

Computational Analysis of Big Data

Week 3

Getting data—scraping and APIs

Overview

The data is already there

The data is already there

- 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?

- 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

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*.

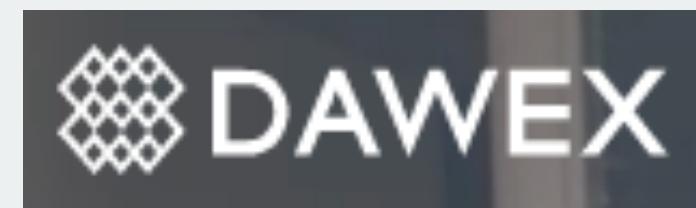
Why do we want other people's data?

- 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?

- 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?

- 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

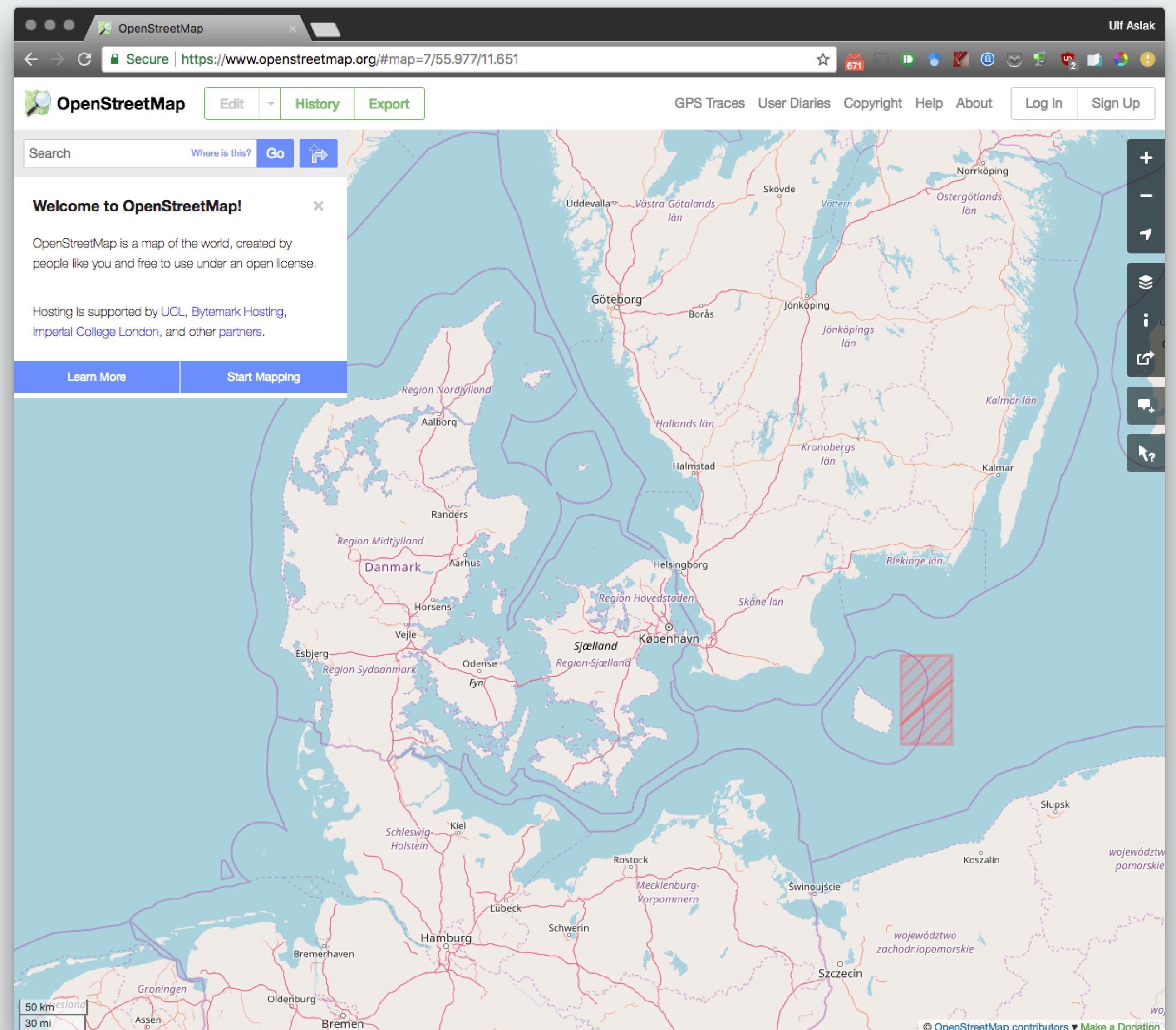
There are three main ways of getting existing data

- 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

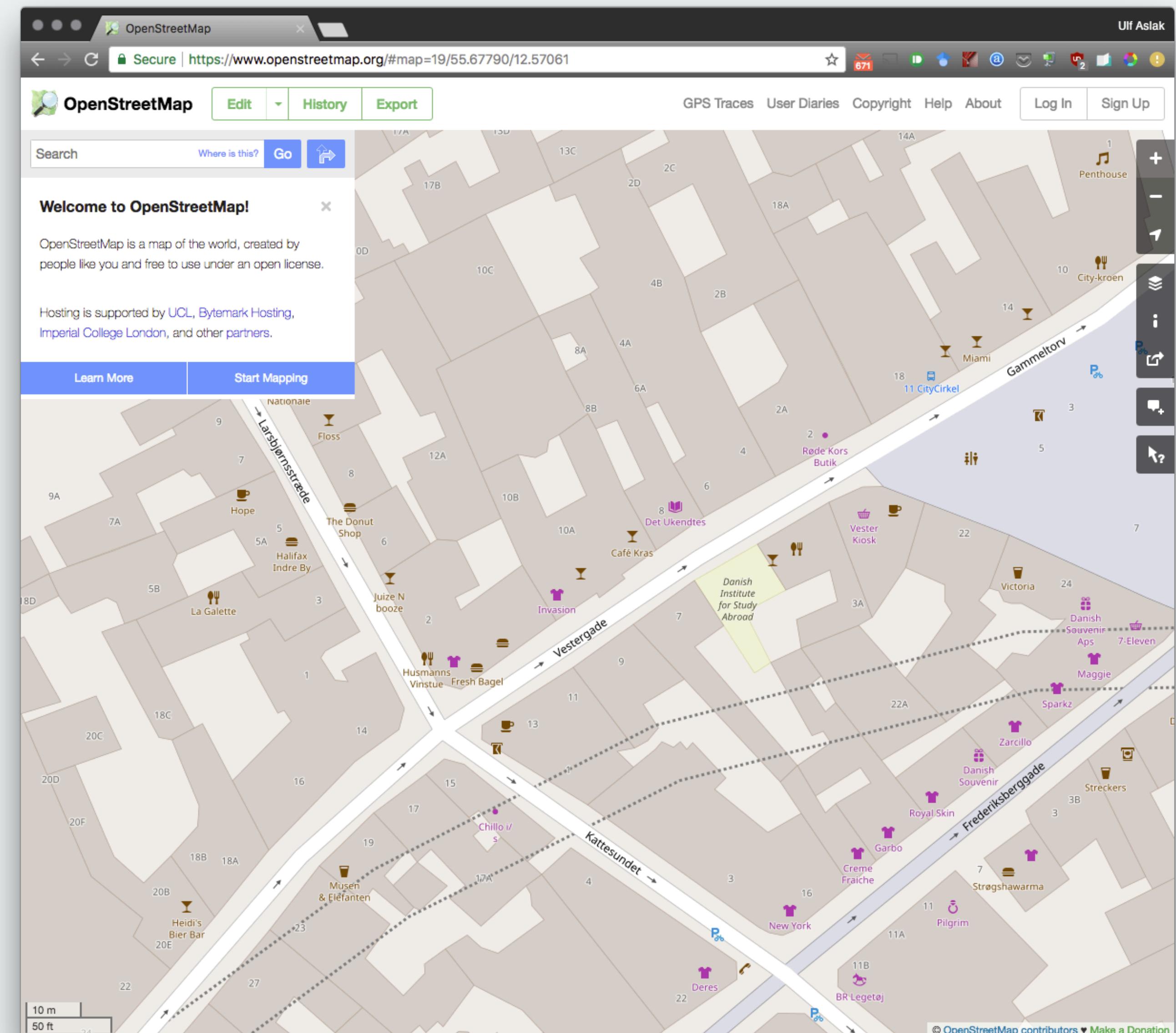
Open data

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



Open data

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



Open data

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

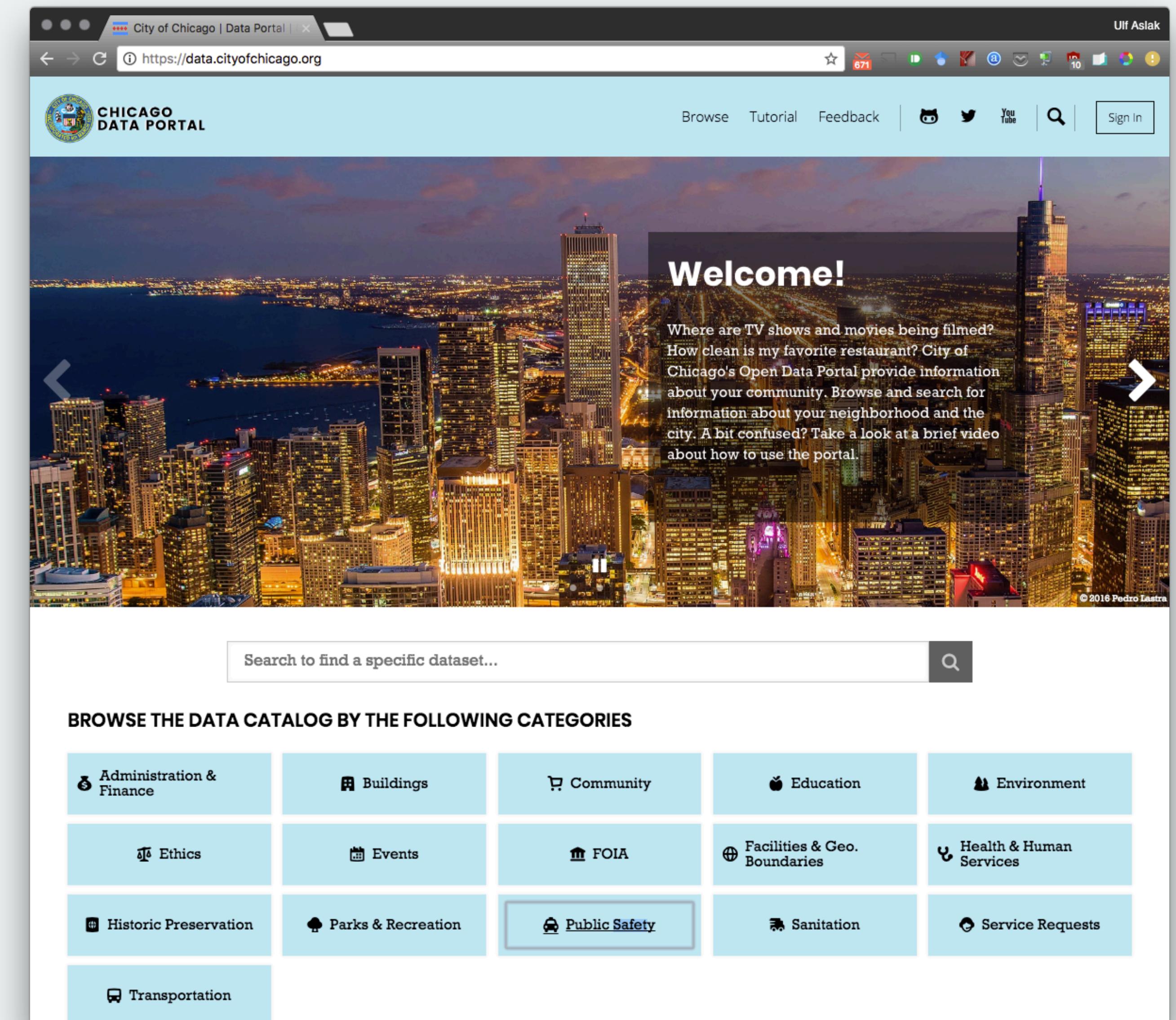
The screenshot shows a web browser displaying the 'Public GPS traces' section of the OpenStreetMap website. The URL in the address bar is <https://www.openstreetmap.org/traces>. The page header includes the OpenStreetMap logo, navigation links for 'Edit', 'History', and 'Export', and a user profile for 'Ulf Asiak'. Below the header, there are links for 'GPS Traces', 'User Diaries', 'Copyright', 'Help', and 'About', along with 'Log In' and 'Sign Up' buttons.

The main content area is titled 'Public GPS traces' and features a sub-header 'Browse recent GPS track uploads'. It includes links for 'Newer Traces' and 'Page 1' (the current view), and a link to 'Older Traces'. The page lists several recent GPS tracks, each represented by a small map icon and a link to the trace file (e.g., .gpx). The details for each trace include the number of points, the time since upload, and the location (e.g., Niigata, 華人墳場, 納蛇尖, ул.Тлегул Батыра, ул.Молдагуловой, ул.Кылтбай, ул.Жансугурова, ул.Кайлыгулы, ул.Аүзозова, ул. Мактыбек би). Each entry also has links for 'more / map / edit' and indicates if it is 'IDENTIFIABLE' or 'PUBLIC'.

Trace ID	Location	Points	Time Ago	Type
S_lad_2017_04_17_192559.gpx	Niigata	2,563	32 minutes ago	IDENTIFIABLE
oniyhmxdydksmef.gpx	華人墳場,鯉魚門 ,油塘, 將軍澳	4,370	about 1 hour ago	PUBLIC
ipruscozoaayfocsec.gpx	納蛇尖	2,627	about 1 hour ago	PUBLIC
_____gpx	ул.Тлегул Батыра	415	about 1 hour ago	PUBLIC
_____gpx	ул.Молдагуловой	281	about 1 hour ago	PUBLIC
_____gpx	ул.Мамеговой М.	56	about 1 hour ago	PUBLIC
_____gpx	ул.Кылтбай	179	about 1 hour ago	PUBLIC
_____gpx	ул.Жансугурова	359	about 1 hour ago	PUBLIC
_____gpx	ул.Кайлыгулы	167	about 1 hour ago	PUBLIC
_____gpx	ул.Аүзозова	125	about 1 hour ago	PUBLIC
_____gpx	ул. Мактыбек би	202	about 2 hours ago	PUBLIC
_____gpx		794	about 2 hours ago	PUBLIC

Open data

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



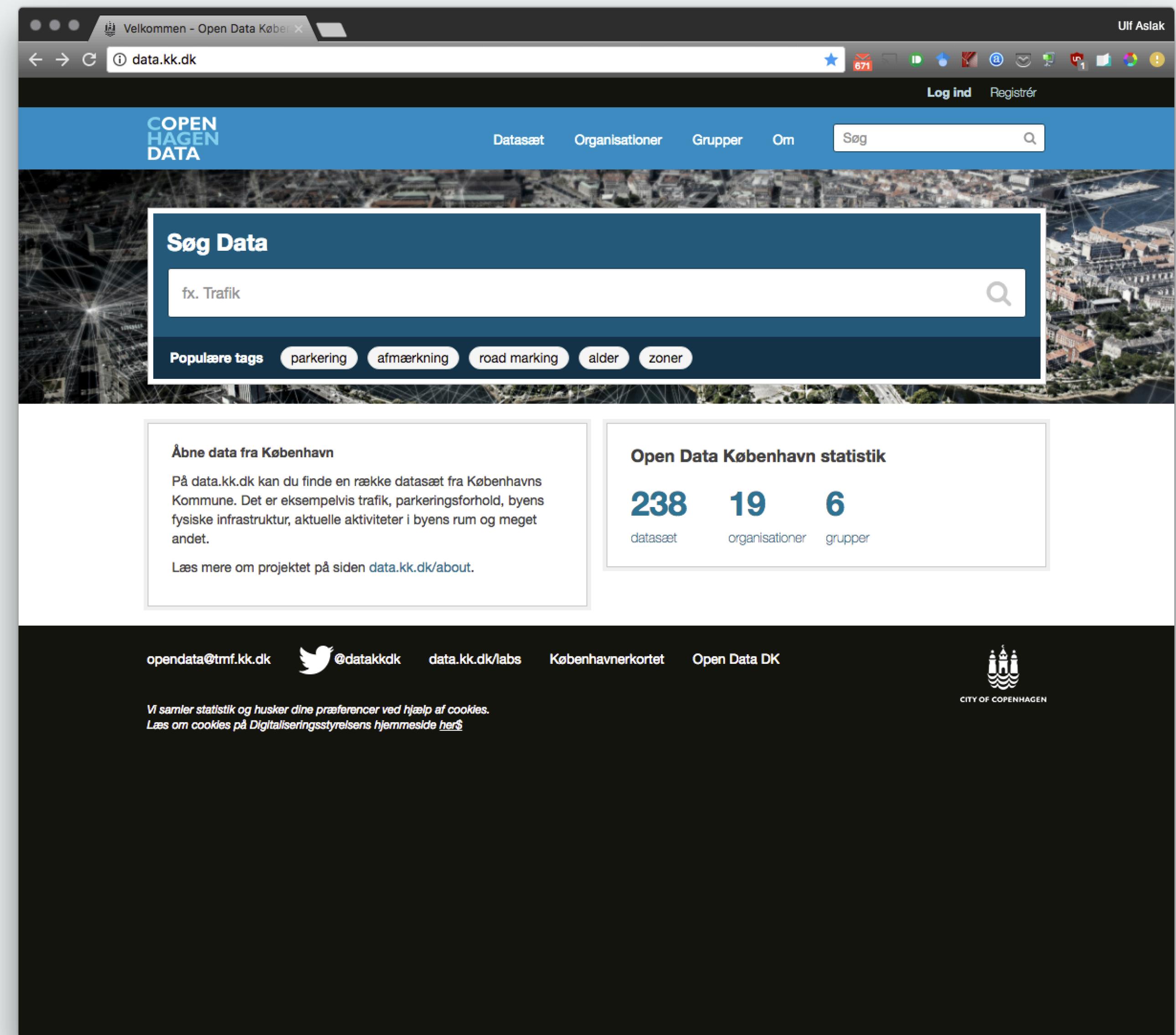
Open data

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

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 dataset title 'Crimes - 2001 to present' is displayed, along with a 'Public Safety' tag. A summary text describes the dataset as reflecting reported incidents of crime from 2001 to the present, minus the most recent seven days. It notes that data is extracted from the Chicago Police Department's CLEAR system. To the right, there are sections for 'Updated' (January 31, 2018) and 'Data Provided by' (Chicago Police Department). Below this, a 'Featured Content Using this Data' section shows three cards: 'Crimes - 2001 to present - Dashboard' (January 31, 2018, 1.01M Views), 'Crimes - 2001 to present - Map' (January 31, 2018, 47K Views), and 'Crimes - 2018' (January 31, 2018, 331 Views). The main content area for the dataset includes sections for 'About this Dataset', 'Updated' (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).

Open data

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



Open data

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

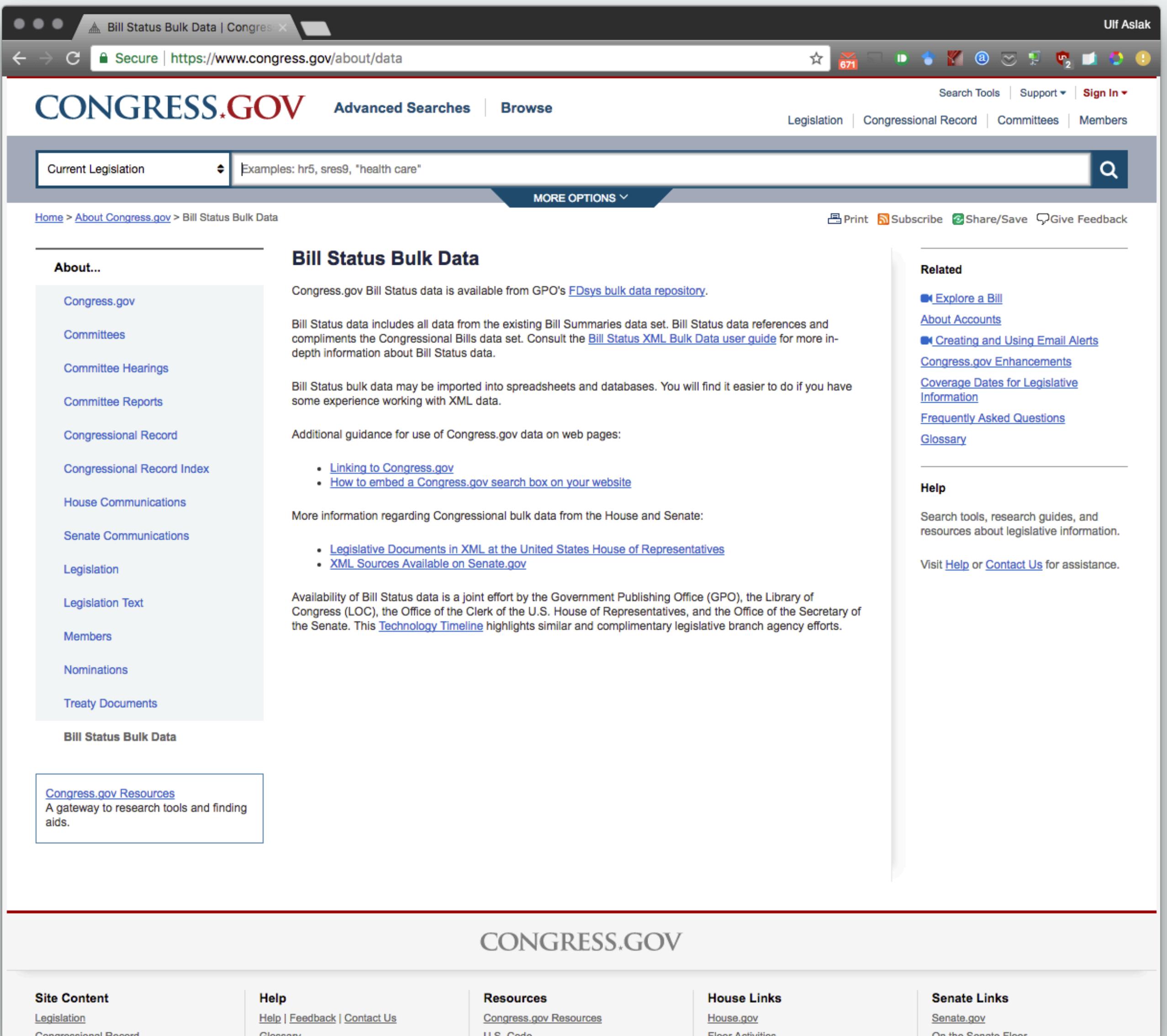
The screenshot shows a search results page from Congress.gov. The search query is "homeland security", "medicare". The results are filtered by "Congressional Record". There are 1-100 of 577,488 results, displayed in 100 per page. The results are sorted by Issue Date - Newest to Old. The results are grouped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

On the left, there are filters for Limit Your Search (Check all, Legislation [407,310], Members [2,247], Congressional Record [577,488], Committee Reports [14,999], Nominations [34,646], Treaty Documents [768], House Communications [15,350], Senate Communications [147,128]), Congress (Check all, 115 (2017-2018) [30,903], 114 (2015-2016) [49,933]), Chamber of Origin, Congressional Record Year and Volume, Congressional Record Section, and Member Remarks in the Congressional Record.

Open data

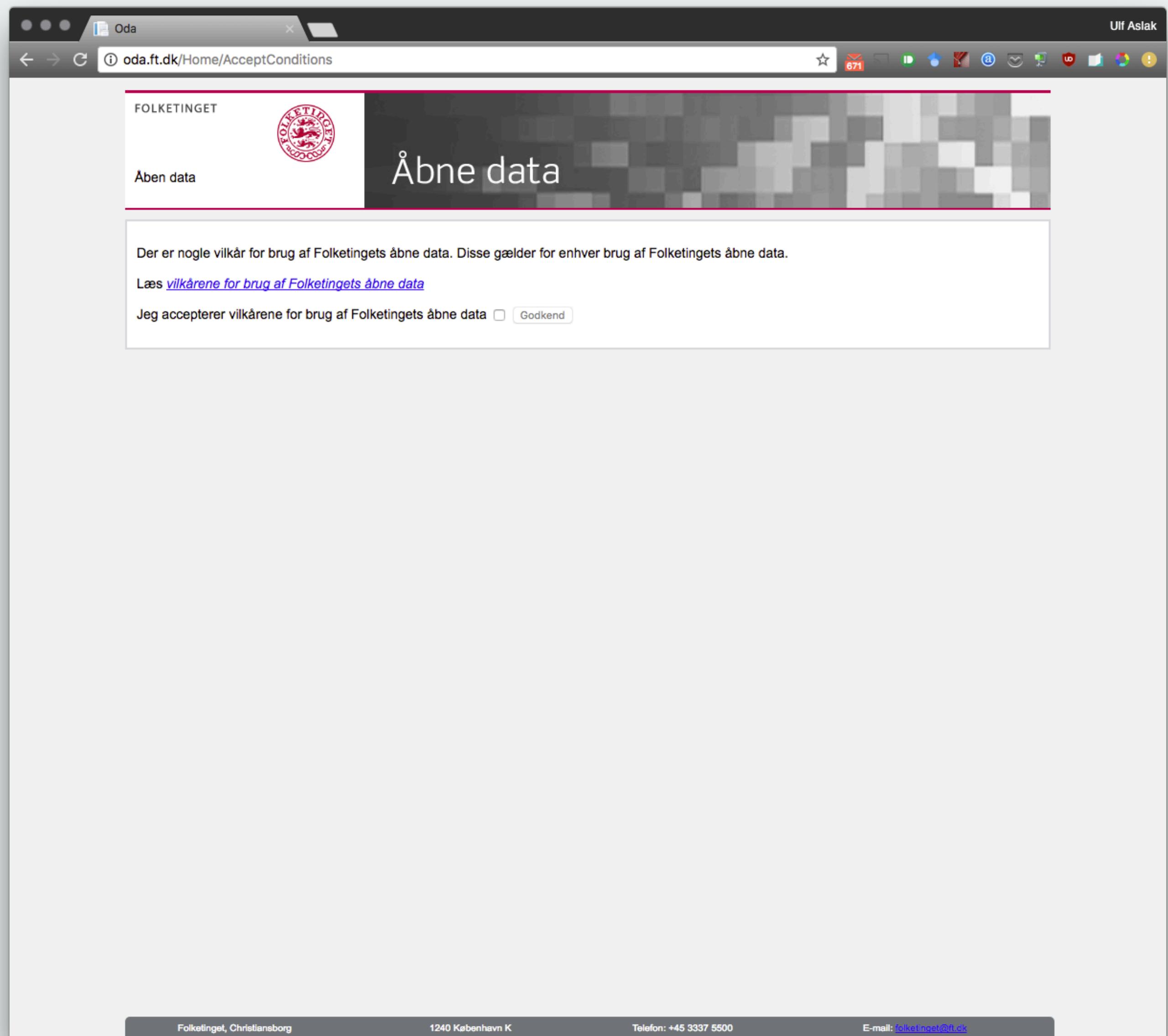
- Geographical data
- City data
- Political data
- Research data
- Competition datasets
- Transactional data



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 congressional 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 links to 'Help' and 'Contact Us'.

Open data

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



Open data

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

SocioPatterns.org

www.sociopatterns.org

SocioPatterns

ABOUT | GALLERY | PUBLICATIONS | NEWS | PRESS | DATA | Ulf Aslak

follow us on [twitter](#)

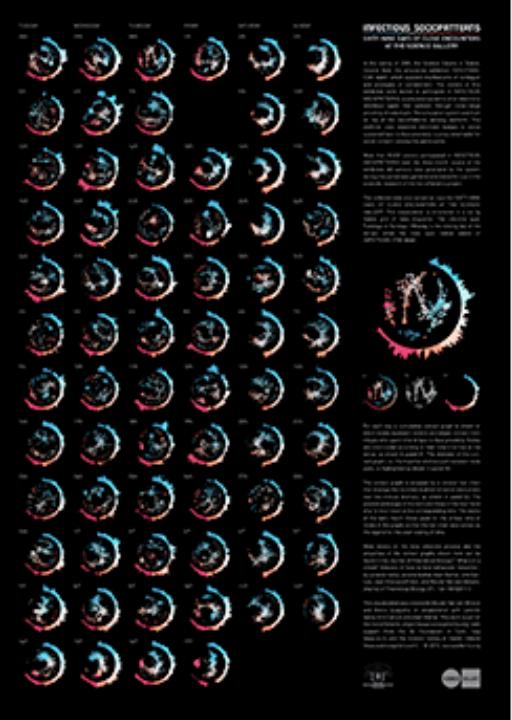
WELCOME

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

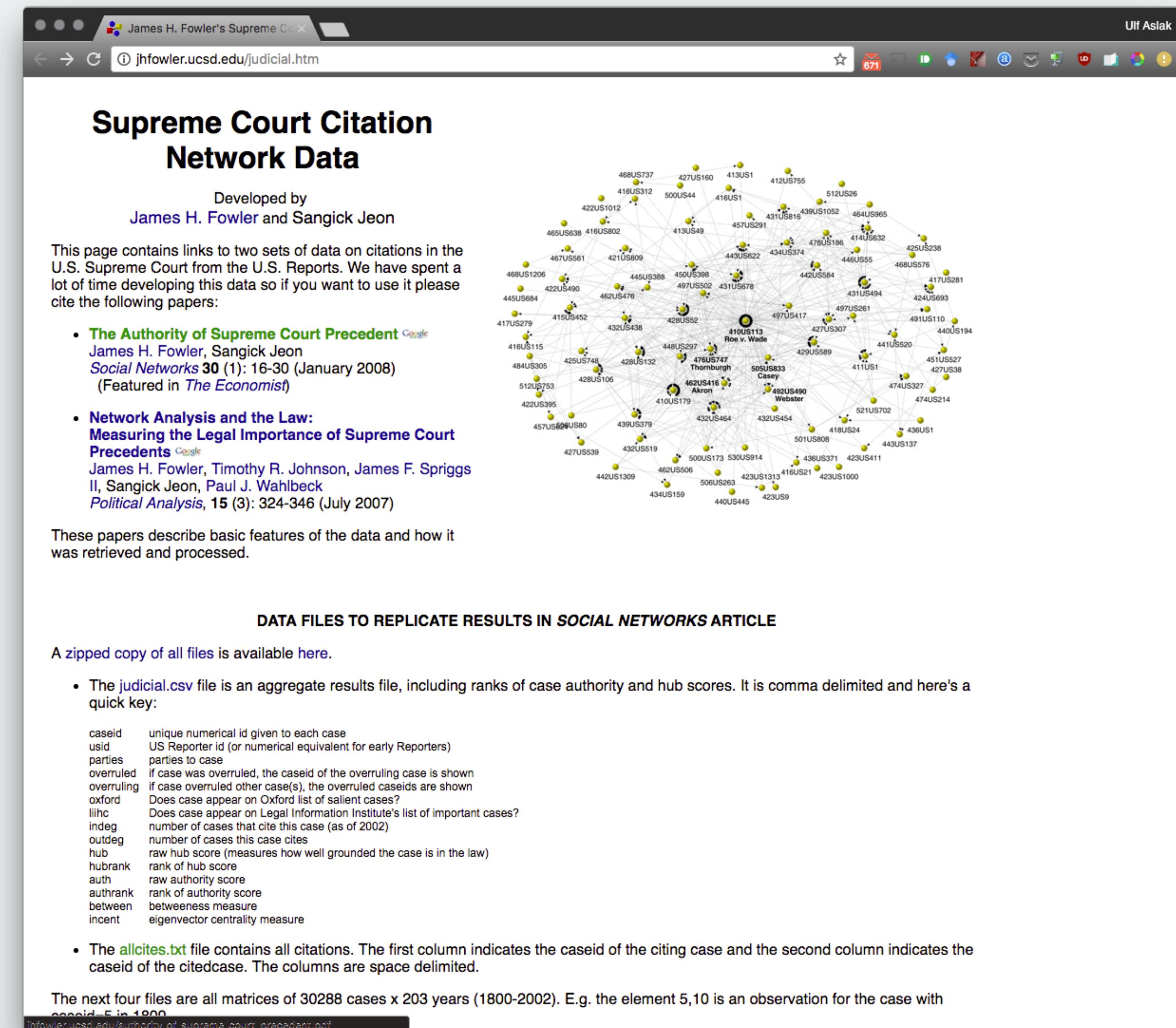
Epidemic size

Epidemic rate

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

Open data

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



Open data

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

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

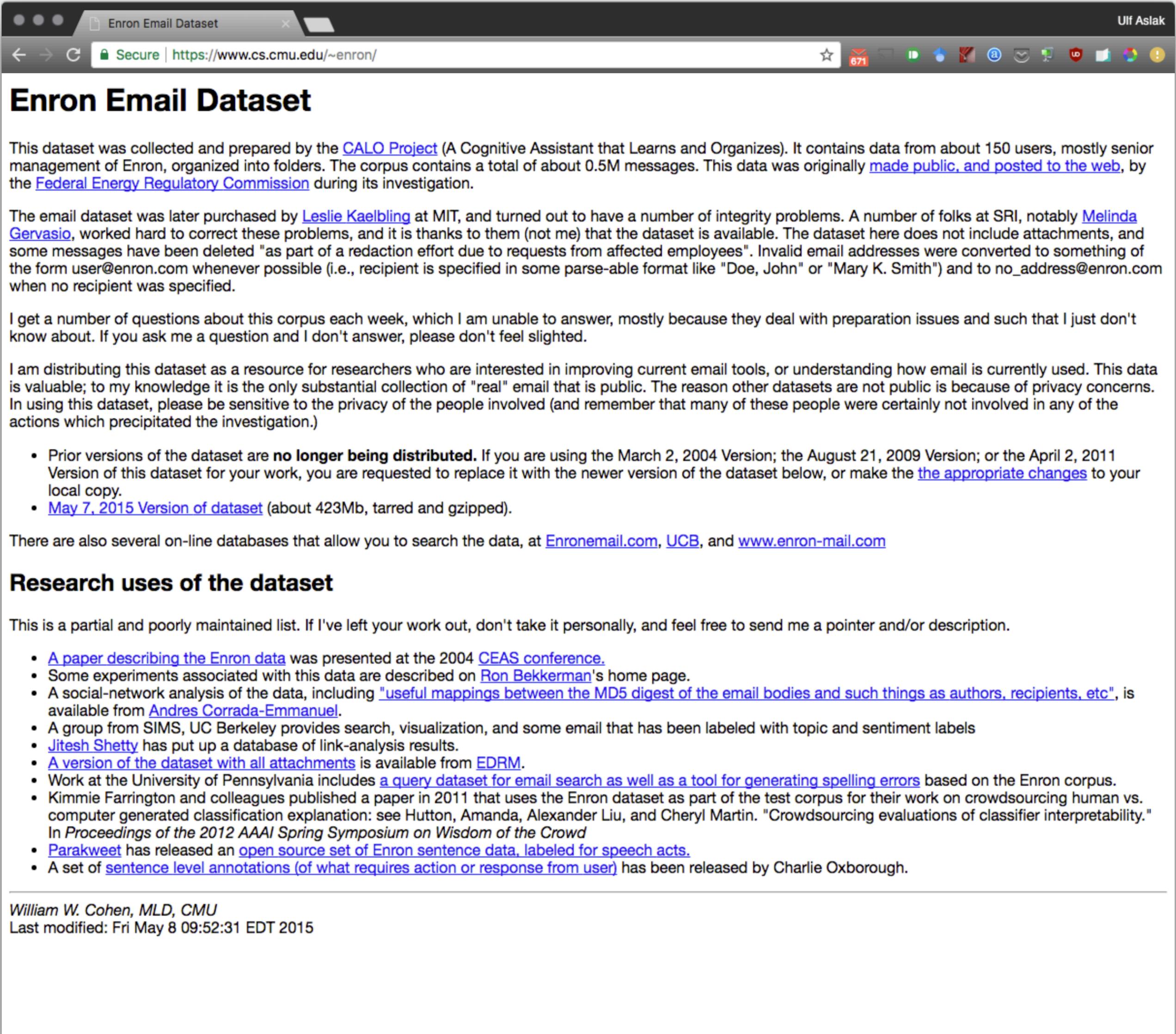
- City data

- Political data

- Research data

- Competition datasets

- Transactional data



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

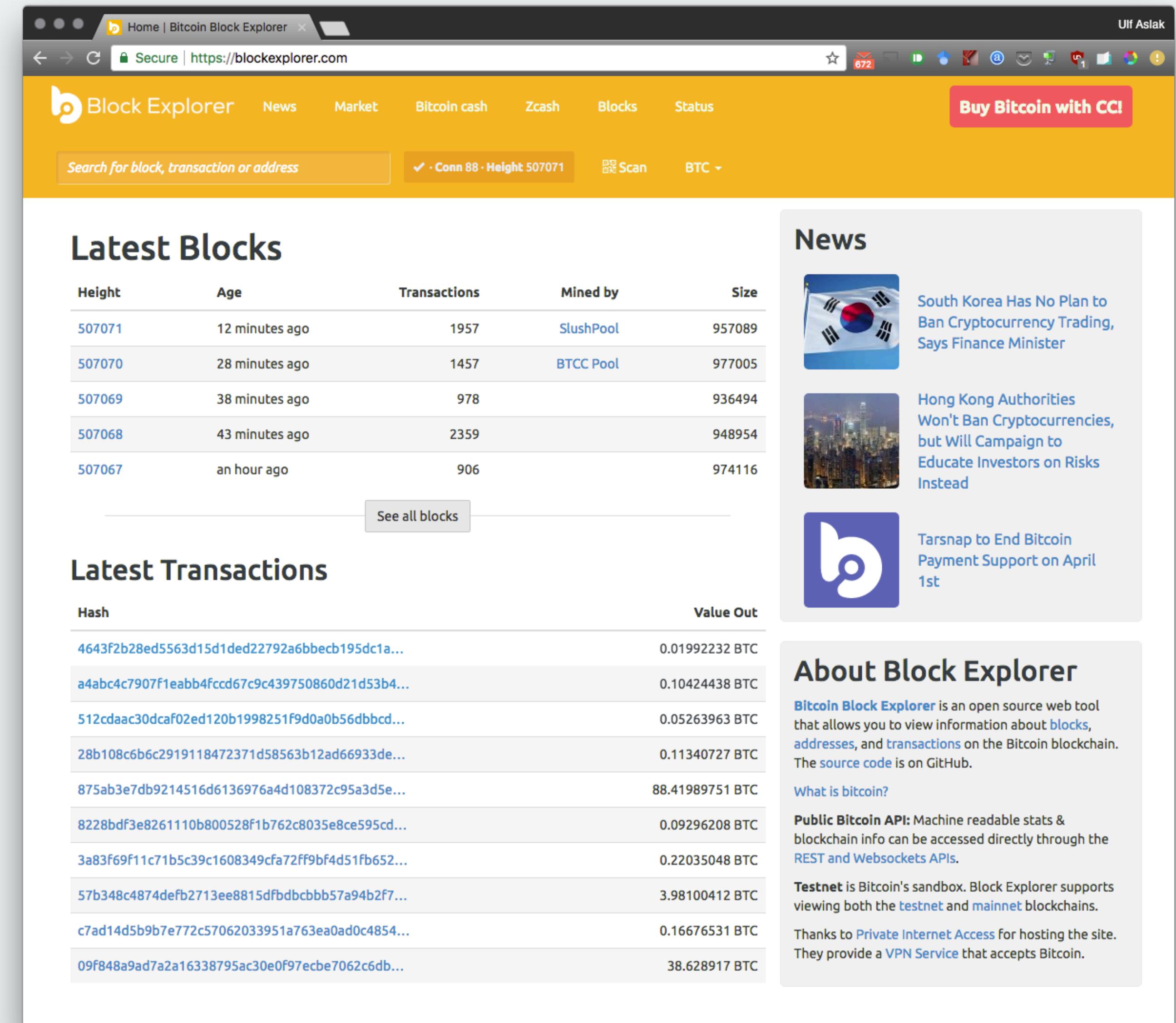
- Geographical data
- City data
- Political data
- Research data
- Competition datasets
- Transactional data

The screenshot shows a web browser displaying the Kaggle datasets page. The page has a dark header with the text "Datasets | Kaggle". Below the header, there are tabs for "Public", "Your Datasets", and "Favorites", with "Public" selected. A search bar at the top right contains the placeholder "Search datasets" and a magnifying glass icon. To the right of the search bar is a dropdown menu labeled "Sort by" with "Hotness" selected. The main content area displays a list of datasets, each with a rank, thumbnail, title, description, tags, file type, size, and download count. The datasets listed are:

Rank	Dataset	Description	Tags	File Type	Size	Downloads
84	Chocolate Bar Ratings	Expert ratings of over 1,700 chocolate bars	critical theory, food and drink	CSV	125 KB	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	3
31	Historical Air Quality	Air Quality Data Collected at Outdoor Monitors Across the US	pollution	BigQuery	323 GB	2
28	GitHub Repos	Code and comments from 2.8 million repos	programming lang..., programming, software engineer...	BigQuery	3 TB	1
201	TED Talks	Data about TED Talks on the TED.com website until September 21st, 2017	CSV	34 MB	9	
241	Fashion MNIST	An MNIST-like dataset of 70,000 28x28 labeled fashion images	clothing, multiclass classifi..., object identification	Other	69 MB	23
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	5
224	Zillow Economics Data	Turning on the lights in housing research.	housing, business, demographics, economics	CSV	511 MB	37k

Open data

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



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?](#)

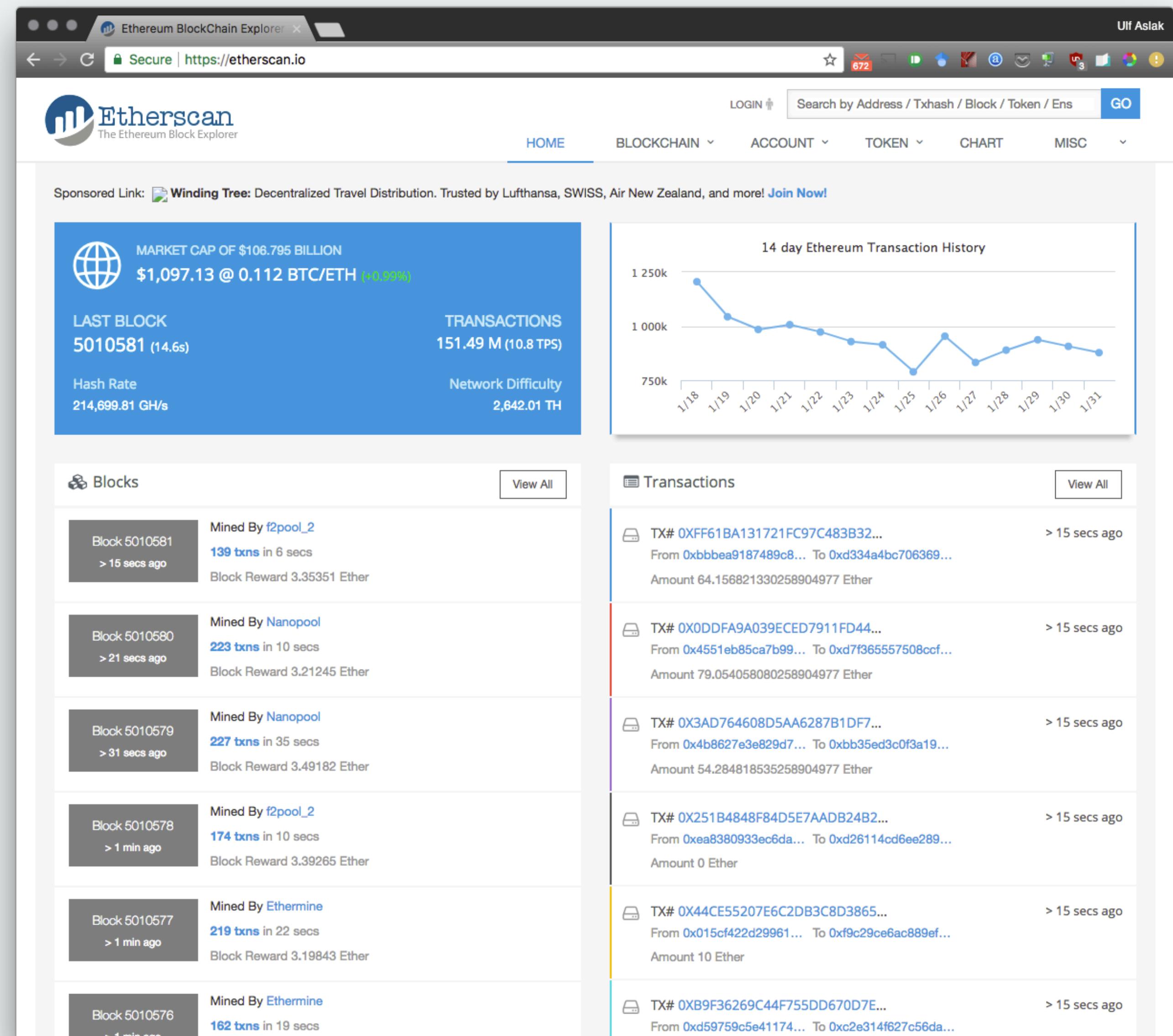
[Public Bitcoin API:](#) Machine readable stats & blockchain info can be accessed directly through the [REST](#) and [Websockets APIs](#).

[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.

Open data

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



APIs

APIs

What is an API?

APIs

Batman - Wikipedia

Secure | https://en.wikipedia.org/wiki/Batman

Ulf Aslak

Article Talk Read View source View history Search Wikipedia

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	<i>Detective Comics</i> #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()
```

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()
```

API address

Query parameters

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()
```

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()
```

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()
```

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()
```

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

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

```
{
  "batchcomplete": "",
  "query": {
    "pages": {
      "4335": {
        "ns": 0,
        "pageid": 4335,
        "revisions": [
          {
            "*": "{{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
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																										
View All >																											
MOST POPULAR TV ON RT																											
<table border="1"><thead><tr><th>Score</th><th>Show</th></tr></thead><tbody><tr><td>100%</td><td>Black Lightning</td></tr><tr><td>100%</td><td>Counterpart</td></tr><tr><td>97%</td><td>The End of the F***ing World</td></tr><tr><td>64%</td><td>Altered Carbon</td></tr><tr><td>85%</td><td>American Crime Story</td></tr><tr><td>No Score Yet</td><td>Babylon Berlin</td></tr></tbody></table>				Score	Show	100%	Black Lightning	100%	Counterpart	97%	The End of the F***ing World	64%	Altered Carbon	85%	American Crime Story	No Score Yet	Babylon Berlin										
Score	Show																										
100%	Black Lightning																										
100%	Counterpart																										
97%	The End of the F***ing World																										
64%	Altered Carbon																										
85%	American Crime Story																										
No Score Yet	Babylon Berlin																										
View All >																											
TOP DVD & STREAMING MOVIES																											

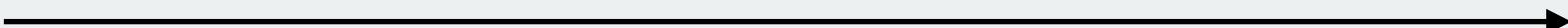
Scraping

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 snippets: "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 includes "MOVIES OPENING THIS WEEK" (e.g., "Winchester" with 87% score), "TOP BOX OFFICE" (e.g., "Maze Runner: The Death Cure" with 45% score), "COMING SOON TO THEATERS" (e.g., "Fifty Shades Freed" with 80% score), "NEW TV TONIGHT" (e.g., "A.P. Bio" with 29% score), "MOST POPULAR TV ON RT" (e.g., "Black Lightning" with 100% score), and "TOP DVD & STREAMING MOVIES". Social sharing icons for Facebook, Twitter, and others are visible on the right.

Scraping

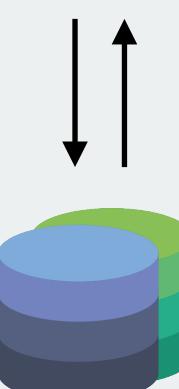
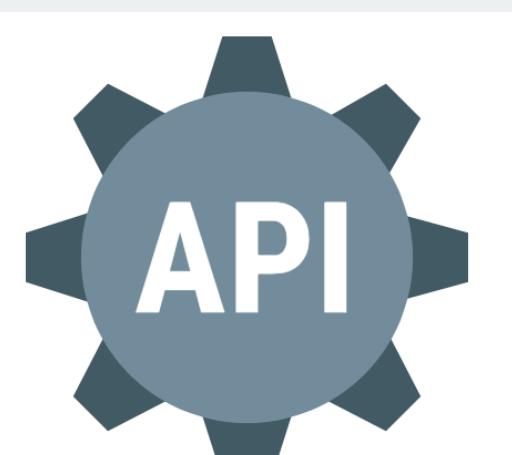
The screenshot shows the Kevin Bacon page on Rotten Tomatoes. At the top, there's a navigation bar with links for MOVIES & DVDS, TV, NEWS, and TICKETS & SHOWTIMES. Below the navigation is a search bar and a trending section. The main content features a large photo of Kevin Bacon and a summary of his career highlights, including his highest rated movie (Apollo 13) and lowest rated movie (The Darkness). To the right, there's a sidebar with news and interview snippets about Kevin Bacon, including links to the Golden Globes 2018 winners and nominations. Below the main summary are sections for photos and highest-rated movies, each with a grid of thumbnail images.

Scraping



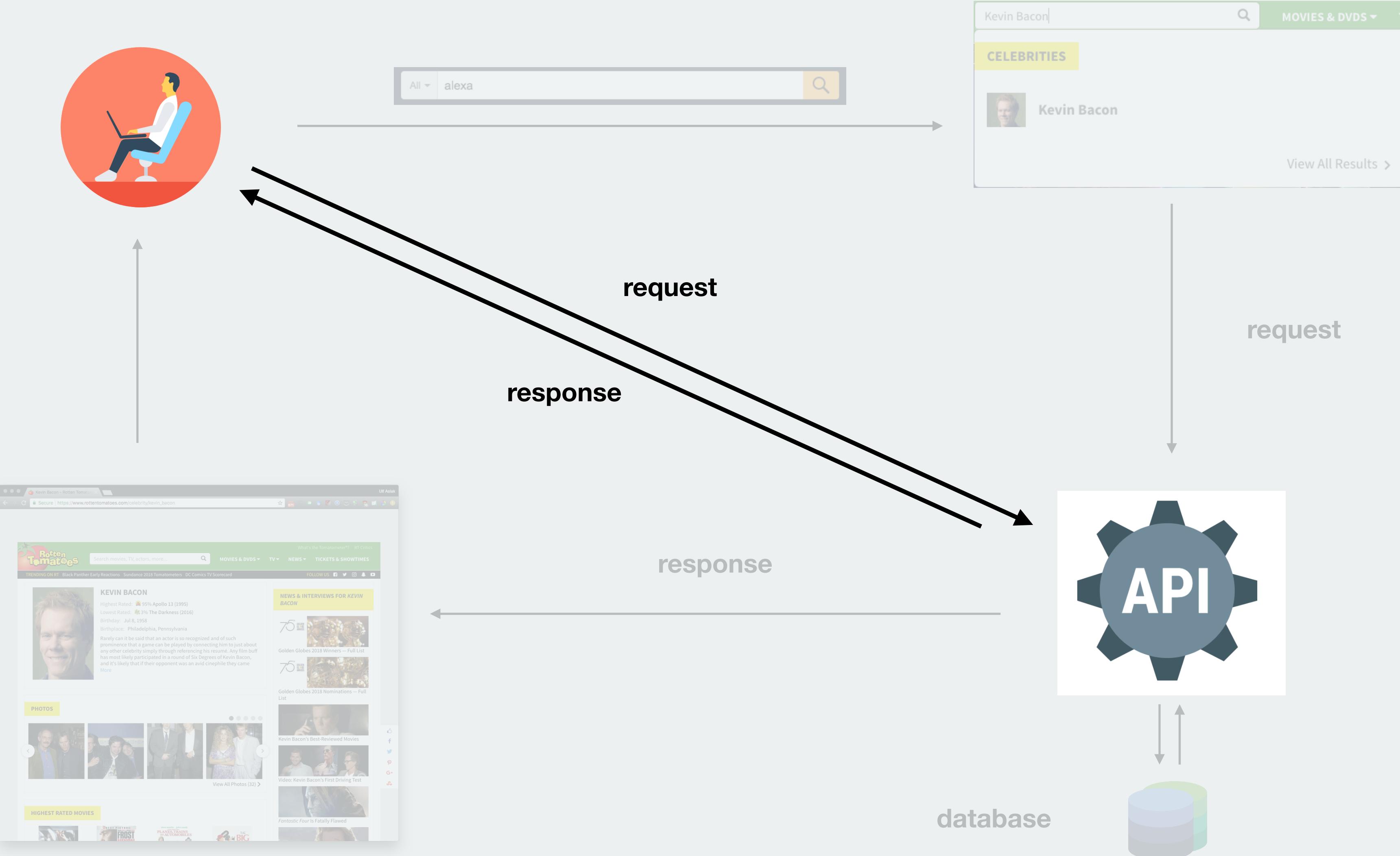
request

response

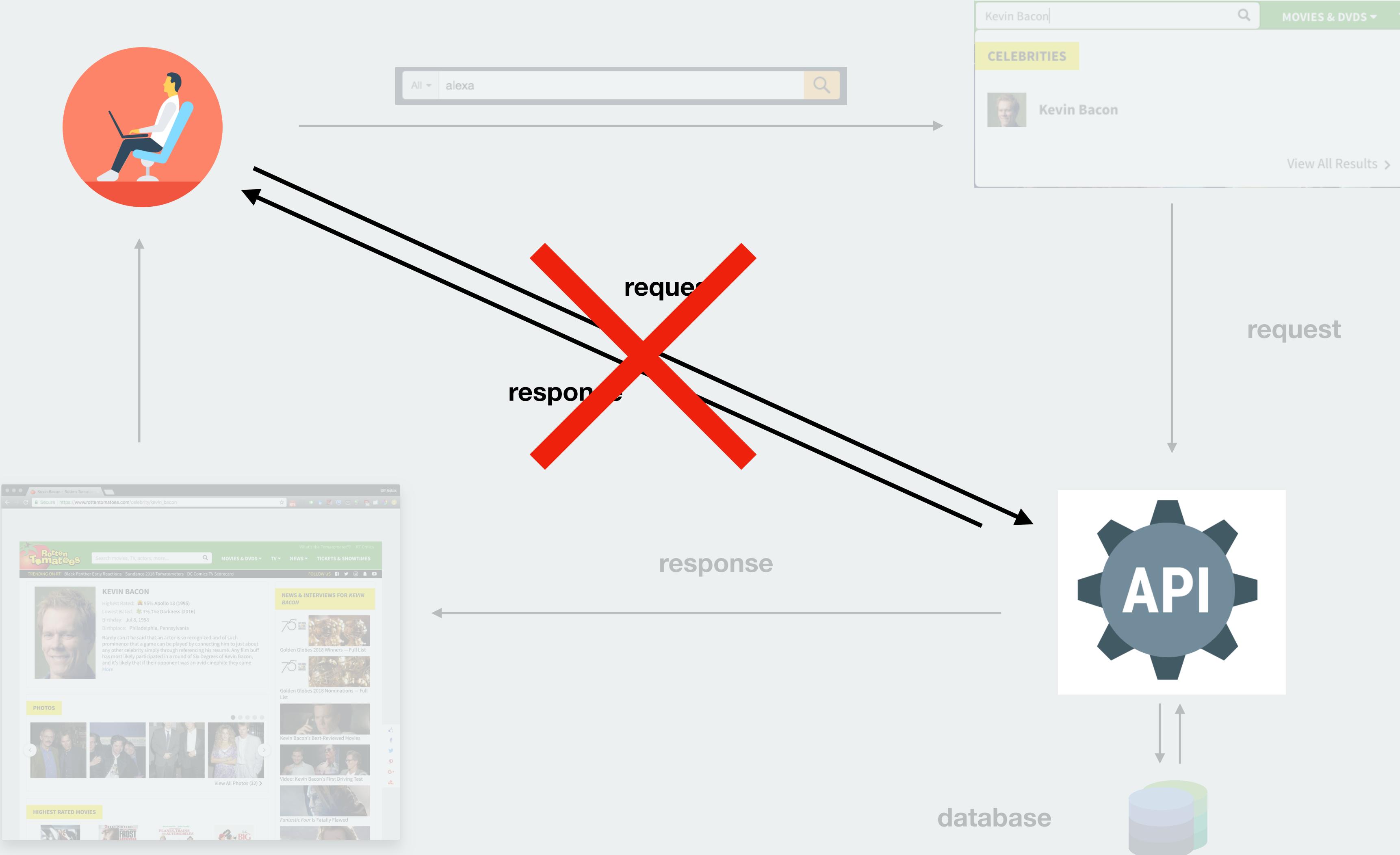


database

Scraping



Scraping



Scraping

The screenshot shows the Rotten Tomatoes website for Kevin Bacon. At the top, there is a navigation bar with links for "MOVIES & DVDS", "TV", "NEWS", and "TICKETS & SHOWTIMES". Below the navigation bar, there is a search bar and a trending section. The main content area features a large photo of Kevin Bacon and his biography. It includes information about his highest rated movie (Apollo 13), lowest rated movie (The Darkness), birthday (July 8, 1958), and birthplace (Philadelphia, Pennsylvania). A "More" link is also present. To the right, there is a sidebar titled "NEWS & INTERVIEWS FOR KEVIN BACON" featuring links to the Golden Globes 2018 winners and nominations. Below the biography, there is a "PHOTOS" section with a grid of small images and a "View All Photos (32)" link. At the bottom, there is a "HIGHEST RATED MOVIES" section with thumbnails for Apollo 13, Frost/Nixon, Planes, Trains and Automobiles, 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, and several social sharing links (Add page to Reading List, Block element, Email page link..., Pushbullet, Save To Pocket, Shorten this page with goo.gl). The menu also includes View Page Source and Inspect.

KEVIN BACON

Highest Rated: 95% Apollo 13 (1995)
Lowest Rated: 3% The Darkness (2016)
Birthday: Jul 8, 1958
Birthplace: Philadelphia, Pennsylvania
Rarely can it be said that an actor is so recognized a...
[More](#)

PHOTOS

[View All Photos \(32\) >](#)

HIGHEST RATED MOVIES

NEWS & INTERVIEWS FOR KEVIN

Golden Globes 2018 Winners — Full List

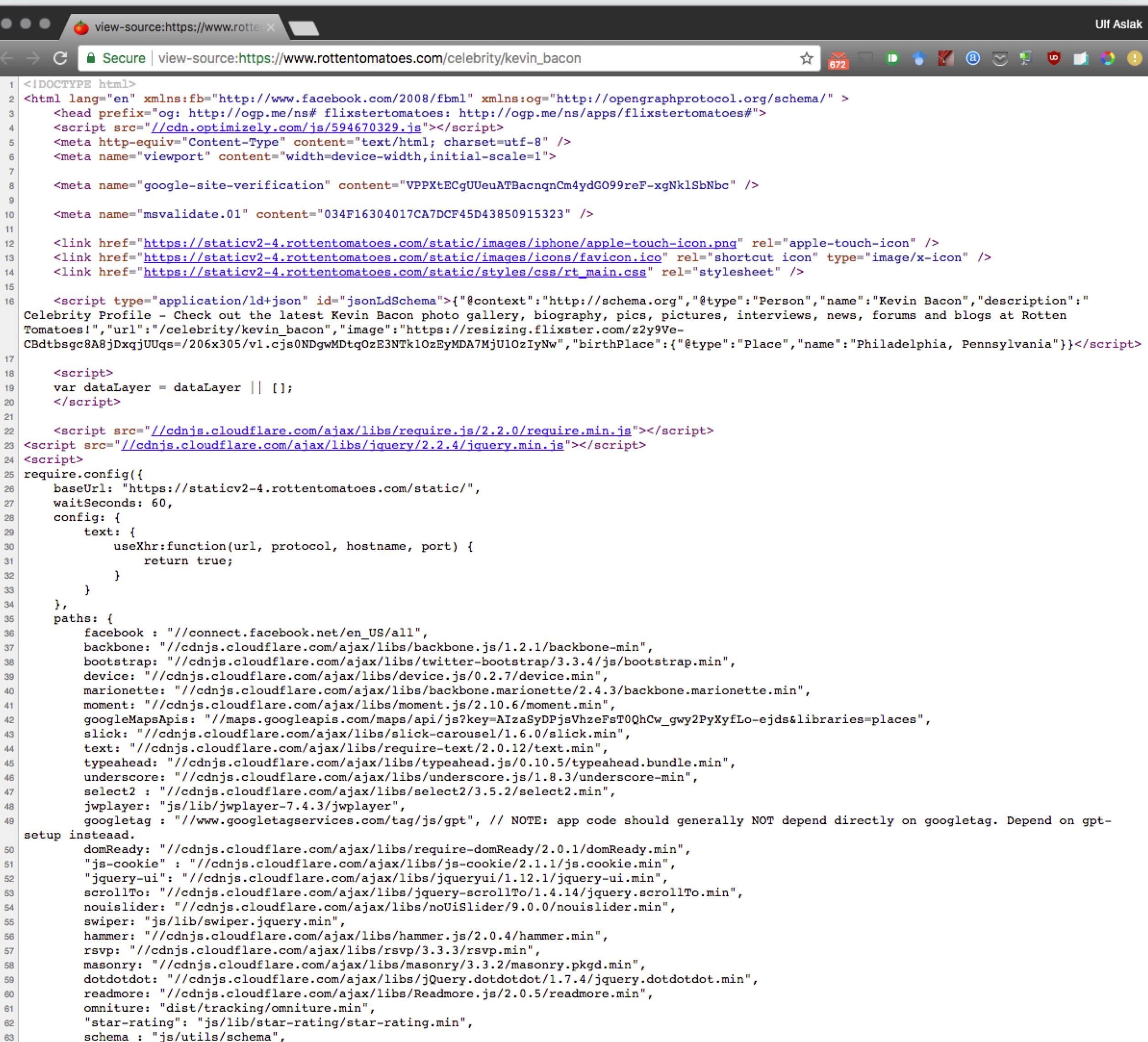
Golden Globes 2018 Nominations — Full List

Kevin Bacon's Best-Reviewed Movies

Video: Kevin Bacon's First Driving Test

Fantastic Four Is Fatally Flawed

Scraping



The screenshot shows a browser window displaying the source code of a Rotten Tomatoes celebrity profile page for Kevin Bacon. 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.
201        domReady: "//cdnjs.cloudflare.com/ajax/libs/require-domReady/2.0.1/domReady.min",
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      }
216    </script>
217
218    <script>
219      var dataLayer = dataLayer || [];
220    </script>
221
222    <script src="//cdnjs.cloudflare.com/ajax/libs/require.js/2.2.0/require.min.js"></script>
223    <script src="//cdnjs.cloudflare.com/ajax/libs/jquery/2.2.4/jquery.min.js"></script>
224    <script>
225      require.config({
226        baseUrl: "https://staticv2-4.rottentomatoes.com/static/",
227        waitSeconds: 60,
228        config: {
229          text: {
230            useXhr:function(url, protocol, hostname, port) {
231              return true;
232            }
233          }
234        },
235        paths: {
236          facebook: "//connect.facebook.net/en_US/all",
237          backbone: "//cdnjs.cloudflare.com/ajax/libs/backbone.js/1.2.1/backbone-min",
238          bootstrap: "//cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/3.3.4/js/bootstrap.min",
239          device: "//cdnjs.cloudflare.com/ajax/libs/device.js/0.2.7/device.min",
240          marionette: "//cdnjs.cloudflare.com/ajax/libs/backbone.marionette/2.4.3/backbone.marionette.min",
241          moment: "//cdnjs.cloudflare.com/ajax/libs/moment.js/2.10.6/moment.min",
242          googleMapsApis: "//maps.googleapis.com/maps/api/js?key=AIzaSyDPjsVhzeFsT0QhCw_gwy2PyXyfLo-ejds&libraries=places",
243          slick: "//cdnjs.cloudflare.com/ajax/libs/slick-carousel/1.6.0/slick.min",
244          text: "//cdnjs.cloudflare.com/ajax/libs/require-text/2.0.12/text.min",
245          typeahead: "//cdnjs.cloudflare.com/ajax/libs/typeahead.js/0.10.5/typeahead.bundle.min",
246          underscore: "//cdnjs.cloudflare.com/ajax/libs/underscore.js/1.8.3/underscore-min",
247          select2: "//cdnjs.cloudflare.com/ajax/libs/select2/3.5.2/select2.min",
248          jwplayer: "js/lib/jwplayer-7.4.3/jwplayer",
249          googletag: "www.googletagservices.com/tag/js/gpt", // NOTE: app code should generally NOT depend directly on googletag. Depend on gpt-
250        setup instead.
251        domReady: "//cdnjs.cloudflare.com/ajax/libs/require-domReady/2.0.1/domReady.min",
252        js.cookie: "//cdnjs.cloudflare.com/ajax/libs/js-cookie/2.1.1/js.cookie.min",
253        jquery-ui: "//cdnjs.cloudflare.com/ajax/libs/jqueryui/1.12.1/jquery-ui.min",
254        scrollTo: "//cdnjs.cloudflare.com/ajax/libs/jquery-scrollTo/1.4.14/jquery.scrollTo.min",
255        nouislider: "//cdnjs.cloudflare.com/ajax/libs/noUiSlider/9.0.0/nouislider.min",
256        swiper: "js/lib/swiper.jquery.min",
257        hammer: "//cdnjs.cloudflare.com/ajax/libs/hammer.js/2.0.4/hammer.min",
258        rsvp: "//cdnjs.cloudflare.com/ajax/libs/rsvp/3.3.3/rsvp.min",
259        masonry: "//cdnjs.cloudflare.com/ajax/libs/masonry/3.3.2/masonry.pkgd.min",
260        dotdotdot: "//cdnjs.cloudflare.com/ajax/libs/jquery.dotdotdot/1.7.4/jquery.dotdotdot.min",
261        readmore: "//cdnjs.cloudflare.com/ajax/libs/Readmore.js/2.0.5/readmore.min",
262        omniture: "dist/tracking/omniture.min",
263        "star-rating": "js/lib/star-rating/star-rating.min",
264        schema: "js/utils/schema"
265      }
266    </script>
267
268    <script>
269      var dataLayer = dataLayer || [];
270    </script>
271
272    <script src="//cdnjs.cloudflare.com/ajax/libs/require.js/2.2.0/require.min.js"></script>
273    <script src="//cdnjs.cloudflare.com/ajax/libs/jquery/2.2.4/jquery.min.js"></script>
274    <script>
275      require.config({
276        baseUrl: "https://staticv2-4.rottentomatoes.com/static/",
277        waitSeconds: 60,
278        config: {
279          text: {
280            useXhr:function(url, protocol, hostname, port) {
281              return true;
282            }
283          }
284        },
285        paths: {
286          facebook: "//connect.facebook.net/en_US/all",
287          backbone: "//cdnjs.cloudflare.com/ajax/libs/backbone.js/1.2.1/backbone-min",
288          bootstrap: "//cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/3.3.4/js/bootstrap.min",
289          device: "//cdnjs.cloudflare.com/ajax/libs/device.js/0.2.7/device.min",
290          marionette: "//cdnjs.cloudflare.com/ajax/libs/backbone.marionette/2.4.3/backbone.marionette.min",
291          moment: "//cdnjs.cloudflare.com/ajax/libs/moment.js/2.10.6/moment.min",
292          googleMapsApis: "//maps.googleapis.com/maps/api/js?key=AIzaSyDPjsVhzeFsT0QhCw_gwy2PyXyfLo-ejds&libraries=places",
293          slick: "//cdnjs.cloudflare.com/ajax/libs/slick-carousel/1.6.0/slick.min",
294          text: "//cdnjs.cloudflare.com/ajax/libs/require-text/2.0.12/text.min",
295          typeahead: "//cdnjs.cloudflare.com/ajax/libs/typeahead.js/0.10.5/typeahead.bundle.min",
296          underscore: "//cdnjs.cloudflare.com/ajax/libs/underscore.js/1.8.3/underscore-min",
297          select2: "//cdnjs.cloudflare.com/ajax/libs/select2/3.5.2/select2.min",
298          jwplayer: "js/lib/jwplayer-7.4.3/jwplayer",
299          googletag: "www.googletagservices.com/tag/js/gpt", // NOTE: app code should generally NOT depend directly on googletag. Depend on gpt-
300        setup instead.
301        domReady: "//cdnjs.cloudflare.com/ajax/libs/require-domReady/2.0.1/domReady.min",
302        js.cookie: "//cdnjs.cloudflare.com/ajax/libs/js-cookie/2.1.1/js.cookie.min",
303        jquery-ui: "//cdnjs.cloudflare.com/ajax/libs/jqueryui/1.12.1/jquery-ui.min",
304        scrollTo: "//cdnjs.cloudflare.com/ajax/libs/jquery-scrollTo/1.4.14/jquery.scrollTo.min",
305        nouislider: "//cdnjs.cloudflare.com/ajax/libs/noUiSlider/9.0.0/nouislider.min",
306        swiper: "js/lib/swiper.jquery.min",
307        hammer: "//cdnjs.cloudflare.com/ajax/libs/hammer.js/2.0.4/hammer.min",
308        rsvp: "//cdnjs.cloudflare.com/ajax/libs/rsvp/3.3.3/rsvp.min",
309        masonry: "//cdnjs.cloudflare.com/ajax/libs/masonry/3.3.2/masonry.pkgd.min",
310        dotdotdot: "//cdnjs.cloudflare.com/ajax/libs/jquery.dotdotdot/1.7.4/jquery.dotdotdot.min",
311        readmore: "//cdnjs.cloudflare.com/ajax/libs/Readmore.js/2.0.5/readmore.min",
312        omniture: "dist/tracking/omniture.min",
313        "star-rating": "js/lib/star-rating/star-rating.min",
314        schema: "js/utils/schema"
315      }
316    </script>
317
318    <script>
319      var dataLayer = dataLayer || [];
320    </script>
321
322    <script src="//cdnjs.cloudflare.com/ajax/libs/require.js/2.2.0/require.min.js"></script>
323    <script src="//cdnjs.cloudflare.com/ajax/libs/jquery/2.2.4/jquery.min.js"></script>
324    <script>
325      require.config({
326        baseUrl: "https://staticv2-4.rottentomatoes.com/static/",
327        waitSeconds: 60,
328        config: {
329          text: {
330            useXhr:function(url, protocol, hostname, port) {
331              return true;
332            }
333          }
334        },
335        paths: {
336          facebook: "//connect.facebook.net/en_US/all",
337          backbone: "//cdnjs.cloudflare.com/ajax/libs/backbone.js/1.2.1/backbone-min",
338          bootstrap: "//cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/3.3.4/js/bootstrap.min",
339          device: "//cdnjs.cloudflare.com/ajax/libs/device.js/0.2.7/device.min",
340          marionette: "//cdnjs.cloudflare.com/ajax/libs/backbone.marionette/2.4.3/backbone.marionette.min",
341          moment: "//cdnjs.cloudflare.com/ajax/libs/moment.js/2.10.6/moment.min",
342          googleMapsApis: "//maps.googleapis.com/maps/api/js?key=AIzaSyDPjsVhzeFsT0QhCw_gwy2PyXyfLo-ejds&libraries=places",
343          slick: "//cdnjs.cloudflare.com/ajax/libs/slick-carousel/1.6.0/slick.min",
344          text: "//cdnjs.cloudflare.com/ajax/libs/require-text/2.0.12/text.min",
345          typeahead: "//cdnjs.cloudflare.com/ajax/libs/typeahead.js/0.10.5/typeahead.bundle.min",
346          underscore: "//cdnjs.cloudflare.com/ajax/libs/underscore.js/1.8.3/underscore-min",
347          select2: "//cdnjs.cloudflare.com/ajax/libs/select2/3.5.2/select2.min",
348          jwplayer: "js/lib/jwplayer-7.4.3/jwplayer",
349          googletag: "www.googletagservices.com/tag/js/gpt", // NOTE: app code should generally NOT depend directly on googletag. Depend on gpt-
350        setup instead.
351        domReady: "//cdnjs.cloudflare.com/ajax/libs/require-domReady/2.0.1/domReady.min",
352        js.cookie: "//cdnjs.cloudflare.com/ajax/libs/js-cookie/2.1.1/js.cookie.min",
353        jquery-ui: "//cdnjs.cloudflare.com/ajax/libs/jqueryui/1.12.1/jquery-ui.min",
354        scrollTo: "//cdnjs.cloudflare.com/ajax/libs/jquery-scrollTo/1.4.14/jquery.scrollTo.min",
355        nouislider: "//cdnjs.cloudflare.com/ajax/libs/noUiSlider/9.0.0/nouislider.min",
356        swiper: "js/lib/swiper.jquery.min",
357        hammer: "//cdnjs.cloudflare.com/ajax/libs/hammer.js/2.0.4/hammer.min",
358        rsvp: "//cdnjs.cloudflare.com/ajax/libs/rsvp/3.3.3/rsvp.min",
359        masonry: "//cdnjs.cloudflare.com/ajax/libs/masonry/3.3.2/masonry.pkgd.min",
360        dotdotdot: "//cdnjs.cloudflare.com/ajax/libs/jquery.dotdotdot/1.7.4/jquery.dotdotdot.min",
361        readmore: "//cdnjs.cloudflare.com/ajax/libs/Readmore.js/2.0.5/readmore.min",
362        omniture: "dist/tracking/omniture.min",
363        "star-rating": "js/lib/star-rating/star-rating.min",
364        schema: "js/utils/schema"
365      }
366    </script>
367
368    <script>
369      var dataLayer = dataLayer || [];
370    </script>
371
372    <script src="//cdnjs.cloudflare.com/ajax/libs/require.js/2.2.0/require.min.js"></script>
373    <script src="//cdnjs.cloudflare.com/ajax/libs/jquery/2.2.4/jquery.min.js"></script>
374    <script>
375      require.config({
376        baseUrl: "https
```