



Helping users think with data

Statistical communication at the BoC

"Communication on central bank statistics: unlocking the next level"

Joint Banco de Portugal and IFC Conference

Andrew Geraghty - Bank of Canada

September 20th 2022



A stock photography central

bank...









Bloomberg Billionaires Index

View profiles for each of the world's 500 richest people, see the biggest movers, and compare fortunes or track returns.

As of	Sep	tembe	r /,	20	22

The Bloomberg Billionaires Index is a daily ranking of the world's richest people. Details shout the calculations are provided in the not worth analysis on each billionaire's profile

about the calculations are provided in the net worth analysis on each billionaire's profile page. The figures are updated at the close of every trading day in New York.							
Rank	Name	Total net worth ▼	\$ Last change	\$ YTD change	Country / Region	Industry	
1	Elon Musk	\$251B	+\$6.46B	-\$19.7B	United States	Technology	
2	Jeff Bezos	\$153B	+\$3.41B	-\$39.5B	United States	Technology	
3	Gautam Adani	\$143B	-\$532M	+\$66.3B	India	Industrial	
4	Bernard Arnault	\$132B	+\$2.07B	-\$45.5B	France	Consumer	
5	Bill Gates	\$115B	+\$1.57B	-\$23.5B	United States	Technology	
6	Larry Page	\$100B	+\$2.22B	-\$28.4B	United States	Technology	
7	Warren Buffett	\$97.8B	+\$1.19B	-\$11.1B	United States	Diversified	





Not that anybody asked, but <u>@JeffBezos</u>' 150-Billion dollars, can stack four miles high. And with what's left over, if laid end-to-end, can circle Earth 178 times, and then reach the Moon...and back...twenty times.

And it still leaves a half-million dollars for him to play with.



8:46 PM · Jul 18, 2019



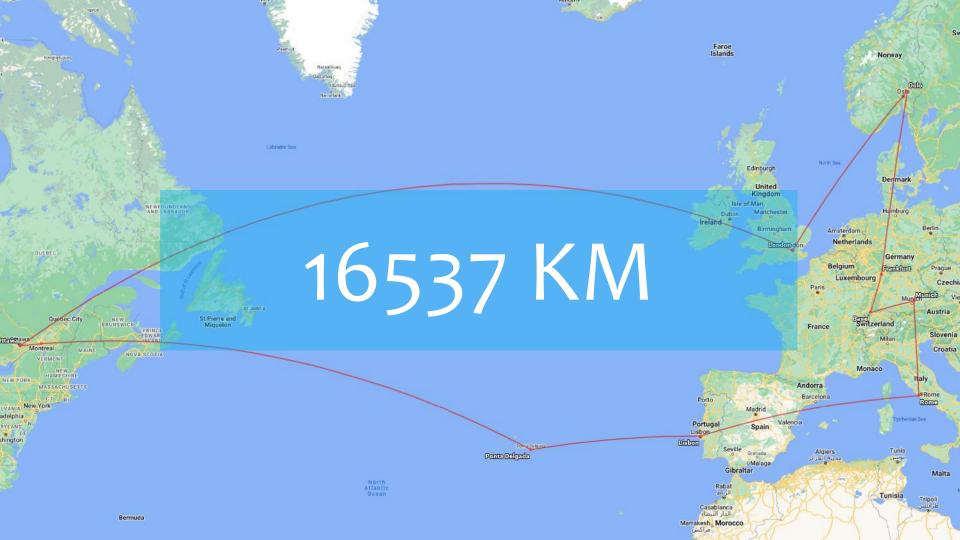
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sense-mak·ing/'sens mākiNG/(noun) of making sense of or giving meaning to something, especially new developments and collective experiences

the action or process

"All the News That's Fit to Print"

The New Hork Times

Late Edition

Today, morning clouds giving way to sunshine by the afternoon, high 65. Tonight, cloudy, low 54. Tomorrow, clouds giving way to sunshine, high 70. Weather map is on Page 23.

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NEW YORK, SUNDAY, MAY 24, 2020

\$6.00

U.S. DEATHS NEAR 100,000, AN INCALCULABLE LOSS

They Were Not Simply Names on a List. They Were Us.

Numbers alone cannot possibly measure the impact of the coronavirus on America, whether it is the number of patients treated. jobs interrupted or lives cut short. As the country nears a grim milestone of 100,000 deaths attributed to the virus. The New York Times scoured obituaries and death notices of the victims. The 1,000 people here reflect just 1 percent of the toll. None were mere numbers.

Patricia Dowd, 57, San Jose, Calif., auditor in Silicon Valley · Marion Krueger, 85, Kirkland, Wash., greatgrandmother with an easy laugh . Jermaine Ferro, 77, Lee County, Fla., wife with little time to enjoy a new marriage · Cornelius Lawver, 84, Bellevue, Wash., sharecropper's son · Loretta Mendoza Dionisio, 68, Los Angeles, cancer survivor born in the Philreal jokester · Michael Sorkin, 71, New York City, champion of social justice through architecture · George Valentine, 66, Washington, D.C., lawver who mentored others · James Quigley, 77, Chicago, rebel of the family · Sherman Pittman, 61, Chicago, dedicated his life to his church and his neighborhood . Susan McPherson Gottsegen, 74, Palm Beach, Fla., loyal and generous friend to many · Andreas Koutsoudakis, 59, New York City, trailblazer for TriBe-Ca · Bob Barnum, 64, St. Petersburg, Fla., leader in Florida Pride events . Noel Sinkiat, 64, Olney, Md., nurse planning for retirement . Thomas E. Anglin, 85, Cumming, Ga., created many wonderful memories for his family · Robert Manley Argo Jr., 75, South Bay, Calif., member of Del Amo Flyers · Michael McKinnell, 84, Beverly, Mass., architect of Boston's monumental City Hall · Huguette Dorsey, 94, Somerville, N.J., coached several championship-winning junior high girls basketball teams . Lynne Sierra, 68, Roselle, Ill., grandmother who was always full of ideas . Louvenia Henderson, 44, Tonawanda, N.Y., proud single mother of three . Carol Sue Rubin, 69, West Bloomfield, Mich., loved travel, mahjong and crossword

iazz trumpet virtuoso · Cristina, 64, 1 New York City, downtown New York singer with a cult following . Robert H. Westphal, 75, Fond du Lac, Wis., statesman in the construction industry · Clair Dunlap, 89, Washington, pilot still teaching people to fly at 88 . Marylou Armer, 43, Sonoma Valley, Calif., veteran police detective · Regina D. Cullen, 81, Shrewsbury, Mass., small in stature but strong in spirit . Sandra Santos-Vizcaino, 54, New York City, beloved public school teacher . Frank Gabrin, 60, New York City, emergency room doctor who died in husband's arms . Sterling E. Matthews, 60, Midlothian, Va., cancer survivor who served as a deacon · Alby Kass, 89, California, lead singer of a Yiddish folk group · Roger Eckart, 78, Indiana, retired firefighter and old-school barber · Martin Douglas, 71, New York City, maestro of a steel-pan band · Daniel Spector, 68, Memphis, mentor to other Memphis artists · Mary Minervini, 91. Oak Lawn, Ill., sign-language interpreter · Salomon S. Podgursky, 84, Morristown, N.J., loved to figure out how things worked . Dale E. Thurman, 65, Lexington, Kv., tailor known for his exacting work and strong opinions . Ellis Marsalis, 85, New Orleans,

outdoorsman · Viraf Darukhanawalla, 77, Hoffman Estates, Ill., worker at O'Hare International Airport · Chester Dwulet, 68, Burlington, Mass., proud Union Ironworker of Local 7 for 45 years . John Timothy Barr, 76, Rochester Hills, Mich., trustee for the Retired Detroit Police and Firefighters Association · Julie Butler, 62, New York City, veterinarian who served Harlem · Lila A. Fenwick, 87, New York City, first black woman to graduate from Harvard Law School · Vincent Lionti, 60, New York City, Met Opera violist and vouth orchestra conductor · Ann Youngerman Smoler, 87. New York City, had a passion for social justice · Thomas Waters, 56, New York City, armed the affordable housing movement with data and analysis Luke Workoff, 33, Huntington, N.Y. his relentless passion was for his family and friends . José Díaz-Avala, 38, Palm Beach, Fla., served with the Palm Beach County Sheriff's Office for 14 years · Antonio Nieves, 73, Chicago, always seemed to be busy with some home project · Jeanne Hammond Byrnes, 97. Danbury, Conn., received numerous awards for her accounting skills . Alice Coopersmith

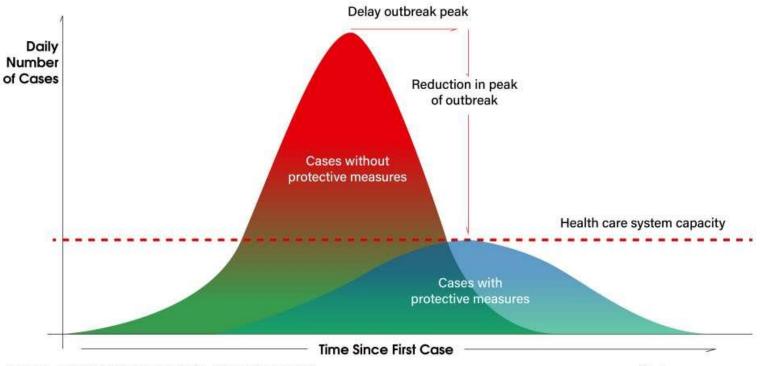
Bailargeon, 72, Dennisport, Mass., true | spirit - Jack Butler, 78, Indiana, lived in the house he grew up in . Susan Grey Hopp Crofoot, 97, Westwood, N.J., took great joy in writing little ditties under her pen name, Penelope Penwiper · James David Gewirtzman, 72. New City, N.Y., spent some of his happiest hours hiking in the Adirondacks Henry F. Graff, 98, Greenwich, Conn., Columbia University historian of U.S. presidents · Mari Jo Davitto, 82, Thornton, Ill., people were her hobby · Yaakov Perlow, 89, New York City, leader of the Novominsker Hasidic dynasty · Joseph F. Kelly, 81, New York City, did two tours through the Panama Canal to Antarctica · John Prine. 73, Nashville, country-folk singer who was a favorite of Bob Dylan . Perry Buchalter, 63, Florida, quiet hero . Monica Maley, 74, Rehoboth Beach, Del., loved animals, had dogs and cats, and rode horses · Thomas Tarbell Russell, 83, Longmeadow, Mass., mentored by the computer science pioneer Grace Hopper · Ruth Skapinok, 85, Roseville, Calif., backyard birds were known to eat from her hand . Faralyn Havir, 92, Minnesota, her favorite thing was meeting new people . Torrin Jamal Howard, 26, Waterbury, Conn., gentle giant, athlete and musi-

II, 69, Fremont, Ohio, known throughout Ohio for his knowledge of local history · Harley E. Acker, 79, Troupsburg. N.Y., discovered his true calling when he started driving a school bus . Arlola Rawls, 81, Chicago, caretaker of her neighborhood · Roger Liddell, 65, Flint, Mich., brought smiles to everyone he interacted with . Luther Coleman, 108, Evergreen Park, Ill., man who seemed to know everything . Denise Camille Buczek, 72, Bristol, Conn., loved writing birthday and holiday cards, poems and lists · Charles Constantino, 86, Menlo Park, N.J., worked 40 years for The New York Times . Ben Doherty, 83, Boston, stockbroker who founded Doherty Financial Services · John Horton Conway, 82, New Brunswick, N.J., mathematician known as the "magical genius" . Stanlev Chera, 77, New York City, developer and friend of the president . Robby Browne, 72, New York City, Realtor and philanthropist who socialized with celebrities · Wynn Handman, 97, New York City, acting teacher and a founder of the American Place Theater . Adam Kovacs, 72, New York City, cartoonist and an expert on musicals . Peter Brown, 53, New Jersey, manager of the S.W. Brown & Son Funeral

narratives is becoming part of every leader's job.

Transforming numbers into

Flattening The Curve



Source: adapted from the CDC / The Economist

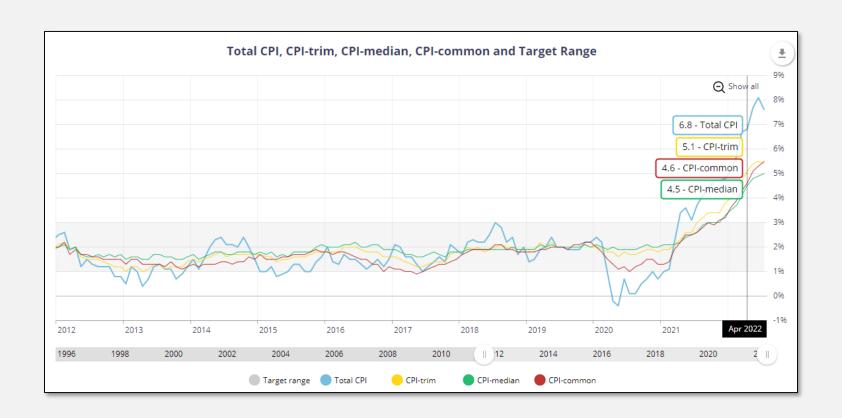
iflscience.com

We are Canada's central bank. We work to preserve the value of money by keeping inflation low and stable.

"

Policy interest rate 3.25% Sep 7, 2022 7.6%
Jul 2022

CPI-trim	5.4%	Jul 2022
CPI-median	5.0%	Jul 2022
CPI-common	5.5%	Jul 2022



We are working at shaping data into narratives that make clearer recommendations and inspire others to act.

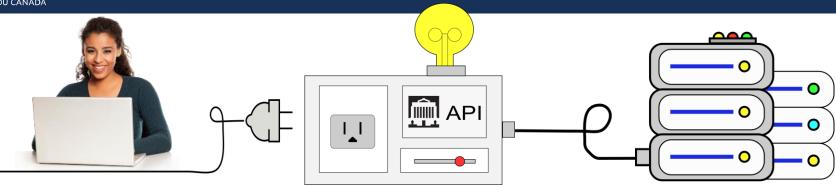
The key attributes of success don't live in our products or data offerings.



Ensuring that others understand what you are proposing must trump any personal or professional preferences you have regarding data.

Application Programming Interface





DEVELOPERS

access our assets through API to build **mobile** and **web applications** based on the data we share

THE API

provides universal access to whatever assets we choose to share. Developers can "**plug in**" their apps and data

ASSETS

our data, software (and brand) become more valuable being leveraged by partners, developers and 3rd party services



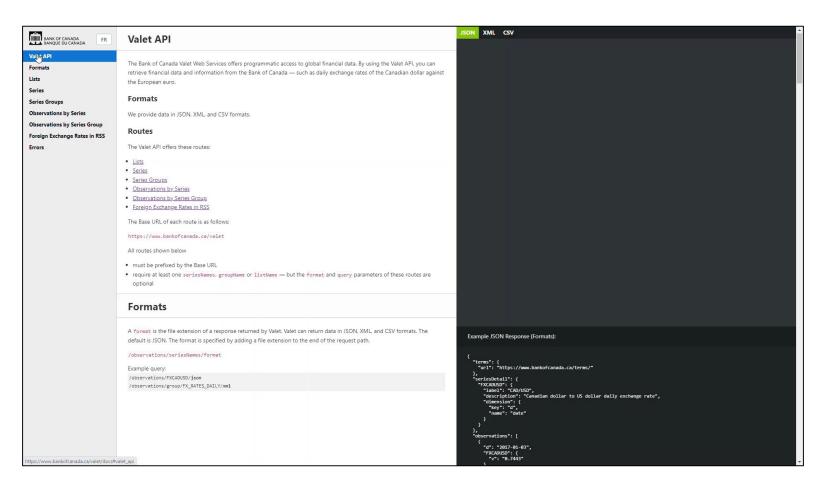
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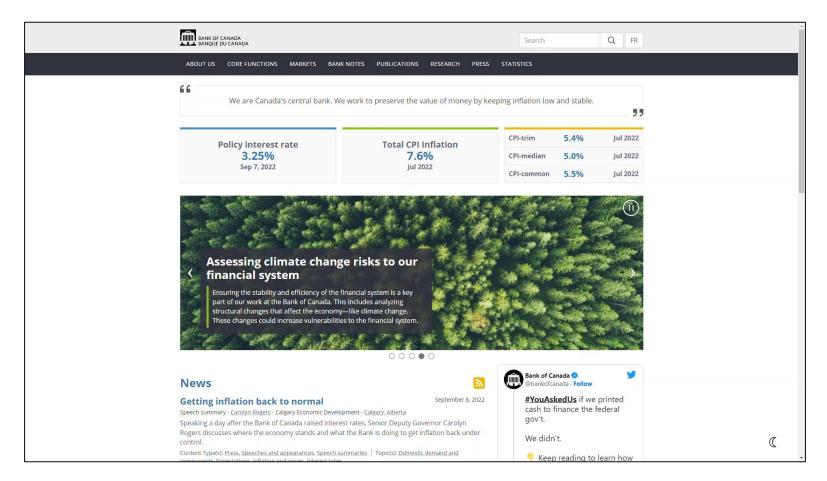
have access to apps that provider richer experiences by leveraging the data and services of other apps

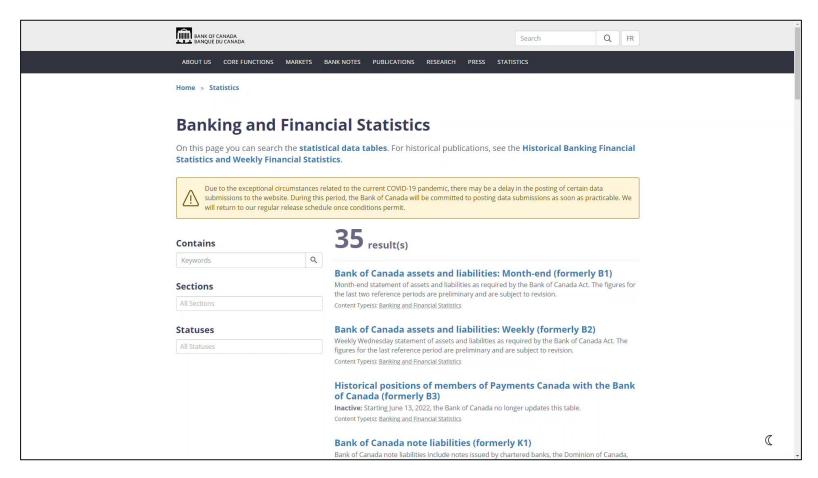
- ~ 10,249 series
- ~ 3.7 million data observations
 - >140 BoC users (10% Robots)
- > 500,000 public requests per day

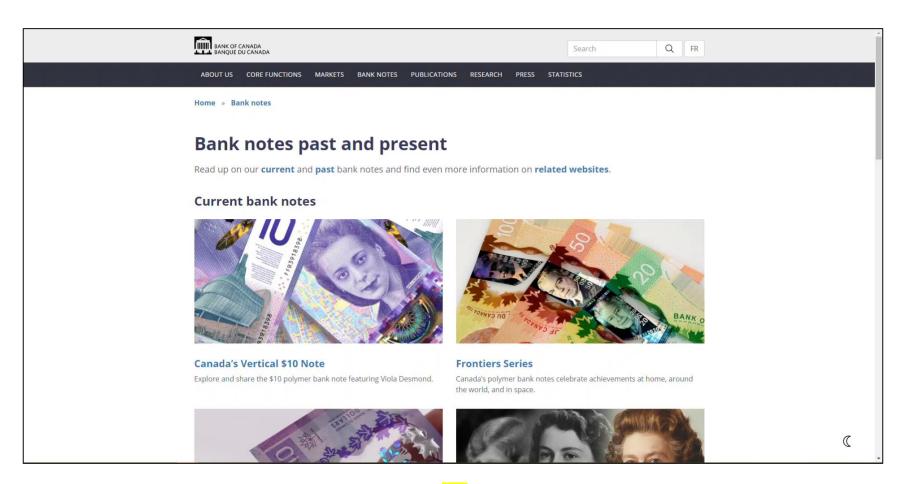


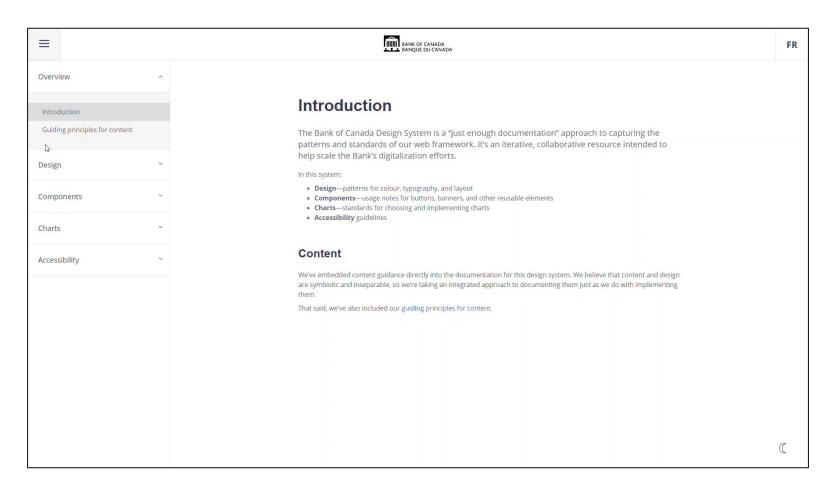
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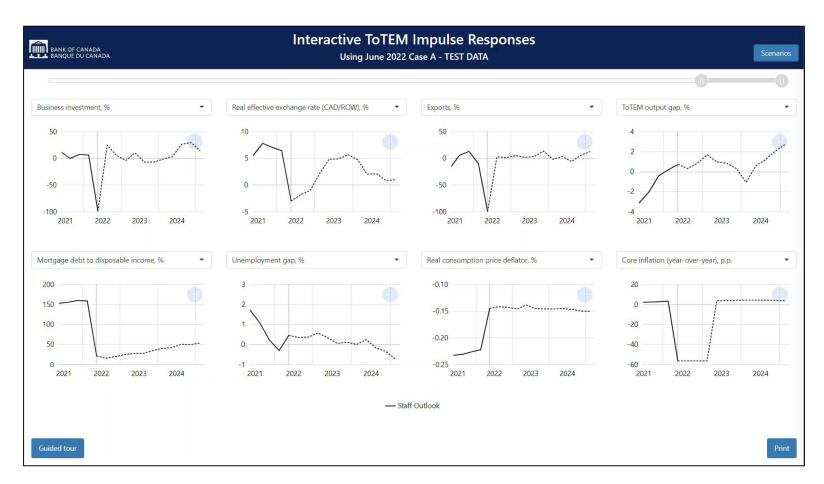












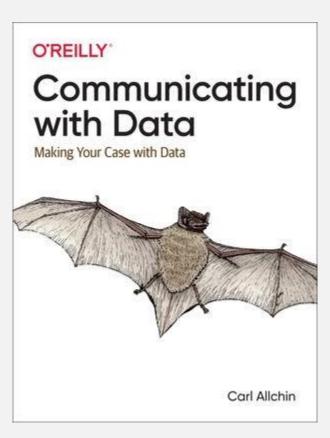


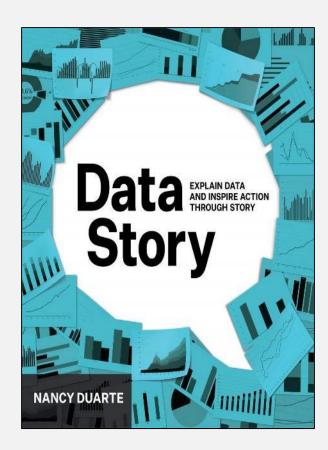


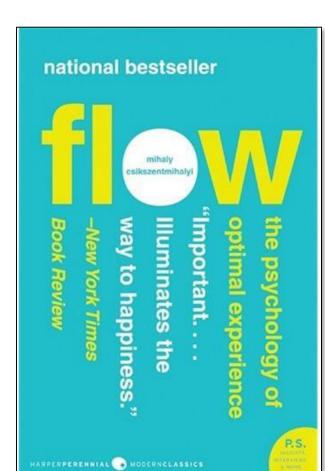


Influencing action

- Move from making sense to making meaning by developing a sense of scale
- Transform numbers into narratives that build shared understanding
- Give people a sense of control, let them pull the levers sometimes
- Create experiences that leave people feeling creative, smart, powerful and included







https://bit.ly/31phU4W data