

# GooglePrice

## How to use Google Finance as a share price source for Excel and LibreOffice spreadsheets

Many investors have their own spreadsheets for monitoring their investments. Getting prices for shares is usually the biggest problem. A number of tools exist to download share prices from Yahoo (mostly using Excel), and this is usually quite satisfactory most of the time. Occasionally, Yahoo does have problems which may last for several days, and the share prices may have doubtful validity. Share prices can usually be scraped from various websites, but this is usually on a share-by-share basis and is not easy for those without significant programming skills.

Google provides share price information but this is only available in Google Docs. The spreadsheet in Google Docs is very capable indeed, and is more than adequate for many people. However, Google Docs does not have the power and sophistication of spreadsheets such as Excel or LibreOffice.

This document describes a simple technique for automatically importing and refreshing share and index prices from Google Docs into Excel or LibreOffice spreadsheets, without requiring any great technical skill. Prices are automatically updated every few minutes.

There are two steps to the process:

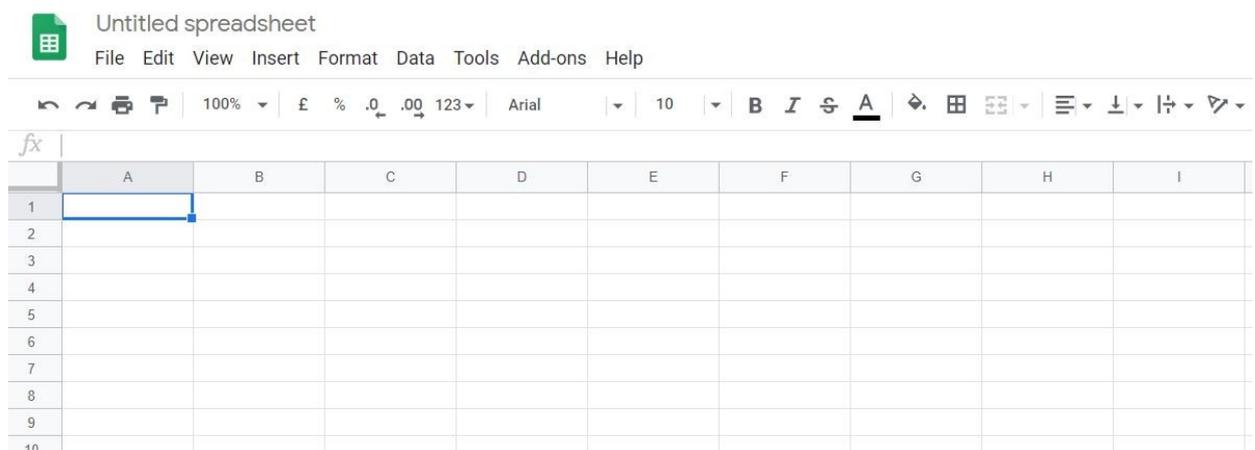
1. Create a Google Docs spreadsheet containing all of the relevant shares and indices, and configure it appropriately
2. Configure an Excel or LibreOffice spreadsheet to import the data from the Google Docs spreadsheet and automatically refresh the data at intervals

### Google Docs spreadsheet

If you don't already have a Google account, set one up here:

<https://accounts.google.com/signup/v2/webcreateaccount?flowName=GlifWebSignIn&flowEntry=SignUp>

1. In your web browser, access your Google Drive account at: <https://drive.google.com/>
2. In Drive, select NEW / GOOGLE SHEETS / BLANK SPREADSHEET
3. FILE / RENAME and define a suitable name for the spreadsheet. You should then have a blank spreadsheet like this:





## Displaying the formulas instead:

The screenshot shows a Google Sheets spreadsheet with the following data:

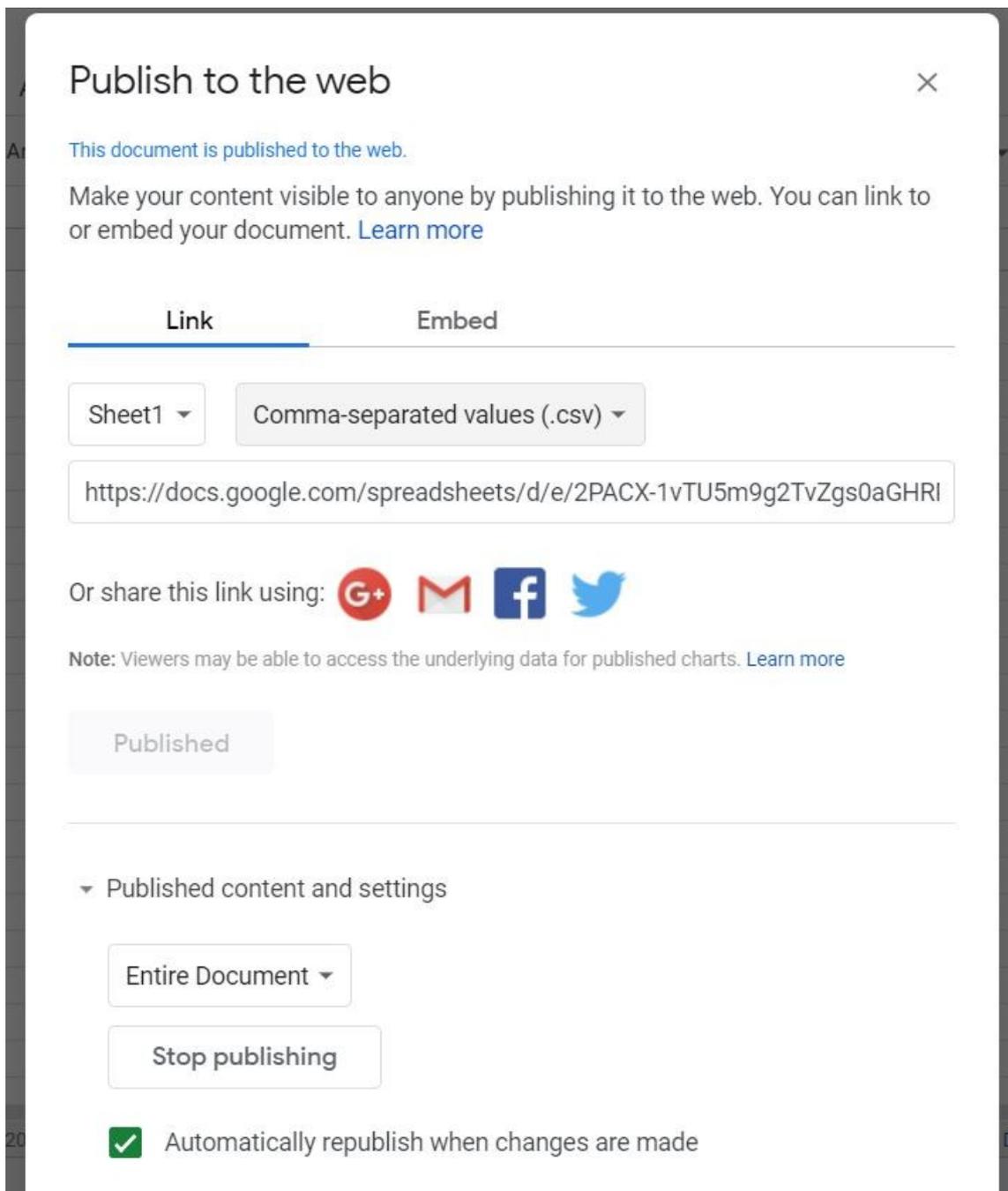
	A	B	C	D	E	F	G
1	=now()						
2	<b>Google Symbol</b>	<b>Epic</b>	<b>Yahoo Ticker</b>	<b>Price</b>	<b>Currency</b>	<b>Change</b>	<b>LastTrade</b>
3	INDEXFTSE:UKX	UKX	^FTSE	=googlefinance(A3,"price")	=googlefinance(A3,"currency")	=googlefinance(A3,"change")	=googlefinance(A3,"tradetime")
4	INDEXFTSE:ASX	ASX	^FTAS	=googlefinance(A4,"price")	=googlefinance(A4,"currency")	=googlefinance(A4,"change")	=googlefinance(A4,"tradetime")
5	LON:LLOY	LLOY	LLOY.L	=googlefinance(A5,"price")	=googlefinance(A5,"currency")	=googlefinance(A5,"change")	=googlefinance(A5,"tradetime")
6	LON:VOD	VOD	VOD.L	=googlefinance(A6,"price")	=googlefinance(A6,"currency")	=googlefinance(A6,"change")	=googlefinance(A6,"tradetime")
7	LON:VWRL	VWRL	VWRL.L	=googlefinance(A7,"price")	=googlefinance(A7,"currency")	=googlefinance(A7,"change")	=googlefinance(A7,"tradetime")
8	LON:MRCH	MRCH	MRCH.L	=googlefinance(A8,"price")	=googlefinance(A8,"currency")	=googlefinance(A8,"change")	=googlefinance(A8,"tradetime")
9	LON:NG	NG	NG.L	=googlefinance(A9,"price")	=googlefinance(A9,"currency")	=googlefinance(A9,"change")	=googlefinance(A9,"tradetime")
10	LON:BTA	BTA	BT-A.L	=googlefinance(A10,"price")	=googlefinance(A10,"currency")	=googlefinance(A10,"change")	=googlefinance(A10,"tradetime")
11	NASDAQ:AAPL		AAPL	=googlefinance(A11,"price")	=googlefinance(A11,"currency")	=googlefinance(A11,"change")	=googlefinance(A11,"tradetime")
12							
13							

A full list of available data from Google Finance is shown in Appendix 1

## Configuring and Publishing

Now that the Google Docs spreadsheet has been set up, it needs to be configured and published.

- A) In the Google Docs menu, select FILE / SPREADSHEET SETTINGS / CALCULATION and set Recalculation to “On Change and Every Minute”, then click on “Save Settings”.
- B) In the Google Docs menu, select FILE / PUBLISH TO THE WEB / LINK and change “Entire Document” to Sheet 1 (or whichever sheet you are using), and change “Web Page” to “Comma-separated values”. Enable “Automatically republish when changes are made”. Copy the link to the clipboard (and paste it somewhere if you are not going to use it immediately)



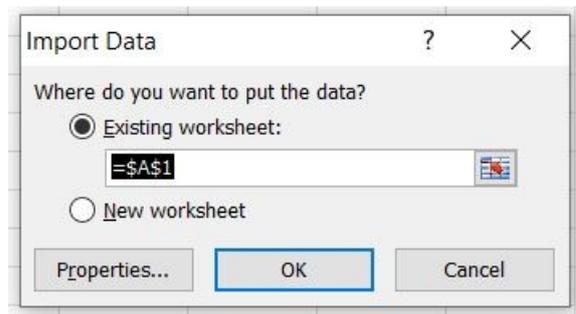
The screenshot shows the 'Publish to the web' dialog box in Google Docs. The title is 'Publish to the web' with a close button (X) in the top right corner. Below the title, it states 'This document is published to the web.' followed by a link to 'Learn more'. The main text says 'Make your content visible to anyone by publishing it to the web. You can link to or embed your document. Learn more'. There are two tabs: 'Link' (selected) and 'Embed'. Under the 'Link' tab, there are two dropdown menus: 'Sheet1' and 'Comma-separated values (.csv)'. Below these is a text box containing the URL 'https://docs.google.com/spreadsheets/d/e/2PACX-1vTU5m9g2TvZgs0aGHRI'. Below the URL, there are social sharing icons for Google+, Email, Facebook, and Twitter. A note states 'Note: Viewers may be able to access the underlying data for published charts. Learn more'. There is a 'Published' button. Below that, there is a section titled 'Published content and settings' with a dropdown menu set to 'Entire Document' and a 'Stop publishing' button. At the bottom, there is a checked checkbox for 'Automatically republish when changes are made'.

That concludes the creation and configuration of the Google Docs spreadsheet. It can now be closed

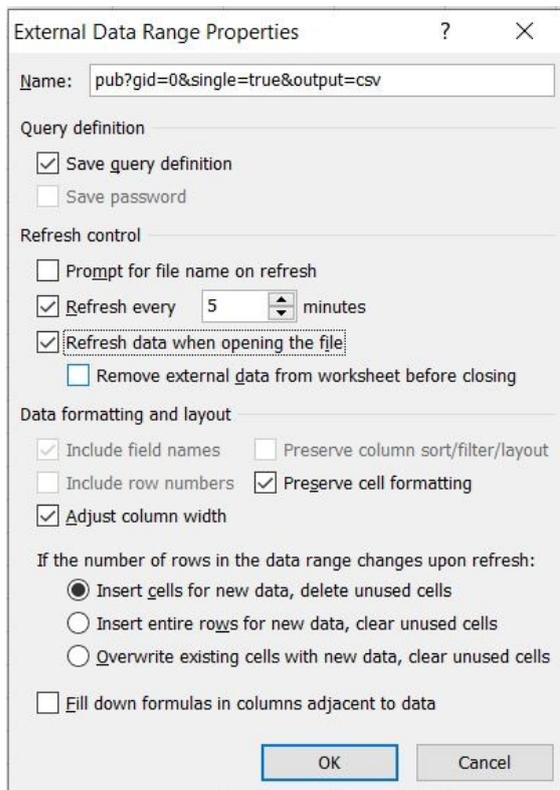
## Importing into Excel

Note that this description applies to Excel 2010. Other versions of Excel may be slightly different.

1. Open a new Excel document
2. From the menu bar, select DATA / FROM TEXT  
This opens a dialog box which accesses the computer's file system. In the File Name entry box, paste the link from step B above, and click on "Open"  
Here's a test link you can use: [https://docs.google.com/spreadsheets/d/e/2PACX-1vQL6-5tkJO71BvRFiQ94rCP7V2mbdZPuRISF015DeZEy4ekLK\\_M9WRhL-AV4Zy6VtTNGZhSop0YtBP/pub?gid=0&single=true&output=csv](https://docs.google.com/spreadsheets/d/e/2PACX-1vQL6-5tkJO71BvRFiQ94rCP7V2mbdZPuRISF015DeZEy4ekLK_M9WRhL-AV4Zy6VtTNGZhSop0YtBP/pub?gid=0&single=true&output=csv)
3. In the subsequent Text Import wizard, select "Delimited" and click on "Next".  
Select Comma as the delimiter and click on "Next", then click on "Finish". You should then see a window like this:



4. Click on "Properties", then deselect "prompt for file name on refresh", select "Refresh every 5 minutes" and select "Refresh data when opening the file".  
Click on "OK"

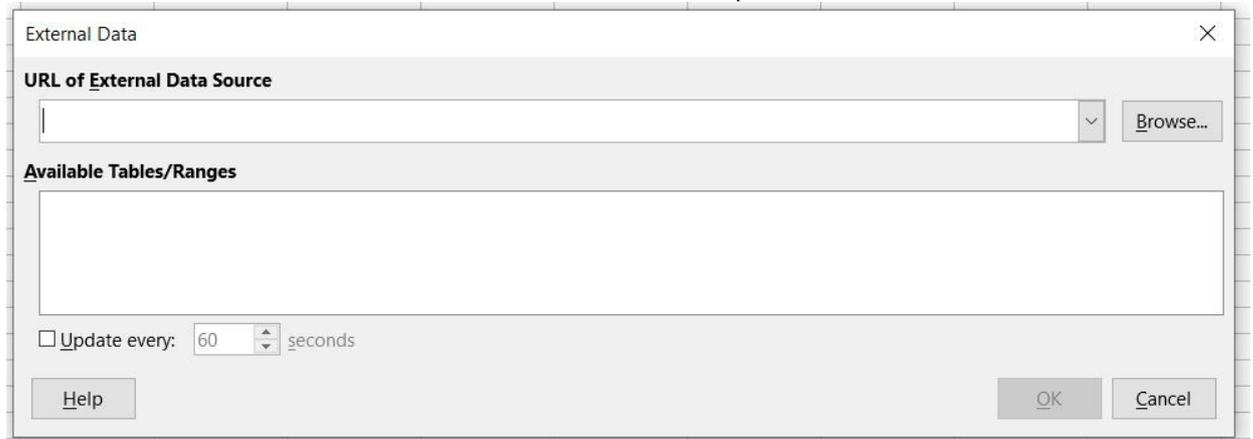


Click on "OK" again, and you should see the data in your Excel sheet. Save the file

## Importing into LibreOffice

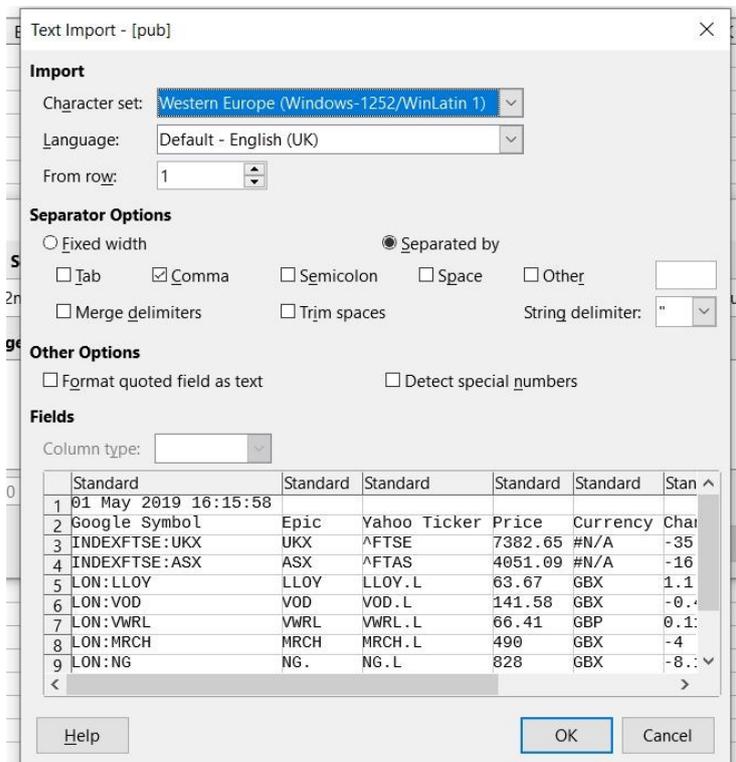
LibreOffice version 6.2.2.2 on Windows 10 is used for this description.

1. Open a new Calc spreadsheet
2. From the menu bar, SHEET / LINK TO EXTERNAL DATA will produce a window like this:



3. Paste the link from Google Docs into the "URL of External Data Source" and hit ENTER. Here's a test link you can use: [https://docs.google.com/spreadsheets/d/e/2PACX-1vQL6-5tkJO71BvRFiQ94rCP7V2mbdZPuRISF015DeZEy4ekLK\\_M9WRhL-AV4Zy6VtTNGZhSop0YtBP/pub?gid=0&single=true&output=csv](https://docs.google.com/spreadsheets/d/e/2PACX-1vQL6-5tkJO71BvRFiQ94rCP7V2mbdZPuRISF015DeZEy4ekLK_M9WRhL-AV4Zy6VtTNGZhSop0YtBP/pub?gid=0&single=true&output=csv)

This will produce a window like this:



Select Comma as the separator option and click OK,

4. In the window in step 2 above, select “Update every 300 seconds” and click on “OK”. You should then see the data in your Calc document. Save the file.

## Comments

1. Both Excel and LibreOffice allow the user to specify the refresh period to call new data from the Google Docs spreadsheet. It's tempting to set this to a short period such as 1 minute, but it's not quite that simple.  
Empirically, it does seem that Google limits the frequency of refresh, so calling for refreshed data at short intervals may not achieve anything.  
I've also found that if the refresh is set to, say, 2 minutes, then typically data is updated every 4 minutes (though sometimes 6 minutes and sometimes 2 minutes)  
I think a refresh of 5 minutes is a reasonable compromise
2. I found that LibreOffice versions before 6.1, and all OpenOffice versions, do not recognise .csv data when pasting in the link from step B above. I believe this was a bug which is fixed in version 6.1 onwards

## **Appendix 1**

### **Data available from Google Finance**

These are taken from <https://support.google.com/docs/answer/3093281?hl=en>

"price" - Realtime price quote, delayed by up to 20 minutes.

"priceopen" - The price as of market open.

"high" - The current day's high price.

"low" - The current day's low price.

"volume" - The current day's trading volume.

"marketcap" - The market capitalization of the stock.

"tradetime" - The time of the last trade.

"datadelay" - How far delayed the realtime data is.

"volumeavg" - The average daily trading volume.

"pe" - The price/earnings ratio.

"eps" - The earnings per share.

"high52" - The 52-week high price.

"low52" - The 52-week low price.

"change" - The price change since the previous trading day's close.

"beta" - The beta value.

"change\_pct" - The percentage change in price since the previous trading day's close.

"close\_yest" - The previous day's closing price.

"shares" - The number of outstanding shares.

"currency" - The currency in which the security is priced. Currencies don't have trading windows, so open, low, high, and volume won't return for this argument.