

Computational Analysis of Big Data

Week 3

Getting data—scraping and APIs

Overview

The data is already there

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- Company data can give insight into your own **research** questions
- Market data can inform about **trends** that you may want to react upon
- You can **sell it**
- You can **combine multiple sources** and get unique insight that no one else has

Why do we want other people's data?

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How Facebook could stop a disease outbreak

January 3, 2018



Credit: National Cancer Institute

Facebook accounts and telephone records can be used to pinpoint the best individuals to vaccinate to stop a disease outbreak in its tracks, researchers said Wednesday.

Such people would be "central" in their social networks, and thus likelier to spread disease-causing germs from one group to another.

Assuming there is an outbreak, and not enough vaccines for every person in the world, immunising these well-connected individuals would remove social "bridges" by which germs can spread, experts wrote in the *Journal of the Royal Society Interface*.

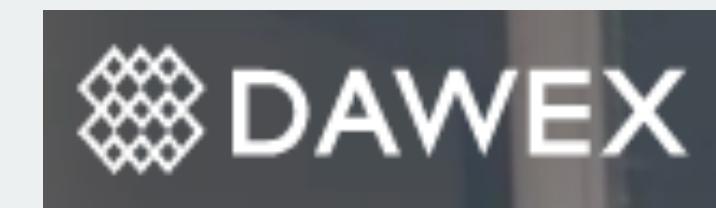
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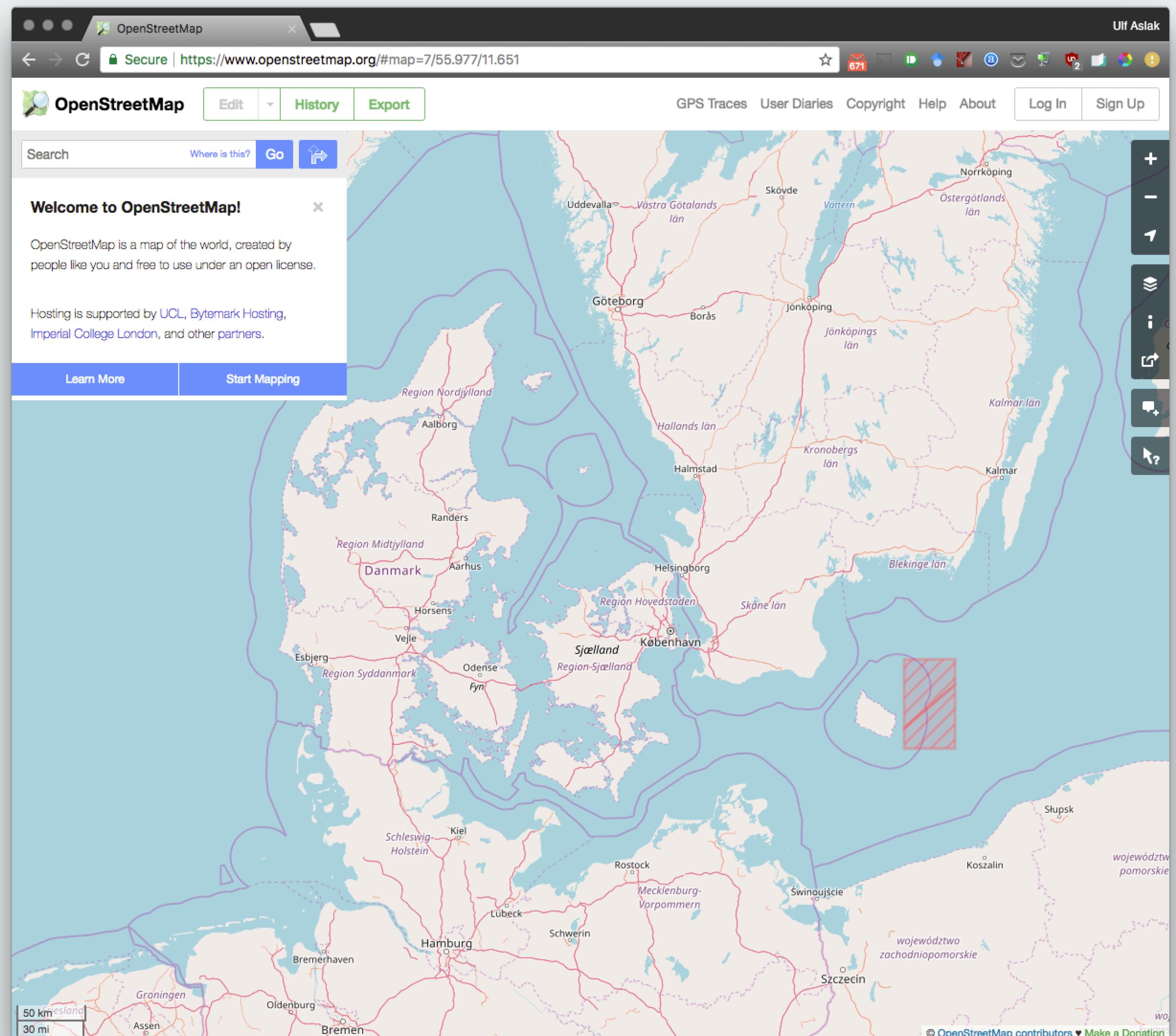
There are three main ways of getting existing data

- Get **open data** from public institutions, researchers or data sharing sites.
- Request it from someones **API**. Is very easy, but usually has limits.
- Forcefully take it by **scraping** it from a website

Open data

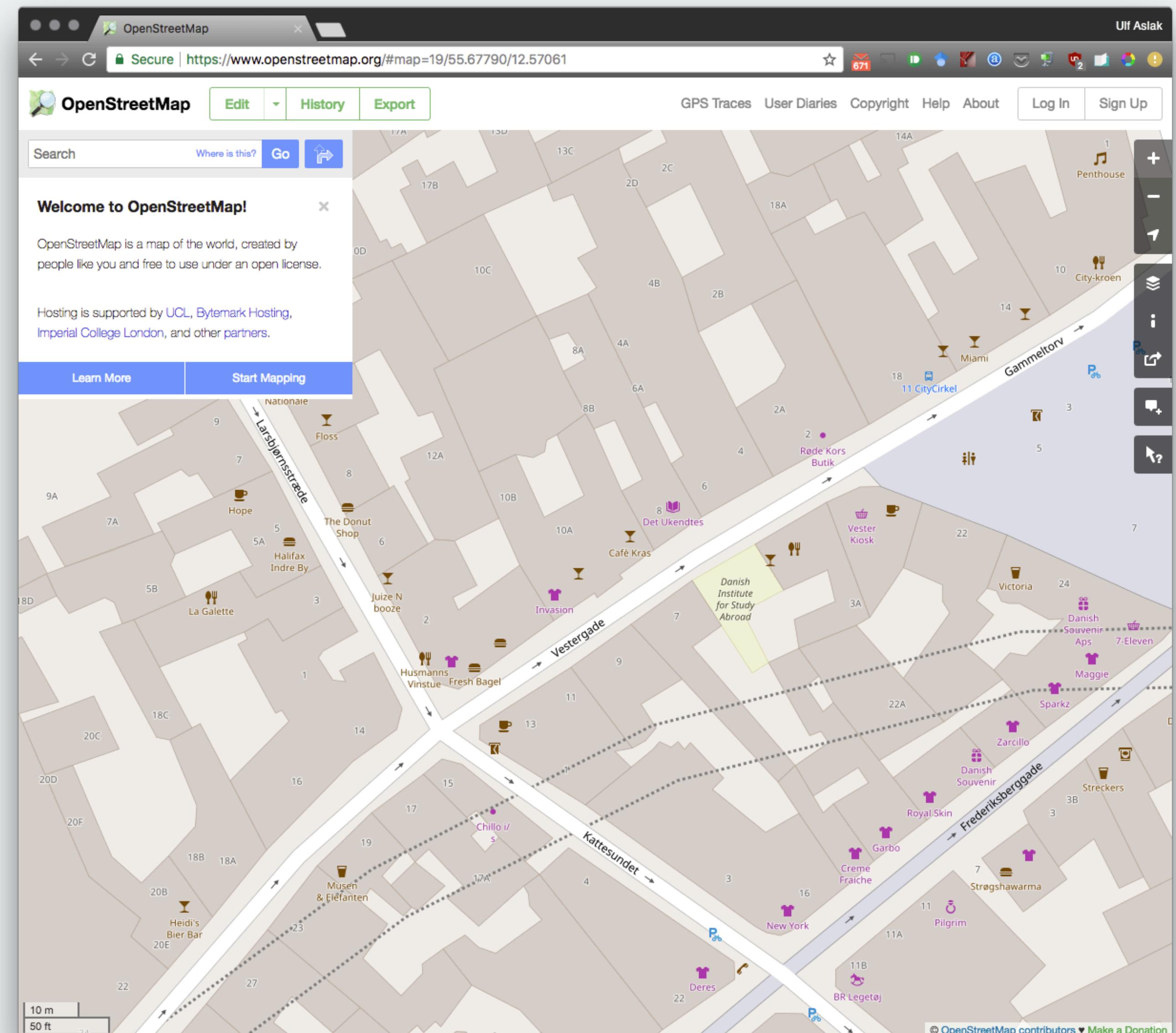
Open data

- Geographical data
- City data
- Political data
- Research data
- Competition datasets
- Transactional data



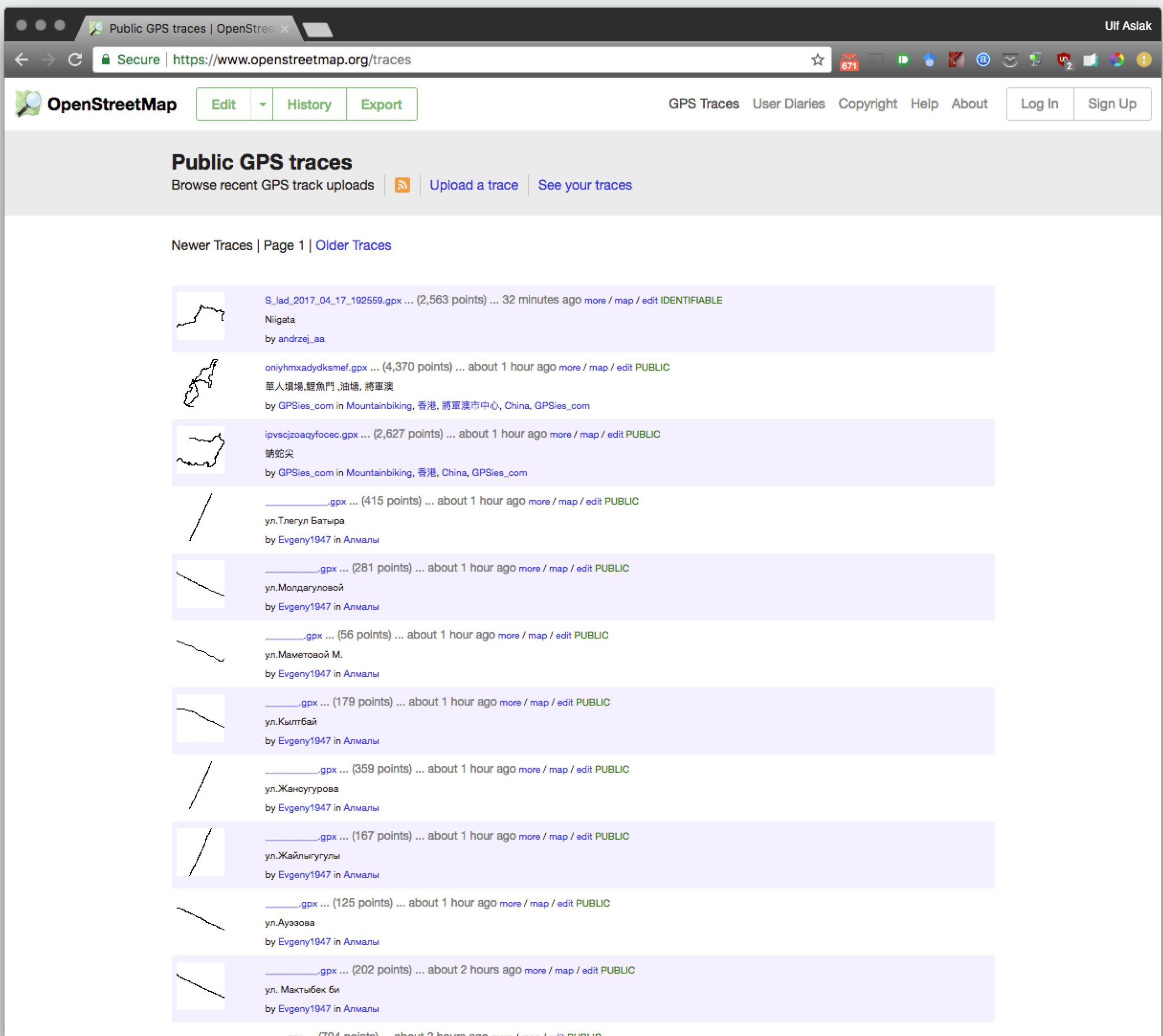
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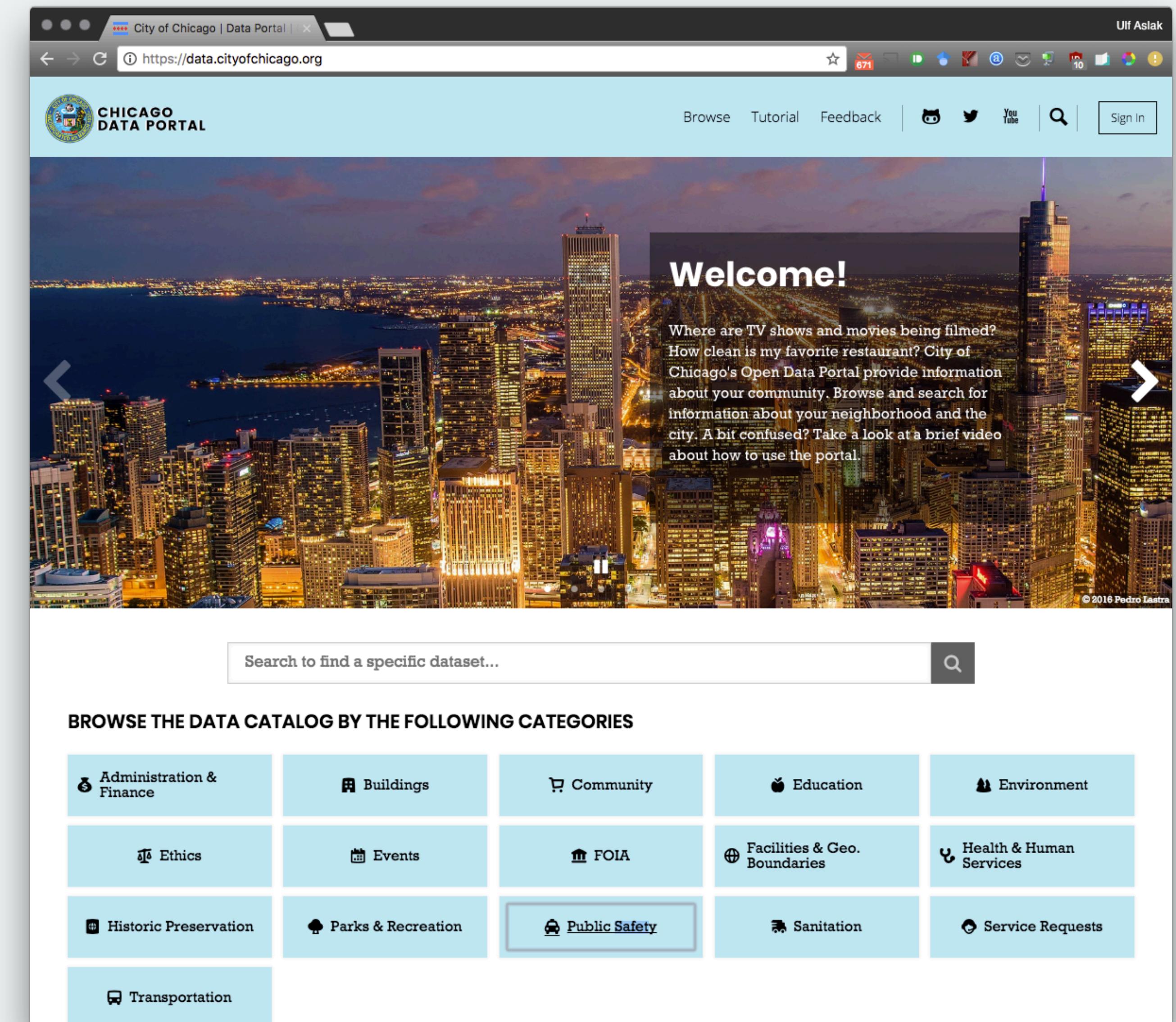
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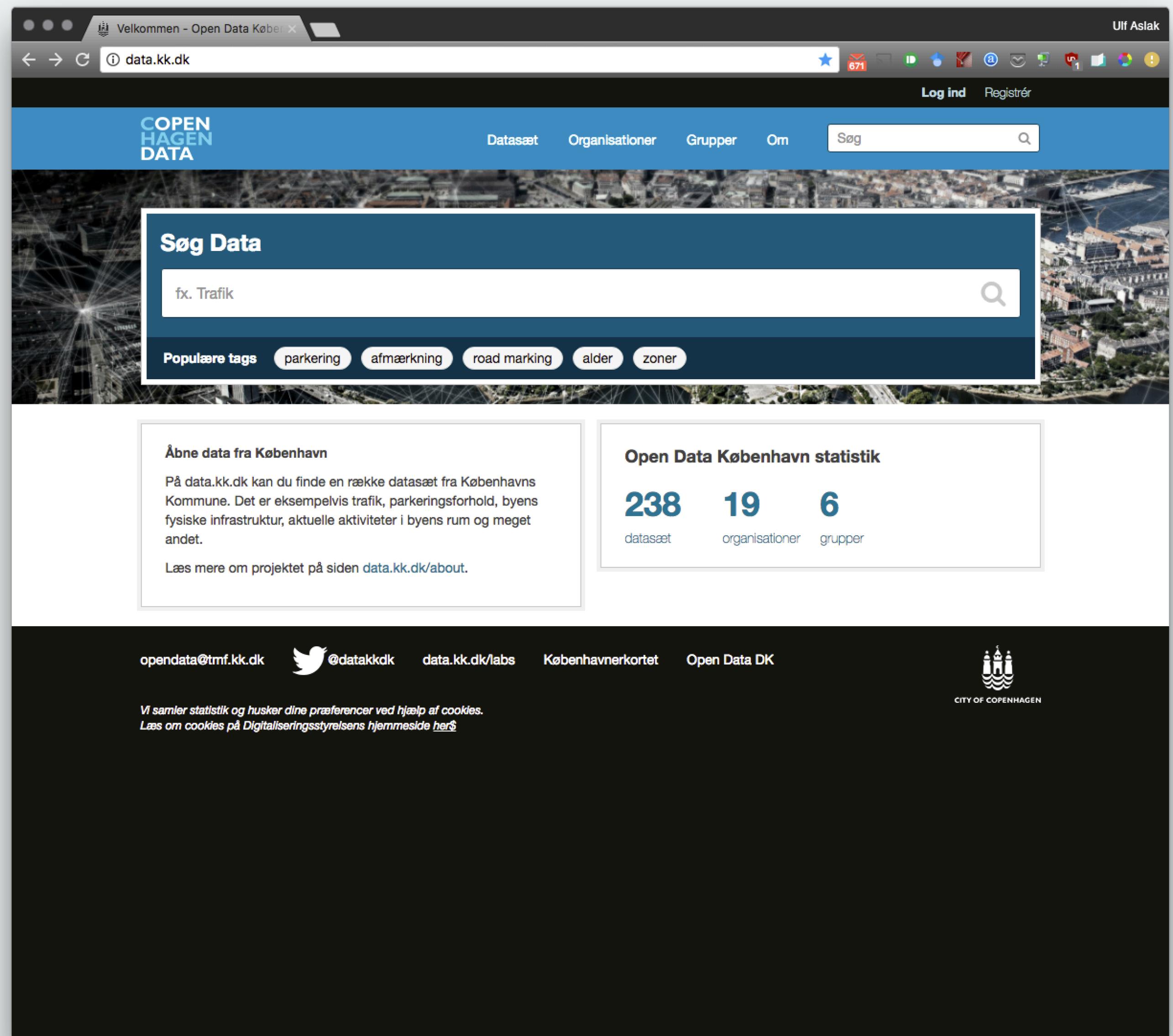
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The screenshot shows the Chicago Data Portal interface for the 'Crimes - 2001 to present' dataset. The top navigation bar includes links for 'Browse', 'Tutorial', 'Feedback', and social media sharing options. The main content area displays the dataset title 'Crimes - 2001 to present' under the 'Public Safety' category. A detailed description of the dataset is provided, mentioning it reflects reported incidents of crime from 2001 to present, minus the most recent seven days. It is extracted from the Chicago Police Department's CLEAR system. The dataset was updated on January 31, 2018, and is provided by the Chicago Police Department. Below the description, there is a section titled 'Featured Content Using this Data' which lists three related datasets: 'Crimes - 2001 to present - Dashboard', 'Crimes - 2001 to present - Map', and 'Crimes - 2018'. Each featured item has a thumbnail, a creation date, a view count, and a brief description. At the bottom, there is an 'About this Dataset' section with details like update frequency (January 31, 2018), metadata (Time Period: 2001 to present, minus the most recent seven days; Frequency: Data are updated daily; Data Owner: Police), and topics (Category: Public Safety).

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Open data

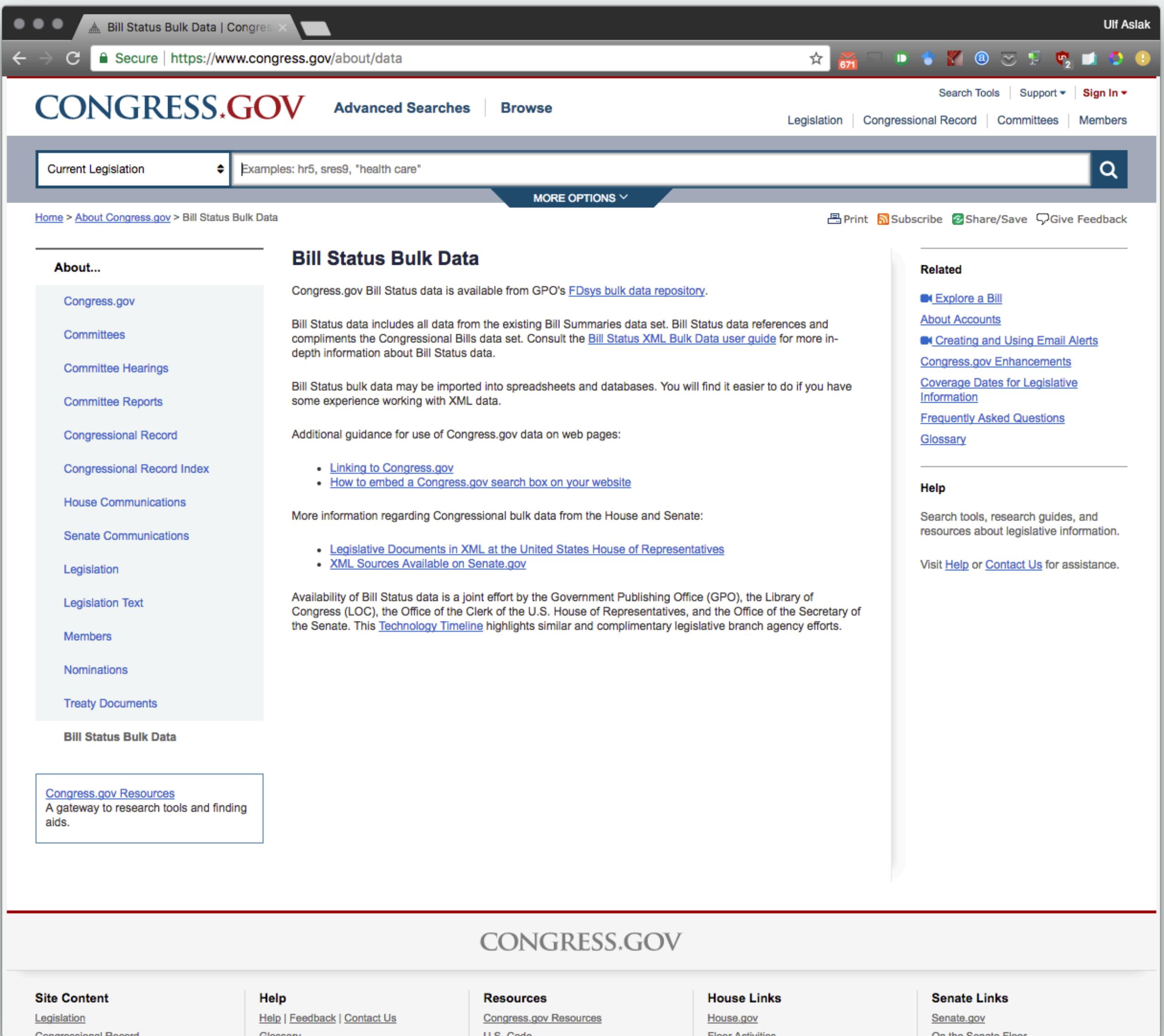
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The screenshot shows a search results page from Congress.gov. The search query is "homeland security", "medicare". The results are filtered by "Congressional Record". There are 1-100 of 577,488 results, sorted by Issue Date - Newest to Old. The results are grouped by category:

- CONGRESSIONAL RECORD**
 - 1. Daily Digest - Next Meeting of the SENATE + Next Meeting of the HOUSE OF REPRESENTATIVES + Other End Matter
Issue and Section: January 30, 2018 - Daily Digest (Vol. 164, No. 20)
Page: D105 (PDF)
 - 2. Daily Digest - COMMITTEE MEETINGS FOR 2018-02-02
Issue and Section: January 30, 2018 - Daily Digest (Vol. 164, No. 20)
Page: D105 (PDF)
 - 3. Daily Digest - NEW PUBLIC LAWS
Issue and Section: January 30, 2018 - Daily Digest (Vol. 164, No. 20)
Page: D105 (PDF)
 - 4. Daily Digest - House Committee Meetings
Issue and Section: January 30, 2018 - Daily Digest (Vol. 164, No. 20)
Page: D103 (PDF)
 - 5. Daily Digest - House of Representatives
Issue and Section: January 30, 2018 - Daily Digest (Vol. 164, No. 20)
Page: D102 (PDF)
 - 6. Daily Digest - Senate Committee Meetings
Issue and Section: January 30, 2018 - Daily Digest (Vol. 164, No. 20)
Page: D101 (PDF)
- Congress**
 - Check all
 - 115 (2017-2018) [30,903]
 - 114 (2015-2016) [49,933]
- Chamber of Origin**
- Congressional Record Year and Volume**
- Congressional Record Section**
- Member Remarks in the Congressional Record**

Open data

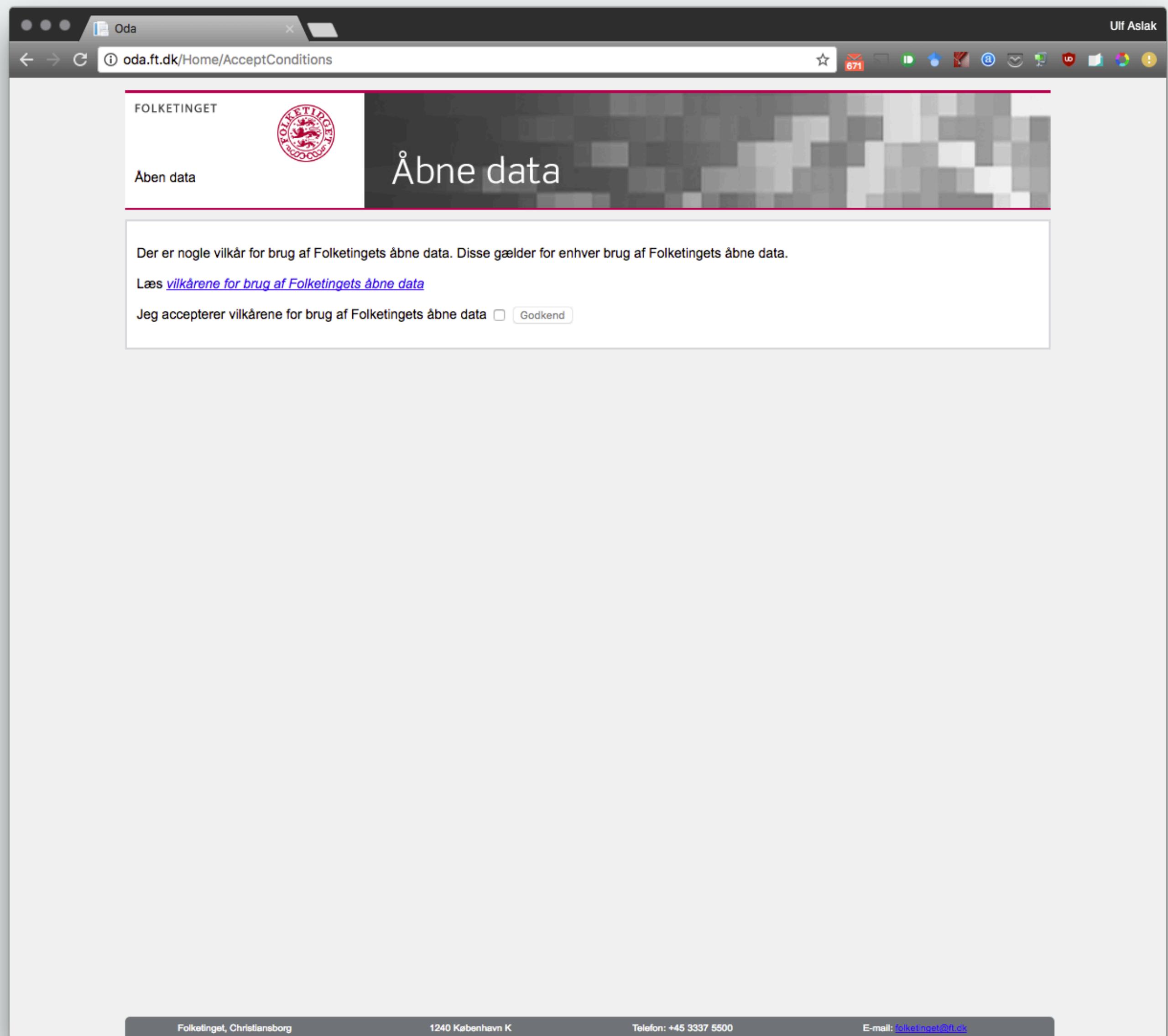
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The screenshot shows the 'Bill Status Bulk Data' page on the CONGRESS.GOV website. The URL in the address bar is <https://www.congress.gov/about/data>. The page title is 'Bill Status Bulk Data | Congress.gov'. The main content area is titled 'Bill Status Bulk Data' and contains information about the availability of Bill Status data from GPO's FDsys bulk data repository. It includes links for 'Linking to Congress.gov' and 'How to embed a Congress.gov search box on your website'. Below this, there is information about Congressional bulk data from the House and Senate, with links to 'Legislative Documents in XML at the United States House of Representatives' and 'XML Sources Available on Senate.gov'. A sidebar on the left is titled 'About...' and lists various Congress.gov resources. A sidebar on the right is titled 'Related' and lists links to 'Explore a Bill', 'About Accounts', 'Creating and Using Email Alerts', 'Congress.gov Enhancements', 'Coverage Dates for Legislative Information', 'Frequently Asked Questions', and 'Glossary'. At the bottom, there is a 'Help' section with a link to 'Help or Contact Us'.

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SocioPatterns.org

www.sociopatterns.org

SocioPatterns

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follow us on [twitter](#)

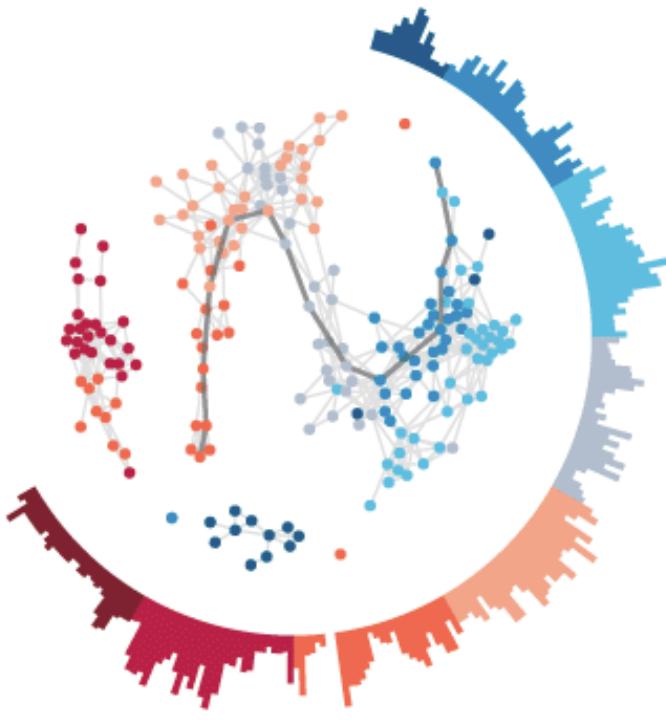
WELCOME

SocioPatterns is an interdisciplinary research collaboration formed in 2008 that adopts a data-driven methodology to study social dynamics and human activity.

Since 2008, we have collected longitudinal data on the physical proximity and face-to-face contacts of individuals in numerous real-world environments, covering widely varying contexts across several countries: schools, museums, hospitals, etc. We use the data to study human behaviour and to develop agent-based models for the transmission of infectious diseases.

We make most of the collected data freely available to the scientific community.

FEATURED: INFECTIOUS SOCIOPATTERNS POSTER




Left: One of the sixty-nine daily diagrams of contact activity. Right: Thumbnail of the poster with the complete visualization and accompanying text.

We have created a visualization of sixty-nine days of face-to-face contact activity among more than 30,000 persons based on data collected during the [INFECTIOUS: STAY AWAY](#) exhibition in the Science Gallery in Dublin, Ireland. This visualization is published in our [gallery](#) as a poster that can be freely downloaded.

[READ MORE ...](#)

COLLABORATION MEMBERS

This website uses technical cookies to improve your experience. By using the website you agree with the privacy policy. [Accept](#) [Read More](#)

Percentage of removed nodes: 8%, 10%, 20%, 30%, 40%

sample

W WS

0

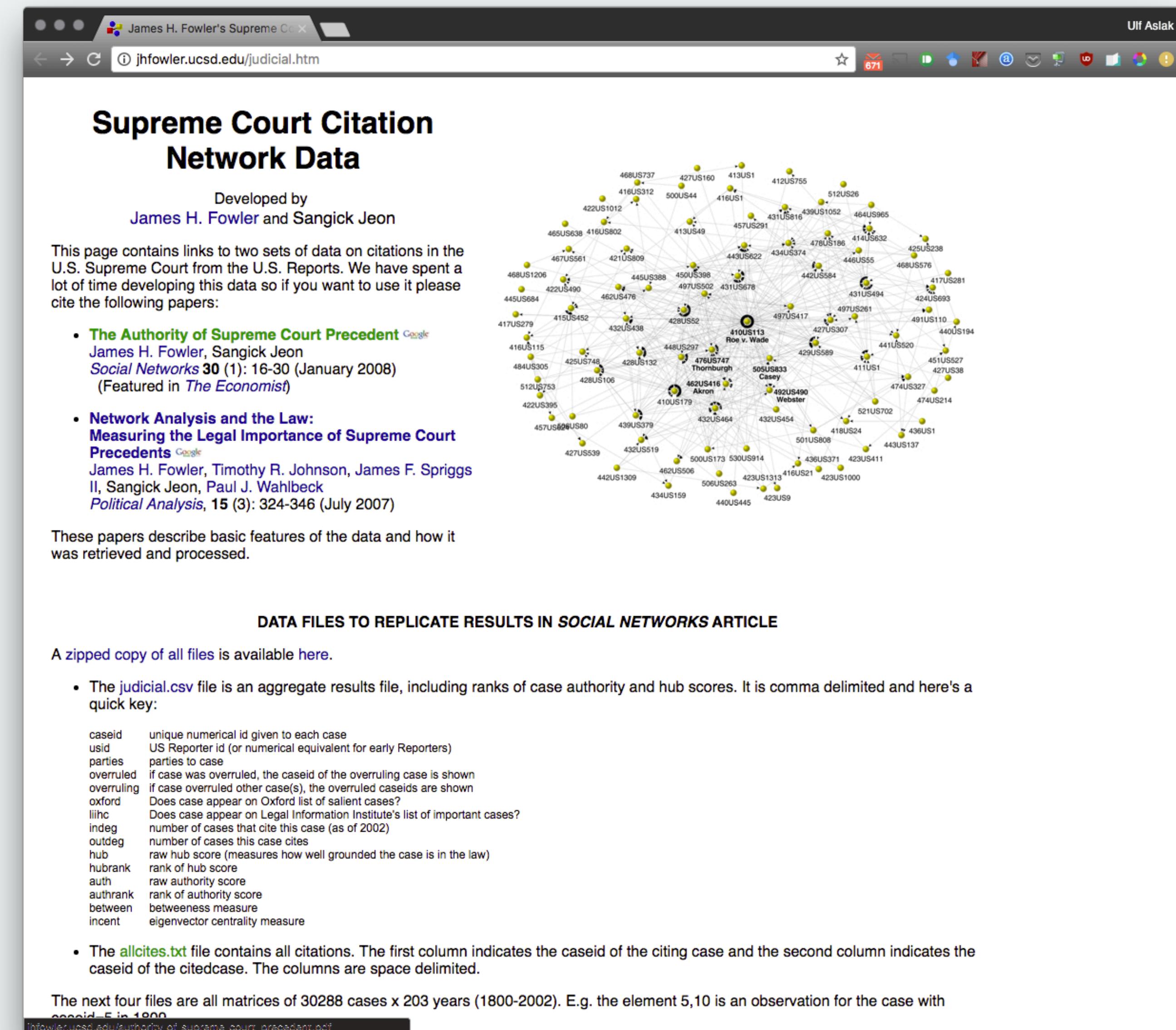
Epidemic size

Epidemic rate

10⁻⁷ 10⁻⁶ 10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10²

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Description lawyers data Lazega

This data set comes from a network study of corporate law partnership that was carried out in a Northeastern US corporate law firm, referred to as *SG&R*, 1988-1991 in New England. It includes (among others) measurements of networks among the 71 attorneys (partners and associates) of this firm, i.e. their strong-coworker network, advice network, friendship network, and indirect control networks. Various members' attributes are also part of the dataset, including seniority, formal status, office in which they work, gender, lawschool attended, individual performance measurements (hours worked, fees brought in), attitudes concerning various management policy options, etc.

This dataset was used to identify social processes such as bounded solidarity, lateral control, quality control, knowledge sharing, balancing powers, regulation, etc. among peers.

The ethnography, organizational and network analyses of this case are available in Lazega (2001).

[Download the data set.](#)

Background:

- What do corporate lawyers do? Litigation and corporate work.
- Division of work and interdependencies.
- Three offices, no departments, built-in pressures to grow, intake and assignment rules.
- Partners and associates: hierarchy, up or out rule, billing targets.
- Partnership agreement (sharing benefits equally, 90% exclusion rule, governance structure, elusive committee system) and incompleteness of the contracts.
- Informal, unwritten rules (ex: no moonlighting, no investment in buildings, no nepotism, no borrowing to pay partners, etc.).
- Huge incentives to behave opportunistically ; thus the dataset is appropriate for the study of social processes that make cooperation among rival partners possible.

Sociometric name generators used to elicit coworkers, advice, and 'friendship' ties at SG&R:

"Here is the list of all the members of your Firm."

Strong coworkers network:
 "Because most firms like yours are also organized very informally, it is difficult to get a clear idea of how the members really work together. Think back over the past year, consider all the lawyers in your Firm. Would you go through this list and check the names of those with whom you have worked with. [By "worked with" I mean that you have spent time together on at least one case, that you have been assigned to the same case, that they read or used your work product or that you have read or used their work product; this includes professional work done within the Firm like Bar association work, administration, etc.]"

Basic advice network:
 "Think back over the past year, consider all the lawyers in your Firm. To whom did you go for basic professional advice? For instance, you want to make sure that you are handling a case right, making a proper decision, and you want to consult someone whose professional opinions are in general of great value to you. By advice I do not mean simply technical advice."

'Friendship' network:
 "Would you go through this list, and check the names of those you socialize with outside work. You know their family, they know yours, for instance. I do not mean all the people you are simply on a friendly level with, or people you happen to meet

Open data

- Geographical data

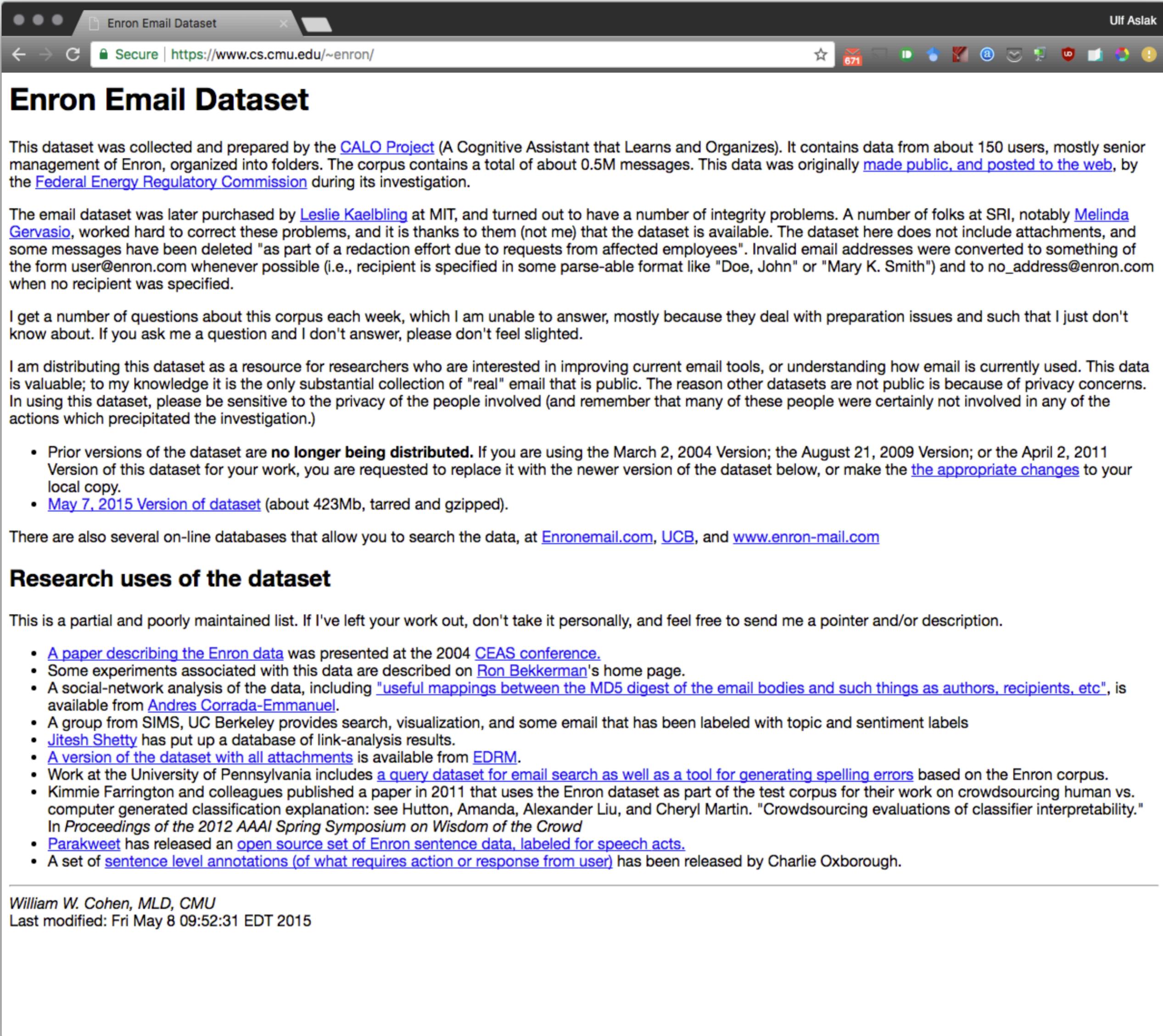
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Enron Email Dataset

This dataset was collected and prepared by the [CALO Project](#) (A Cognitive Assistant that Learns and Organizes). It contains data from about 150 users, mostly senior management of Enron, organized into folders. The corpus contains a total of about 0.5M messages. This data was originally [made public, and posted to the web](#), by the [Federal Energy Regulatory Commission](#) during its investigation.

The email dataset was later purchased by [Leslie Kaelbling](#) at MIT, and turned out to have a number of integrity problems. A number of folks at SRI, notably [Melinda Gervasio](#), worked hard to correct these problems, and it is thanks to them (not me) that the dataset is available. The dataset here does not include attachments, and some messages have been deleted "as part of a redaction effort due to requests from affected employees". Invalid email addresses were converted to something of the form user@enron.com whenever possible (i.e., recipient is specified in some parseable format like "Doe, John" or "Mary K. Smith") and to no_address@enron.com when no recipient was specified.

I get a number of questions about this corpus each week, which I am unable to answer, mostly because they deal with preparation issues and such that I just don't know about. If you ask me a question and I don't answer, please don't feel slighted.

I am distributing this dataset as a resource for researchers who are interested in improving current email tools, or understanding how email is currently used. This data is valuable; to my knowledge it is the only substantial collection of "real" email that is public. The reason other datasets are not public is because of privacy concerns. In using this dataset, please be sensitive to the privacy of the people involved (and remember that many of these people were certainly not involved in any of the actions which precipitated the investigation.)

- Prior versions of the dataset are **no longer being distributed**. If you are using the March 2, 2004 Version; the August 21, 2009 Version; or the April 2, 2011 Version of this dataset for your work, you are requested to replace it with the newer version of the dataset below, or make the [the appropriate changes](#) to your local copy.
- [May 7, 2015 Version of dataset](#) (about 423Mb, tarred and gzipped).

There are also several on-line databases that allow you to search the data, at [Enronemail.com](#), [UCB](#), and [www.enron-mail.com](#)

Research uses of the dataset

This is a partial and poorly maintained list. If I've left your work out, don't take it personally, and feel free to send me a pointer and/or description.

- [A paper describing the Enron data](#) was presented at the 2004 [CEAS conference](#).
- Some experiments associated with this data are described on [Ron Bekkerman's home page](#).
- A social-network analysis of the data, including "[useful mappings between the MD5 digest of the email bodies and such things as authors, recipients, etc](#)", is available from [Andres Corrada-Emmanuel](#).
- A group from SIMS, UC Berkeley provides search, visualization, and some email that has been labeled with topic and sentiment labels
- [Jitesh Shetty](#) has put up a database of link-analysis results.
- [A version of the dataset with all attachments](#) is available from [EDRM](#).
- Work at the University of Pennsylvania includes [a query dataset for email search as well as a tool for generating spelling errors](#) based on the Enron corpus.
- Kimmie Farrington and colleagues published a paper in 2011 that uses the Enron dataset as part of the test corpus for their work on crowdsourcing human vs. computer generated classification explanation: see Hutton, Amanda, Alexander Liu, and Cheryl Martin. "Crowdsourcing evaluations of classifier interpretability." In *Proceedings of the 2012 AAAI Spring Symposium on Wisdom of the Crowd*
- [Parakweet](#) has released an [open source set of Enron sentence data, labeled for speech acts](#).
- A set of [sentence level annotations](#) (of what requires action or response from user) has been released by Charlie Oxborough.

William W. Cohen, MLD, CMU
Last modified: Fri May 8 09:52:31 EDT 2015

Open data

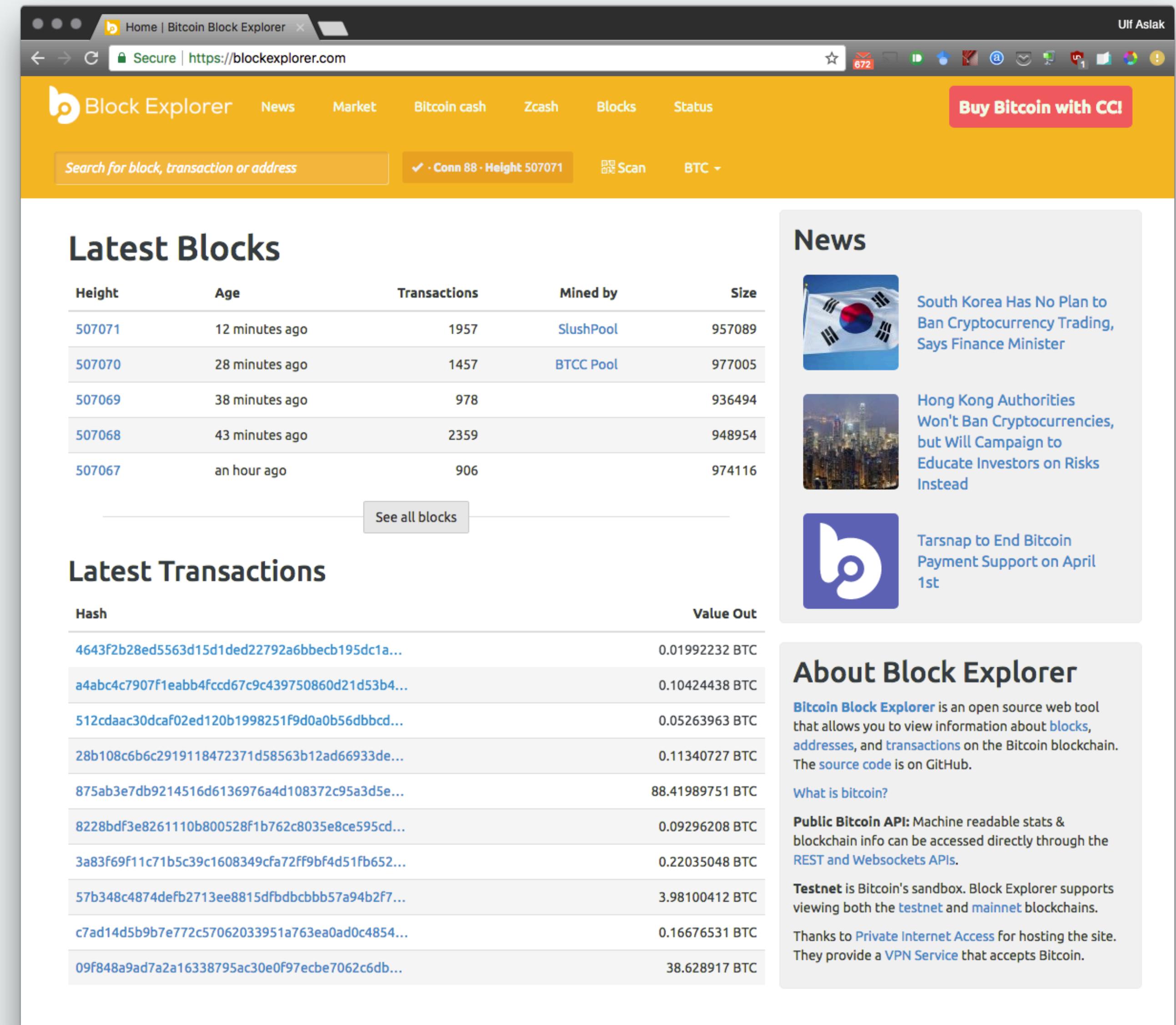
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The screenshot shows the Kaggle Datasets homepage. At the top, there are tabs for 'Public', 'Your Datasets', and 'Favorites'. A search bar is at the top right, and a dropdown menu says 'Sort by Hotness'. Below this, it shows '10,348 Datasets' with filters for 'Sizes', 'File types', 'Licenses', and 'Tags'. A 'Dismiss' button is visible in the top right corner of the main content area.

Rank	Dataset Name	Description	Tags	File Type	Size	Comments	Views
84	Chocolate Bar Ratings	Expert ratings of over 1,700 chocolate bars	critical theory, food and drink	CSV	125 KB	1	52
15	Hacker News	All posts from Y Combinator's social news website from 2006 to late 2017	journalism, information techn..., internet, big query	BigQuery	14 GB	0	3
31	Historical Air Quality	Air Quality Data Collected at Outdoor Monitors Across the US	pollution	BigQuery	323 GB	1	2
28	GitHub Repos	Code and comments from 2.8 million repos	programming lang..., programming, software engineer...	BigQuery	3 TB	0	9
201	TED Talks	Data about TED Talks on the TED.com website until September 21st, 2017	CSV	34 MB	23	3	49k
241	Fashion MNIST	An MNIST-like dataset of 70,000 28x28 labeled fashion images	clothing, multiclass classifi..., object identification	Other	69 MB	5	105
196	(MBTI) Myers-Briggs Personality Type Dataset	Includes a large number of people's MBTI type and content written by them	personality, demographics, linguistics + 2 more...	CSV	60 MB	2	37k
224	Zillow Economics Data	Turning on the lights in housing research.	housing, business, demographics, economics	CSV	511 MB	5	22

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The screenshot shows the homepage of the Bitcoin Block Explorer. At the top, there's a navigation bar with links for Home, News, Market, Bitcoin cash, Zcash, Blocks, Status, and a prominent pink button that says "Buy Bitcoin with CCI!". Below the navigation is a search bar with placeholder text "Search for block, transaction or address". A status bar indicates "✓ · Conn 88 · Height 507071". To the right of the search bar are buttons for "Scan" and "BTC".

Latest Blocks

Height	Age	Transactions	Mined by	Size
507071	12 minutes ago	1957	SlushPool	957089
507070	28 minutes ago	1457	BTCC Pool	977005
507069	38 minutes ago	978		936494
507068	43 minutes ago	2359		948954
507067	an hour ago	906		974116

[See all blocks](#)

Latest Transactions

Hash	Value Out
4643f2b28ed5563d15d1ded22792a6bbecb195dc1a...	0.01992232 BTC
a4abc4c7907f1eabb4fccd67c9c439750860d21d53b4...	0.10424438 BTC
512cdaac30dcraf02ed120b1998251f9d0a0b56dbbcd...	0.05263963 BTC
28b108c6b6c2919118472371d58563b12ad66933de...	0.11340727 BTC
875ab3e7db9214516d6136976a4d108372c95a3d5e...	88.41989751 BTC
8228bd3e8261110b800528f1b762c8035e8ce595cd...	0.09296208 BTC
3a83f69f11c71b5c39c1608349cf72ff9bf4d51fb652...	0.22035048 BTC
57b348c4874defb2713ee8815dfbdbbbb57a94b2f7...	3.98100412 BTC
c7ad14d5b9b7e772c57062033951a763ea0ad0c4854...	0.16676531 BTC
09f848a9ad7a2a16338795ac30e0f97ecbe7062c6db...	38.628917 BTC

News

-  South Korea Has No Plan to Ban Cryptocurrency Trading, Says Finance Minister
-  Hong Kong Authorities Won't Ban Cryptocurrencies, but Will Campaign to Educate Investors on Risks Instead
-  Tarsnap to End Bitcoin Payment Support on April 1st

About Block Explorer

Bitcoin Block Explorer is an open source web tool that allows you to view information about blocks, addresses, and transactions on the Bitcoin blockchain. The [source code](#) is on GitHub.

[What is bitcoin?](#)

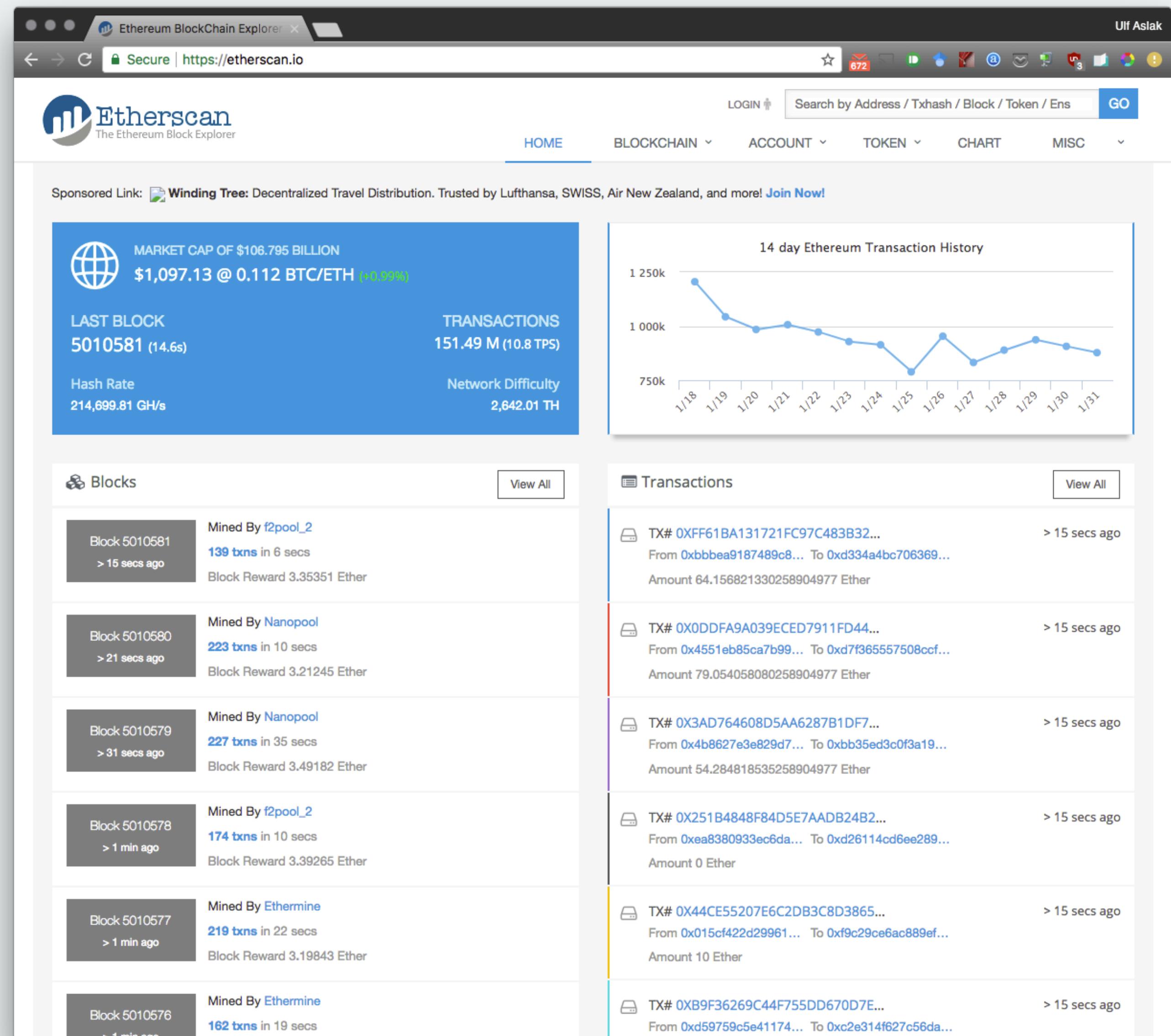
[Public Bitcoin API:](#) Machine readable stats & blockchain info can be accessed directly through the [REST](#) and [Websockets APIs](#).

[Testnet](#) is Bitcoin's sandbox. Block Explorer supports viewing both the [testnet](#) and [mainnet](#) blockchains.

Thanks to [Private Internet Access](#) for hosting the site. They provide a [VPN Service](#) that accepts Bitcoin.

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APIs

APIs

What is an API?

APIs

The screenshot shows the Wikipedia article for the character Batman. The page includes the standard Wikipedia sidebar on the left with links like Main page, Contents, and Tools. The main content discusses Batman's origin as a superhero created by Bob Kane and Bill Finger, his secret identity as Bruce Wayne, and his various appearances in comic books, TV, and movies. A large image of Batman in action is displayed on the right, along with sections for publication information, creation details, and partnerships.

Batman

From Wikipedia, the free encyclopedia

This article is about the fictional character. For other uses, see [Batman \(disambiguation\)](#).

Batman is a fictional superhero appearing in American comic books published by DC Comics. The character was created by artist Bob Kane and writer Bill Finger,^{[4][5]} and first appeared in *Detective Comics* #27 (1939). Originally named the "Bat-Man", the character is also referred to by such epithets as the Caped Crusader, the Dark Knight, and the World's Greatest Detective.^[6]

Batman's secret identity is **Bruce Wayne**, a wealthy American playboy, philanthropist, and owner of [Wayne Enterprises](#). After witnessing the murder of his parents Dr. Thomas Wayne and Martha Wayne as a child, he swore vengeance against criminals, an oath tempered by a sense of justice. Bruce Wayne trains himself physically and intellectually and crafts a bat-inspired persona to fight crime.^[7]

Batman operates in the fictional *Gotham City* with assistance from various supporting characters, including his butler **Alfred**, police commissioner **Gordon**, and vigilante allies such as **Robin**. Unlike most superheroes, Batman does not possess any [superpowers](#); rather, he relies on his genius intellect, physical prowess, martial arts abilities, detective skills, science and technology, vast wealth, intimidation, and indomitable will. A large assortment of villains make up Batman's [rogues gallery](#), including his [archenemy](#), the **Joker**.

The character became popular soon after his introduction in 1939 and gained his own comic book title, *Batman*, the following year. As the decades went on, differing interpretations of the character emerged. The late 1960s *Batman* television series used a [camp](#) aesthetic, which continued to be associated with the character for years after the show ended. Various creators worked to return the character to his dark roots, culminating in 1986 with *The Dark Knight Returns* by Frank Miller. The success of Warner Bros.' live-action *Batman* feature films have helped maintain the character's prominence in mainstream culture.^[8]

An American cultural icon, Batman has garnered enormous popularity and is among the most identifiable comic book characters. Batman has been licensed and adapted into a variety of media, from radio to television and film, and appears on various merchandise sold around the world, such as toys and video games. The character has also intrigued psychiatrists, with many trying to understand his psyche. In 2015, *FanSided* ranked Batman as number one on their list of "50 Greatest Super Heroes In Comic Book History".^[9] Kevin Conroy, Bruce Greenwood, Peter Weller, Anthony Ruivivar, Jason O'Mara, and Will Arnett, among others, have provided the character's voice for animated adaptations. Batman has been depicted in both film and television by Lewis Wilson, Robert Lowery, Adam West, Michael Keaton, Val Kilmer, George Clooney, Christian Bale, and Ben Affleck.

Contents [hide]

1 Publication history

1.1 Creation

1.2 Golden Age

1.3 Silver and Bronze Age

1.4 Modern Age

Batman

Art by Tony Daniel

Publication information

Publisher DC Comics

First appearance *Detective Comics* #27 (cover date May 1939 / release date March 1939)

Created by Bob Kane
Bill Finger^[1]

In-story information

Alter ego Bruce Wayne

Team affiliations Batman Family
Justice League
Outsiders
Batmen of All Nations
Batman Incorporated

Partnerships Robin (various)
James Gordon
Superman
Wonder Woman
Batgirl (various)

APIs

```
1 import requests as rq
2
3 query = "https://en.wikipedia.org/w/api.php?format=json&action=query&titles=Batman&prop=revisions&rvprop=content"
4 response = rq.get(query)
5 result = response.json()
```

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API address

Query parameters

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```

```
1 import json
2
3 print json.dumps(result, indent=4)
```

Last executed 2018-02-01 10:28:27 in 10ms

```
{
  "batchcomplete": "",
  "query": {
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        "ns": 0,
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        "revisions": [
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            "*": "{{About|the fictional character}}\n{{pp-semi-indef}}\n{{pp-move-indef}}\n{{Use mdy dates|date=October 2015}}\n{{Infobox comic book character|image = Batman Detective Comics Vol 2 1.png<!--Do NOT change this image without consensus from the Talk Page-->|imagesize =\n|converted = y\n|caption = Art by [[Tony Daniel]]\n|alt = Batman descends upon Gotham City\n|publisher = [[DC Comics]]\n|debut = ''[[Detective Comics]]'' #27<br />(cover date May 1939 /<br>release date March 1939)<!-- \"Debut\" indicates the first appearance of a character, not a change to the character's backstory. -->\n|creators = {{plainlist|\n*[[Bob Kane]]\n*[[Bill Finger]]<ref>[[Ron Goulart|Goulart, Ron]], ''Comic Book Encyclopedia'' ([[HarperCollins|Harper Entertainment]], New York, 2004) {{ISBN|978-0-06-053816-3}}</ref>\n}}\n|alter_ego = Bruce Wayne<!-- Do not enter a middle name. He has been depicted with too many different middle names to enter a specific one here. Also, there is no past or current, dead, or alive in fiction from a real world perspective; the infobox should cover the Batman known to the public consciousness and not a current comic book storyline. -->\n|alliances = {{plainlist|\n*[[List of Batman supporting characters|Batman Family]]\n*[[Justice League]]\n*[[Outsider (team)|Outsider]]}}
```

(web) Scraping

Scraping

The screenshot shows the Rotten Tomatoes homepage. At the top, there's a navigation bar with links for "MOVIES & DVDS", "TV", "NEWS", and "TICKETS & SHOWTIMES". Below the navigation is a banner featuring movie posters for "GALLERY", "SCORECARD", and "COUNTDOWN". The main content area includes sections for "MOVIES OPENING THIS WEEK", "TOP BOX OFFICE", "COMING SOON TO THEATERS", "NEW TV TONIGHT", "MOST POPULAR TV ON RT", and "TOP DVD & STREAMING MOVIES". Each section lists movies or TV shows with their Rotten Tomatoes scores and other details like release dates or box office earnings.

Section	Movie / Show	Score	Details																								
MOVIES OPENING THIS WEEK	Winchester	87%	FEB 2																								
	A Fantastic Woman (Una muje...)	60%	FEB 2																								
	Bilal: A New Breed of Hero	72%	FEB 2																								
	Before We Vanish (Sanpo suru ...)	50%	FEB 2																								
	Braven	45%	FEB 2																								
View All >																											
TOP BOX OFFICE	Maze Runner: The Death Cure	76%	\$24.2M																								
	Jumanji: Welcome to the Jungle	72%	\$16.2M																								
	Hostiles	54%	\$10.2M																								
	The Greatest Showman	88%	\$9.7M																								
	The Post	54%	\$9.2M																								
	12 Strong	41%	\$8.8M																								
	Den of Thieves	92%	\$8.7M																								
	The Shape of Water	100%	\$6M																								
	Paddington 2	80%	\$5.8M																								
	Padmaavat	45%	\$4.5M																								
View All >																											
COMING SOON TO THEATERS	Fifty Shades Freed	No Score Yet	FEB 9																								
	View All >																										
NEW TV TONIGHT																											
<table border="1"><thead><tr><th>Score</th><th>Show</th></tr></thead><tbody><tr><td>29%</td><td>A.P. Bio</td></tr><tr><td>100%</td><td>The Good Place</td></tr><tr><td>100%</td><td>How to Get Away With Murder</td></tr><tr><td>100%</td><td>Supernatural</td></tr><tr><td>92%</td><td>Grey's Anatomy</td></tr><tr><td>91%</td><td>Scandal</td></tr><tr><td>89%</td><td>Arrow</td></tr><tr><td>88%</td><td>Will & Grace</td></tr><tr><td>75%</td><td>Young Sheldon</td></tr><tr><td>45%</td><td>S.W.A.T.</td></tr><tr><td>No Score Yet</td><td>Chicago Fire</td></tr></tbody></table>				Score	Show	29%	A.P. Bio	100%	The Good Place	100%	How to Get Away With Murder	100%	Supernatural	92%	Grey's Anatomy	91%	Scandal	89%	Arrow	88%	Will & Grace	75%	Young Sheldon	45%	S.W.A.T.	No Score Yet	Chicago Fire
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No Score Yet	Chicago Fire																										
View All >																											
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No Score Yet	Babylon Berlin																										
View All >																											
TOP DVD & STREAMING MOVIES																											

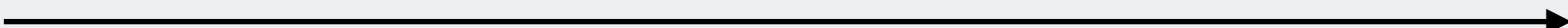
Scraping

The screenshot shows the Rotten Tomatoes homepage with a search bar at the top containing "Kevin Bacon". A modal window is open, displaying a thumbnail of Kevin Bacon's face and the text "Kevin Bacon". Below the search bar, there are several sections: "TRENDING ON RT" featuring "Black Panther", "CELEBRITIES" (highlighted), "GALLERY" (with a thumbnail of a woman in a sweater), "SCORECARD" (with a thumbnail of a superhero), and "COUNTDOWN" (with a thumbnail of three people). Below these are news articles: "35 Haunted House Movies Ranked Best to Worst by Tomatometer", "Black Lightning Debuts as Winter's Best-Reviewed Show (So Far)", and "Hostiles Is the 61st Best-Reviewed Western Movie". The main content area has three columns: "MOVIES OPENING THIS WEEK" (listing "Winchester", "A Fantastic Woman", "Bilal: A New Breed of Hero", "Before We Vanish", and "Braven"), "TOP BOX OFFICE" (listing "Maze Runner: The Death Cure", "Jumanji: Welcome to the Jungle", "Hostiles", "The Greatest Showman", "The Post", "12 Strong", "Den of Thieves", "The Shape of Water", "Paddington 2", and "Padmaavat"), and "COMING SOON TO THEATERS" (listing "Fifty Shades Freed"). To the right, there are sections for "NEW TV TONIGHT", "MOST POPULAR TV ON RT", and "TOP DVD & STREAMING MOVIES", each with a list of TV shows and their Rotten Tomatoes scores. Social media sharing icons (Facebook, Twitter, etc.) are visible on the right side.

Scraping

The screenshot shows the Kevin Bacon page on Rotten Tomatoes. At the top, there's a navigation bar with links for MOVIES & DVDS, TV, NEWS, and TICKETS & SHOWTIMES. Below the navigation is a search bar and a trending section. The main content features a large photo of Kevin Bacon and a summary of his career highlights, including his highest rated movie (95% for Apollo 13) and lowest rated movie (3% for The Darkness). It also lists his birthday (Jul 8, 1958) and birthplace (Philadelphia, Pennsylvania). A "More" link is present. To the right, there's a sidebar titled "NEWS & INTERVIEWS FOR KEVIN BACON" with sections for Golden Globes 2018 winners and nominations, as well as links to his best-reviewed movies and a video of his first driving test. There are also links to reviews for Fantastic Four and The Big Picture. On the left, there's a "PHOTOS" section with a grid of smaller images and a "View All Photos (32)" link. At the bottom, there's a "HIGHEST RATED MOVIES" section with thumbnails for Planes, Trains and Automobiles, Frost/Nixon, and The Big Picture.

Scraping

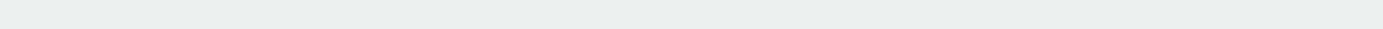
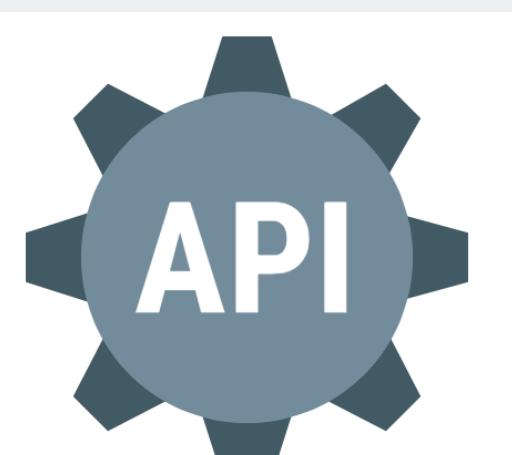


The screenshot shows a search bar with 'Kevin Bacon' and a search icon. Below it is a dropdown menu with 'MOVIES & DVDS' and 'TV'. A yellow box highlights the 'CELEBRITIES' section, which contains a thumbnail of Kevin Bacon and the text 'Kevin Bacon'. At the bottom right is a 'View All Results >' link.

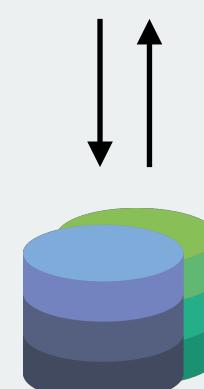
request

The screenshot shows a detailed profile for Kevin Bacon. It includes a large photo, his birthplace (Philadelphia, Pennsylvania), and a bio stating he's recognizable by connecting him to other celebrities. Below this are sections for 'PHOTOS' (with a grid of small images) and 'HIGHEST RATED MOVIES' (listing 'Apollo 13' and 'The Dark Knight').

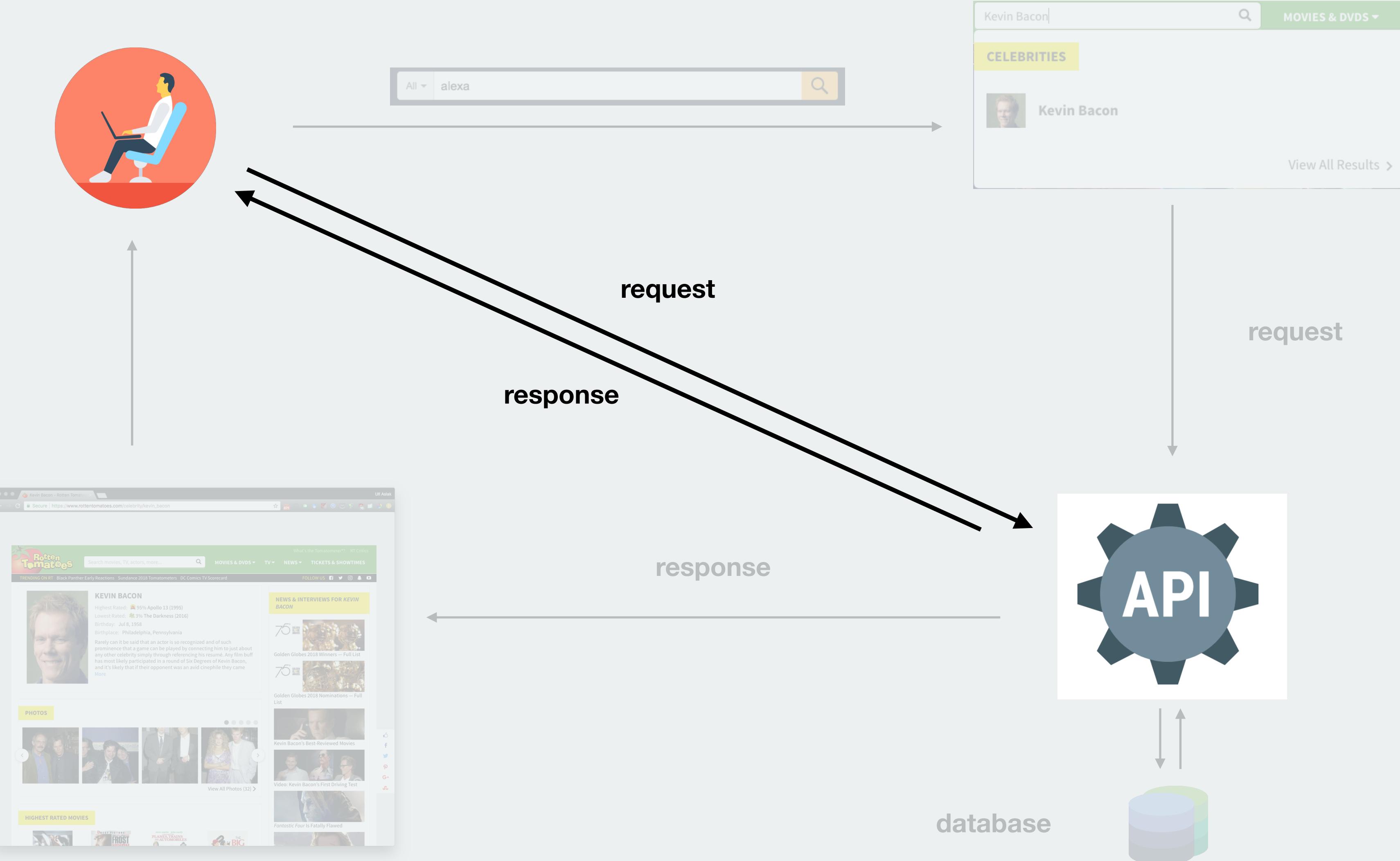
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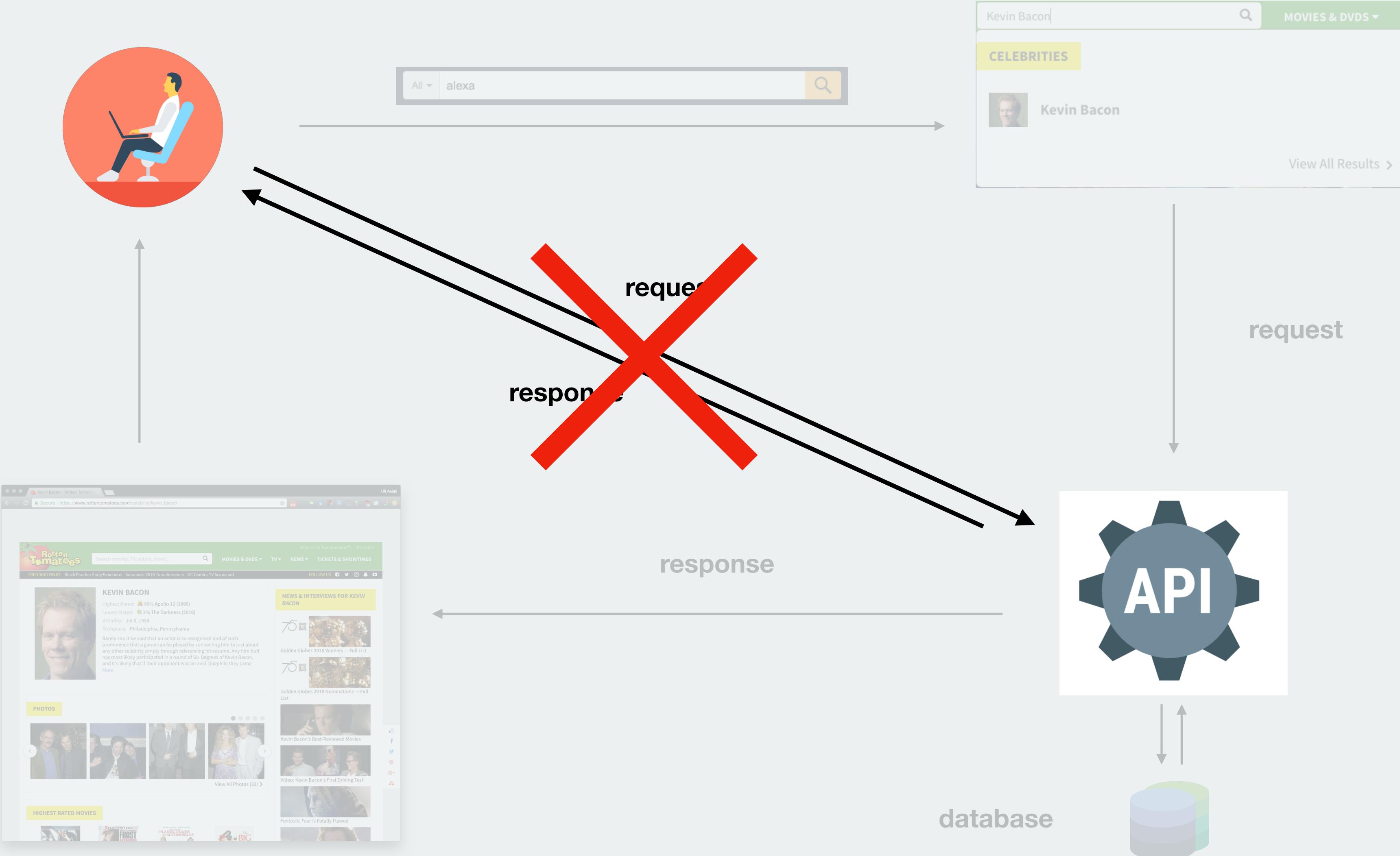
database



Scraping



Scraping



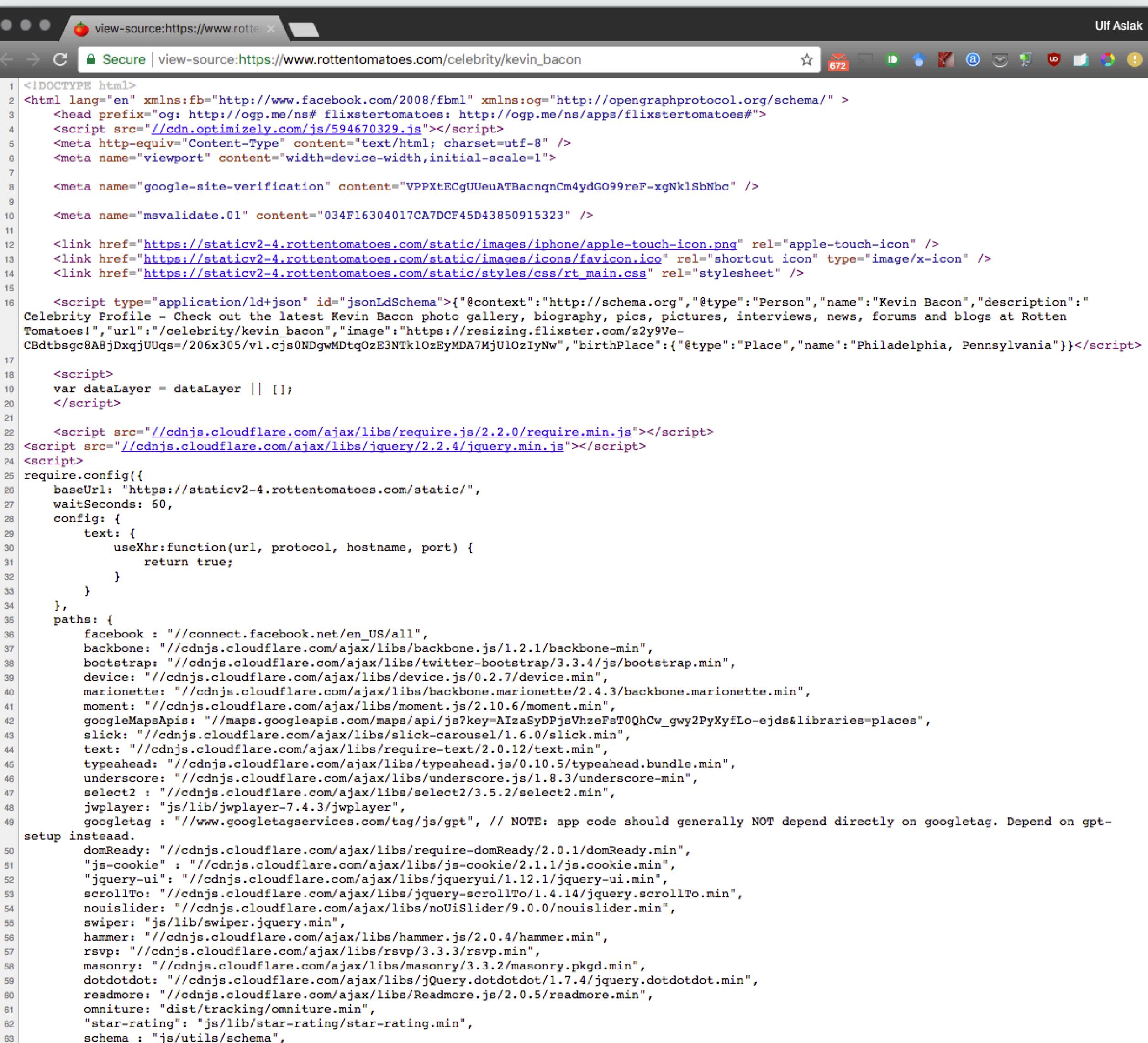
Scraping

The screenshot shows the Kevin Bacon page on Rotten Tomatoes. At the top, there's a navigation bar with links for MOVIES & DVDS, TV, NEWS, and TICKETS & SHOWTIMES. Below the navigation is a search bar and a trending section. The main content features a large photo of Kevin Bacon and a summary of his career highlights, including his highest rated movie (95% for Apollo 13) and lowest rated (3% for The Darkness). It also lists his birthday (Jul 8, 1958) and birthplace (Philadelphia, Pennsylvania). A "More" link is present. To the right, there's a sidebar titled "NEWS & INTERVIEWS FOR KEVIN BACON" with sections for Golden Globes 2018 winners and nominations, as well as links to his best-reviewed movies and a video of his first driving test. The bottom left shows a "PHOTOS" section with a grid of images and a "View All Photos (32)" link. The bottom right shows a "HIGHEST RATED MOVIES" section with thumbnails for Planes, Trains and Automobiles, Frost/Nixon, and The Big Picture.

Scraping

The screenshot shows the Rotten Tomatoes celebrity page for Kevin Bacon. The main content includes a large photo of Kevin Bacon, his biography, and sections for photos and highest-rated movies. A context menu is open over the biography text, listing options like Back, Forward, Reload, Save As..., Print..., Cast..., Translate to English, Add page to Reading List, Block element, Email page link..., Pushbullet, Save To Pocket, Shorten this page with goo.gl, View Page Source (which is highlighted), and Inspect. To the right of the menu, there's a sidebar with news and interviews for Kevin Bacon, including links to the Golden Globes 2018 Winners and Nominations. Below the sidebar, there are social sharing icons for Facebook, Twitter, Pinterest, Google+, and LinkedIn.

Scraping



The screenshot shows a browser window displaying the source code of a Kevin Bacon profile page from Rotten Tomatoes. The URL in the address bar is https://www.rottentomatoes.com/celebrity/kevin_bacon. The page content includes various meta tags, links to static files, and a large script block containing JSON-LD schema and Require.js configuration.

```
1 <!DOCTYPE html>
2 <html lang="en" xmlns:fb="http://www.facebook.com/2008/fbml" xmlns:og="http://opengraphprotocol.org/schema/">
3   <head prefix="og: http://ogp.me/ns# flixstertomatoes: http://ogp.me/ns/apps/flixstertomatoes#">
4     <script src="//cdn.optimizely.com/js/594670329.js"></script>
5     <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
6     <meta name="viewport" content="width=device-width,initial-scale=1">
7
8     <meta name="google-site-verification" content="VPPXtECgUUeuATBacnqnCm4ydGO99reF-xgNklSbNbc" />
9
10    <meta name="msvalidate.01" content="034F16304017CA7DCF45D43850915323" />
11
12    <link href="https://staticv2-4.rottentomatoes.com/static/images/iphone/apple-touch-icon.png" rel="apple-touch-icon" />
13    <link href="https://staticv2-4.rottentomatoes.com/static/images/icons/favicon.ico" rel="shortcut icon" type="image/x-icon" />
14    <link href="https://staticv2-4.rottentomatoes.com/static/styles/css/rt_main.css" rel="stylesheet" />
15
16    <script type="application/ld+json" id="jsonLdSchema">{@context:"http://schema.org","@type":"Person","name":"Kevin Bacon","description":"Celebrity Profile - Check out the latest Kevin Bacon photo gallery, biography, pics, pictures, interviews, news, forums and blogs at Rotten Tomatoes!","url":"/celebrity/kevin_bacon","image":"https://resizing.flixster.com/z2y9Ve-CBdtbsgc8A8jDxqjUUqs=/206x305/v1.cjs0NDgwMDtqOzE3NTk1OzEyMDA7MjU1OzIyNw","birthPlace":{"@type":"Place","name":"Philadelphia, Pennsylvania"}}</script>
17
18    <script>
19      var dataLayer = dataLayer || [];
20    </script>
21
22    <script src="//cdnjs.cloudflare.com/ajax/libs/require.js/2.2.0/require.min.js"></script>
23    <script src="//cdnjs.cloudflare.com/ajax/libs/jquery/2.2.4/jquery.min.js"></script>
24    <script>
25      require.config({
26        baseUrl: "https://staticv2-4.rottentomatoes.com/static/",
27        waitSeconds: 60,
28        config: {
29          text: {
30            useXhr:function(url, protocol, hostname, port) {
31              return true;
32            }
33          }
34        },
35        paths: {
36          facebook: "//connect.facebook.net/en_US/all",
37          backbone: "//cdnjs.cloudflare.com/ajax/libs/backbone.js/1.2.1/backbone-min",
38          bootstrap: "//cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/3.3.4/js/bootstrap.min",
39          device: "//cdnjs.cloudflare.com/ajax/libs/device.js/0.2.7/device.min",
40          marionette: "//cdnjs.cloudflare.com/ajax/libs/backbone.marionette/2.4.3/backbone.marionette.min",
41          moment: "//cdnjs.cloudflare.com/ajax/libs/moment.js/2.10.6/moment.min",
42          googleMapsApis: "//maps.googleapis.com/maps/api/js?key=AIzaSyDPjsVhzeFsT0QhCw_gwy2PyXyfLo-ejds&libraries=places",
43          slick: "//cdnjs.cloudflare.com/ajax/libs/slick-carousel/1.6.0/slick.min",
44          text: "//cdnjs.cloudflare.com/ajax/libs/require-text/2.0.12/text.min",
45          typeahead: "//cdnjs.cloudflare.com/ajax/libs/typeahead.js/0.10.5/typeahead.bundle.min",
46          underscore: "//cdnjs.cloudflare.com/ajax/libs/underscore.js/1.8.3/underscore-min",
47          select2: "//cdnjs.cloudflare.com/ajax/libs/select2/3.5.2/select2.min",
48          jwplayer: "js/lib/jwplayer-7.4.3/jwplayer",
49          googletag: "www.googletagservices.com/tag/js/gpt", // NOTE: app code should generally NOT depend directly on googletag. Depend on gpt-setup instead.
50          domReady: "//cdnjs.cloudflare.com/ajax/libs/require-domReady/2.0.1/domReady.min",
51          js.cookie: "//cdnjs.cloudflare.com/ajax/libs/js-cookie/2.1.1/js.cookie.min",
52          jquery-ui: "//cdnjs.cloudflare.com/ajax/libs/jqueryui/1.12.1/jquery-ui.min",
53          scrollTo: "//cdnjs.cloudflare.com/ajax/libs/jquery-scrollTo/1.4.14/jquery.scrollTo.min",
54          nouislider: "//cdnjs.cloudflare.com/ajax/libs/noUiSlider/9.0.0/nouislider.min",
55          swiper: "js/lib/swiper.jquery.min",
56          hammer: "//cdnjs.cloudflare.com/ajax/libs/hammer.js/2.0.4/hammer.min",
57          rsvp: "//cdnjs.cloudflare.com/ajax/libs/rsvp/3.3.3/rsvp.min",
58          masonry: "//cdnjs.cloudflare.com/ajax/libs/masonry/3.3.2/masonry.pkgd.min",
59          dotdotdot: "//cdnjs.cloudflare.com/ajax/libs/jQuery.dotdotdot/1.7.4/jquery.dotdotdot.min",
60          readmore: "//cdnjs.cloudflare.com/ajax/libs/Readmore.js/2.0.5/readmore.min",
61          omniture: "dist/tracking/omniture.min",
62          "star-rating": "js/lib/star-rating/star-rating.min",
63          schema: "js/utils/schema"
64        }
65      }
66    </script>
67
68    <script>
69      var dataLayer = dataLayer || [];
70    </script>
71
72    <script src="//cdnjs.cloudflare.com/ajax/libs/require.js/2.2.0/require.min.js"></script>
73    <script src="//cdnjs.cloudflare.com/ajax/libs/jquery/2.2.4/jquery.min.js"></script>
74    <script>
75      require.config({
76        baseUrl: "https://staticv2-4.rottentomatoes.com/static/",
77        waitSeconds: 60,
78        config: {
79          text: {
80            useXhr:function(url, protocol, hostname, port) {
81              return true;
82            }
83          }
84        },
85        paths: {
86          facebook: "//connect.facebook.net/en_US/all",
87          backbone: "//cdnjs.cloudflare.com/ajax/libs/backbone.js/1.2.1/backbone-min",
88          bootstrap: "//cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/3.3.4/js/bootstrap.min",
89          device: "//cdnjs.cloudflare.com/ajax/libs/device.js/0.2.7/device.min",
90          marionette: "//cdnjs.cloudflare.com/ajax/libs/backbone.marionette/2.4.3/backbone.marionette.min",
91          moment: "//cdnjs.cloudflare.com/ajax/libs/moment.js/2.10.6/moment.min",
92          googleMapsApis: "//maps.googleapis.com/maps/api/js?key=AIzaSyDPjsVhzeFsT0QhCw_gwy2PyXyfLo-ejds&libraries=places",
93          slick: "//cdnjs.cloudflare.com/ajax/libs/slick-carousel/1.6.0/slick.min",
94          text: "//cdnjs.cloudflare.com/ajax/libs/require-text/2.0.12/text.min",
95          typeahead: "//cdnjs.cloudflare.com/ajax/libs/typeahead.js/0.10.5/typeahead.bundle.min",
96          underscore: "//cdnjs.cloudflare.com/ajax/libs/underscore.js/1.8.3/underscore-min",
97          select2: "//cdnjs.cloudflare.com/ajax/libs/select2/3.5.2/select2.min",
98          jwplayer: "js/lib/jwplayer-7.4.3/jwplayer",
99          googletag: "www.googletagservices.com/tag/js/gpt", // NOTE: app code should generally NOT depend directly on googletag. Depend on gpt-
100        setup instead.
101        domReady: "//cdnjs.cloudflare.com/ajax/libs/require-domReady/2.0.1/domReady.min",
102        js.cookie: "//cdnjs.cloudflare.com/ajax/libs/js-cookie/2.1.1/js.cookie.min",
103        jquery-ui: "//cdnjs.cloudflare.com/ajax/libs/jqueryui/1.12.1/jquery-ui.min",
104        scrollTo: "//cdnjs.cloudflare.com/ajax/libs/jquery-scrollTo/1.4.14/jquery.scrollTo.min",
105        nouislider: "//cdnjs.cloudflare.com/ajax/libs/noUiSlider/9.0.0/nouislider.min",
106        swiper: "js/lib/swiper.jquery.min",
107        hammer: "//cdnjs.cloudflare.com/ajax/libs/hammer.js/2.0.4/hammer.min",
108        rsvp: "//cdnjs.cloudflare.com/ajax/libs/rsvp/3.3.3/rsvp.min",
109        masonry: "//cdnjs.cloudflare.com/ajax/libs/masonry/3.3.2/masonry.pkgd.min",
110        dotdotdot: "//cdnjs.cloudflare.com/ajax/libs/jQuery.dotdotdot/1.7.4/jquery.dotdotdot.min",
111        readmore: "//cdnjs.cloudflare.com/ajax/libs/Readmore.js/2.0.5/readmore.min",
112        omniture: "dist/tracking/omniture.min",
113        "star-rating": "js/lib/star-rating/star-rating.min",
114        schema: "js/utils/schema"
115      }
116    </script>
117
118    <script>
119      var dataLayer = dataLayer || [];
120    </script>
121
122    <script src="//cdnjs.cloudflare.com/ajax/libs/require.js/2.2.0/require.min.js"></script>
123    <script src="//cdnjs.cloudflare.com/ajax/libs/jquery/2.2.4/jquery.min.js"></script>
124    <script>
125      require.config({
126        baseUrl: "https://staticv2-4.rottentomatoes.com/static/",
127        waitSeconds: 60,
128        config: {
129          text: {
130            useXhr:function(url, protocol, hostname, port) {
131              return true;
132            }
133          }
134        },
135        paths: {
136          facebook: "//connect.facebook.net/en_US/all",
137          backbone: "//cdnjs.cloudflare.com/ajax/libs/backbone.js/1.2.1/backbone-min",
138          bootstrap: "//cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/3.3.4/js/bootstrap.min",
139          device: "//cdnjs.cloudflare.com/ajax/libs/device.js/0.2.7/device.min",
140          marionette: "//cdnjs.cloudflare.com/ajax/libs/backbone.marionette/2.4.3/backbone.marionette.min",
141          moment: "//cdnjs.cloudflare.com/ajax/libs/moment.js/2.10.6/moment.min",
142          googleMapsApis: "//maps.googleapis.com/maps/api/js?key=AIzaSyDPjsVhzeFsT0QhCw_gwy2PyXyfLo-ejds&libraries=places",
143          slick: "//cdnjs.cloudflare.com/ajax/libs/slick-carousel/1.6.0/slick.min",
144          text: "//cdnjs.cloudflare.com/ajax/libs/require-text/2.0.12/text.min",
145          typeahead: "//cdnjs.cloudflare.com/ajax/libs/typeahead.js/0.10.5/typeahead.bundle.min",
146          underscore: "//cdnjs.cloudflare.com/ajax/libs/underscore.js/1.8.3/underscore-min",
147          select2: "//cdnjs.cloudflare.com/ajax/libs/select2/3.5.2/select2.min",
148          jwplayer: "js/lib/jwplayer-7.4.3/jwplayer",
149          googletag: "www.googletagservices.com/tag/js/gpt", // NOTE: app code should generally NOT depend directly on googletag. Depend on gpt-
150        setup instead.
151        domReady: "//cdnjs.cloudflare.com/ajax/libs/require-domReady/2.0.1/domReady.min",
152        js.cookie: "//cdnjs.cloudflare.com/ajax/libs/js-cookie/2.1.1/js.cookie.min",
153        jquery-ui: "//cdnjs.cloudflare.com/ajax/libs/jqueryui/1.12.1/jquery-ui.min",
154        scrollTo: "//cdnjs.cloudflare.com/ajax/libs/jquery-scrollTo/1.4.14/jquery.scrollTo.min",
155        nouislider: "//cdnjs.cloudflare.com/ajax/libs/noUiSlider/9.0.0/nouislider.min",
156        swiper: "js/lib/swiper.jquery.min",
157        hammer: "//cdnjs.cloudflare.com/ajax/libs/hammer.js/2.0.4/hammer.min",
158        rsvp: "//cdnjs.cloudflare.com/ajax/libs/rsvp/3.3.3/rsvp.min",
159        masonry: "//cdnjs.cloudflare.com/ajax/libs/masonry/3.3.2/masonry.pkgd.min",
160        dotdotdot: "//cdnjs.cloudflare.com/ajax/libs/jQuery.dotdotdot/1.7.4/jquery.dotdotdot.min",
161        readmore: "//cdnjs.cloudflare.com/ajax/libs/Readmore.js/2.0.5/readmore.min",
162        omniture: "dist/tracking/omniture.min",
163        "star-rating": "js/lib/star-rating/star-rating.min",
164        schema: "js/utils/schema"
165      }
166    </script>
167
168    <script>
169      var dataLayer = dataLayer || [];
170    </script>
171
172    <script src="//cdnjs.cloudflare.com/ajax/libs/require.js/2.2.0/require.min.js"></script>
173    <script src="//cdnjs.cloudflare.com/ajax/libs/jquery/2.2.4/jquery.min.js"></script>
174    <script>
175      require.config({
176        baseUrl: "https://staticv2-4.rottentomatoes.com/static/",
177        waitSeconds: 60,
178        config: {
179          text: {
180            useXhr:function(url, protocol, hostname, port) {
181              return true;
182            }
183          }
184        },
185        paths: {
186          facebook: "//connect.facebook.net/en_US/all",
187          backbone: "//cdnjs.cloudflare.com/ajax/libs/backbone.js/1.2.1/backbone-min",
188          bootstrap: "//cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/3.3.4/js/bootstrap.min",
189          device: "//cdnjs.cloudflare.com/ajax/libs/device.js/0.2.7/device.min",
190          marionette: "//cdnjs.cloudflare.com/ajax/libs/backbone.marionette/2.4.3/backbone.marionette.min",
191          moment: "//cdnjs.cloudflare.com/ajax/libs/moment.js/2.10.6/moment.min",
192          googleMapsApis: "//maps.googleapis.com/maps/api/js?key=AIzaSyDPjsVhzeFsT0QhCw_gwy2PyXyfLo-ejds&libraries=places",
193          slick: "//cdnjs.cloudflare.com/ajax/libs/slick-carousel/1.6.0/slick.min",
194          text: "//cdnjs.cloudflare.com/ajax/libs/require-text/2.0.12/text.min",
195          typeahead: "//cdnjs.cloudflare.com/ajax/libs/typeahead.js/0.10.5/typeahead.bundle.min",
196          underscore: "//cdnjs.cloudflare.com/ajax/libs/underscore.js/1.8.3/underscore-min",
197          select2: "//cdnjs.cloudflare.com/ajax/libs/select2/3.5.2/select2.min",
198          jwplayer: "js/lib/jwplayer-7.4.3/jwplayer",
199          googletag: "www.googletagservices.com/tag/js/gpt", // NOTE: app code should generally NOT depend directly on googletag. Depend on gpt-
200        setup instead.
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202        js.cookie: "//cdnjs.cloudflare.com/ajax/libs/js-cookie/2.1.1/js.cookie.min",
203        jquery-ui: "//cdnjs.cloudflare.com/ajax/libs/jqueryui/1.12.1/jquery-ui.min",
204        scrollTo: "//cdnjs.cloudflare.com/ajax/libs/jquery-scrollTo/1.4.14/jquery.scrollTo.min",
205        nouislider: "//cdnjs.cloudflare.com/ajax/libs/noUiSlider/9.0.0/nouislider.min",
206        swiper: "js/lib/swiper.jquery.min",
207        hammer: "//cdnjs.cloudflare.com/ajax/libs/hammer.js/2.0.4/hammer.min",
208        rsvp: "//cdnjs.cloudflare.com/ajax/libs/rsvp/3.3.3/rsvp.min",
209        masonry: "//cdnjs.cloudflare.com/ajax/libs/masonry/3.3.2/masonry.pkgd.min",
210        dotdotdot: "//cdnjs.cloudflare.com/ajax/libs/jQuery.dotdotdot/1.7.4/jquery.dotdotdot.min",
211        readmore: "//cdnjs.cloudflare.com/ajax/libs/Readmore.js/2.0.5/readmore.min",
212        omniture: "dist/tracking/omniture.min",
213        "star-rating": "js/lib/star-rating/star-rating.min",
214        schema: "js/utils/schema"
215      }
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