or Pence (GBX).

To accommodate quotes in pence it is necessary to set up a new currency “British Sterling Pence”

1. Set up a new currency as follows. Click TOOLS – CURRENCIES – “+” and file in the Currency History window as follows.

Note: This new currency is only set up in your current data set.

Dialog box: Edit Currencies/Exchange Rates

Currency ID: GBX

Currency Name: British Sterling Pence

Value Prefix: GBX

Value Suffix:

Show on summary page

Buttons: OK, Cancel

Annotation: Untick Box (with red arrow pointing to the checkbox)

2. Click OK and click on British Sterling Pence and fill in the currency window thus.

Window: Currency/Security History

Currency Name: British Sterling Pence [Edit...]

Currency: British Pound

Rate: 0.01

Date	Rate
01/01/1900	0.01

Buttons: New, Remove, Clear All, Import...

Make sure the Currency is set to British Pounds.

Edit the RATE: to 0.01

Click NEW and edit the date to 01/01/1900 using the date format set in FILE PREFERENCES.

Close the windows.

## RETURNED PRICE IS ZERO.

There could be two reasons why a quote is returned as a zero.

1. The Ticker symbol for the quote is incorrect for the quote source used. See [here](#).
2. Neither quote source supports the quote or you have selected “Do not load quote”. In these cases, you will need to obtain a price from another source and enter it manually in to the associated “New Price” box. Double click on the box. Swipe over the existing value and enter the new value and press Enter. Then enter a Trade Date in the next box. Default date is todays date, edit as required. Note: Clicking again in the edit mode will open a calendar. Return to [here](#).

## WARNING: NON-BASE CURRENCY SECURITIES

For Non-Base Currency Securities do not update any Dated Currency Exchange Rates of the associated currency that coincide with the date of a Dated Security Price in the Security Price History window.

To do so will change the value of the Dated Security Price.” e.g. Base Currency GBP, Security Currency USD. In the Securities Price History window and the Currency History window there will be an entry with the same date. If you import a new exchange rate or manually edit the rate for that date, the security price for that date will change. This should not happen. The new exchange rate results in no change to the resulting base currency Security value for the same date. All reports associated with the security in the base currency for the same date remain the same. This is incorrect, they should change based on the updated exchange rate for that date. If you do change an exchange rate you will need to manually change the related security price for that date. This warning sound complex. The bottom line is unless you really have to don't in any way update an existing dated exchange rate that coincides with a security in the same currency updated on the same date. This situation is unlikely to be fixed in any future builds of 2017. According to the Moneydance developer it will be resolve in the next major release.

## HAVE FUN