

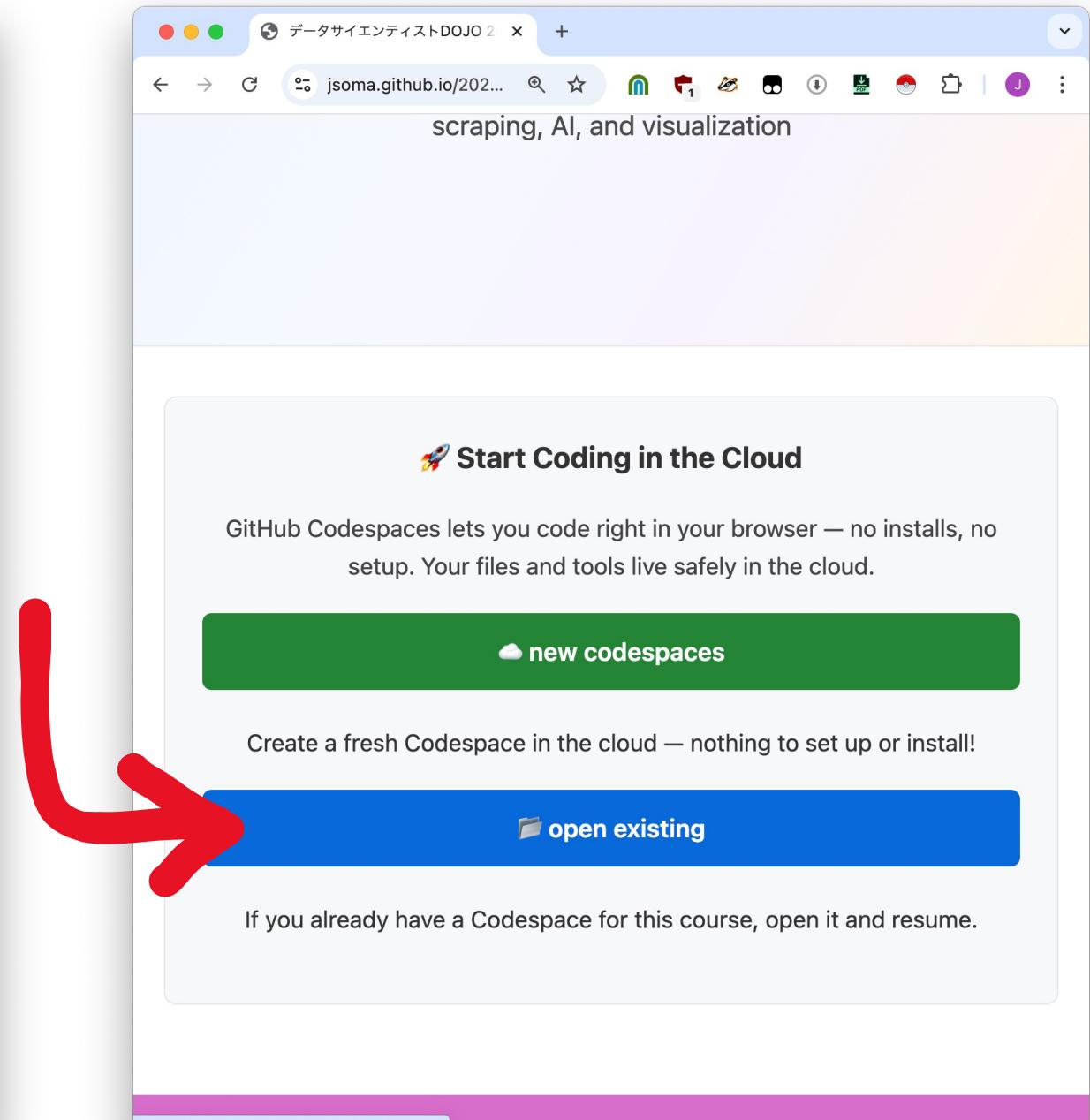
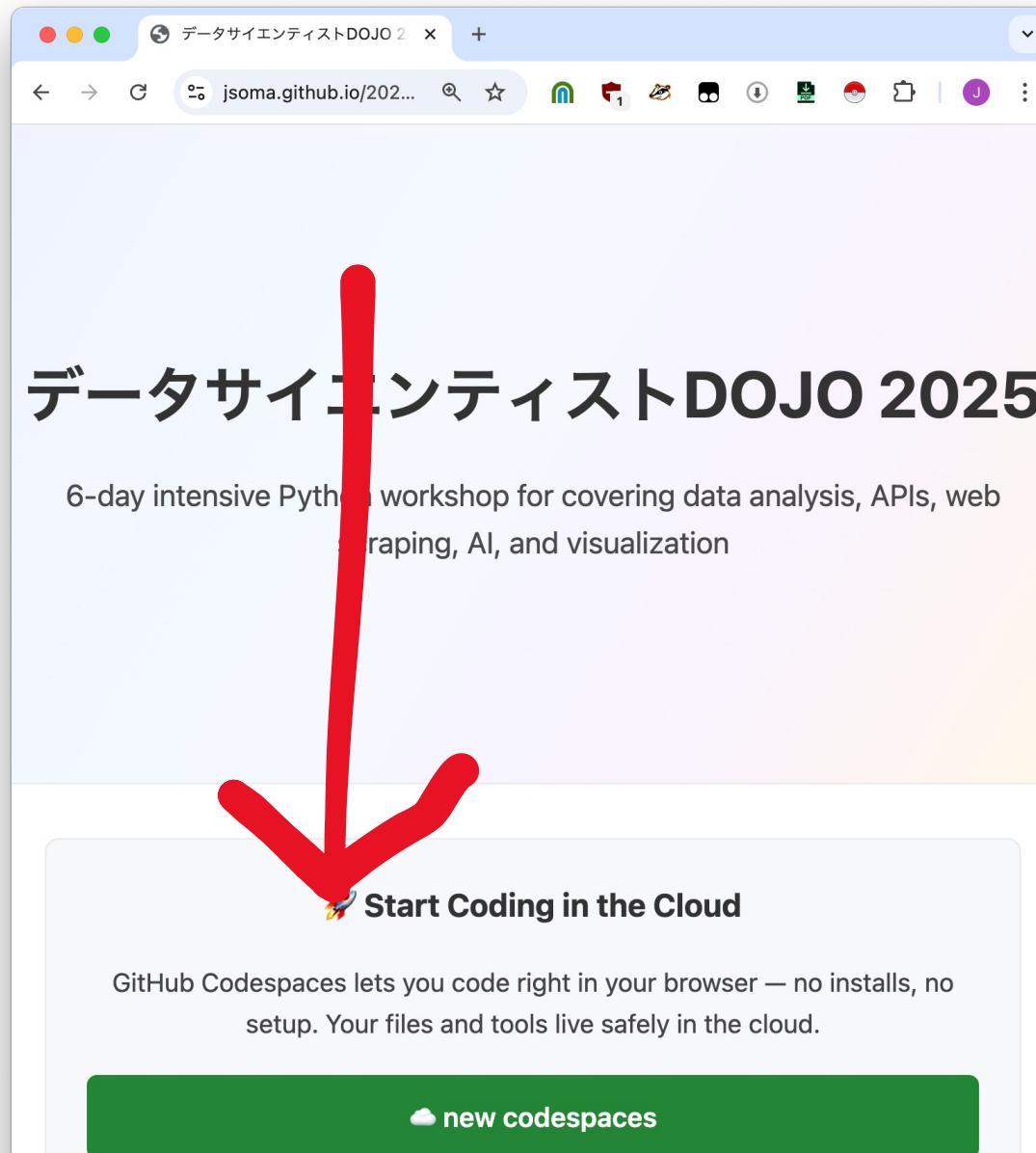
Visit <https://bit.ly/ds-dojo-2025> for materials

# Structured data

Pandas, CSVs, Excel and APIs

First, we review  
a little Python

Visit <https://bit.ly/ds-dojo-2025> for materials



A screenshot of the GitHub Codespaces interface. The top navigation bar shows the title "Codespaces" and the URL "github.com/codespaces?query=repo%3Ajsoma%2F2025-ds-dojo". The main area is titled "Your codespaces" and displays "Explore quick start templates". It includes four cards: "Blank" (a blank canvas), "React" (a JavaScript library for building user interfaces), "Jupyter Notebook" (a web-based interactive development environment), and ".NET" (a full-stack web application template). Below this is a section titled "Owned by jsoma" which lists a single codespace named "musical space dollop". A red arrow points from the "Owned by jsoma" section towards the Explorer sidebar on the right.

A screenshot of the VS Code Explorer sidebar. The sidebar header says "EXPLORER" and shows a tree view of files and folders. A red curly brace highlights the "2025-DS-DOJO [CODESPACES: MUSIC...]" folder. Inside this folder, the following files and folders are listed:

- > .devcontainer
- > 01-python-basics
  - ~\$data-dojo-intro.pptx
  - cheating.csv
  - cheating.pdf
  - data-dojo-intro.pdf
  - data-dojo-intro.pptx
  - First Homework.ipynb
  - hello.ipynb
  - homework.md
  - intro.ipynb
- 例\_学内違反データ.csv
- 学内違反データ.csv
- 学内違反データ.pdf

Visit <https://bit.ly/ds-dojo-2025> for materials

# Structured data

Pandas, CSVs, Excel and APIs

# Your mission

- 1. Take your research from Google Gemini or ChatGPT and find the data you are interested in. Or use data you downloaded from Tokyo Open Data.
- 2. Use ChatGPT or Codespaces+Python to do a small analysis of your data. Remember you need to upload your data, and it needs to be an Excel or a CSV!
- 3. Copy the results of your analysis and paste it into Datawrapper.de, then use that to make a small basic visualization of what you have found.

undo redo print search 100% \$ % .0 .00 123 Arial 10 - + B I A date

A	B	C	D	E
e	agency	recipient	value	savings
5/8/2025	Environmental P	North Carolina A&T State University	1340704	21666
5/8/2025	Environmental P	The University of North Carolina at Chapel Hill dba Office of Contracts and	1894823	78653
5/8/2025	Environmental P	GEORGIA TECH RESEARCH CORP	1000000	476179
5/8/2025	Environmental P	The University of North Carolina at Chapel Hill dba Office of Contracts and	799833	73803
5/8/2025	Environmental P	University of Wisconsin - Madison	998049	567356
5/8/2025	Environmental P	MICHIGAN STATE UNIVERSITY	1600000	156174
5/8/2025				119529
5/8/2025				842529
5/8/2025				
5/7/2025				70094
5/7/2025				2064833
5/7/2025				
5/7/2025	S A&M ENGINEERING EXPERIMENT STATION		1600000	155504
5/7/2025	as Department of Health & Environment		1000000	957738
5/7/2025	Environmental P Regents of the University of California, The		549940	134504
5/7/2025	Environmental P University of California, Davis		799660	237460
5/7/2025	Environmental P University of California, Los Angeles		798825	34196
5/7/2025	Environmental P The Regents of the University of CA - Riverside		576683	478108

# What is “structured data?”

Nothing fancy: spreadsheets. Rows and columns.

## Radford University - Academic Integrity Reports Fall 2021 - Spring 2025

Date/Time of Incident	Conduct Charges	Course
8/3/2021	Plagiarism	English 472/Shakespeare Survey
9/30/2021	Cheating, Plagiarism	Exercise, Sport and Health Education 396-01
9/30/2021	Plagiarism	English 111-74-Principles of College Composition
9/30/2021	Plagiarism	English 111-74-Principles of College Composition
9/30/2021	Plagiarism	English 111-761 Principles of College Composition
10/11/2021	Cheating, Plagiarism	Anthropological Sciences
10/11/2021	Cheating, Plagiarism	Anthropological Sciences
10/11/2021	Cheating, Plagiarism	Anthropological Sciences
10/13/2021	Cheating	Health Communication and Coaching 2021
10/13/2021	Cheating	Health Communication and Coaching 2021
10/15/2021	Facilitation	Communication
10/15/2021	Plagiarism	Communication
10/15/2021	Cheating	Principles of Marketing/Marketing 340
10/15/2021	Facilitation	Communication
10/16/2021	Cheating	English 200: Literary Texts and Contexts
10/18/2021	Plagiarism	Biology 232/01--Organismal Biology
10/19/2021	Cheating	Introductory Psychology/Psychology 121 Section 3
10/19/2021	Cheating	Introductory Psychology/Psychology 121 Section 3
10/19/2021	Cheating	Introductory Psychology/Psychology 121 Section 3
10/19/2021	Cheating	Introductory Psychology/Psychology 121 Section 3
10/26/2021	Plagiarism	English 306-09 Professional Writing
10/26/2021	Cheating	Introductory Psychology/PSYC 121 Section 3
11/5/2021	Plagiarism	Art 100-05 Art Appreciation
11/8/2021	Cheating, Plagiarism	Surgical Pharmacology 113
11/8/2021	Facilitation	Surgical Pharmacology 113
11/17/2021	Cheating	HLTH 480 Health Communication and Coaching
11/17/2021	Cheating	HLTH 480: Health Communication and Coaching
11/19/2021	Cheating, Facilitation	Exercise, Sport and Health Education ESHE 450 Research Methods
11/19/2021	Cheating, Plagiarism	Exercise, Sport and Health Education ESHE 450 Research Methods
12/3/2021	Cheating	Health Education 300
12/3/2021	Cheating	Health Education 300
12/8/2021	Plagiarism	English 111H-37
12/9/2021	Plagiarism	Sociology 360-01
12/13/2021	Cheating, Plagiarism	English 200: Literary Texts and Contexts

cheating.pdf



## Radford University - Academic Integrity Reports Fall 2021 - Spring 2025

Date/Time of Incident	Conduct Charges	Course
8/3/2021	Plagiarism	English 472/Shakespeare Survey
9/30/2021	Cheating, Plagiarism	Exercise, Sport and Health Education 396-01
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10/11/2021	Cheating, Plagiarism	Anthropological Sciences
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10/13/2021	Cheating	Health Communication and Coaching 2021
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10/15/2021	Facilitation	Communication
10/15/2021	Plagiarism	Communication
10/15/2021	Cheating	Principles of Marketing/Marketing 340
10/15/2021	Facilitation	Communication
10/16/2021	Cheating	English 200: Literary Texts and Contexts
10/18/2021	Plagiarism	Biology 232/01--Organismal Biology
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10/19/2021	Cheating	Introductory Psychology/Psychology 121 Section 3
10/19/2021	Cheating	Introductory Psychology/Psychology 121 Section 3
10/19/2021	Cheating	Introductory Psychology/Psychology 121 Section 3
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12/3/2021	Cheating	Health Education 300
12/8/2021	Plagiarism	English 111H-37
12/9/2021	Plagiarism	Sociology 360-01
12/13/2021	Cheating, Plagiarism	English 200: Literary Texts and Contexts

CSV

cheating.csv

Visit <https://bit.ly/ds-dojo-2025> for materials

データサイエンティストDOJO 2025

6-day intensive Python workshop for covering data analysis, APIs, web scraping, AI, and visualization

 [Start Coding in the Cloud](#)

GitHub Codespaces lets you code right in your browser — no installs, no setup. Your files and tools live safely in the cloud.

 [new codespaces](#)

Create a fresh Codespace in the cloud — nothing to set up or install!

Data Analysis with Pandas

Visit <https://bit.ly/ds-dojo-2024> for materials

## Structured data

Pandas, CSVs, Excel and APIs

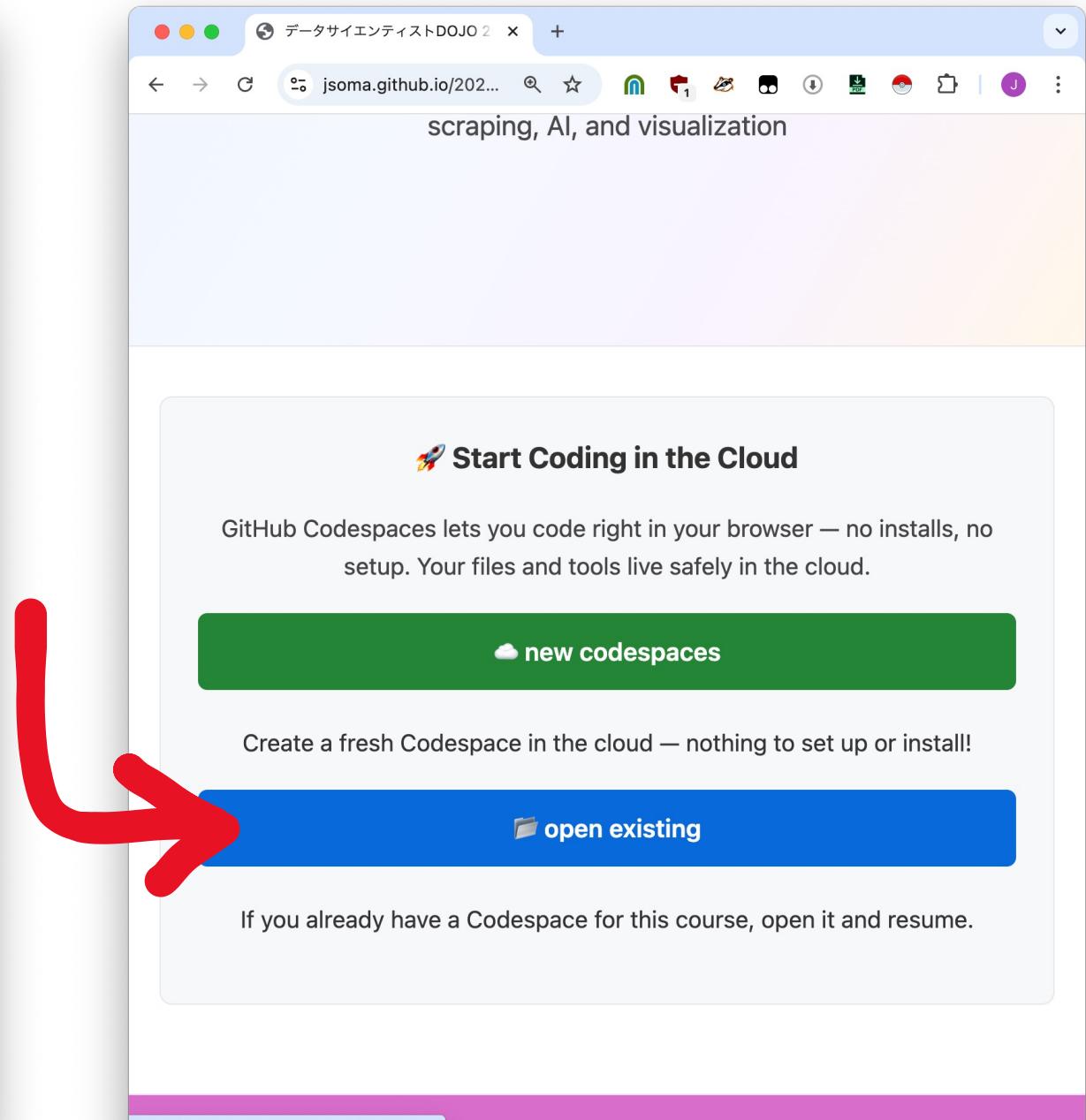
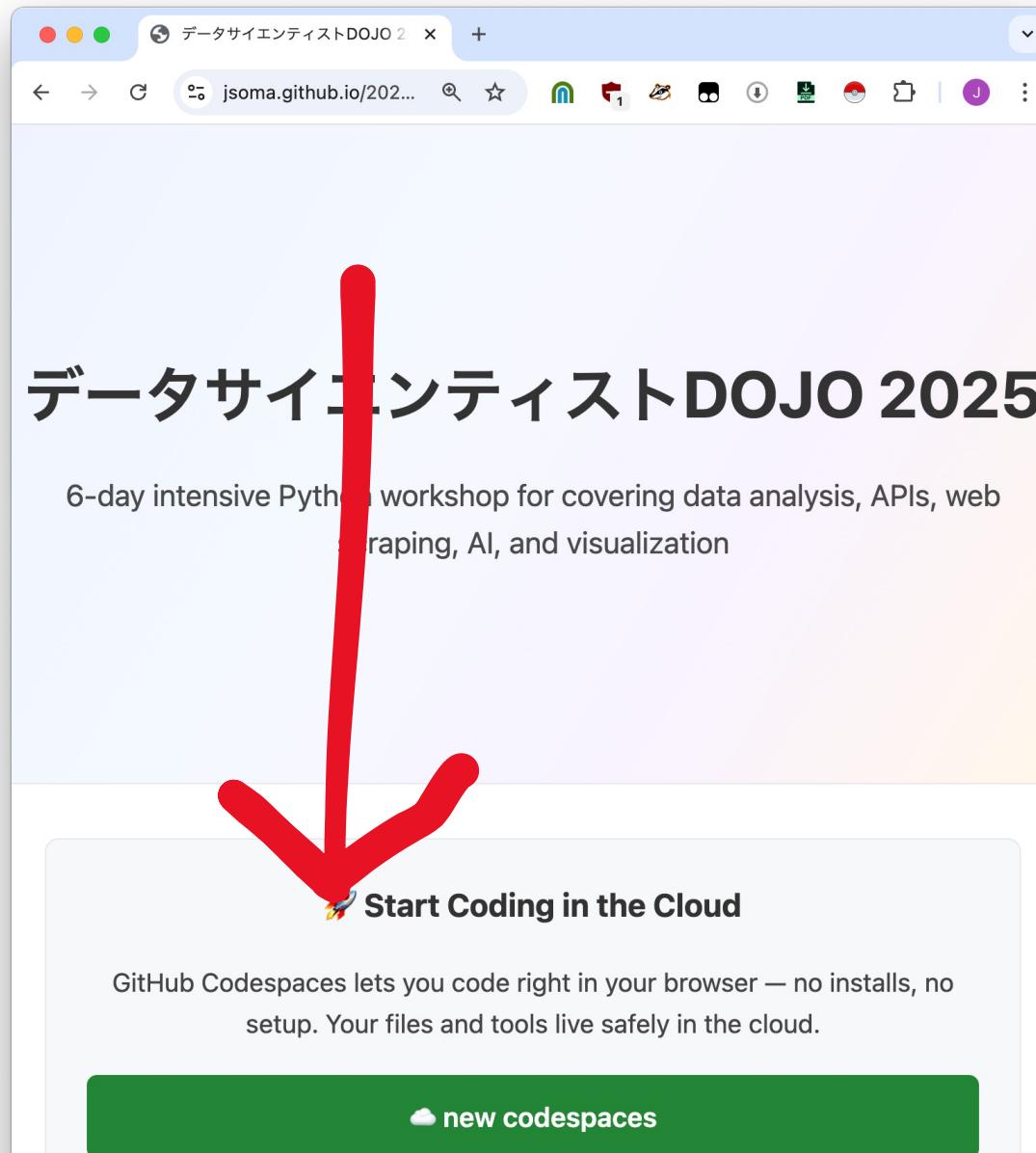
 [View Slides](#)  [Download PDF](#)

Section files: [02-pandas-data.zip](#)

[Data Analysis with Pandas →](#)

[outline →](#)

Visit <https://bit.ly/ds-dojo-2025> for materials



The screenshot shows the GitHub Codespaces interface. On the left, there's a sidebar with 'All' selected under 'Templates'. Below it, 'By repository' shows 'jsoma/2025-ds-dojo' with 1 item. The main area is titled 'Your codespaces' and features 'Explore quick start templates' with three options: 'Blank' (a blank canvas), 'React' (a popular JavaScript library), and 'Jupyter Notebook' (JupyterLab). A red arrow points from the bottom right towards the 'Blank' template. At the bottom, it says 'Owned by jsoma' and lists 'musical space dollop' with a note: 'This codespace has uncommitted changes'. A status bar at the bottom indicates '2-core • 8GB RAM • 30s'.

The screenshot shows the VS Code interface with the title '2025-ds-dojo [Codespaces: 2025-ds-dojo]'. The Explorer sidebar on the left shows a folder structure for '2025-DS-DOJO [co...]' containing '.devcontainer', '01-python-basics', and '02-pandas'. Inside '02-pandas', there are files like '01-pandas basics.ipynb', '02-estats-pandas.ipynb', etc. A large red question mark is drawn over the '02-pandas' folder. A red speech bubble with the Japanese text 'どこ???' (Where???) is also present. The bottom status bar shows 'PROBLEMS OUTPUT DEBUG CONSOLE' and a message about local-only commits.

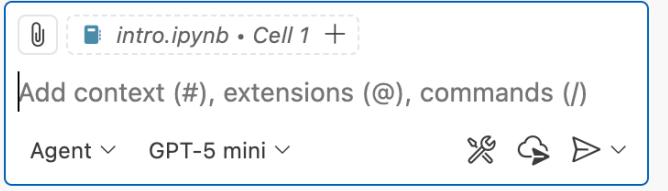
CHAT



## Build with agent mode

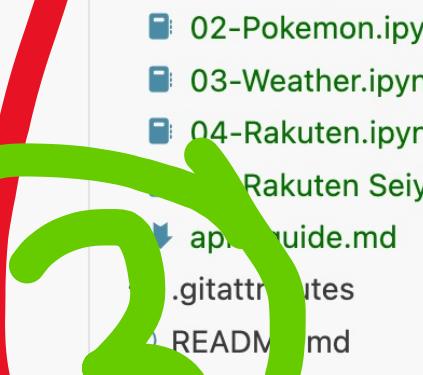
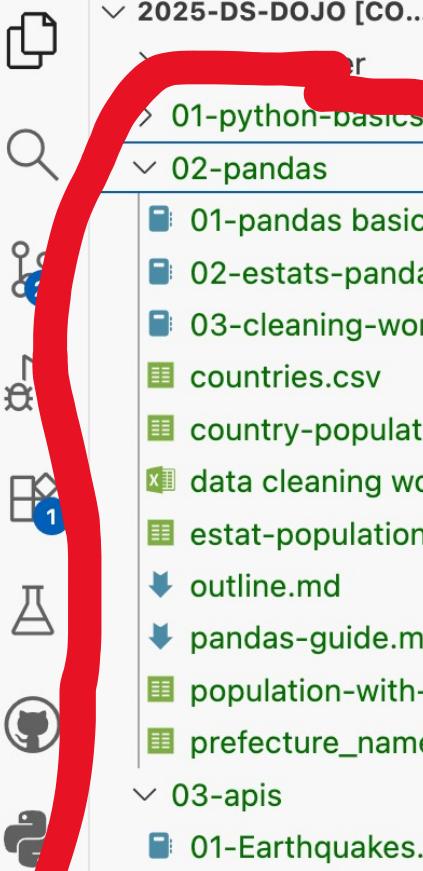
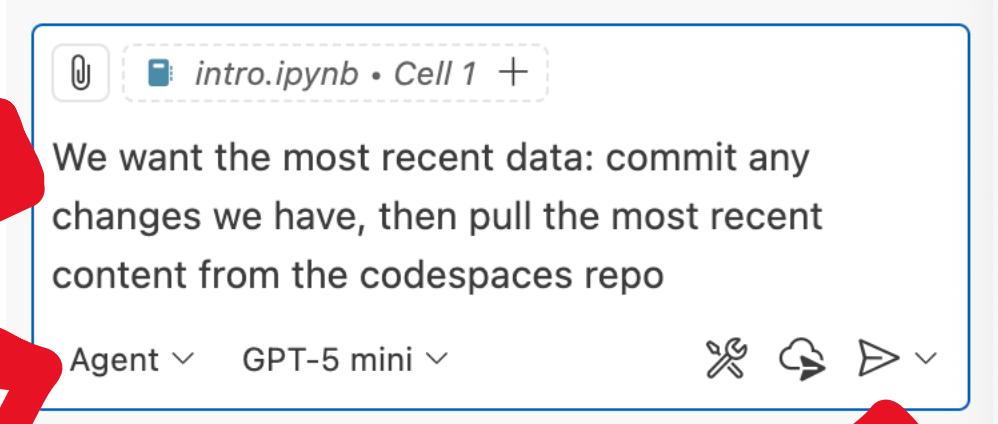
AI responses may be inaccurate.

Generate Agent Instructions to onboard your codebase



“update please”

agent mode



Now let's do a  
little pandas

Open 01-pandas basics.ipynb

# Basic data cleaning

replace and split are  
99% of the game

66 years old

66 years old

66

convert to number

replace “years old”  
with... nothing!

j soma, js4571@columbia.edu, @dangerscarf

j soma | js4571@columbia.edu | @dangerscarf

js4571@columbia.edu



j soma, js4571@columbia.edu, @dangerscarf

j soma | js4571@columbia.edu | @dangerscarf

take second

replace with nothing

js4571@columbia.edu

take second

js4571 | columbia.edu

split on @

split

columbia.edu

I have text like "j soma, js4571@columbia.edu, @dangerscarf" in a Google Sheet and I want to split it by ", ", take the second part, then replace the "@columbia.edu" with nothing. Just give me the formula.

*just ask!  
then TEST IT*



You can use the following Google Sheets formula to achieve this:

plaintext

Copy code

```
=SUBSTITUTE(INDEX(SPLIT(A1, ", "), 2), "@columbia.edu", "")
```

Explanation:

1. `SPLIT(A1, ", ")` splits the text in cell `A1` by ", ".
2. `INDEX(SPLIT(A1, ", "), 2)` selects the second part of the split text.
3. `SUBSTITUTE(INDEX(SPLIT(A1, ", "), 2), "@columbia.edu", "")` removes the "@columbia.edu" part from the selected text.



*just ask!  
then TEST IT*

I have text like "j soma, js4571@columbia.edu, @dangerscarf" in a Google Sheet and I want to extract the "@columbia.edu" part. Write me a formula to do this. Only show me the formula.



excel

Copy code

```
=RIGHT(A1,LEN(A1)-FIND("@",A1)+1)
```



Feel free to reach out at 555-555-5555



555-555-5555

just ask!  
then TEST IT

8

I have text like "j soma, js4571@columbia.edu, @dangerscarf" in a pandas dataframe column named "details" and I want to split it by ", ", take the second part, then replace the "@columbia.edu" with nothing. Try not to use .apply. Don't create the df, just give me the code.

< 6/8 >



Certainly! Here's the code to achieve that:

python

Copy code

```
# Split the 'details' column by ", " and take the second part
df['email'] = df['details'].str.split(', ').str[1]

# Replace "@columbia.edu" with nothing
df['email'] = df['email'].str.replace('@columbia.edu', '', regex=False)
```

This will split the column and then replace the domain part as required.



just ask!  
then TEST IT

I have text like "j soma, js4571@columbia.edu, @dangerscarf" in a pandas dataframe column named "details" and I want to extract the "@columbia.edu" part. Try not to use .apply. Don't create the df, just give me the code.



You can use the `str.extract` method to extract the "@columbia.edu" part from the "details" column. Here's the code to do that:

python

Copy code

```
df['extracted'] = df['details'].str.extract(r'(\b@\w+\.\edu\b)')
```



# Regular expressions

regex is the other  
other 1%

66 years old

hug what we want  
(capture group)

(66) years old

match anything

(.\*) years old

I am 66 years old



I am (66) years old



I am (.\*) years old

Contact me at 555-555-5555

Contact me at (.\*)

Contact me at 555-555-5555 or  
js4571@columbia.edu

Contact me at (\d\d\d-\d\d\d-\d\d\d\d)

but maybe not!

hug what we want

just numbers

Contact me at 555-555-5555

(\d\d\d-\d\d\d-\d\d\d\d)



maybe we don't  
need an anchor?

Contact me at 5555555555

(\d\d\d-?\d\d\d-?\d\d\d\d)



Contact me at 555+555+5555

(\d\d\d.?\d\d\d.?\d\d\d\d)

*any character is fine!  
(and also optional)*

I have a table that looks like this. Write the SIMPLEST POSSIBLE regex to just extract the values for "Deforested area" in km. Maybe anchor around the year at the start of each line?

just ask!  
then TEST IT

Deforestation of the Amazon rainforest[9][10][11]		
	Year Deforested area	Accumulated loss
2005	10,4 km2 (7,341 sq mi)	332,470 km2 (128,370 sq mi)
	6 km2 (5,516 sq mi)	346,756 km2 (133,883 sq mi)
	km2 (4,498 sq mi)	358,407 km2 (138,382 sq mi)
	11 km2 (4,985 sq mi)	371,318 km2 (143,367 sq mi)
2009	7,464 km2 (2,882 sq mi)	378,782 km2 (146,249 sq mi)
2010	7,000 km2 (2,700 sq mi)	385,782 km2 (148,951 sq mi)
2011	6,418 km2 (2,478 sq mi)	392,200 km2 (151,400 sq mi)
2012	4,571 km2 (1,765 sq mi)	396,771 km2 (153,194 sq mi)
2013	5,891 km2 (2,275 sq mi)	402,662 km2 (155,469 sq mi)
2014	4,848 km2 (1,872 sq mi)	407,510 km2 (157,340 sq mi)

< 5/5 >

To extract the "Deforested area" values in km<sup>2</sup> using a regex, you can use the following simple pattern:

scss

[Copy code](#)

```
^\d{4}\s+(\d{1,5})\s+km2
```

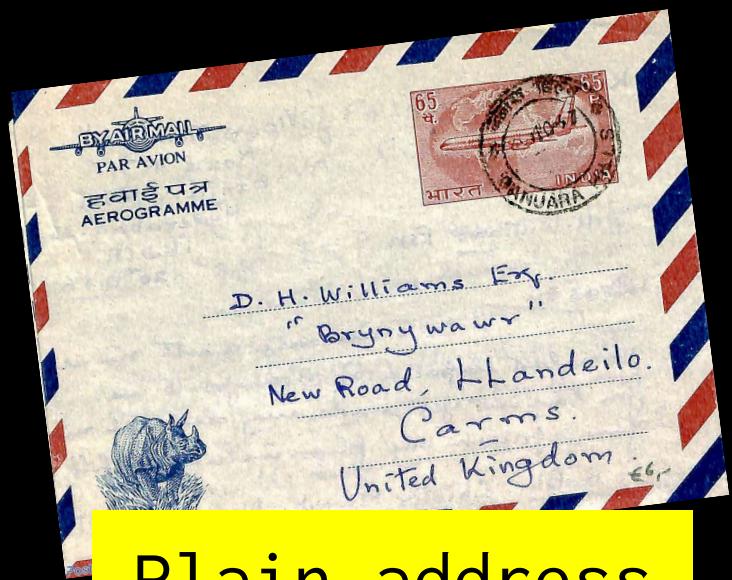
Here's a breakdown of the regex:

- `^` asserts the position at the start of the line.
- `\d{4}` matches exactly four digits (the year).
- `\s+` matches one or more whitespace characters.
- `(\d{1,5})` captures between 1 and 5 digits (the deforested area value) in a capturing group.
- `\s+` matches one or more whitespace characters.
- `km2` matches the literal string "km2".

This pattern will capture the deforested area in km<sup>2</sup> from each line.



# Addresses and maps



Plain address

Geocoding



Latitude/Longitude

Reverse geocoding

Hassle-free geocoding

UPLOAD SPREADSHEET GET AN API KEY

Straightforward and easy-to-use geocoding, reverse geocoding, and data matching for US and Canadian addresses.

drag and drop: geocod.io

Used by thousands of happy customers

ORACLE Stanford PRO

sheets: geocode by awesome table

Geocode by Aweso...

Geocode is a tool that helps you get latitudes & longitudes from addresses in a Google Sheet to display them on a map you can share.

By: Talarian Listing updated: April 1, 2024

Uninstall

Works with:

Overview Permissions Reviews

Custom tooltip

# Geocoder: Simple, Consistent

Release v1.38.1. [\(Installation\)](#)

Simple and consistent geocoding library written in Python. Many online providers such as Google & Bing have geocoding services, these providers do not include Python libraries and have different JSON responses between each other. It can be very difficult sometimes to parse a particular geocoding provider since each one of them have their own JSON schema.

Lat & Lng from

python: geocoder

```
com/maps/api/geocode/json'
address': 'Mountain View, CA'}
[{"location"]
```

Now let's clean  
data with pandas

Open 02-estats-pandas.ipynb

Where does structured  
data come from?

Everywhere! Your company, the internet,  
the government, surveys, yourself...

東京都オープンデータカタログサ +

portal.data.metro.tokyo.lg.jp

TOKYO OPEN DATA  
東京都 オープンデータカタログサイト

サイト内検索 | 文字サイズ: 小 中 大 都庁総合トップ

→ 一覧からデータを探す → APIを探す → データ活用事例を見る → データで見る東京

↑

TOKYO  
OPEN DATA

東京都 オープンデータカタログサイト

公開中のデータを検索する

オープンデータは様々な用途で活用することができます。

- 都や区市町村に関する様々な情報を調べる
- 都政に関するデータを確認する
- アプリやサービス開発に活用する

→ データをリクエストする → データを活用された方へ

東京都オープンデータコミュニティ 都知事杯オープンデータ・ハッカソン 東京都オープンデータ・ラウンドテーブル



東京都オープンデータカタログサ +

portal.data.metro.tokyo.lg.jp

TOKYO OPEN DATA  
東京都 オープンデータカタログサイト

→ 一覧からデータを探す → APIを探す → データ活用事例を見る → データで見る東京

都庁総合トップ

↑

↑

公開中のデータを検索する

データを探す

オープンデータは様々な用途で活用することができます。

- 都や区市町村に関する様々な情報を調べる
- 都政に関するデータを確認する
- サービス開発に活用する

食品

オープンデータ利用に関するアンケート  
ご協力ください。

→ データをリクエストする → データを活用された方へ

東京都オープンデータコミュニティ

都知事杯オープンデータ・ハッカソン

東京都オープンデータ・ラウンドテーブル

The screenshot shows the Tokyo Open Data homepage. A large red arrow points from the word 'Food' (食品) in a red box at the bottom left towards the search bar. Another red arrow points from the same 'Food' label towards the search results section. The page features a dark blue background with white text and several navigation links at the top.

飲食店等 - 食品衛生関係施設一覧

data.bodik.jp/dataset/131105\_food\_business/resource/00a0ebfb-987c-4687-977d-6afed2ad0cac

データセットを検索

168件のデータセットから検索可能です

# 目黒区オープンデータ カタログサイト

データセット カテゴリー お知らせ 活用事例 利用規約 サイトについて お問い合わせ オープンデータマップ

## 食品衛生関係施設 一覧 令和7年4月1 日現在 (新法)

URL: <https://data.bodik.jp/dataset/dbbf7d8e-519d-4ce2-b789-f122b7003777/resource/00a0ebfb-987c-4687-977d-6afed2ad0cac>

データセットの説明

目黒区内の飲食店等の食品衛生関係施設一覧 ※CSVファイルの外部リンクは文字化けの  
一タは毎月10日までに更新されます。

Source: 飲食店等

データエクスプローラー

フィルター追加

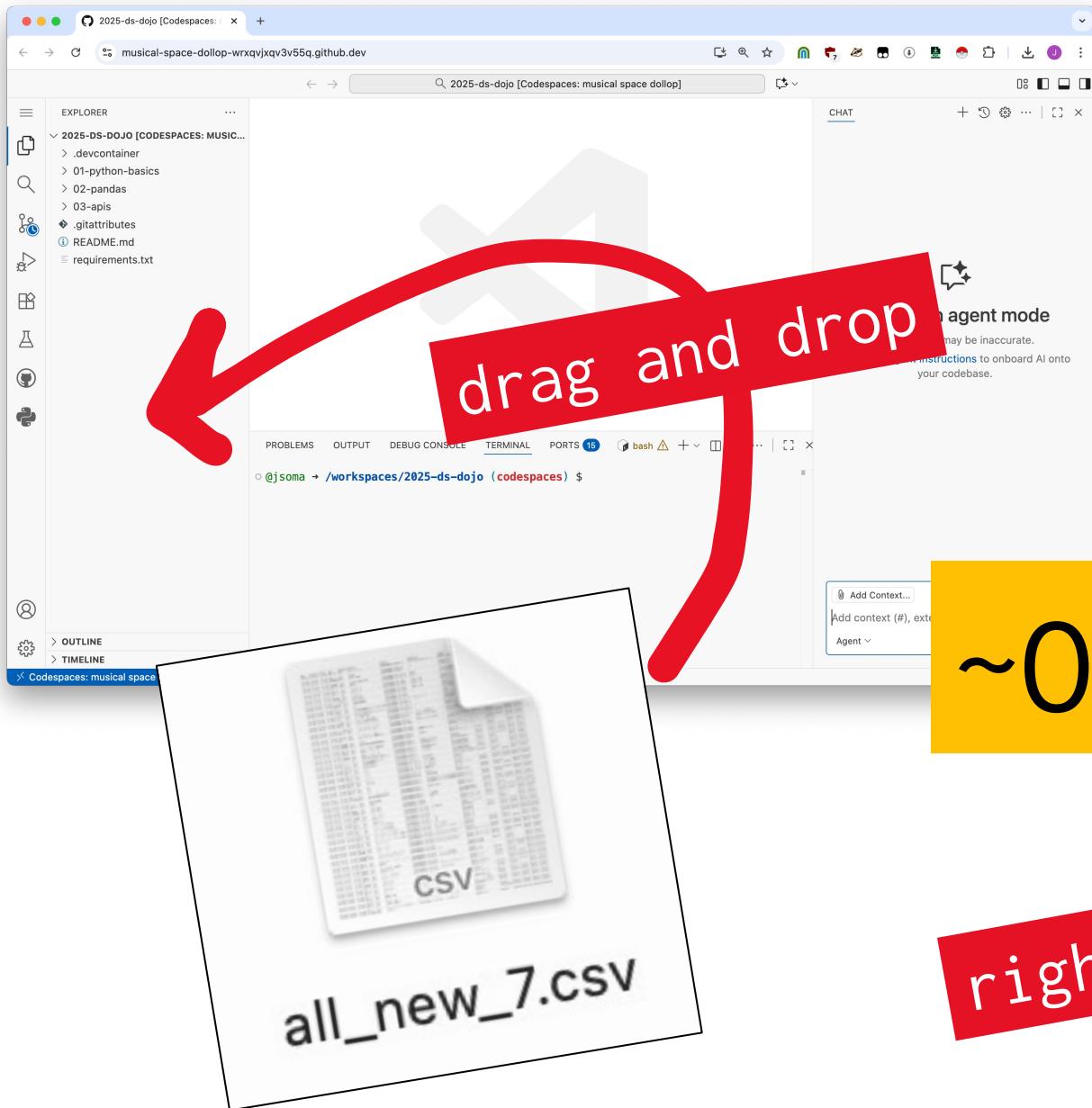
表 グラフ 地図 about 2000 records « 1 - 100 » フィルター

Search data ... Go »

0 ダウンロード 利活用方法登録申請 コメント データAPI

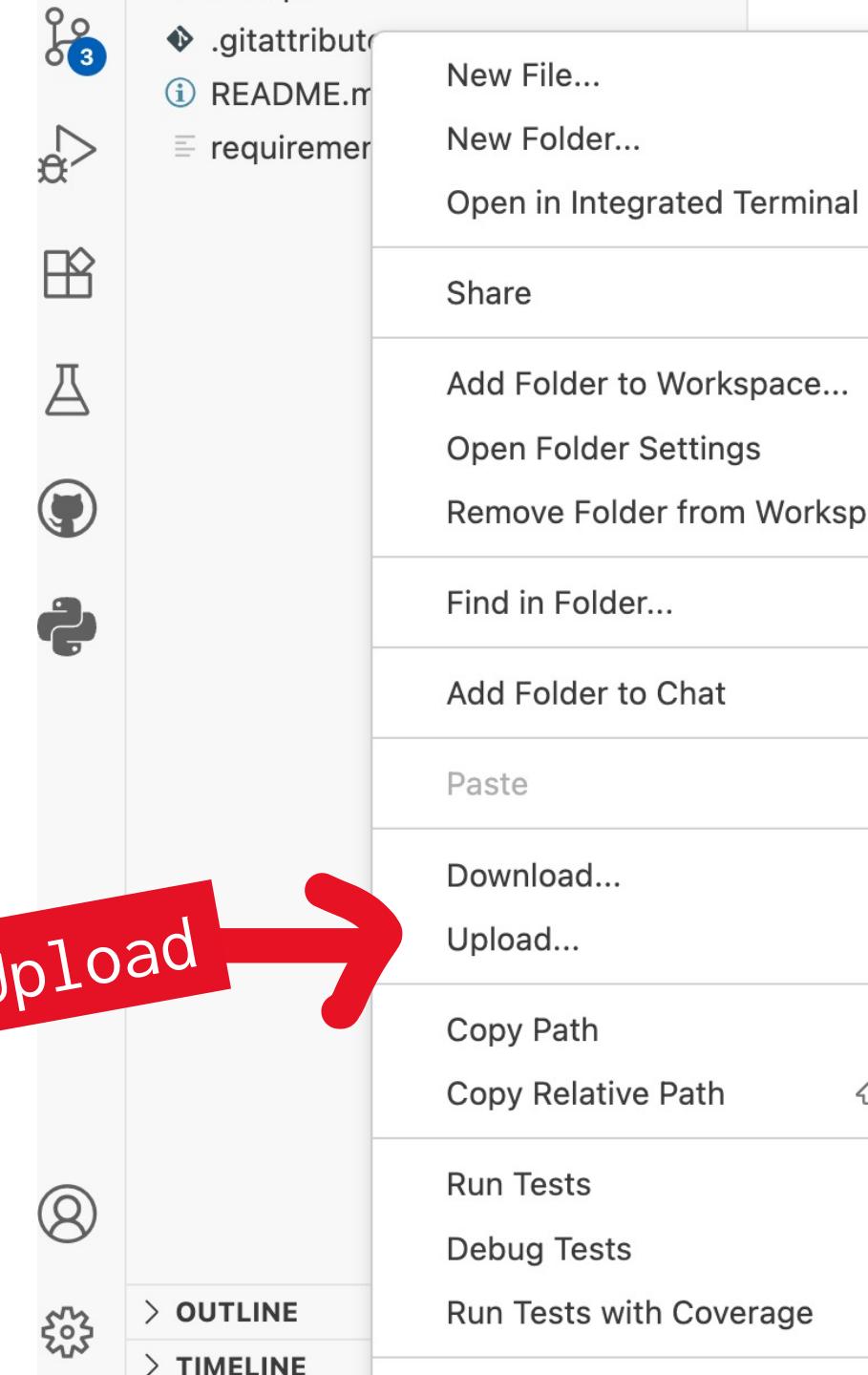
CSV TSV JSON XML





~OR~

right click, Upload





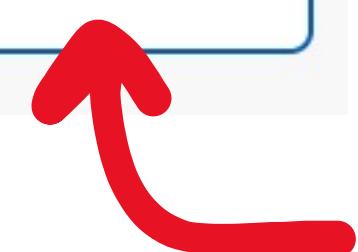
all\_new\_7.csv +

Create a new notebook that opens  
all\_new\_7.csv and looks at the first five rows



Agent ▾

GPT-5 mini ▾



# *Doing research with AI*

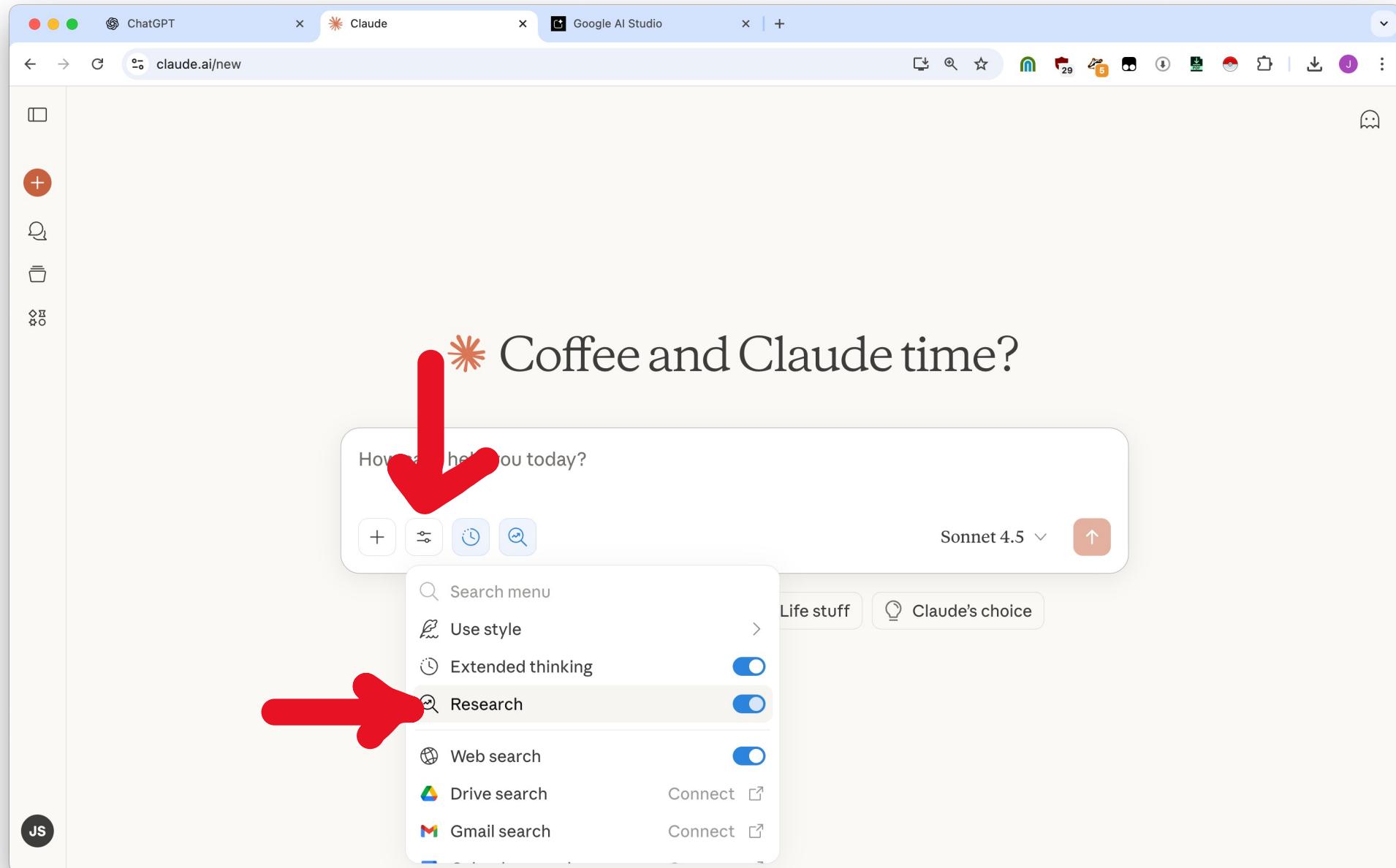
Where does data come from?? I don't know!  
Let's ask our friend AI,  
but with **research abilities**.

A screenshot of a web browser window showing the ChatGPT interface. The window title is "ChatGPT" and the URL is "chatgpt.com". The browser toolbar includes standard icons for back, forward, search, and download.

The main content area displays a greeting: "Good to see you, Jonathan." Below this, a context menu is open, featuring the following options:

- + Ask anything
- 0 Add photos & files
- Deep research (highlighted with a red arrow)
- Create image
- Agent mode
- Add sources
- ... More >

A small blue circular badge in the bottom-left corner contains the letters "JS".



Google Gemini

gemini.google.com/app?utm\_source=gemini&utm\_medium=referral&utm\_campaign=gemini\_deep\_research\_landing\_page&redi...

Gemini  
2.5 Pro

Hello, Jonathan

Ask Gemini

+ Tools

Deep Research

Create videos with Veo

Create images

Canvas

Guided Learning

Deep Research Create video Learn

Invite a friend PRO J

Google Gemini

Restaurant datasets for Japan

Restaurant datasets Japan

claude.ai/chat/3d97797b-02e7-4ee8-9f03-97df1ab827fd

Share

+ Restaurant datasets for Japan

JS all japan. menu items and reviews and cuisine

Strategized research approach for comprehensive Japanese restaurant datasets

Perfect! I'll dive into some research to find datasets covering restaurants across Japan. I'll search for:

# Japan Restaurant Dataset Research ## Research Objectives

446 sources and counting... • 17m 40s

Google Gemini

Restaurant datasets for Japan

Restaurant datasets Japan

chatgpt.com/c/68eedb58-30b8-8324-b9af-e70a9f2457fc

Share

ChatGPT 5

Datasets of Japanese Restaurants Including Menus and Reviews

日本の飲食店データセット (Public Restaurant Datasets in Japan)

レビューサイト由来のデータセット (Crowdsourced Review Data)

1. Tokyo Restaurant Reviews (食べログ東京) – Kaggle データセット (CSV): 日本最大のグルメサイト「食べログ」から得られた東京の飲食店情報を元にしたデータセット。数万件規模の東京都内レストランについて、店舗名、住所、電話番号、料理ジャンル、評価スコア等が記載されています。また、旅行クチコミも含まれています。CSV形式で一括ダウンロード可能です

2. Kyoto Restaurant Reviews (食べログ京都) – Kaggle データセット (CSV): 上記と同じく食べログ掲載店のデータについて、店舗基本情報や食べログ評価等が記載されています。規模はやや小さいものの、京都エリアに特化しています。

3. 全国飲食店データセット (CSV): 旅行クチコミサイトから得られた全国の飲食店情報を元にしたデータセットです。各店の名称、料理カテゴリー、料金等が記載されています。CSVファイル（約59KB）で提供されています。

Gemini

2.5 Pro

try again

I've completed your research. Feel free to ask me follow-up questions or request changes.

Japanese Restaurant Data Search

15 Oct, 08:30

The Definitive Guide to Sourcing Japanese Restaurant Data: A Comprehensive Analysis of Public, Commercial, and API-Driven Datasets

The Foundational Layer: Public & Governmental Datasets

The bedrock of any comprehensive analysis of Japan's restaurant landscape is formed by official and open-source data. While often lacking the commercial richness of proprietary platforms, these datasets provide a verifiable and extensive baseline of establishments. They constitute the essential scaffold upon which more detailed, granular data can be appended, ensuring a robust and grounded analytical framework. This foundational layer is characterized by a dichotomy between officially mandated, comprehensive-but-shallow data and community-driven, schema-rich-but-incomplete data.

The Master Registry: Ministry of Health, Labour and Welfare (MHLW) Food Establishment Data

The most authoritative source for a nationwide list of food and beverage establishments is the open data portal of Japan's Ministry of Health, Labour and Welfare (MHLW). This dataset is derived from the official food business permit and notification records submitted to local health authorities across the country, making it a comprehensive registry of legally operating entities.

Do some research!

Generating structured data  
with the power of LLMs

an example

The Washington Post logo and navigation bar are visible at the top. The main headline is prominently displayed in large, bold, black font. Below the headline is a smaller, lighter text summary. The author's name, Reed Albergotti and Al Johri, and the publication date, November 22, 2019, are listed. A sidebar on the left contains a snippet of a review with redacted text.

# Apple says its App Store is ‘a safe and trusted place.’ We found 1,500 reports of unwanted sexual behavior on six apps, some targeting minors.

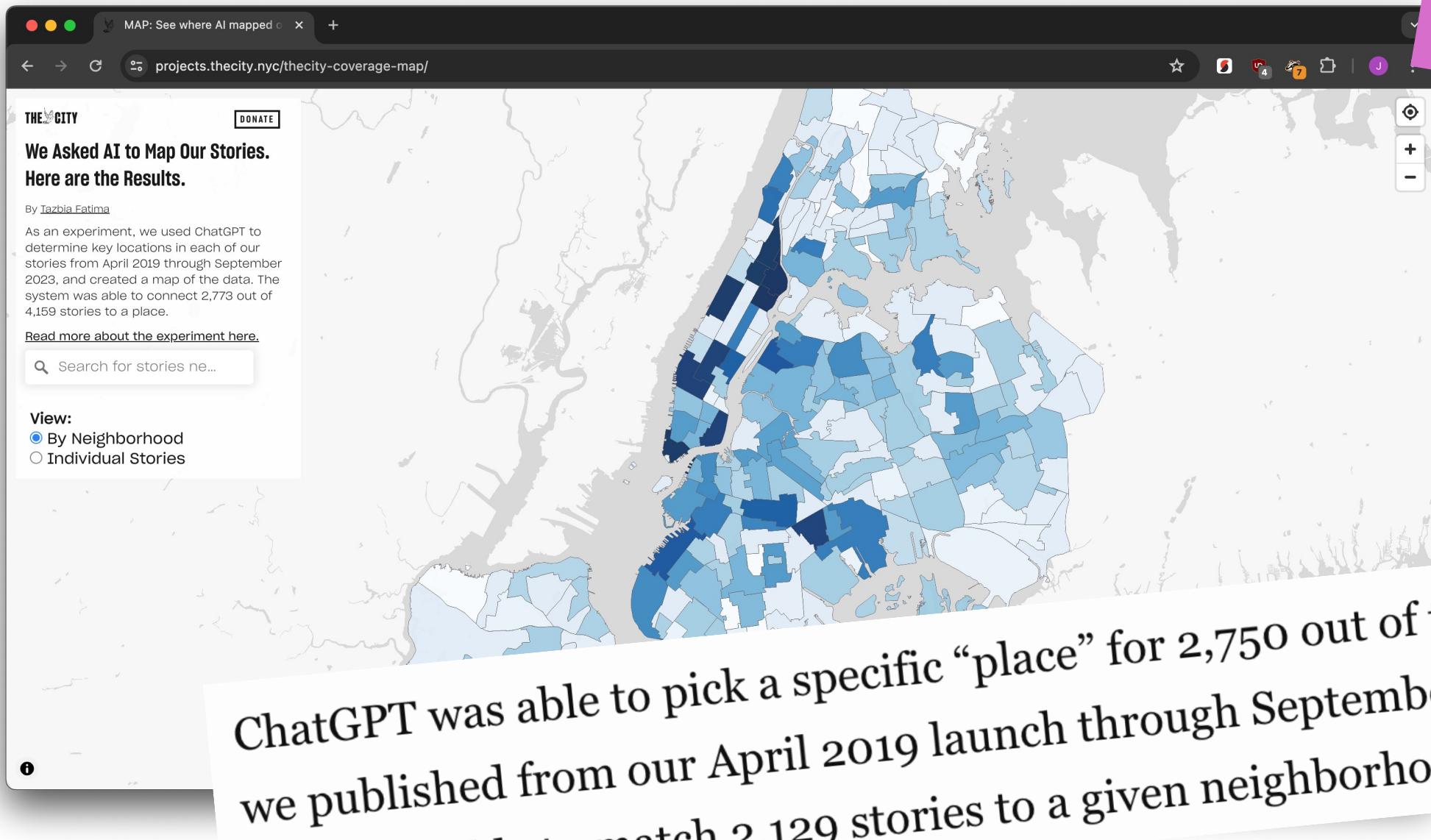
The prevalence of unwanted sexual content raises questions about whether Apple can continue to offer a protective cocoon to its customers as its platform grows

By Reed Albergotti and Al Johri  
November 22, 2019 at 7:00 a.m. EST

all this app  
hate and  
Nothing I  
had one

Using a machine learning algorithm to identify App Store reviews containing reports of unwanted sexual content, racism and bullying, The Post sifted through more than 130,000 reviews of six random chat apps, all but one of which were ranked in the top 100 for social networking by Apple earlier this month. The Post manually inspected the more than 1,500 reviews that made mention of uncomfortable sexual situations.

an example



ChatGPT was able to pick a specific “place” for 2,750 out of the 4,159 stories we published from our April 2019 launch through September 2023. We were also able to match 2,129 stories to a given neighborhood. We used the

FROM: Mulberry Peppertown  
(mulbs@example.com)

When I pick up the cans of beans they are all so light! At first I thought they were empty, but it turns out they are just futuristic beans that are not heavy like the old style beans I was used to. It is incredible.

Mulberry Peppertown

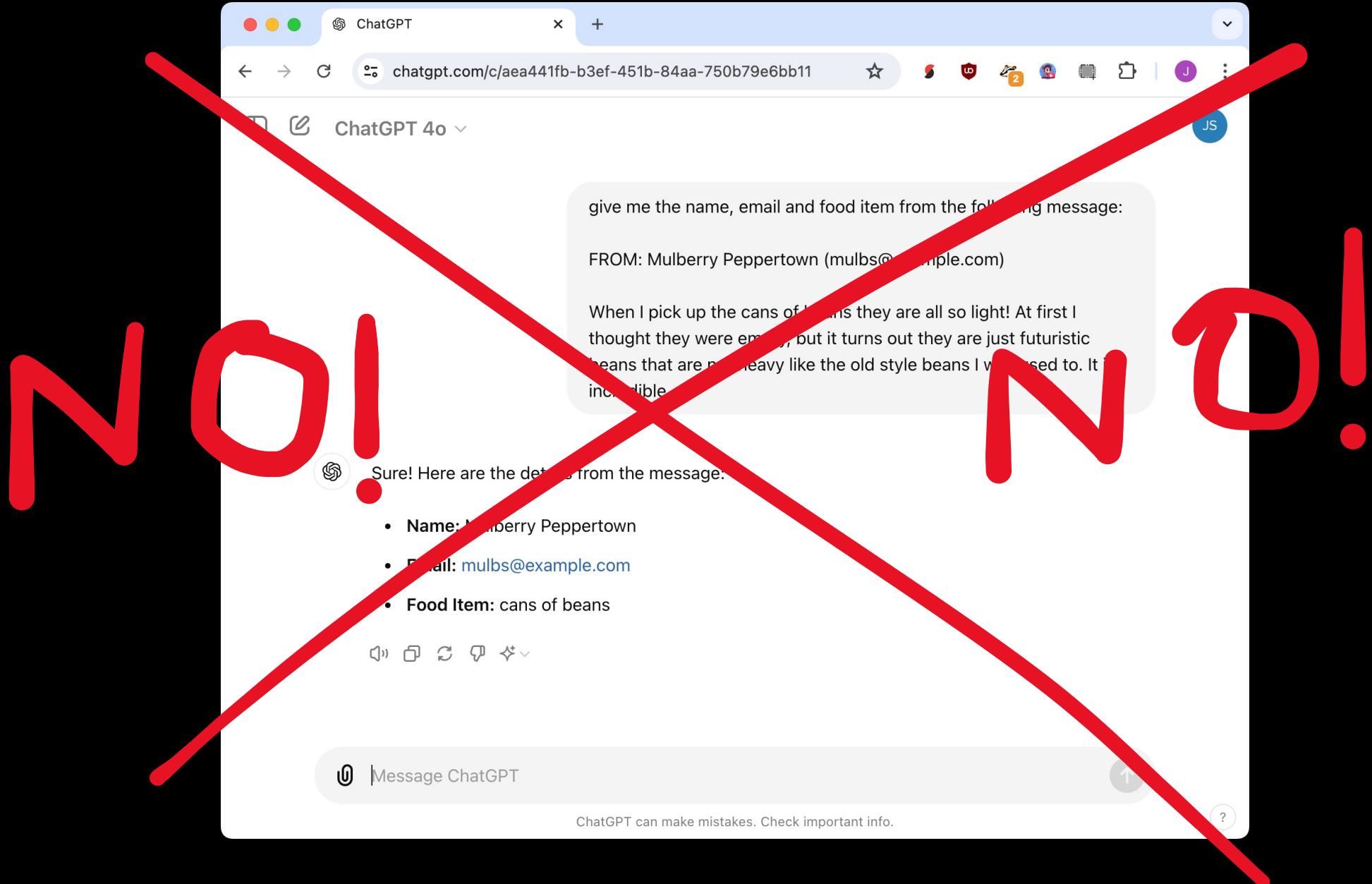
name

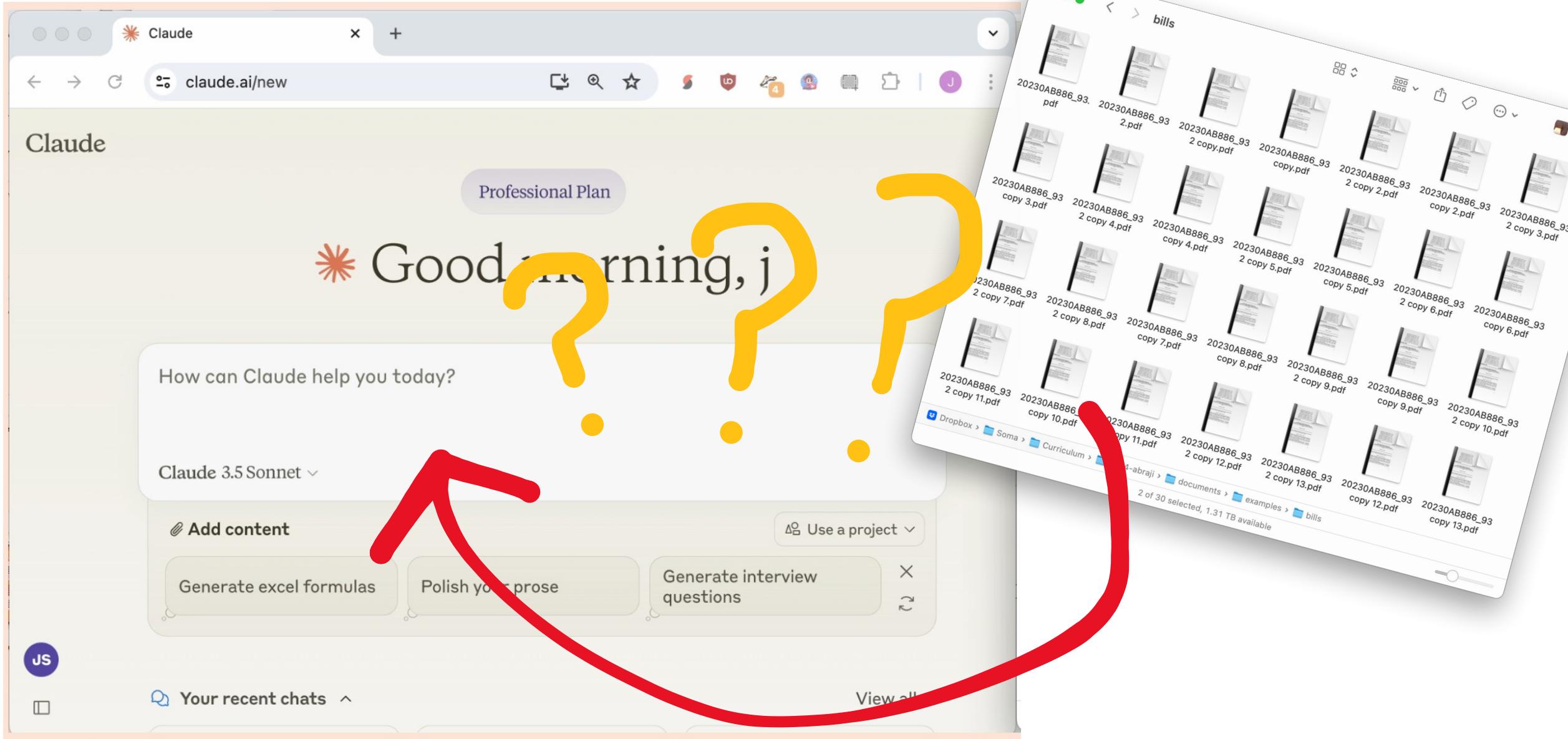
mulbs@example.com

email

beans

food item







## Claude for Sheets™

Claude for Sheets™ brings your friendly AI assistant Claude from Anthropic right there in your spreadsheets.

By: [Anthropic](#)

Listing updated: March 11, 2024

Works with:



Install

★★★★☆ 14 ⓘ ↓ 30K+



## AI in Sheets™ .Spread...

The most powerful AI tool for Google Sheets™ on the planet. Built for true scale. Safe for the enterprise. Unbeatable pricing model.

By: [Spreadsheet Daddy](#)

Listing updated: March 18, 2024

Install



## GPT for Sheets™ and ...

ChatGPT in Google Sheets™ and Docs™. Get the full power of AI for inspiration data cleaning, classification, extraction, translation, edition, summarization, writing directly in you...

By: [Talarian](#)

Listing updated: March 6, 2024

Independent security verification

Works with:

★★★★☆ 318 ⓘ ↓ 6M+

Uninstall

Claude for Sheets™ - Google workspace.google.com/marketplace/app/clause\_for\_sheets/909417792257

Google Workspace Marketplace Search apps

Home Editor's choice Intelligent apps Work from everywhere Business essentials Apps to discover Built by Google Top charts Most popular Top rated Categories Admin managed

**Claude for Sheets™**

Uninstall

Claude for Sheets™ brings your friendly AI assistant Claude from Anthropic right there in your spreadsheets.

By: [Anthropic](#) Listing updated: March 11, 2024

Works with:

★ ★ ★ ★ ★ 17 reviews 34K+ installs

**Overview** Permissions Reviews

This sheet lets you compare a set of related prompts to Claude

Step 1: type your prompts in this column

In one sentence, what is good about the color blue?  
Suppose you have a table called "Customers" with the following column names:  
*CustomerID, CustomerName, ContactName, Address, City, PostalCode, Country*  
Can you write a SQL query that finds all customers in San Francisco with a customer ID greater than 1000?

Step 2: Select your model:

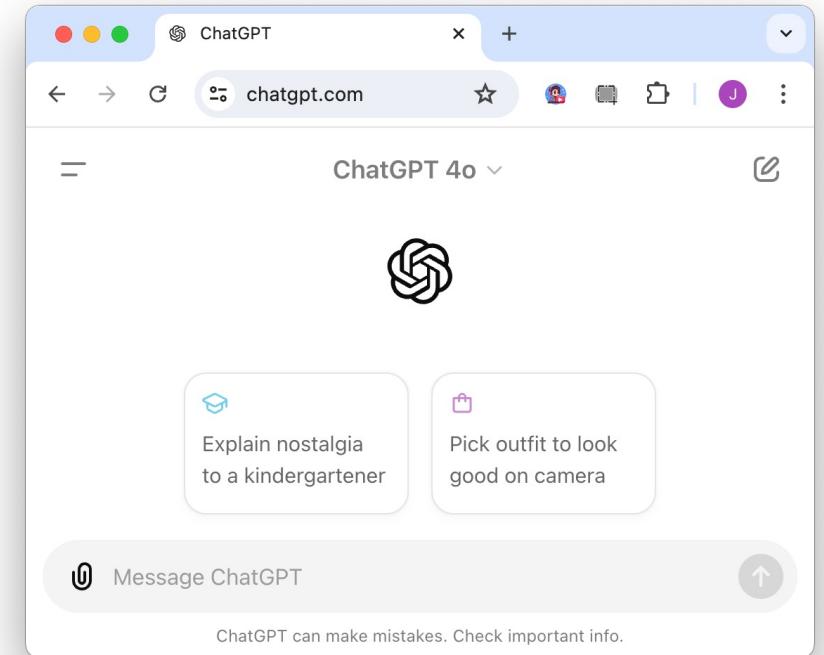
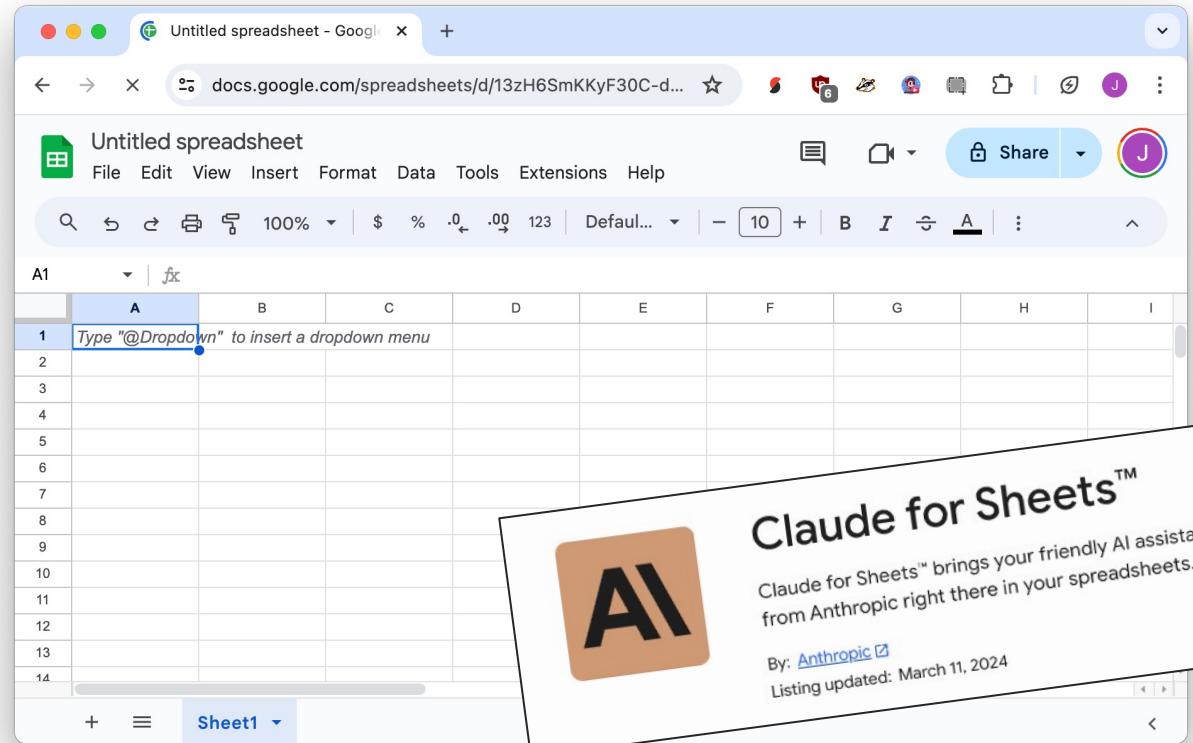
claudie-v1.3  
claudie-2

Step 3: review Claude responses in this column

Blue is a calming and soothing color.  
Here is a SQL query to find all customers in San Francisco with a customer ID 1000 from the Customers table:  
...sql  
SELECT \*  
FROM Customers  
WHERE City = 'San Francisco' AND CustomerID > 1000  
...  
This query selects all columns (\*) from the Customers table where the City co

Extensions Help  
Add-ons Macros Apps Script AppSheet Claude in Sheets

asks question



gives answer

**Key successfully added!**

You must keep a record of the key below as you will not be able to view it again.

sk-ant-api03-Wriod0W3KzsL\_-osV4lnJCMfdZ6...  
nPxe-cpCdewNwV2sRKl\_pfrkj1mQCTqoDcEo1fJX...  
cld7exevD-Q-y5y\_KAAA

API keys

Your secret API keys are listed below. Please note that we do not display your secret API keys again after you generate them. Do not share your API key with others, or expose it in the browser or other client-side code. In order to protect the security of your account, OpenAI may also automatically disable any API key that has leaked publicly. Enable tracking to see usage per API key on the [Usage page](#).

NAME	SECRET KEY	TRACKING	CREATED	LAST USED	PERMISSIONS
Secret key	sk-...MJ0b	+ Enable	Mar 6, 2023	Apr 13, 2023	All
Secret key	sk-...e67A	+ Enable	Mar 18, 2023	Apr 19, 2023	All
Secret key	sk-...1PWe	+ Enable	Mar 18, 2023	Mar 18, 2023	All
Secret key	sk-...M1LX	+ Enable	Mar 19, 2023	Mar 19, 2023	All
Secret key	sk-...2ABE	+ Enable	Mar 23, 2023	Never	All

API keys

Close

Anthropic Console

ANTHROPIC

Your Organization Members & Invites Plans & Billing API Keys Logs Usage

API Keys

NAME KEY CREATED AT UPDATED AT ...

claude for sheets sk-ant-api03-1Sk...iAAA Apr 9, 2024 ...

sample class sk-ant-api03-g0n...rgAA Apr 10, 2024 ...

Create Key

Search ↶ ↷ 🖨️ ✖ 200% \$ % .0 .00 123 Default... - 10 + B I ÷ A

A1

| fx

**A****B****1****2****3****4****5****6****7****8**

E8

fx

A

B

C

1 object

color

2 sky

3 strawberry



4 basketball

5

6

7

8

Louisiana State Legislation (Completed in Class) ★ Saved to Drive

File Edit View Insert Format Data Tools Extensions Help

150% \$ .00 123 Default... 10 B I A

G3 fx

	A	E	F	G
1	bill text	about retirement?	about employment?	
2	> HLS 24RS-94 **[ENGROSSED]{.underline}** > > 2024 Regular Session > > HOUSE BILL NO. 8 > > BY REPRESENTATIVES MELERINE AND HUGHES > > SCHOOLS/HIGH SCHOOL: Prohibits the use of an appeals pro > certain students > > HLS 24RS-88 **[REENGROSSED]{.underline}** > > 2024 Regular Session > > HOUSE BILL NO. 9 > > BY REPRESENTATIVE ILLG > > RETIREMENT/DISTRICT ATTY: Provides for survivor benefits c > the >			
3				

Louisiana State Legislation (Completed in Class) ★ Saved to Drive

File Edit View Insert Format Data Tools Extensions Help

150% \$ .00 123 Default... 10 B I A

G3 | fx

	A	E	F	G
1	<b>bill text</b>  > HLS 24RS-94 **[ENGROSSED]{.underline}** > > 2024 Regular Session	<b>about retirement?</b>	<b>about employment?</b>	

=CLAUDEEXTRACT("Is this piece of legislation about retirement? Answer YES or NO", A)

fx

	A			
3	> certain students > > HLS 24RS-88 **[REENGROSSED]{.underline}** > > 2024 Regular Session > > HOUSE BILL NO. 9 > > BY REPRESENTATIVE ILLG > > RETIREMENT/DISTRICT ATTY: Provides for survivor benefit > the >	<input type="radio"/> no	<input type="radio"/> no	<input type="radio"/> yes

I am irate about the broccoli incident, I am never shopping at your store again. Take me off of your broccoli mailing list immediately.

name

Jackary Baloneynose

jackary.baloney@example.com

email

email	email	name
FROM: Mulberry Peppertown (mulbs@example.com)  When I pick up the cans of beans they are all so light! At first I thought they were empty, but it turns out they are just futuristic beans that are not heavy like the old style beans I was used to. It is incredible.		=CLAUDEEXTRACT(...)
I am irate about the broccoli incident, I am never shopping at your store again. Take me off of your broccoli mailing list immediately.	mulbs@example.com	Mulberry Peppertown
Jackary Baloneynose jackary.baloney@example.com	jackary.baloney@example.com	Jackary Baloneynose
Your flour is ground too finely. I do not go here to buy 00 flower I want big, fat grainy level-2 flour. I want it so coarse that it can be mistaken for grains of sand scattered over my countertop. You can find me at bfids@example.com my name is Boxcar Fiddleworth and I would like to know when you get the good correct stuff.	bfids@example.com	Boxcar Fiddleworth
Cleo here, reporting live: I am not sure whether to go with cinnamon or sugar. I love sugar, I hate cinnamon. cleo@example.com .	cleo@example.com	Cleo

“email”

“name”

Elections européennes : Emm... +

lemonde.fr/elections-europeennes/article/2024/04/17/elections-europeenne... 🔍 🌐 ⚡ 🎧 📁 🎯 🎯 🎯 🎯 🎯 🎯

Le Monde | Elections européennes 2024 | Résultats des européennes | Carte des résultats | Les 81 députés français | S'abonner

ÉLECTIONS EUROPÉENNES • EMMANUEL MACRON

# Elections européennes : Emmanuel Macron dénonce « l'hypocrisie » du Rassemblement national

Le chef de l'Etat a déploré, mercredi depuis Bruxelles, que les « peurs profitent aux réponses les plus simplistes » dans la campagne pour le scrutin du 9 juin, fustigeant ceux qui dénoncent l'Union européenne tout en engrangeant les « dividendes silencieux ».

Le Monde avec AFP  
Publié le 17 avril 2024 à 20h55, modifié le 18 avril 2024 à 03h01 • ⏱ Lecture 2 min.

Ajouter à vos sélections



**Les plus lus**

- En direct, la situation politique en France : Elisabeth Borne siégera au sein du groupe Renaissance, son président n'est toujours pas élu
- L'avertissement de Gérard Larcher à Emmanuel Macron : « On ne joue pas avec la France »

Interrogé en marge de son déplacement à Bruxelles sur la campagne des élections européennes, Emmanuel Macron a ciblé, sans le nommer, le Rassemblement national (RN) dont la liste conduite par Jordan Bardella caracole en tête des sondages.

« Je pense qu'il y a beaucoup de peurs, d'inquiétudes dans le moment que nous vivons et que ces colères profitent toujours aux réponses les plus simplistes », a déclaré le chef de l'Etat français lors de son arrivée, mercredi 17 avril, dans la capitale belge avant la tenue d'un sommet européen, au cours d'un bref échange avec la presse aux côtés de la tête de liste de son camp aux européennes, Valérie Heyer. « Il y a aujourd'hui une espèce d'hypocrisie du débat et j'espère qu'en rentrant dans les prochaines semaines dans celui-ci, cette hypocrisie sera levée », a ajouté M. Macron, visant en creux le RN.

Il s'agissait de la première apparition publique du chef de l'Etat et de M<sup>me</sup> Hayer depuis le début de la campagne, avant qu'ils n'assistent ensemble à une réunion du groupe Renew Europe.

**Lire aussi |** [Elections européennes 2024 : le calendrier du scrutin](#)

La candidate du camp présidentiel peine pour l'instant à imprimer sa marque dans la campagne. « On s'organise, on a la bonne candidate (...) On a surtout les bonnes idées, celles qui se sont mises en place en Europe ces dernières années », a lancé M. Macron, interpellé par un journaliste.

- =CLAUDEEXTRACT("people mentioned in the article, with titles if available. One per line.", B5)
- =CLAUDEEXTRACT("brief one-sentence summary", B5)
- =CLAUDEEXTRACT("English translation", E5)
- =CLAUDEEXTRACT("article category, one of politics, sports, international, other", B5)

B	C	E	F	G	H	I
content	sources	summary	language code	is it English?	English translation	article category
Ante inversores en Washington, Caputo defendió la estrategia fiscal y reafirmó el compromiso para levantar el cepo	Luis Caputo, Ministro de Economía Pablo Quirno, Secretario de Finanzas Javier Milei, gobierno Mauricio Macri, gobierno Nicolás Posse, Jefe de Gabinete Alberto Fernández, gobierno Pierre-Olivier Gourinchas, Economista Jefe del FMI	The economy minister defended the government's fiscal adjustment strategy and reiterated the intention to lift currency controls, but said they cannot do so with the current level of reserves	en	yes	The economy minister defended the government's fiscal adjustment strategy and reiterated the intention to lift currency controls, but said they cannot do so with the current level of reserves unless they receive a fresh injection of money.	international
El jefe del Palacio de Hacienda participó de un seminario organizado por el banco J.P. Morgan						
WASHINGTON.- El ministro de Economía, Luis Caputo, llegó al seminario del banco de inversión J.P. Morgan en el Park Hyatt hotel poco después de las tres de la tarde, <small>luego de una reunión de trabajo en Washington</small>						

<https://bit.ly/clause-sheets>

Elections européennes : Emmanuel Macron dénonce l'hypocrisie	Raphael Glucksmann, Head of list for Socialist Party (Parti Socialiste) and Place Publique Gabriel Attal, Prime Minister of France	Le chef de l'opposition socialiste dénonce que les « peurs dans la campagne électorale sont engrangeant les « dividendes silencieux ».	fr	no	Emmanuel Macron lamented that "fears profit from the simplest answers", Wednesday April 17.	politics
岸田首相、韓国・尹大統領に日米首脳会談の成果説明　日韓連携も確認	Fumio Kishida, Prime Minister; Yoon Suk-yeol, President of South Korea	岸田文雄首相は17日、韓国の尹錫悦（ユンソンニョル）大統領と電話で協議した。首相によると、10日にワシントンで行われた日米首脳会談での合意事項などについて説明したという。	ja	no	Prime Minister Kishida held talks by phone with South Korean President Yoon on the 17th, explaining the results of the Japan-U.S. summit and confirming cooperation between Japan and South Korea.	other

now let's do a  
little more pandas

it will be... fun?

Visit <https://bit.ly/ds-dojo-2025> for materials

# Structured data

Pandas, CSVs, Excel and APIs

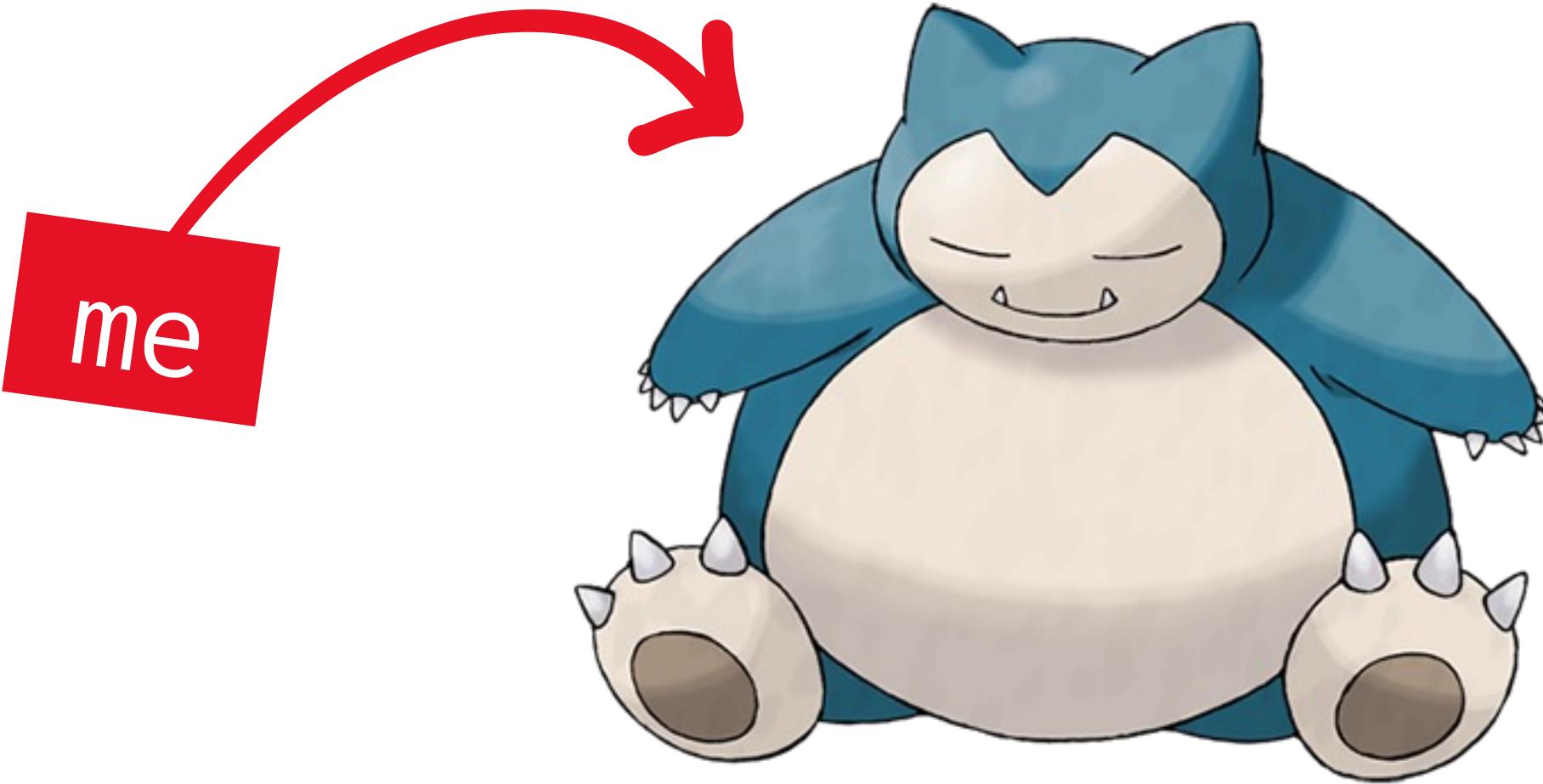
Visit <https://bit.ly/ds-dojo-2025> for materials

# APIs

structured data from the  
internet

Does anyone have a  
favorite pokemon?

This is an important question



me

Google Search x +

google.com/search?q=snorlax&oq=snorlax&gs\_lcrp=EgZjaHJvbWUyDwgAEEUYORIRAhBABiKBTIMCAEQABhDGIAEGloFMg0IAhAAGJECGIAEGloFMgwIAxAA... ⋮

snorlax X Microphone Image Search

Google J

All Images Shopping Videos News Maps Web More Tools

Bulbapedia [https://bulbapedia.bulbagarden.net/wiki/Snorlax\\_\(Pok%C3%A9mon\)](https://bulbapedia.bulbagarden.net/wiki/Snorlax_(Pok%C3%A9mon)) ⋮

### Snorlax (Pokémon) - Bulbapedia

Snorlax is a huge, bipedal, dark blue-green mammalian Pokémon with a cream-colored face, belly, and feet.

Ash's Snorlax III Menu Pokémon Sleep

People also ask :

What is Snorlax in Japanese? ⌄

Why is Snorlax sleepy? ⌄

What type of animal is a Snorlax? ⌄

What is Snorlax power? ⌄

Feedback

Pokemon.com <https://www.pokemon.com/pokedex/snorlax> ⋮

### Snorlax | Pokédex

This gluttonous Pokémon eats constantly, apart from when it's asleep. It devours nearly 900 pounds of food per day.

**Snorlax :**



More images

Snorlax, known in Japan as Kabigon, is a Pokémon species in Nintendo and Game Freak's Pokémon franchise.

[Wikipedia](#)

**Type:** Normal

**Weakness:** Fighting

**Ability (hidden):** Gluttony

**Abilities:** Thick Fat, Immunity

**Evolves from:** Munchlax

**Category:** Sleeping

**Weight:** 460 kg

People also search for

Snorlax (Pokémon) - Bulbape... +

bulbapedia.bulbagarden.net/wiki/Snorlax\_(Pokémon)

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article discussion view source history tools in other languages

In commemoration of Nintendo's 135<sup>th</sup> anniversary, September 20 to 30 is NIWA Cross-Wiki Week. [Click here](#) for event details and the possibility to win a \$20/€20 Nintendo eShop gift card.  
Please remember to follow the [manual of style](#) and [code of conduct](#) at all times.  
Check the [Bulbagarden home page](#) for up-to-date Pokémon news and discuss it on the [forums](#) or in the [Bulbagarden Discord server](#).

## Snorlax (Pokémon)

For Pokémon GO information on this species, see [the game's section](#).

←  #0142: Aerodactyl Pokémon #0144: Articuno →

This article is about the species. For a specific instance of this species, see [Snorlax \(disambiguation\)](#).

**Snorlax** (Japanese: カビゴン *Kabigon*) is a Normal-type Pokémon introduced in [Generation I](#). It evolves from [Munchlax](#) when leveled up with high friendship. Snorlax can [Gigantamax](#) into [Gigantamax Snorlax](#) if it has the [Gigantamax Factor](#). In Generations I and II games, their remakes, and [Pokémon X and Y](#), wild Snorlax can be found sleeping in inconvenient locations. In order to catch one, a Trainer must first awaken it with music from either a [Poké Flute](#) or the [Pokégear](#) set to the Poké Flute channel. Snorlax is the game mascot of [Pokémon Sleep](#).

**Contents [hide]**

- 1 Biology
  - 1.1 Forms
  - 1.2 Evolution
- 2 Game data
  - 2.1 NPC appearances
  - 2.2 Pokédex entries
  - 2.3 Game locations
    - 2.3.1 In side games
    - 2.3.2 In events
      - 2.3.2.1 Wild Area News
  - 2.4 Held items
  - 2.5 Stats
    - 2.5.1 Base stats
    - 2.5.2 Pokéathlon stats
  - 2.6 Type effectiveness
  - 2.7 Learnset

**Snorlax** #0143  
Sleeping Pokémon Kabigon



Snorlax

**Gigantamax Snorlax**

Images on the Bulbagarden Archives

Snorlax (Pokémon) - Bulbape... X +

bulbapedia.bulbagarden.net/wiki/Snorlax\_(Pokémon)

2.5.1 Base Stats  
2.5.2 Pokéathlon stats  
2.6 Type effectiveness  
2.7 Learnset  
2.7.1 By leveling up  
2.7.2 By TM  
2.7.3 By breeding  
2.7.4 By a prior Evolution  
2.8 Side game data  
2.9 Form data  
2.9.1 Gigantamax  
2.10 Evolution data  
2.11 Sprites

3 In animation  
3.1 Main series  
3.1.1 Major appearances  
3.1.1.1 Ash's Snorlax  
3.1.1.2 Other  
3.1.2 Minor appearances  
3.1.3 Pokédex entries  
3.2 Pokémon Origins  
3.3 Pokémon Masters Animated Trailer  
3.4 GOTCHA!  
3.5 Pokémon Evolutions  
3.6 The Adventures of Snorlax & Cubone

4 In the manga  
4.1 Ash & Pikachu  
4.2 The Electric Tale of Pikachu  
4.3 Pokémon Adventures  
4.4 Pokémon Battle Frontier  
4.5 Pokémon: Yeah! I Got Pokémon!  
4.6 Pokémon Mystery Dungeon: Ginji's Rescue Team  
4.7 Pokémon Journeys  
4.8 Pokémon Pocket Monsters  
4.9 Pokémon Ruby-Sapphire  
4.10 Snorlax's Dream Gourmet

Gigantamax Snorlax

Images on the Bulbagarden Archives

Type	Normal						
Abilities	Gluttony Hidden Ability Immunity or Thick Fat						
Gender ratio	87.5% male, 12.5% female						
Catch rate	25 (7.7%)						
Breeding	Egg Group: Monster Hatch time: 40 cycles						
Height	6'11" (Snorlax) 114'10"+ (Gigantamax Snorlax)						
Weight	2.1 m (Snorlax) 35.0+ m (Gigantamax Snorlax) 1014.1 lbs. (Snorlax) ??? lbs. (Gigantamax Snorlax) 460.0 kg (Snorlax) ??? kg (Gigantamax Snorlax)						
Base experience yield	154 (Gen. I-IV) 189 (V+)						
Leveling rate	Slow						
EV yield	Total: 2 <table border="1"><tbody><tr><td>2 (HP)</td><td>0 (Atk)</td><td>0 (Def)</td><td>0 (Sp.Atk)</td><td>0 (Sp.Def)</td><td>0 (Speed)</td></tr></tbody></table>	2 (HP)	0 (Atk)	0 (Def)	0 (Sp.Atk)	0 (Sp.Def)	0 (Speed)
2 (HP)	0 (Atk)	0 (Def)	0 (Sp.Atk)	0 (Sp.Def)	0 (Speed)		
Shape							
Footprint							
Pokédex color	Black						
Base friendship	70						

# Structured vs unstructured data

- Easy for **computers** to understand and process
- CSV files + XML, JSON, Excel, etc etc etc
- Easy for **humans** to understand and process
- Websites, books, articles, etc etc etc

# APIs

## Application Programming Interface

A screenshot of a web browser displaying the PokeAPI homepage. The page features a large pink header bar with the word "APIS" in white. Below this is a red navigation bar with links for "Home", "About", "API v2", and "GraphQL v1beta". The main content area has a dark background with the "PokeéAPI" logo in yellow and blue. It also contains the text "The RESTful Pokémon API" and "Serving over 2.5 billion API calls each month!". A red arrow points from a red banner on the left that says "Structured data" towards the "PokeéAPI" logo. To the right of the logo is a yellow banner with the URL "https://pokeapi.co". At the bottom, there's a search bar with the URL "https://pokeapi.co/api/v2/pokemon/ditto", a magnifying glass icon, and a blue "Submit" button.

# APIS

PokeéAPI

The RESTful Pokémon API

Serving over 2.5 billion API calls each month!

Structured data

All the Pokémon data you'll ever need in one place,  
easily accessible through a modern free open-source RESTful API.

Check out the docs!

Try it now!

https://pokeapi.co/api/v2/pokemon/ditto

Submit

earthquake.usgs.gov/fdsnws/ x +

earthquake.usgs.gov/fdsnws/event/1/query?format=geojson&starttime=2014-01-01&endtime=2014-01-02

Pretty-print

```
{  
  "type": "FeatureCollection",  
  "metadata": {  
    "generated": 1727127591000,  
    "url": "https://earthquake.usgs.gov/fdsnws/event/1/query?format=geojson&starttime=2014-01-01&endtime=2014-01-02",  
    "title": "USGS Earthquakes",  
    "status": 200,  
    "api": "1.14.1",  
    "count": 325  
  },  
  "features": [  
    {  
      "type": "Feature",  
      "properties": {  
        "mag": 1.29,  
        "place": "10km SSW of Idyllwild, CA",  
        "time": 1388620296020,  
        "updated": 1457728844428,  
        "tz": null,  
        "url": "https://earthquake.usgs.gov/earthquakes/eventpage/ci11408890",  
        "detail": "https://earthquake.usgs.gov/fdsnws/event/1/query?eventid=ci11408890&format=geojson",  
        "felt": null,  
        "cdi": null,  
        "mmi": null,  
        "alert": null,  
        "status": "reviewed",  
        "tsunami": 0,  
        "sig": 26,  
        "net": "ci",  
        "code": "11408890",  
        "ids": ",ci11408890,",  
        "sources": ",ci,",  
        "types": ",cap,focal-mechanism,nearby-cities,origin,phase-data,scitech-link,",  
        "nst": 39,  
        "dmin": 0.06729,  
        "rms": 0.09,  
        "gap": 51,  
        "magType": "ml",  
        "type": "earthquake",  
        "title": "M 1.3 - 10km SSW of Idyllwild, CA"  
      },  
      "geometry": {  
        "type": "Point",  
        "coordinates": [-116.7776667, 33.6633333, 11.008]  
      },  
      "id": "ci11408890"  
    },  
    {  
      "type": "Feature",  
      "properties": {  
        "mag": 1.1,  
        "place": "Central Alaska",  
        "time": 1388620046501,  
        "updated": 1689800179099,  
        "tz": null,  
        "url": "https://earthquake.usgs.gov/earthquakes/eventpage/ak01421ig3u",  
        "detail": "https://earthquake.usgs.gov/fdsnws/event/1/query?eventid=ak01421ig3u&format=geojson"  
      }  
    }  
  ]  
}
```

API Documentation - Earthquake Catalog

earthquake.usgs.gov/fdsnws/event/1/



Earthquake Hazards Program

← Feeds and Notifications

Real-time Notifications

Earthquake Notification Service

Tweet Earthquake Dispatch

Real-time Feeds

ATOM

KML

Spreadsheet

QuakeML

GeoJSON Summary

GeoJSON Detail

For Developers

API Documentation - EQ Catalog

Change Log

Feed Lifecycle Policy

Developer's Corner

# API Documentation - Earthquake Catalog

This is an implementation of the [FDSN Event Web Service Specification](#), and allows custom searches for earthquake information using a variety of parameters.

**i** Please note that automated applications should use [Real-time GeoJSON Feeds](#) for displaying earthquake information whenever possible, as they will have the best performance and availability for that type of information.

**URL**

<https://earthquake.usgs.gov/fdsnws/event/1/>

request known enumerated parameter values for the interface.

- <https://earthquake.usgs.gov/fdsnws/event/1/application.json>

**application.wadl**

request WADL for the interface.

- <https://earthquake.usgs.gov/fdsnws/event/1/application.wadl>

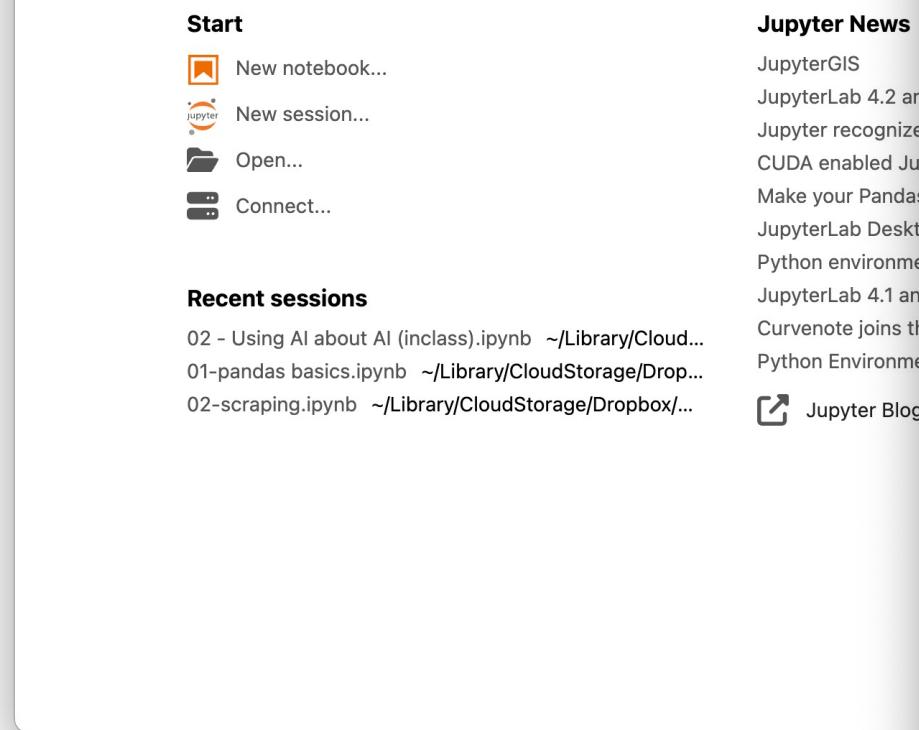
**catalogs**

request available catalogs.

- <https://earthquake.usgs.gov/fdsnws/event/1/catalogs>

**contributors**

# jupyterlab



# Open JupyterLab

The screenshot shows a JupyterLab notebook titled "Untitled2.ipynb". The code in the notebook uses the Playwright library to scrape data from a table. It starts by importing `async\_playwright` and creating a browser instance. Then it waits for the table to become visible and queries all rows. For each row, it extracts the first three cells and creates a dictionary with keys "License Name", "Expiration Date", and "License Holder". Finally, it creates a DataFrame from the data and prints its head.

```
[ ]: from playwright.async_api import async_playwright

# Start Playwright
playwright = await async_playwright().start()
browser = await playwright.chromium.launch(headless=True)
page = await browser.new_page()

# Wait for the results to be visible after form submission
await page.wait_for_selector("table")

# Scrape table rows
rows = await page.query_selector_all("table tr")

data = []
for row in rows:
    cells = await row.query_selector_all("td")
    if len(cells) > 0:
        license_name = await cells[0].inner_text()
        expiration_date = await cells[1].inner_text()
        license_holder = await cells[2].inner_text()

        data.append({
            "License Name": license_name,
            "Expiration Date": expiration_date,
            "License Holder": license_holder
        })

df = pd.DataFrame(data)
df.head()
```

Open 01-Earthquakes.ipynb

Visit <https://bit.ly/ds-dojo-2025> for materials

# APIs

structured data from the  
internet