

Business Coverage Tools

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This document's shortlink: <http://bit.ly/googlefinancetools>

- Google free training site: <https://newsinitiative.withgoogle.com/training/>
- Journalist's Toolbox: <https://www.journaliststoolbox.org/> | [@journtoolbox](#)
- Toolbox YouTube (subscribe for free!):
<https://www.youtube.com/channel/UC8CCI01DmsE65wh-qPqjSLQ/videos>
- Toolbox newsletter (subscribe for free!):
<https://journaliststoolbox.substack.com/>

Reference videos

Google Finance training video:

<https://www.youtube.com/watch?v=d9LQsweHy20>

Investigating companies/charities training video:

<https://www.youtube.com/watch?v=s06CIFa1CLM>

Consumer retail tools training video:

<https://www.youtube.com/watch?v=6EMwKlibWgE>

Visualizing business data in Flourish training video:

[\(1\) Journalist's Toolbox: Business Tools, Pt. 3: Visualizing Data in Flourish - YouTube](#)

Part I: Scraping Data from Google Finance

Overview

Open this page: <https://www.google.com/finance/>

Here's our practice spreadsheet, which you can open and make a copy of:
[GOOGLE FINANCE-SCRAPING](#)

Quick list of Google Finance scraping formulas:
<https://support.google.com/docs/answer/3093281?hl=en>

EXERCISES

1. How to pull stock data into a spreadsheet:

Go to our spreadsheet: [GOOGLE FINANCE-SCRAPING](#)

In cell b2, type: =googlefinance(A2,b1) and hit return for the price

In cell c2, type: =googlefinance(A2,c1) and hit return for the price earnings ratio

In cell d2, type: =googlefinance(A2,d1) and hit return for the 52-week high price

Write your own script for a 52-week low column (E):

2. How to scrape historical stock prices:

Paste or type: =GOOGLEFINANCE(a4, "price", "03/10/2020", today(), "daily") in cell E1 to get daily ending prices since March 2020
GOO

Paste or type: =GOOGLEFINANCE(a3, "price", "12/09/2020", today(), "weekly") in cell L1 to get end-of-week prices since March 2020

=GOOGLEFINANCE(a2, "price", "05/06/2020", today(), "weekly")

Paste or type: =GOOGLEFINANCE("SSE", "price", DATE(2021,1,1), DATE(2022,05,06), "Weekly") in cell N1 to get end-of-week prices for the SSE since January 2021

Paste or type: =GOOGLEFINANCE("HSI", "price", DATE(2022,1,1), DATE(2022,07,26), "daily") in cell N1 to get end-of-day prices for the HSI since January 2022

Last 60 days of Tesla prices, paste or type:

```
=GOOGLEFINANCE("NASDAQ:TSLA","price",TODAY()-60,TODAY())
```

These functions will auto update over time so you'll see current prices. It's similar to how data scraping works.

3. Focusing a sheet onto one stock

Set up a sheet to look like this, then in cell B2 under Value, paste this and hit return:

```
=GOOGLEFINANCE("NASDAQ:GOOG",A2)
```

```
=GOOGLEFINANCE("HOKCY",A2)
```

```
=GOOGLEFINANCE("AAPL",A2)
```

```
=GOOGLEFINANCE("NYSE:f",A2)
```

```
=GOOGLEFINANCE("NYSE:vz",A2)
```

```
=GOOGLEFINANCE("XOM",A2)
```

```
=GOOGLEFINANCE("f",A2)
```

	A	B
1	Field	Value
2	Name	
3	Price	
4	Low	
5	High	
6	Change	
7	Changepct	
8	Low52	
9	High52	
10	Volume	
11	Volumeavg	
12	Marketcap	
13	PE	
14	EPS	
15	Shares	
16	Beta	

Then grab the blue square in the lower right of the cell and drag down: It will populate the sheet with data from Apple stock and it'll update as the market changes.

4. **Formulas:** To see any of the formulas, click on the blue ? button on the cell when you type in =GOOGLEFINANCE. You also can see them when you hit return after typing in Googlefinance and you can find many of them listed here: <https://support.google.com/docs/answer/3093281?hl=en>

5. Practice scraping some stocks with this formula:

=GOOGLEFINANCE("STOCK SYMBOL",a1)

6. How to find stock ticker symbols

- a. Type in the stock name into Google Finance and the symbol pops up.
- b. Search the company name, exchange and the words stock symbol on Google
- c. Go to the stock exchange's site and look for the database of them. Examples:

[Stock Analysis: List of All Stock Ticker Symbols](#)

[NASDAQ Stock Screener: Database of Ticker Symbols](#)

[NYSE Listings Directory](#)

***-Find more resources** on the Journalist's Toolbox stock market page in the [Business](#) vertical

7. Scrape the FDIC Failed Banks List (or any other site) with this basic scraping formula:

```
=IMPORTHTML("https://www.fdic.gov/resources/resolutions/bank-failures/failed-bank-list/","table",0)
```

Site:

<https://www.fdic.gov/resources/resolutions/bank-failures/failed-bank-list/>

Other sites to scrape (use blank formulas below):

<https://www.bls.gov/news.release/cpi.t02.htm>

(CPI data from the Bureau of Labor Statistics)

<https://www.geostat.ge/en/modules/categories/195/business-statistics>

(Georgia biz data)

https://www.inmo.ie/Trolley_Ward_Watch

<https://www.transtats.bts.gov/AverageFare/>

```
=IMPORTHTML("https://www.bls.gov/news.release/cpi.t02.htm","table",0)
```

```
=IMPORTHTML("https://violationtracker.goodjobsfirst.org/?company_op=starts&company=&offense_group=&agency_code=EPA","table",0)
```

```
=IMPORTHTML("URL","table",0)
```

```
=IMPORTHTML("URL","table",0)
```

```
=IMPORTHTML("URL","table",0)
```

=IMPORTHTML("URL","table",0)

=IMPORTHTML("URL","table",0)

=IMPORTHTML("URL","table",0)

=IMPORTHTML("URL","table",0)

For more data scraping exercises, go here: <http://bit.ly/spjdatascape>

Data scraping training video:

<https://www.youtube.com/watch?v=vIKwsQPvdHA&feature=youtu.be>

8. Google Public Data Explorer:

<https://www.google.com/publicdata/directory>

Good for quick charts on unemployment, and other finance charts.

9. Dataset search tool: <https://datasetsearch.research.google.com/>

Search: GDP France ... or a local/regional search

Part II: Backgrounding Companies and Charities

Journalist's Toolbox: Investigating Companies:

https://www.journaliststoolbox.org/2022/03/22/proxiesbackgrounding_companies/

Fun Hacks: Shortcuts to set up documents

Type one of these into your browser window:

Sheets.new

Docs.new

SEC EDGAR database:

<https://www.sec.gov/edgar/searchedgar/companysearch.html>

Violation Tracker

<https://www.goodjobsfirst.org/violation-tracker>

The first wide-ranging database on corporate misconduct. Produced by the Corporate Research Project of Good Jobs First, it covers banking, consumer protection, false claims, environmental, wage and hour, safety, discrimination, price-fixing, and other cases resolved by federal regulatory agencies and all parts of the Justice Department since 2000 — plus cases from state AGs and selected state regulatory agencies.

USA Facts: <https://usafacts.org/>

A collection of government-gathered data on a wide range of topics, including business data, from a non-partisan, non-profit organization.

World Bank: Projects by Country

<https://projects.worldbank.org/en/projects-operations/project-country?lang=en&page=>

Look up what countries are spending on COVID-19, development projects and more. Click on the “documents” and “procurement” tabs once you’ve selected the country and download the PDFs. GIJN has a little training video on how to use it here: https://www.youtube.com/watch?v=eU_heixnBMM

Fact-checking: Debunk those “faux experts” in business, medical, science and other reporting:

Dollars for Docs: <https://projects.propublica.org/docdollars/>

Dollars for Profs: <https://projects.propublica.org/dollars-for-profs>

Visualping.io: <https://visualping.io/>

Track when a website is updated

Investigating Private Companies and Startups

Journalist’s Toolbox: Investigating Companies (Public and Private)

https://www.journaliststoolbox.org/2021/12/10/proxiesbackgrounding_companies/

FormDs.com

<https://www.formds.com/>

Track investments into startups, growing businesses, hedge funds, and private equity firms. They do this by sorting, filtering and extracting critical information from the hundreds of SEC filings (called “Form Ds”) filed each day. The site processes SEC filings on a real-time basis and often learns about new

investments before newspapers and online publications. You can search for people, company names, specific industries, or focus on regions or cities.

Part III: Investigating Non-Profits

Journalist's Toolbox: Charities and Form 990s

https://www.journaliststoolbox.org/2022/04/13/form_990scharities/

Guidestar: <https://www.guidestar.org/>

***-Candid 990 Finder:**

<https://candid.org/research-and-verify-nonprofits/990-finder>

The Foundation Center and GuideStar combine their data so journalists can find the most recent Forms 990s from charities and foundations. Free work-around for Guidestar

ProPublica Non-Profit Explorer: <https://projects.propublica.org/nonprofits/>

Search by charity/foundation, state, type of charity or mission/focus.

CharityWatch: Rankings, highest-paid execs, etc.: <https://www.charitywatch.org/>

Charity Watch: Resources for Donors and Journalists

<https://www.charitywatch.org/resources-for-donors>

Charity Watch: State Charity Regulators

<https://www.charitywatch.org/resources-for-donors/state-charity-regulators>

Find who is regulating charities in your state as it varies by government agency. Includes contact information. Also available at the National Association of State Charity Officials <https://www.nasconet.org/resources/state-government/>

Violation Tracker

<https://www.goodjobsfirst.org/violation-tracker>

The first wide-ranging database on corporate misconduct. Produced by the Corporate Research Project of Good Jobs First, it covers banking, consumer protection, false claims, environmental, wage and hour, safety, discrimination, price-fixing, and other cases resolved by federal regulatory agencies and all parts of the Justice Department since 2000 — plus cases from state AGs and selected state regulatory agencies.

IRS Tax-Exempt Organization Search

<https://apps.irs.gov/app/eos/>

National Center for Charitable Statistics

<https://nccs.urban.org/>

Part of the Urban Institute, this site has some older data on charitable giving.

Charity Intelligence Canada

<https://www.charityintelligence.ca/index.php>

Similar to the US's Charity Watch.

The Journalist's Resource: Where to Find Public Records, Data on Charities

<https://journalistsresource.org/home/investigating-nonprofits-and-charities-where-to-find-internal-data-and-public-records/>

The Journalist's Resource: How to Read a Form 990

<https://live-journalists-resource.pantheonsite.io/politics-and-government/think-tanks-writing-research-journalists/>

ProPublica PPP Loan Tracker

<https://projects.propublica.org/coronavirus/bailouts/>

Has details on all 11.5 million approved PPP loans, including how much of each loan has been reported as forgiven. Search by organization name, type, lender or even ZIP code.

VisualPing.io

<https://visualping.io/>

Track updates on websites



Part IV: Consumer Retail and Inflation

Journalist's Toolbox Tools

- Business: <https://www.journaliststoolbox.org/category/business-resources/>
- Expert sources (consumer trends experts):
https://www.journaliststoolbox.org/2021/11/24/expert_sources/
- Consumer retail (inflation)
https://www.journaliststoolbox.org/2022/04/09/consumer_retail_inflation/

- Track gas prices (inflation):
<https://www.journaliststoolbox.org/2022/03/22/gas-prices/>

Inflation Tools

The Consumer Price Index impacts many things: rent, cars, food, utilities, Social Security increases, child support, etc. Mint.com explains the three types of inflation and how to calculate it:

<https://mint.intuit.com/blog/planning/inflation-rate-formula/>

Bureau of Labor Statistics: Consumer Price Index Home Page
<https://www.bls.gov/cpi/>

BLS: CPI Inflation Calculator
<https://data.bls.gov/cgi-bin/cpicalc.pl>

- BLS: Consumer Price Index Database
<https://data.bls.gov/cgi-bin/surveymost?ap>
Look up historical prices for select products

BLS: CPI Average Price Data, U.S. City Average (AP)
<https://data.bls.gov/PDQWeb/ap>

A one-screen data search where you can look up product average prices by US cities overall, regions, etc. Awesome database.

West Egg Inflation Calculator
<https://westegg.com/inflation/>
Good for fact-checking the BLS CPI calculators.

dMarie Time Capsule Almanac
<http://www.dmarie.com/timecap/>
Almanac that lets you type in a date to get product prices and pop culture information from that date. (Average price of bread, gas, car, home, etc.)

Google Public Data Explorer
<https://www.google.com/publicdata/directory>
Create quick CPI graphics using BLS data. Use IMF, World Bank and other data for more business graphics

Google Dataset Search
<https://datasetsearch.research.google.com/>

Video: [Dataset Search](#)

Try searching:

Inflation

US footwear consumer price index

Retail price breakdown of Nike Air Jordan shoes 2015

Google Trends: <https://trends.google.com/trends/>

- Track what people are searching for in Google, as well as in Google shopping

Video: [Google Trends](#)

Google Trends e-newsletter: <http://goo.gle/trendsemail>

Google Trends Newsletter Example (Mike access only):

<https://mail.google.com/mail/u/0/#search/simon+rogers/FMfcgzGqQSTcnLnprJfjnCCGCpfXdFIX>

***-When attributing Google Trends results, use: according to an analysis of Google search data ...**

Articles on Covering Inflation

Columbia Journalism Review: How Not to Report on Inflation

https://archives.cjr.org/the_audit/how_not_to_report_on_inflation.php

Poynter: What Journalists Should Look for in Inflation Figures

<https://www.poynter.org/reporting-editing/2022/what-journalists-should-look-for-in-tomorrows-inflation-figures/>

The Journalist's Resource: People Trust Inflation Forecasts from the Fed More Than Traditional News Stories

<https://journalistsresource.org/economics/inflation-forecasts-federal-reserve-news-media/>

National Federation of Independent Business

<https://www.nfib.com/>

Covers small business needs and has studies on prices and inflation.

Price-Tracking Tools

Keepa: Tracks Amazon product price history

<https://keepa.com/#!>

Free to use but \$189 annual/\$19 monthly subscription gets more data access (daily quota)

Search for some products in Keepa for practice:

32-inch 3-series Roku TV

Adidas men's Adilette shower slides

Sennheiser HD 25 SE monitor headphones

Blink outdoor camera

Another free option: CamelCamelCamel: <https://camelcamelcamel.com/>

Google Shopping: <https://shopping.google.com/>

*** Free results since April 2020**

Search for:

Ashley Tallenger Counter Height Bar Stool

Samsung 32-inch TV

- - Use filters on the left rail to focus on price ranges, size, weight, sellers, etc.

More search shortcuts:

***Search within a site for a topic:** site:amazon.com Blink Outdoor Camera

***Search for a file format/topic:** filetype:xlsx US footwear consumer price index

Site:bls.gov consumer price index

filetype:xlsx gdp by country

"gdp" AROUND(20) "Ireland"

***Search for a price:** camera \$400

***Price range:** camera \$500..\$800

Video: [Search tips](#)

Full list of search shortcuts/operators:

<https://support.google.com/websearch/answer/2466433?hl=en>

Also:

Google Advanced search:

https://www.google.com/advanced_search?hl=en&fg=1

Other Tools and Resources

Lustre

<https://lustre.ai/>

A free, Webby-award-winning product search engine that automatically compares products, prices, and gathers trustworthy reviews in one place. The Chrome extension works on Amazon, so you can see independent product reviews, rather than just random people's comments. Handy on Black Friday or anytime you're overwhelmed with options.

FakeSpot.com

<https://www.fakespot.com/>

Spot and avoid shady sellers, products with dishonest reviews and scam

websites for free with Fakespot for Chrome, Firefox, iOS and Android. Uses AI technology.

FDA: Recalls, Market Withdrawals, & Safety Alerts

<https://www.fda.gov/safety/recalls-market-withdrawals-safety-alerts>

Drugs and food (including pet food) recalled for health and other reasons. Search or download data since mid-2019

FDA: Manufacturer and User Facility Device Experience Database (MAUDE)

<https://www.fda.gov/medical-devices/mandatory-reporting-requirements-manufacturers-importers-and-device-user-facilities/manufacturing-and-user-facility-device-experience-database-maude>

Reports of adverse events involving medical devices (defibrillators, pacemakers, ventilators, etc.)

MedWatch

<https://www.fda.gov/safety/medwatch-fda-safety-information-and-adverse-event-reporting-program>

Safety alerts about medicines, biologics (blood), medical devices, cosmetics, food, etc.

Consumer Complaint Database

<https://www.consumerfinance.gov/data-research/consumer-complaints/>

Complaints about credit cards, banks, loans, debt collectors. State and ZIP code of the complainant are listed but not the name.

International Monetary Fund: World Economic Outlook Data

<https://www.imf.org/en/Data>

A huge database of easily downloadable data on global financial stability

Statista: Global Business and Data Platform

<https://www.statista.com/>

This paid site offers financial and COVID-19 insights and facts from more than 170 industries around the world.

World Bank Open Data

<https://data.worldbank.org/>

Part V: Google Flourish Graphic

Set up a free account on Google Flourish: <https://flourish.studio/>

Then follow the directions below to build a chart on top tech company 2019 employment by race (a grouped bar chart)

1. Open the Top Tech Company Racial Breakdown data file in this folder and download it to your desktop:

<https://drive.google.com/drive/folders/0B4AbFFVbzuMDbVINNnhNMFJQaXM>

2. In Flourish, click on the red “NEW” button.

3. Select the Column chart (grouped) in the first group of graphic options.

4. Make sure you select the “DATA” tab at the top of the interface.

5. Hit the “Import Data” button in the upper right, select the spreadsheet you downloaded. If it asks you to make the data public or private, select “public.” You would select private if you were working on a sensitive topic that you could make public later when you’re ready to publish.

6. Make sure all of the columns are highlighted in pink or purple.

7. Click on the Preview tab to see what the chart looks like

8. In the right column, select the HEADER menu and for Title: type/paste in:
Diversity breakdown of employees at top tech companies

9. Now go down to the FOOTER menu on the right side of the toolbar. Under source name, paste this: Compiled by company reports

11. In the Notes section of the photo, add Graphic: YOUR NAME. Groupon and Instagram figures are from May 2018 and reported in “Diversity in Tech,” by

David McCandless • Other figures were taken from company reports in 2019 and compiled by Evan F. Moore/Sun-Times

12. Hit the Export and Publish button in the upper right and follow the directions.

* Here's what the graphic should look like when you're finished (scroll down):

<https://chicago.suntimes.com/2020/2/17/21076129/shelton-banks-google-facebook-twitter-re-work-training-tech-diversity>

On Your Own: Build this Graphic in Flourish

Top tech company 2019 employment by gender (column chart)

1. Open the Top Tech Company Gender data file in this folder and download it to your desktop:

<https://drive.google.com/drive/folders/0B4AbFFVbzuMDbVINNnhNMFJQaXM>

2. In Flourish, click on the red "NEW" button.

3. Select the Column chart in the first group of graphic options.

4. Make sure you select the "DATA" tab at the top of the interface.

5. Hit the "Import Data" button in the upper right, select the spreadsheet you downloaded. If it asks you to make the data public or private, select "public." You would select private if you were working on a sensitive topic that you could make public later when you're ready to publish.

6. Make sure all of the columns are highlighted in pink or purple.

7. Click on the Preview tab to see what the chart looks like

8. In the right column, select the HEADER menu and for Title: type/paste in:
Gender breakdown of employees at top tech companies

9..Now go down to the FOOTER menu on the right side of the toolbar. Under
source name, paste this: Compiled by company reports

11. In the Notes section of the photo, add Graphic: YOUR NAME. Data compiled
by Evan F. Moore/Chicago Sun-Times

12. Hit the Export and Publish button in the upper right and follow the directions.

* Here's what the graphic should look like when you're finished (scroll down):

<https://chicago.suntimes.com/2020/2/17/21076129/shelton-banks-google-facebook-twitter-re-work-training-tech-diversity>
