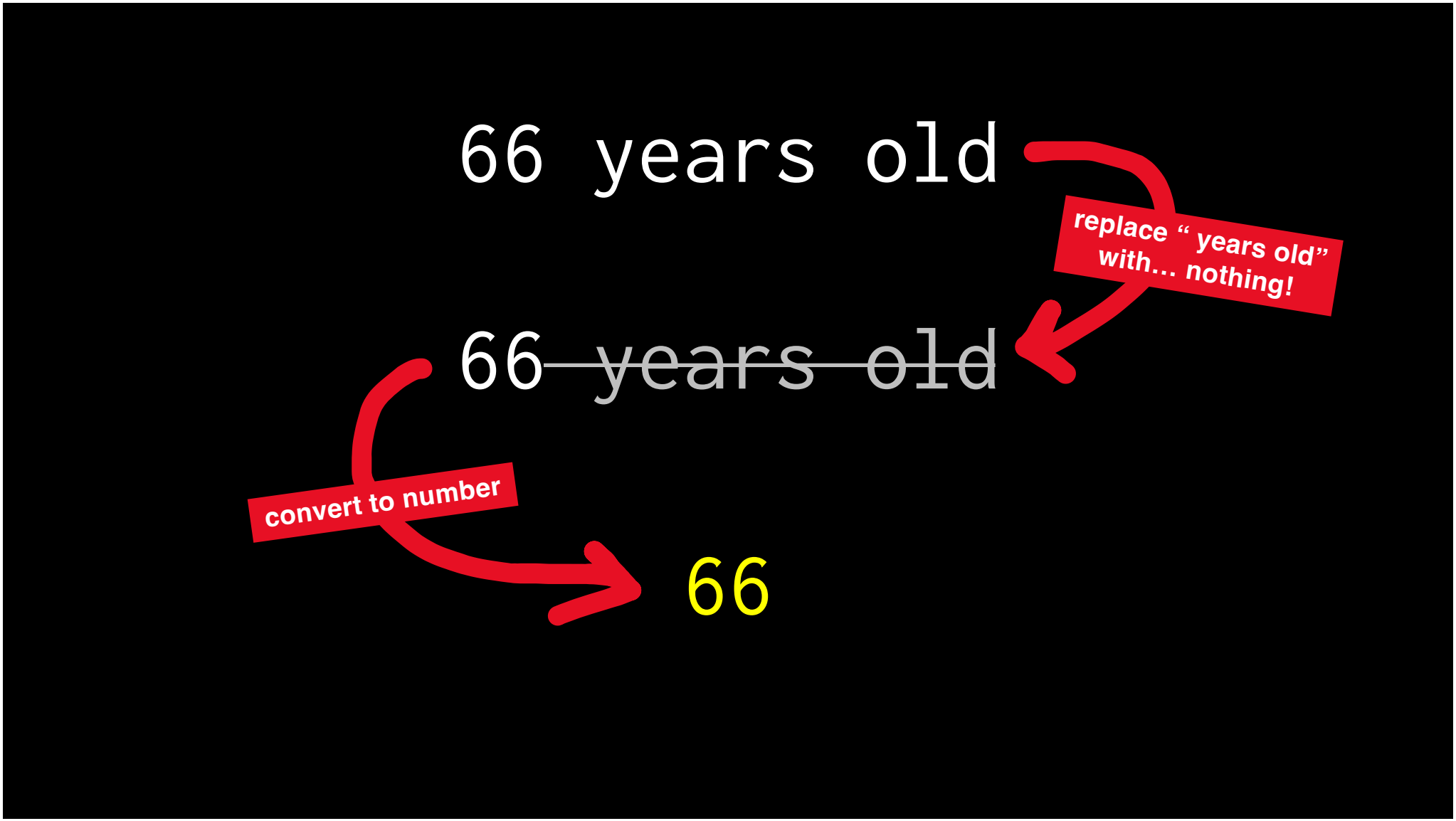
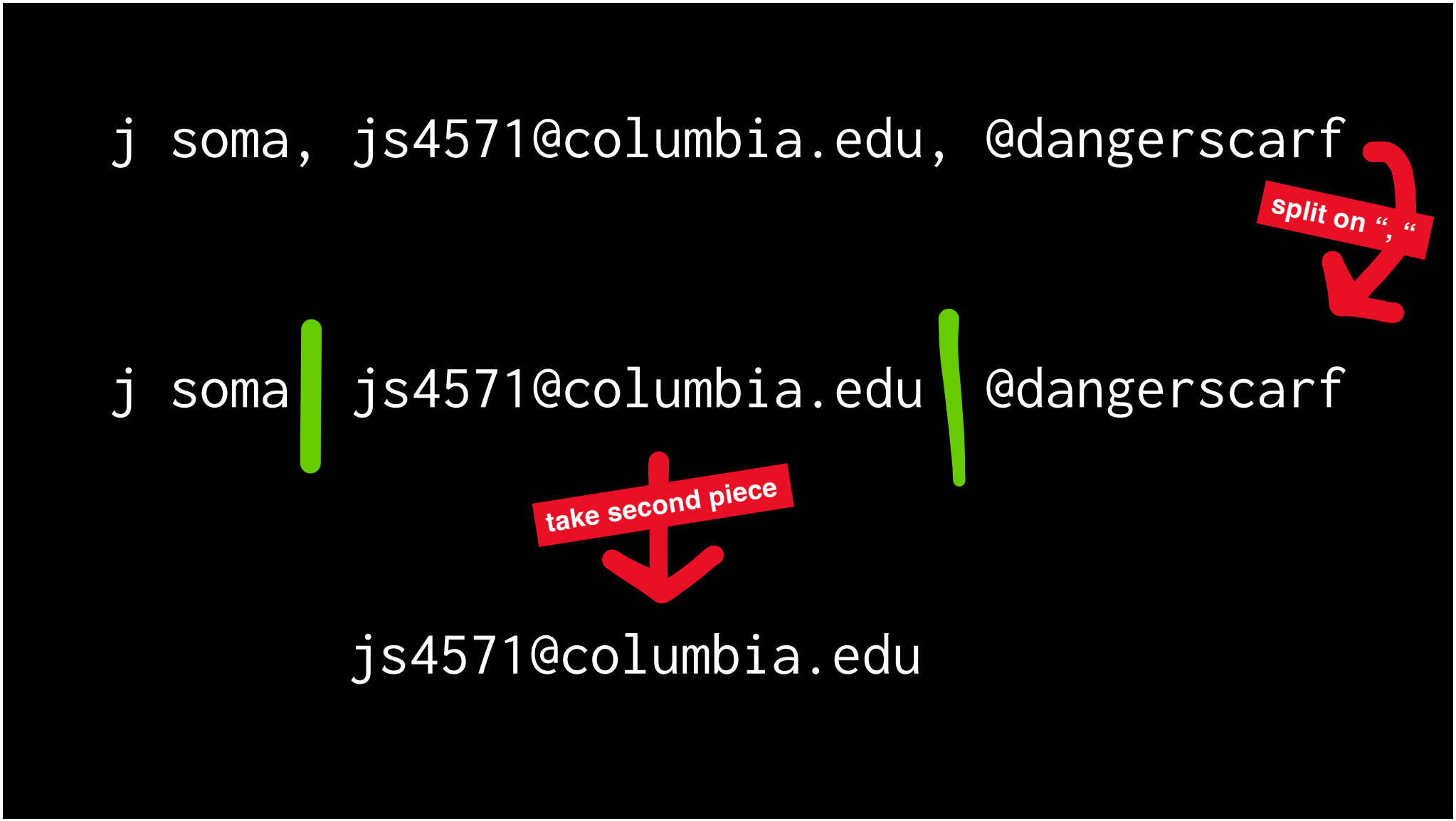
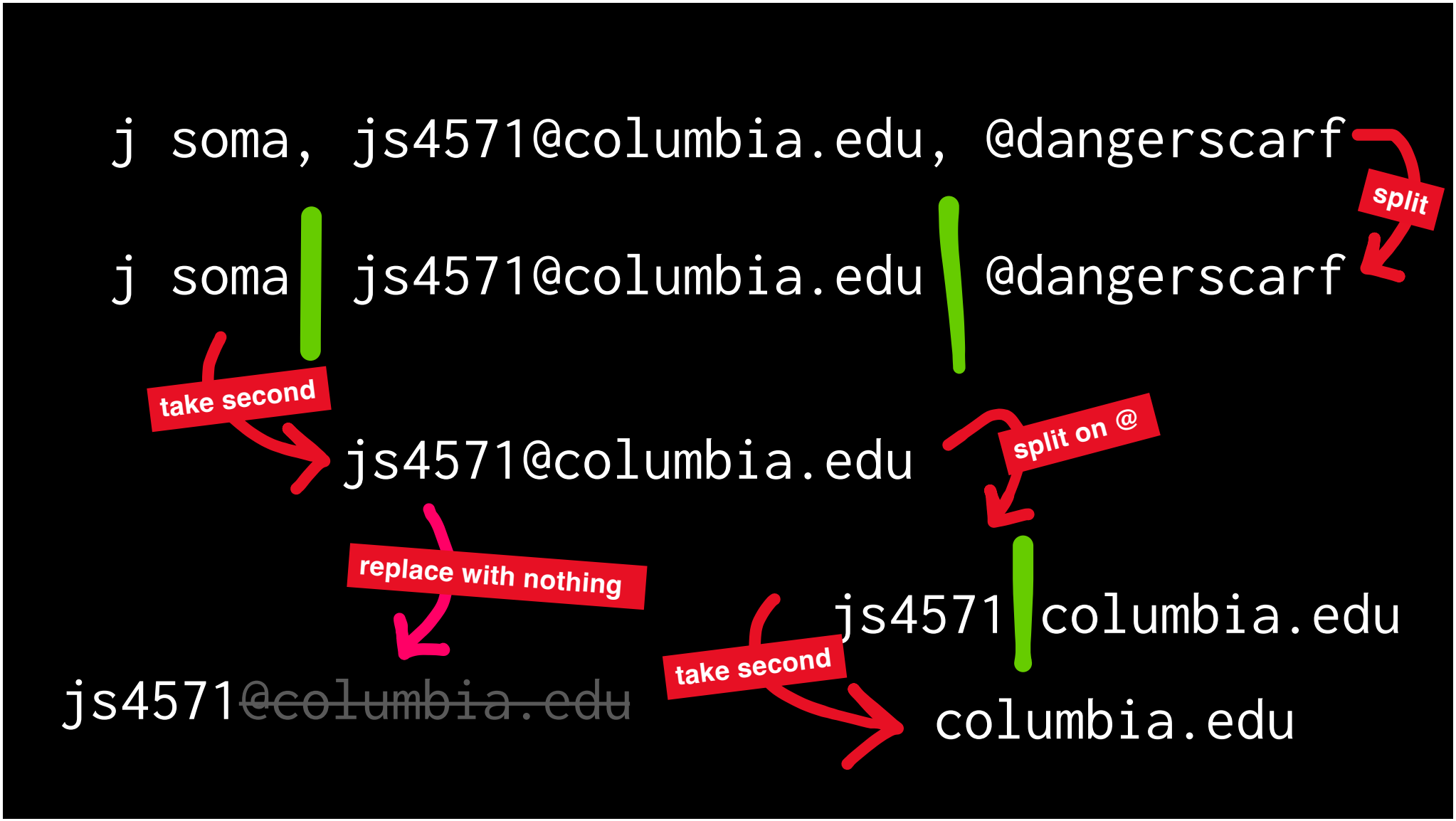

Visit bit.ly/ire24-cleaning

Basic concepts

replace and split are 99% of the game


66 years old
replace " years old" with... nothing!
66 years old
convert to number
66


j soma, js4571@columbia.edu, @dangerscarf
split on ", "
j soma | js4571@columbia.edu | @dangerscarf
take second piece
js4571@columbia.edu


j soma, js4571@columbia.edu, @dangerscarf
split
j soma
js4571@columbia.edu
@dangerscarf
take second
js4571@columbia.edu
split on @
replace with nothing
js4571
columbia.edu
take second
js4571@columbia.edu
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

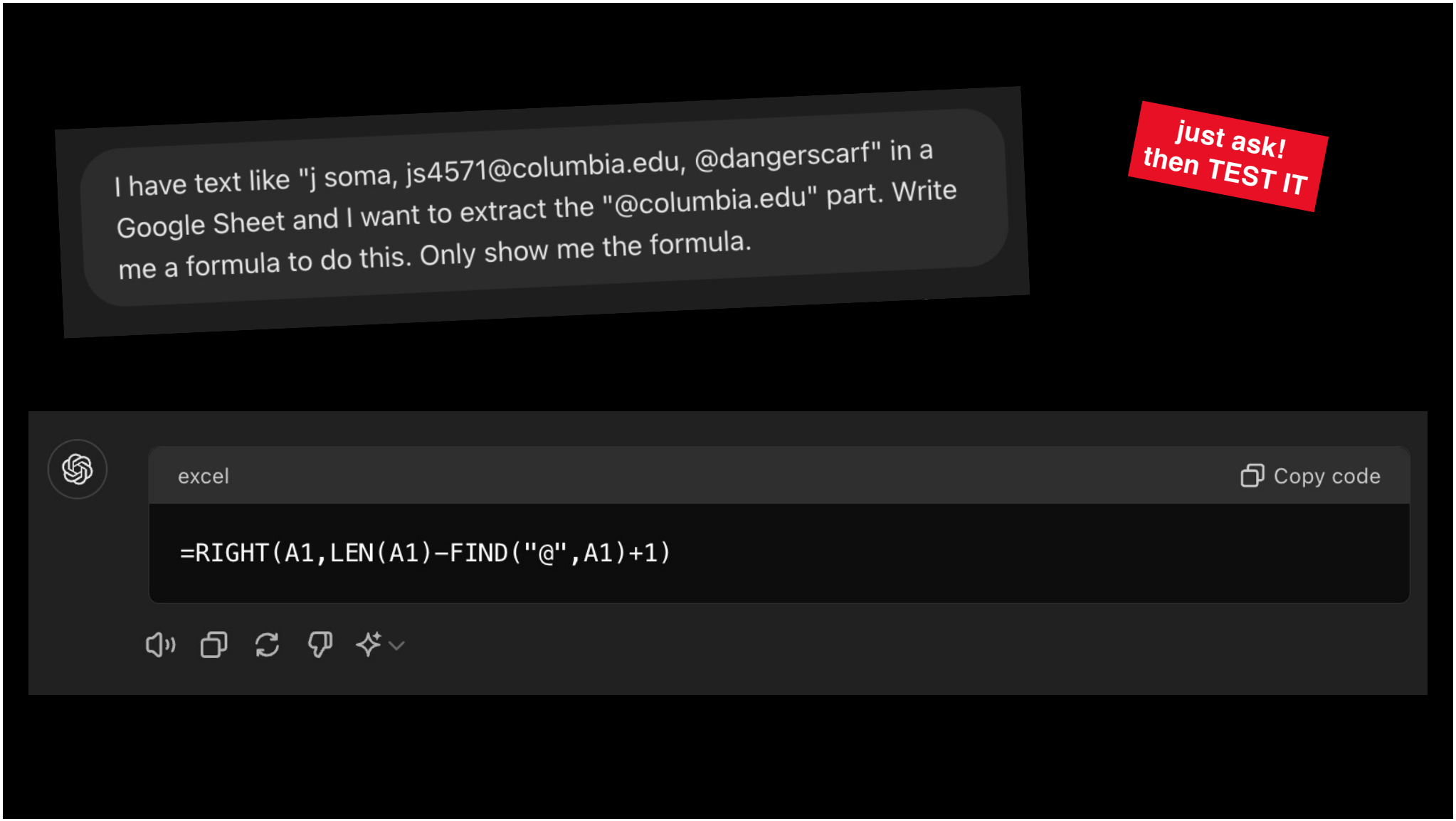
You can use the following Google Sheets formula to achieve this:

plaintext Copy code

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

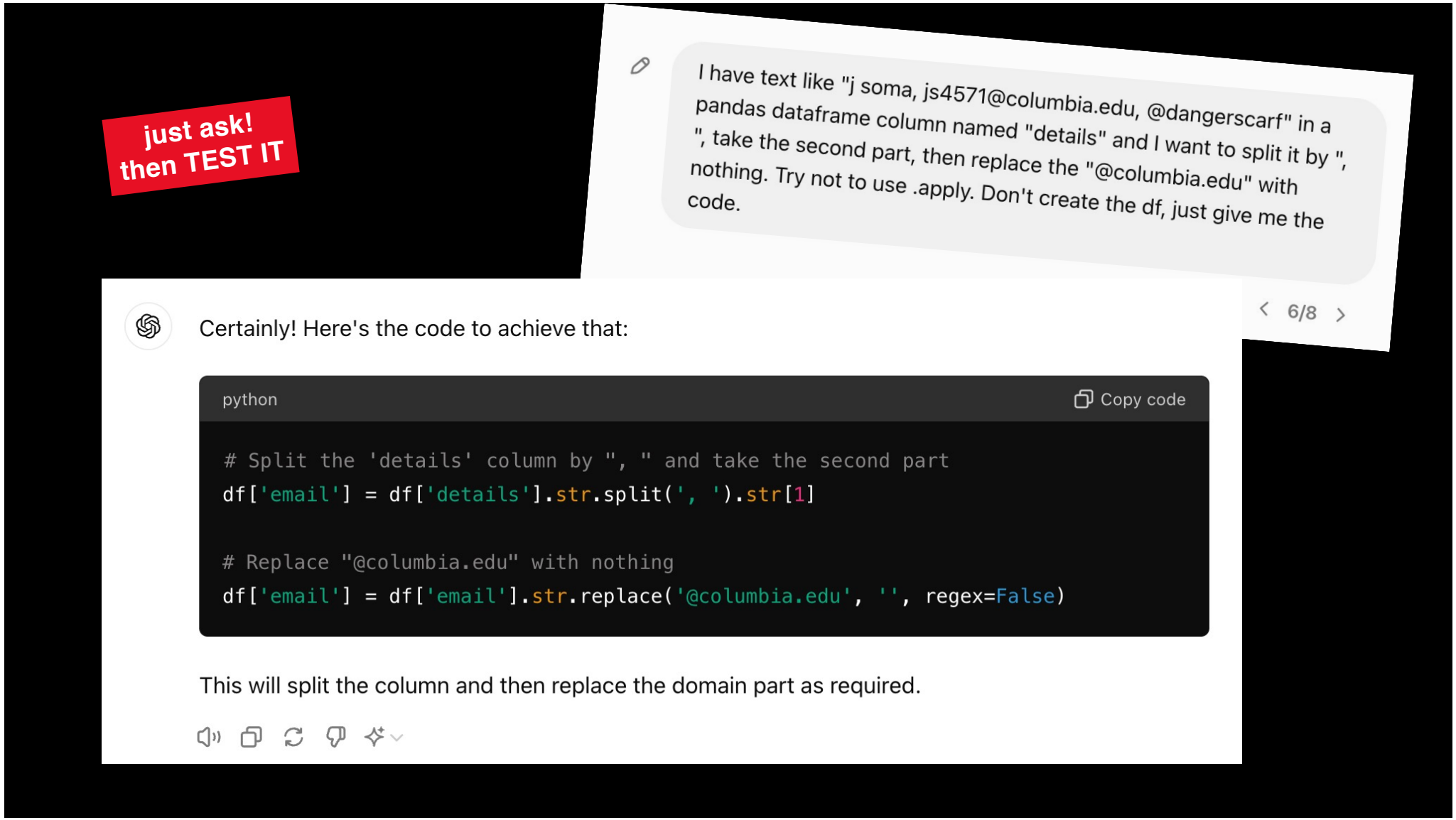
Explanation:

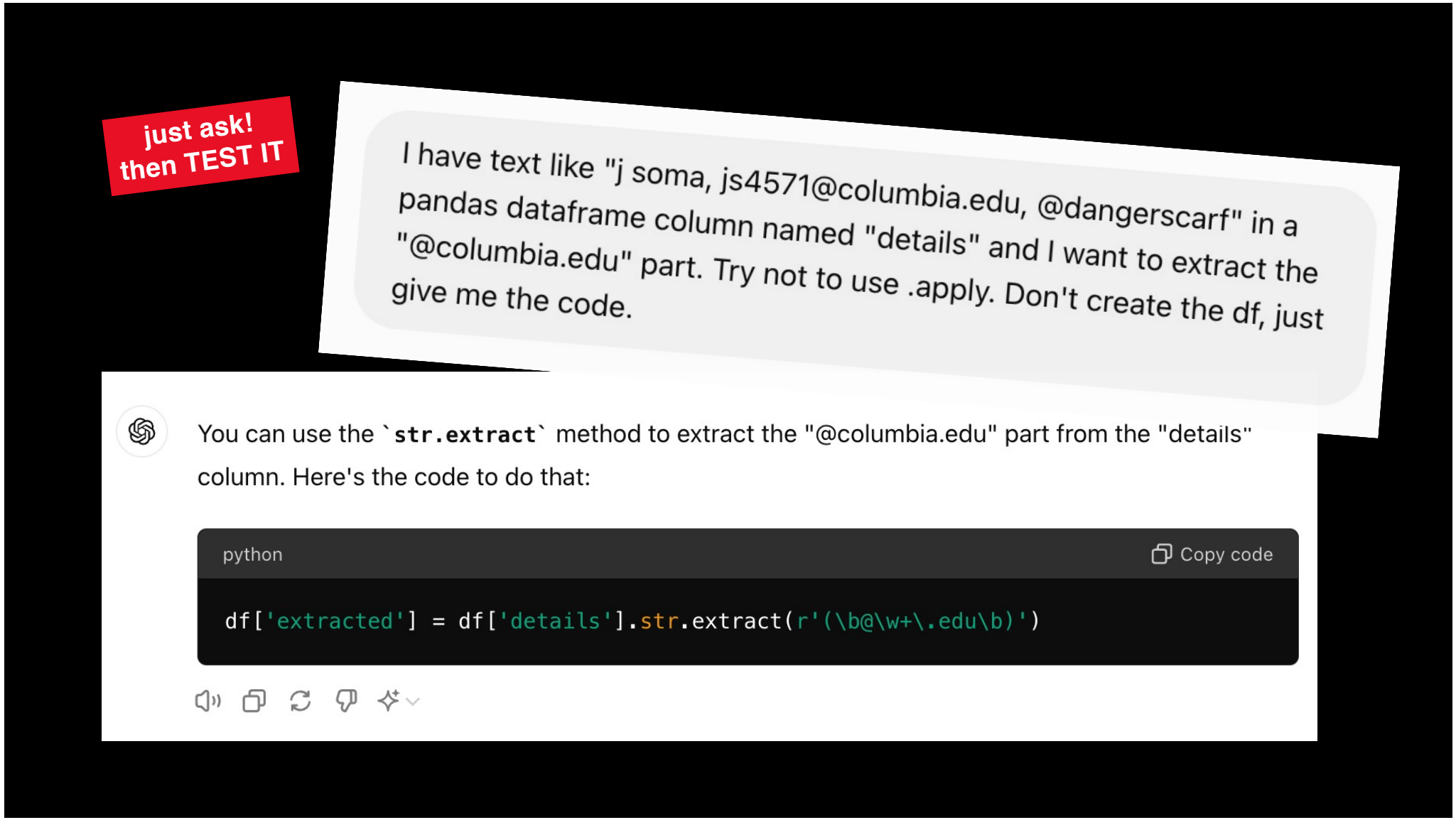
1. `SPLIT(A1, ", ")` splits the text in cell `A1` by ", ".
2. `INDEX(SPLIT(A1, ", "), 2)` selects the second part of the split text.
3. `SUBSTITUTE(INDEX(SPLIT(A1, ", "), 2), "@columbia.edu", "")` removes the "@columbia.edu" part from the selected text.


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.
just ask!
then TEST IT
excel
Copy code
=RIGHT(A1,LEN(A1)-FIND("@",A1)+1)

Feel free to reach out at 555-555-5555

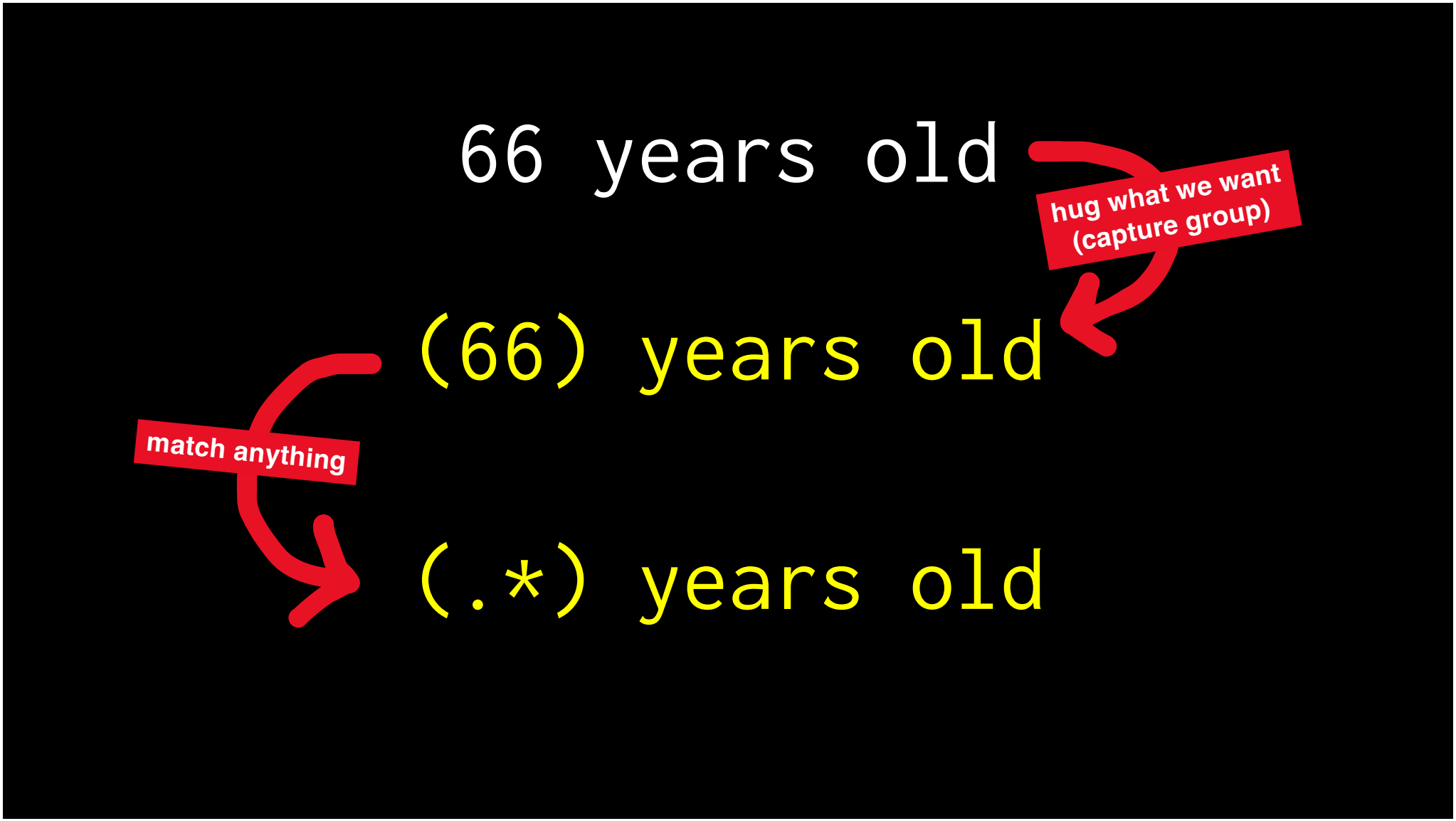
555-555-5555

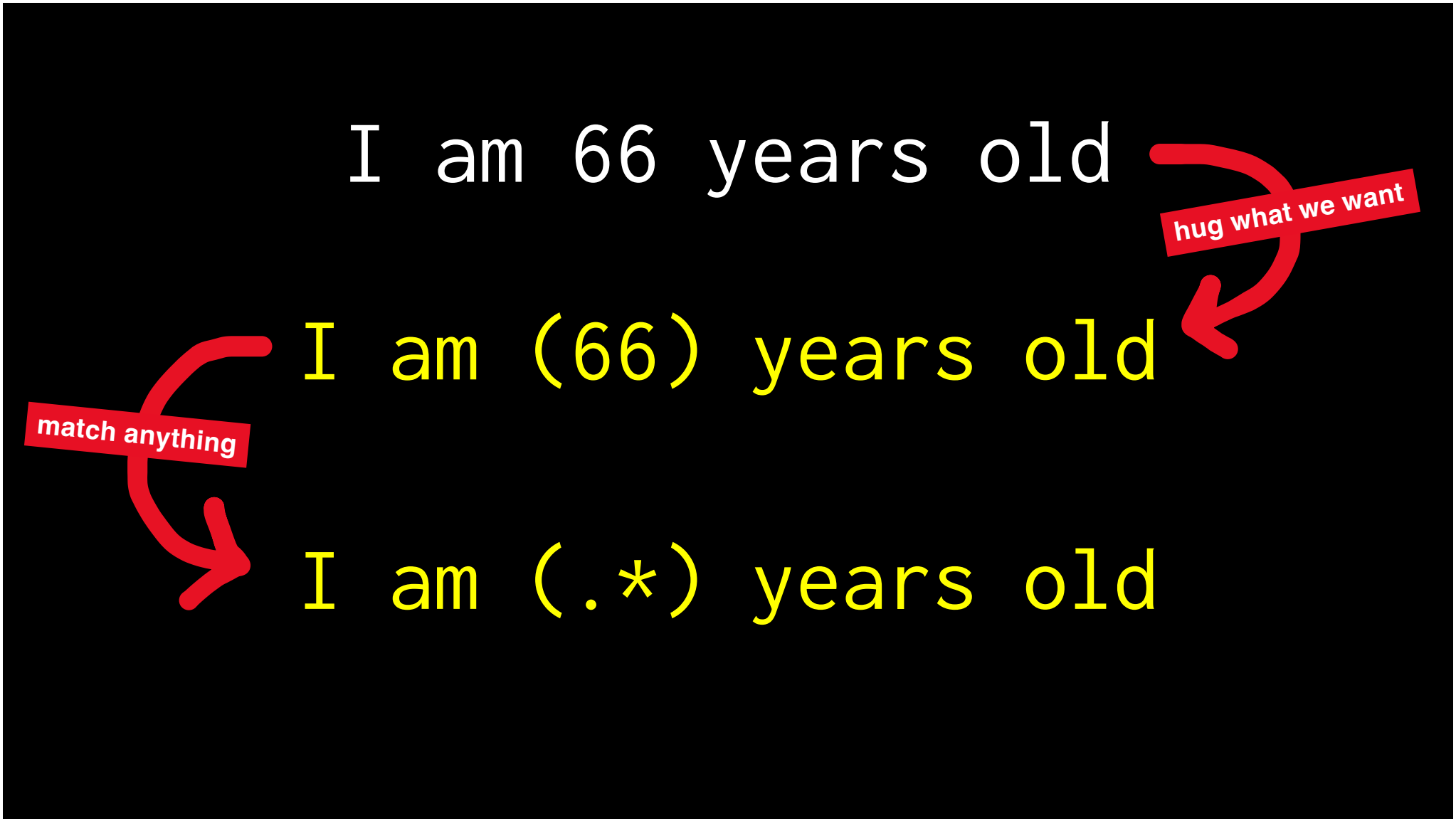

just ask!
then TEST IT
I have text like "j soma, js4571@columbia.edu, @dangerscarf" in a pandas dataframe column named "details" and I want to split it by ", take the second part, then replace the "@columbia.edu" with nothing. Try not to use .apply. Don't create the df, just give me the code.
6/8
Certainly! 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.

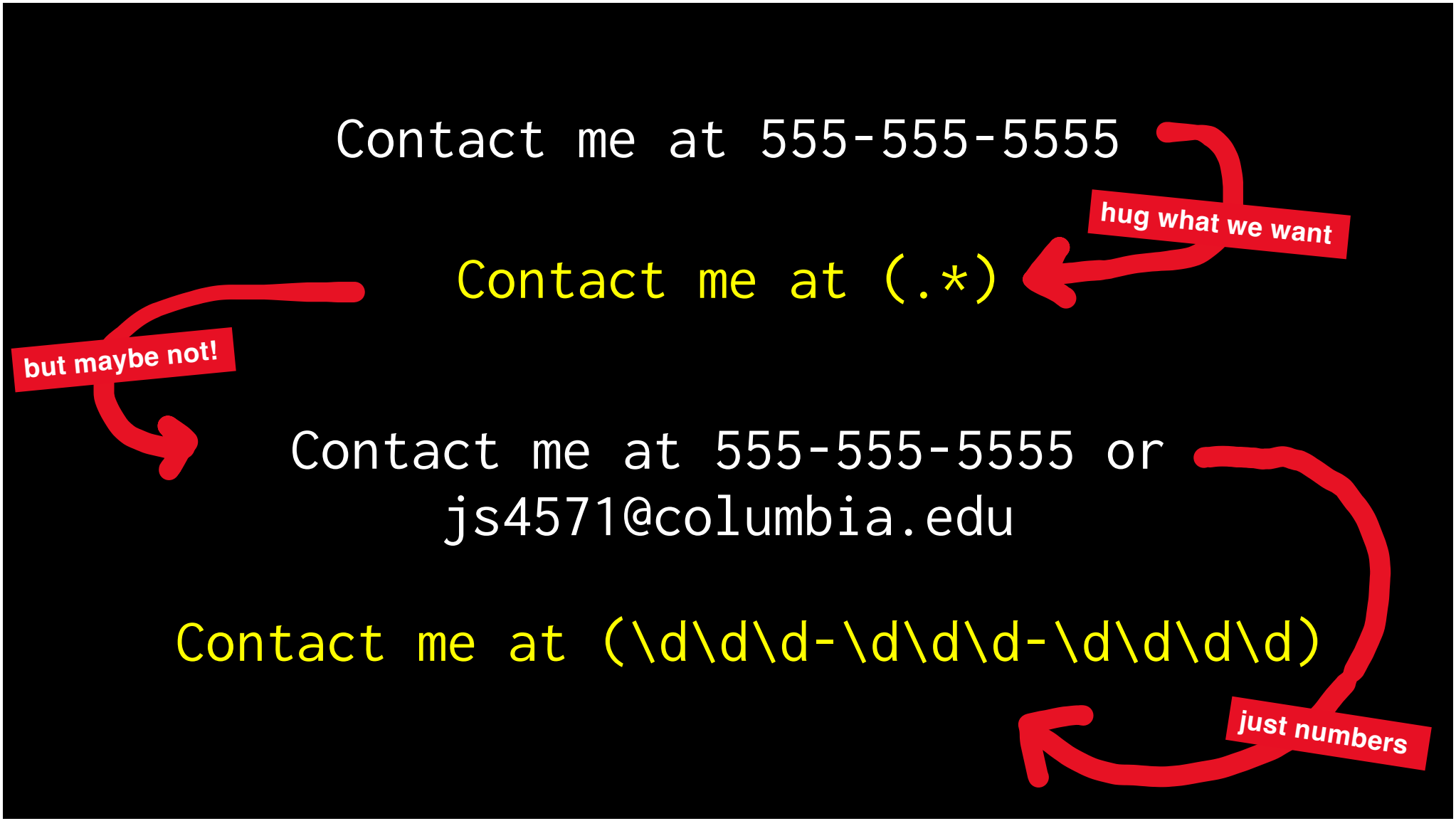

just ask!
then TEST IT
I have text like "j soma, js4571@columbia.edu, @dangerscarf" in a pandas dataframe column named "details" and I want to extract the "@columbia.edu" part. Try not to use .apply. Don't create the df, just give me the code.
You can use the `str.extract` method to extract the "@columbia.edu" 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
hug what we want
I am (66) years old
match anything
I am (.*) years old


Contact me at 555-555-5555
hug what we want
Contact me at (.*)
but maybe not!
Contact me at 555-555-5555 or
js4571@columbia.edu
Contact me at (\d\d\d-\d\d\d-\d\d\d\d)
just numbers

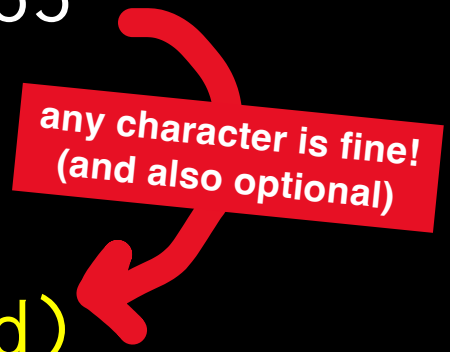
Contact me at 555-555-5555

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

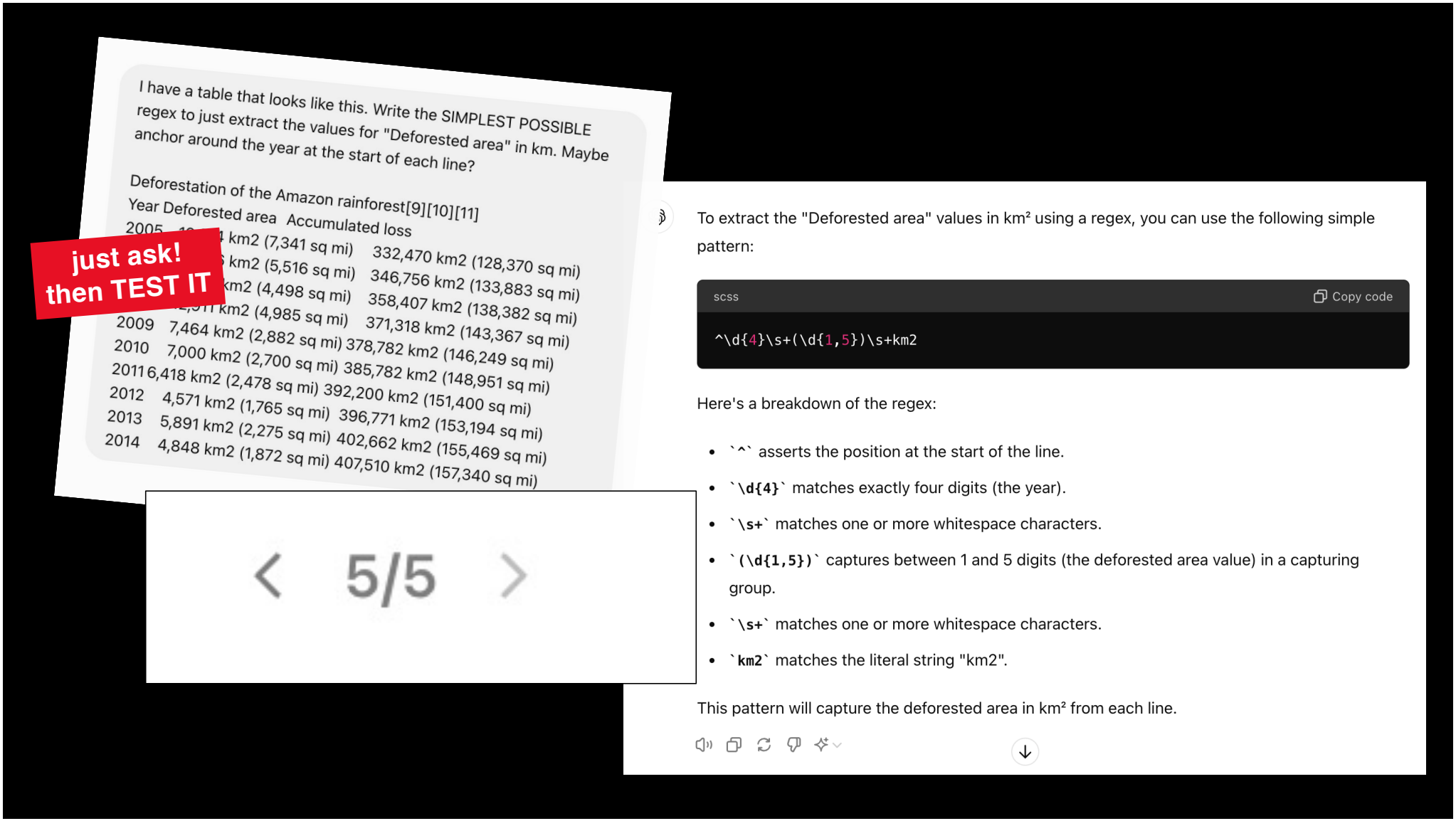
Contact me at 5555555555

(\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)
```


just ask!
then TEST IT
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?
Deforestation of the Amazon rainforest[9][10][11]
Year Deforested area Accumulated loss
km2 (7,341 sq mi) 332,470 km2 (128,370 sq mi)
km2 (5,516 sq mi) 346,756 km2 (133,883 sq mi)
km2 (4,498 sq mi) 358,407 km2 (138,382 sq mi)
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 km² 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 km² from each line.

Fuzzy matching

Jonathan Soma

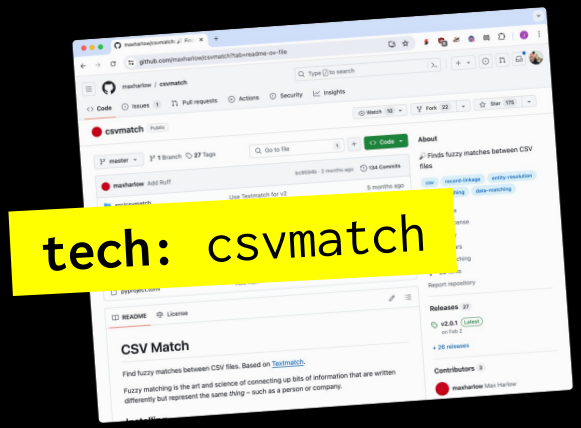
Jonathan P. Soma

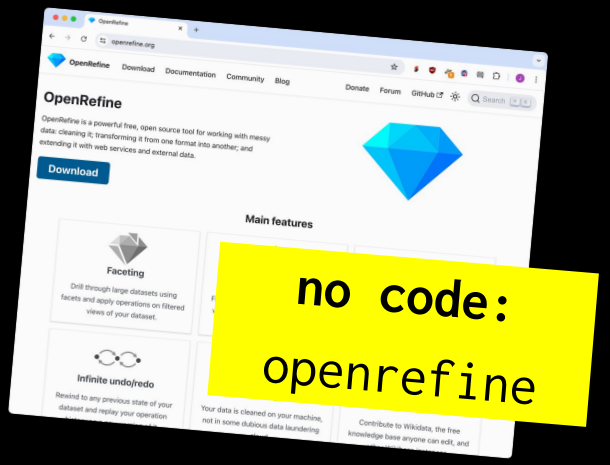
Jon Soma

Soma, Jonathan

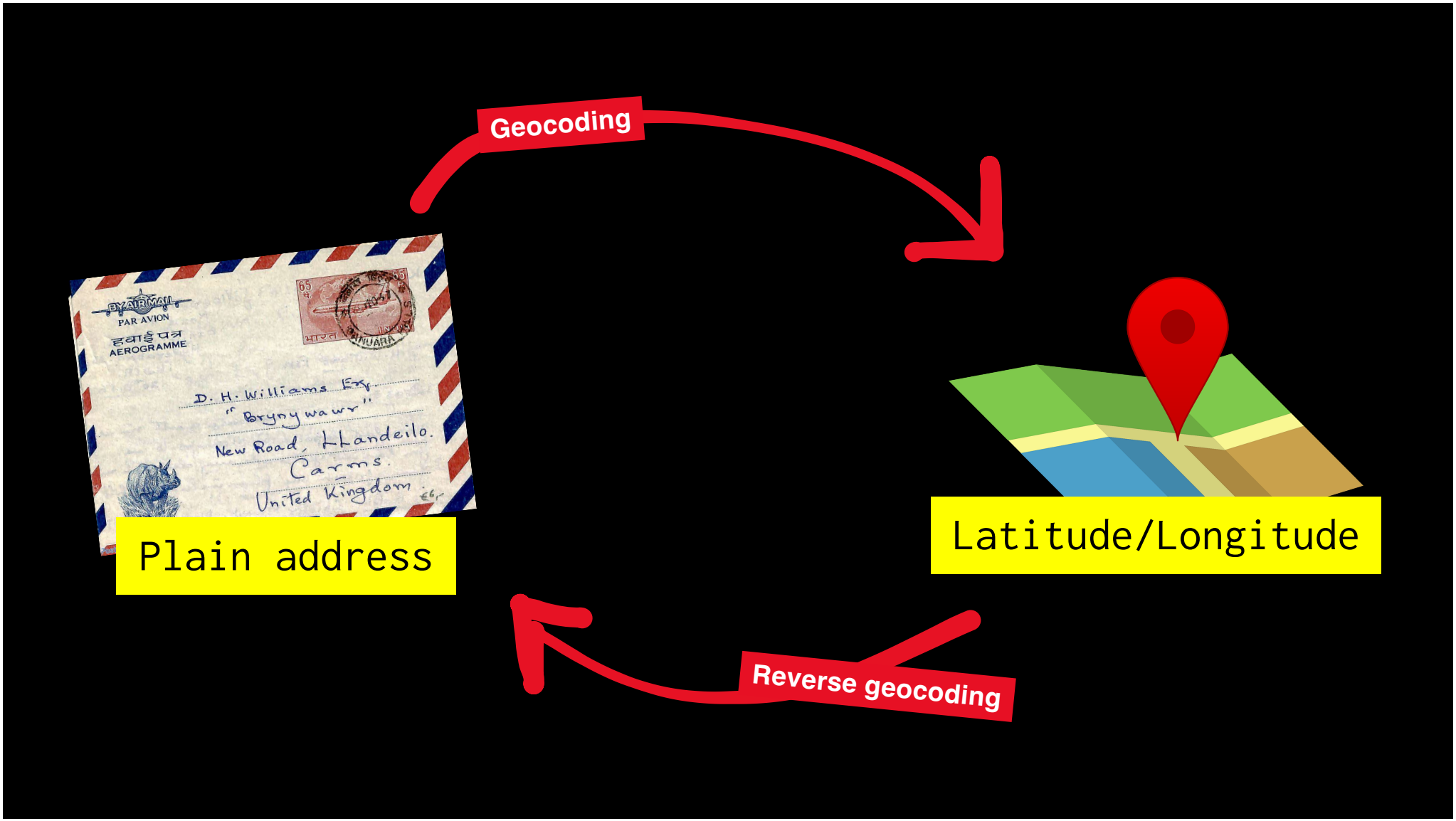
fuzzy matching

Jonathan Soma





Addresses and maps


Geocoding
BY AIRMAIL
PAR AVION
AEROGRAMME
D. H. Williams Esq
"Brynywawr"
New Road, Llandeilo.
Carms.
United Kingdom
Plain address
Latitude/Longitude
Reverse geocoding

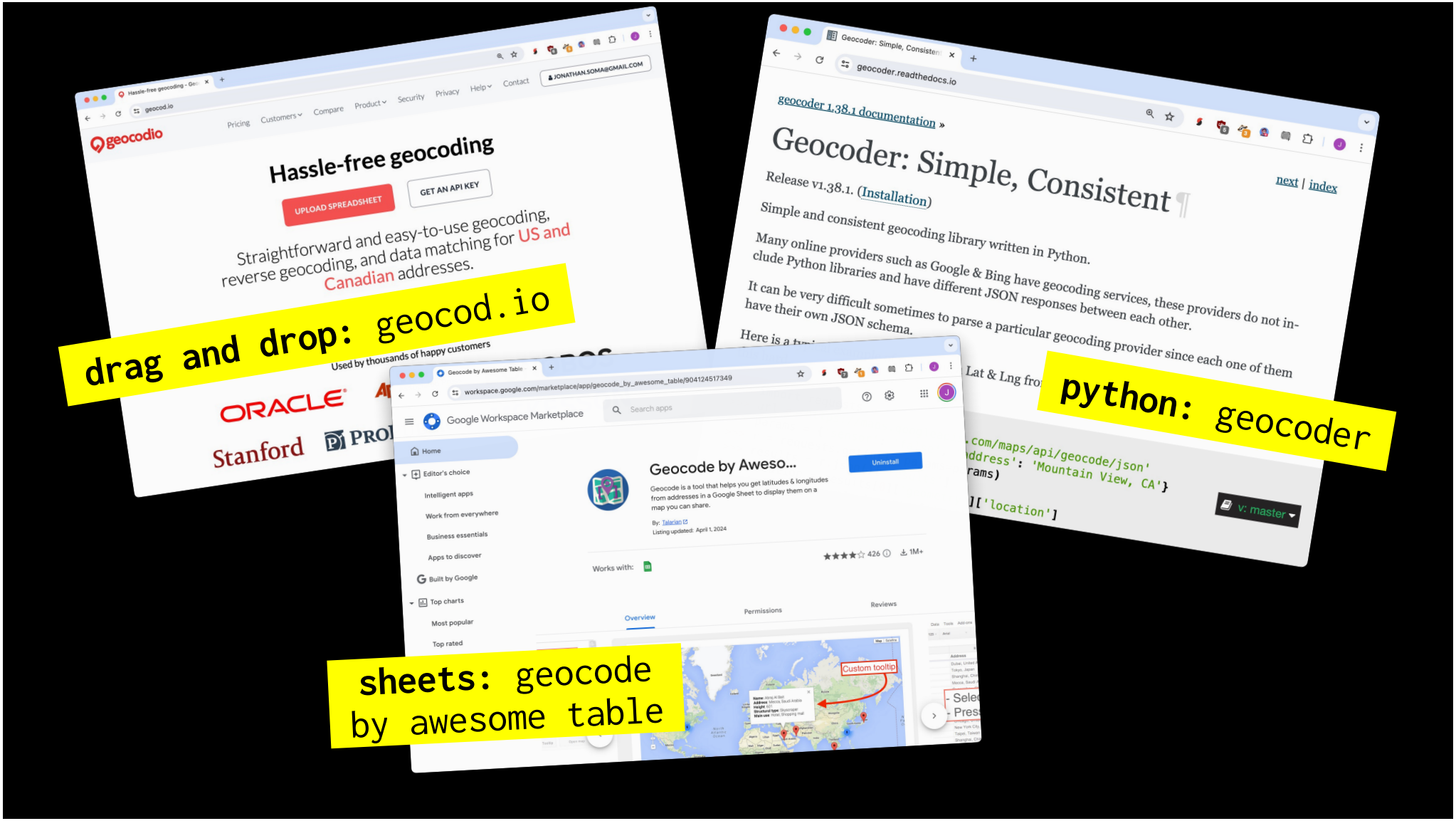
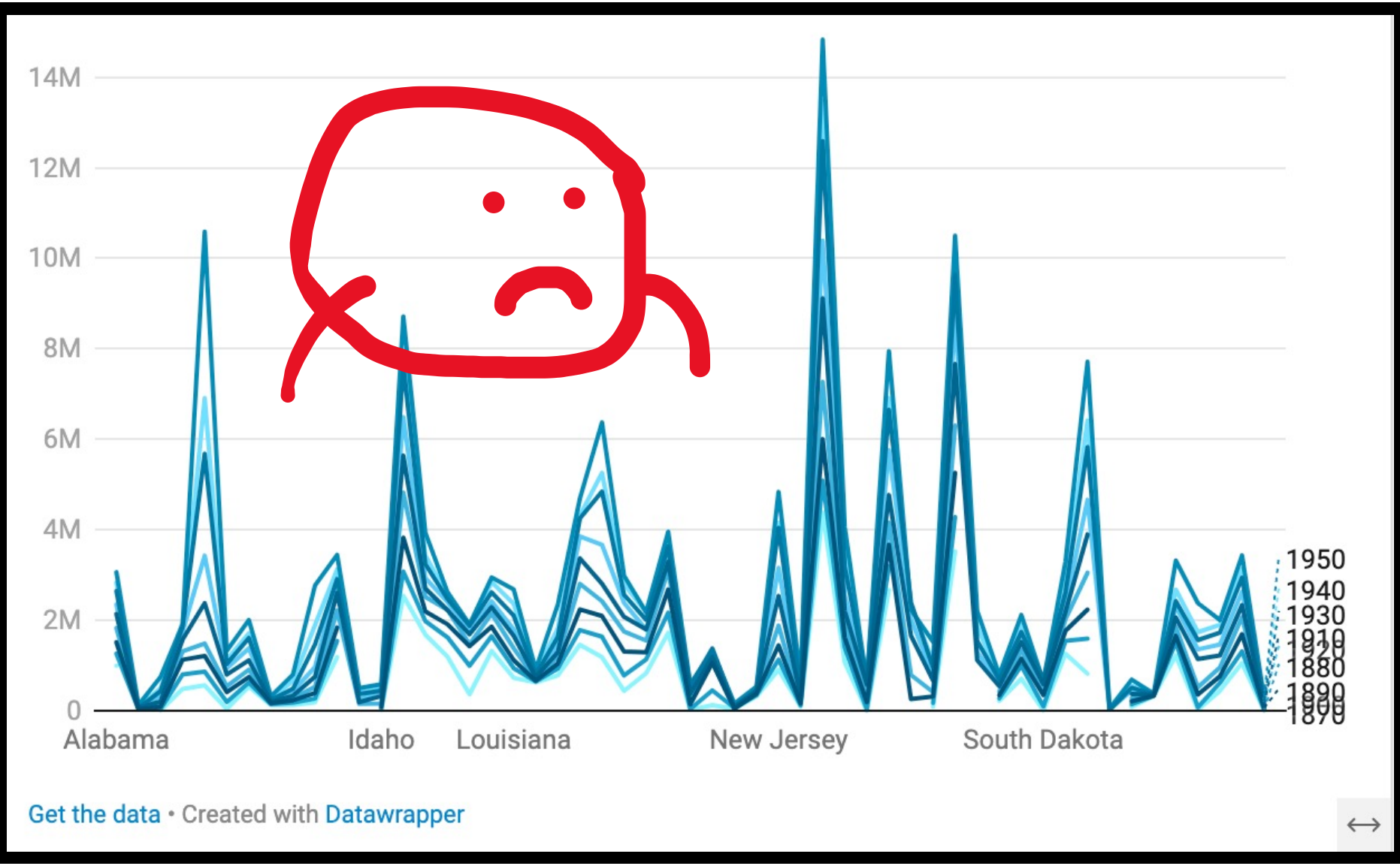
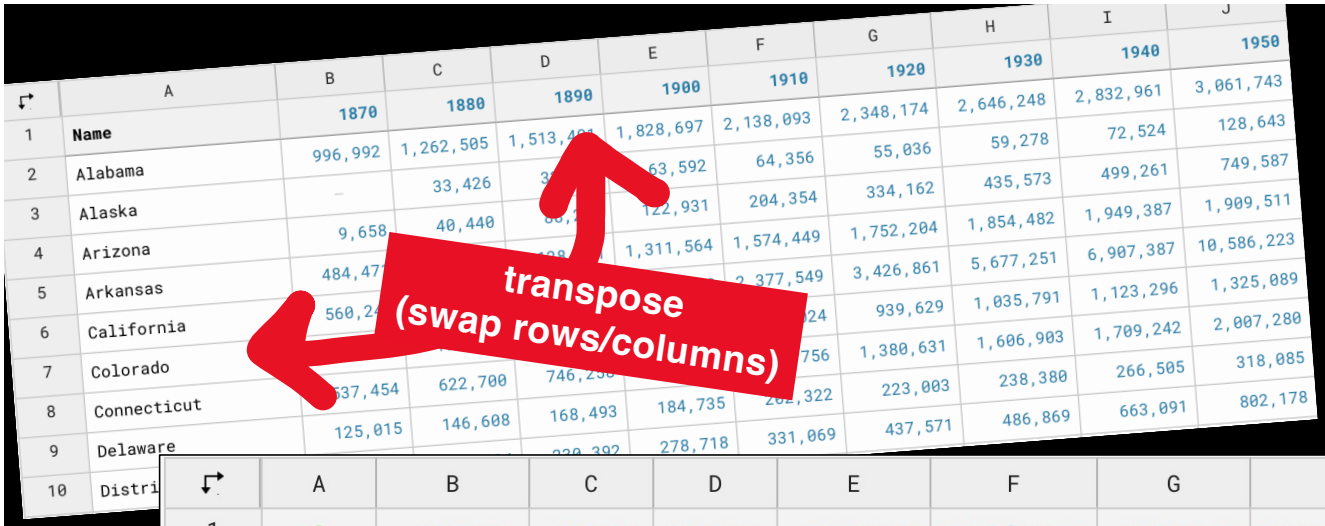

drag and drop: geocod.io
Hassle-free geocoding
UPLOAD SPREADSHEET
GET AN API KEY
Straightforward and easy-to-use geocoding, reverse geocoding, and data matching for US and Canadian addresses.
Used by thousands of happy customers
ORACLE
Stanford
python: geocoder
Geocoder: Simple, Consistent
geocoder 1.38.1 documentation »
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.
next | index
v: master
sheets: geocode by awesome table
Google Workspace Marketplace
Geocode by Aweso...
Uninstall
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.
Overview
Permissions
Reviews
Custom tooltip

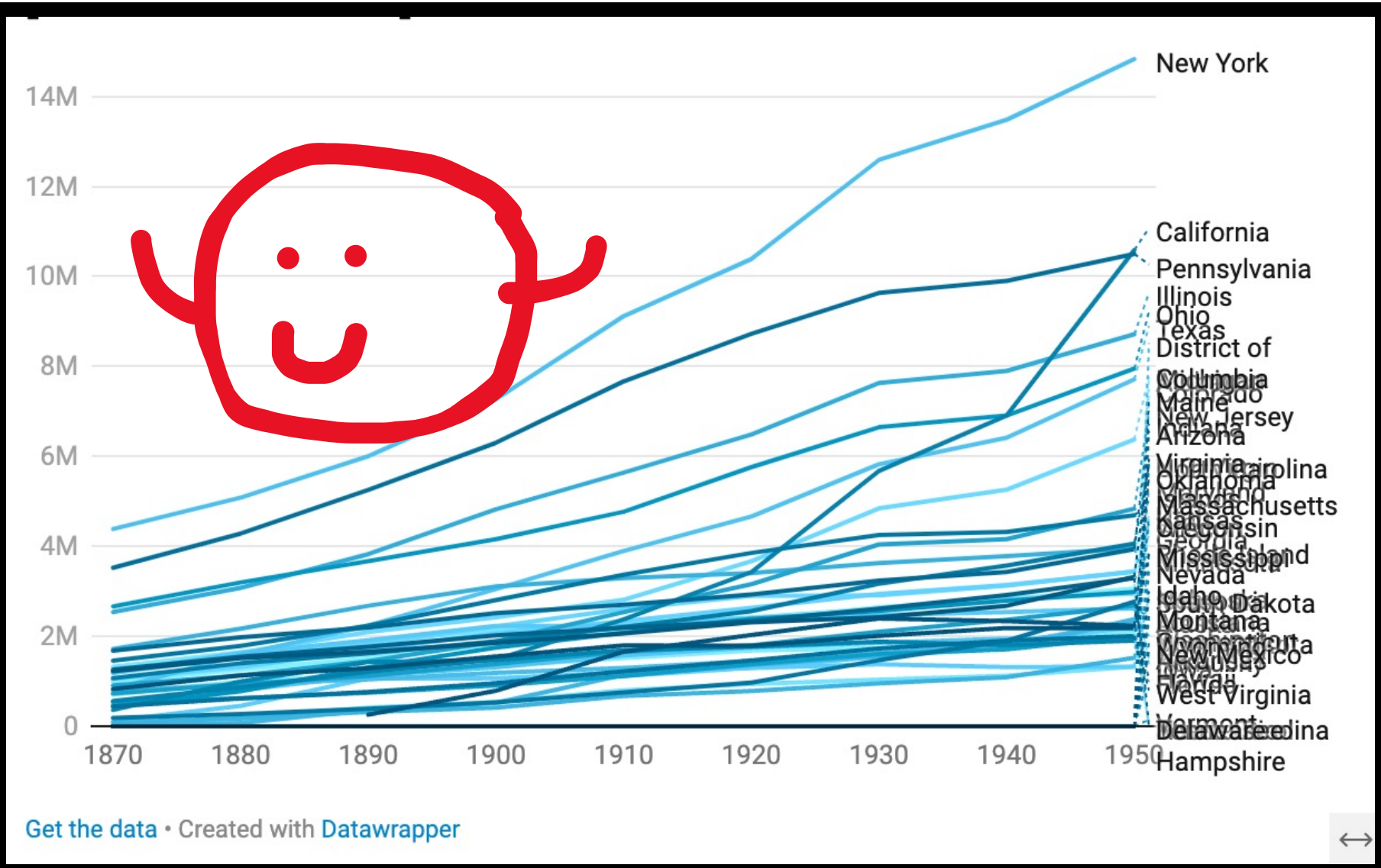
Table formatting


14M
12M
10M
8M
6M
4M
2M
0
Alabama
Idaho
Louisiana
New Jersey
South Dakota
1950
1940
1930
1910
1880
1890
1870
Get the data • Created with Datawrapper



	A	B	C	D	E	F	G	H	I	J
1	Name	1870	1880	1890	1900	1910	1920	1930	1940	1950
2	Alabama	996,992	1,262,505	1,513,401	1,828,697	2,138,093	2,348,174	2,646,248	2,832,961	3,061,743
3	Alaska	–	33,426	32,052	63,592	64,356	55,036	59,278	72,524	128,643
4	Arizona	9,658	40,440	88,243	122,931	204,354	334,162	435,573	499,261	749,587
5	Arkansas	484,471	802,525	1,128,211	1,311,564	1,574,449	1,752,204	1,854,482	1,949,387	1,909,511
6	California	560,247	864,694	1,213,398	1,485,053	2,377,549	3,426,861	5,677,251	6,907,387	10,586,223
7	Colorado	39,864	194,327	413,249	539,700	799,024	939,629	1,035,791	1,123,296	1,325,089
8	Connecticut	537,454	622,700	746,258	908,420	1,114,756	1,380,631	1,606,903	1,709,242	2,007,280
9	Delaware	125,015	146,608	168,493	184,735	202,322	223,003	238,380	266,505	318,085
10	Distri				278,718	331,069	437,571	486,869	663,091	802,178

	A	B	C	D	E	F	G	H	I	J	K
1	Name	Alabama	Alaska	Arizona	Arkansas	California	Colorado	Connecticut	Delaware	District of Columbia	Florid
2	1870	996,992	–	9.658	484,471	560,247	39,864	537,454	125.015	131.7	187,74
3	1880	1,262,505	33.426	40.44	802,525	864,694	194,327	622,700	146.608	177.624	269,49
4	1890	1,513,401	32.052	88.243	1,128,211	1,213,398	413,249	746,258	168.493	230.392	391,42
5	1900	1,828,697	63.592	122.931	1,311,564	1,485,053	539,700	908,420	184.735	278.718	528,54
6	1910	2,138,093	64.356	204.354	1,574,449	2,377,549	799,024	1,114,756	202.322	331.069	752,61
7	1920	2,348,174	55.036	334.162	1,752,204	3,426,861	939,629	1,380,631	223.003	437.571	968,47
8	1930	2,646,248	59.278	435.573	1,854,482	5,677,251	1,035,791	1,606,903	238.38	486.869	1,468,21
9	1940	2,832,961	72.524	499.261	1,949,387	6,907,387	1,123,296	1,709,242	266.505	663.091	1,897,41
10	1950	3,061,743	128.643	749.587	1,909,511	10,586,223	1,325,089	2,007,280	318.085	802.178	2,771,30


New York
14M
12M
10M
8M
6M
4M
2M
0
1870
1880
1890
1900
1910
1920
1930
1940
1950
California
Pennsylvania
Illinois
Ohio
Texas
District of
Maine
New Jersey
Arizona
Oklahoma
Massachusetts
Nevada
Montana
West Virginia
Hampshire
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Apps & Integrations
Resources
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Introducing Meeting GenAI
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items, and chat
to get answers from your meeting
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Get automated meeting notes and summaries with action items using OtterPilot.
NEW
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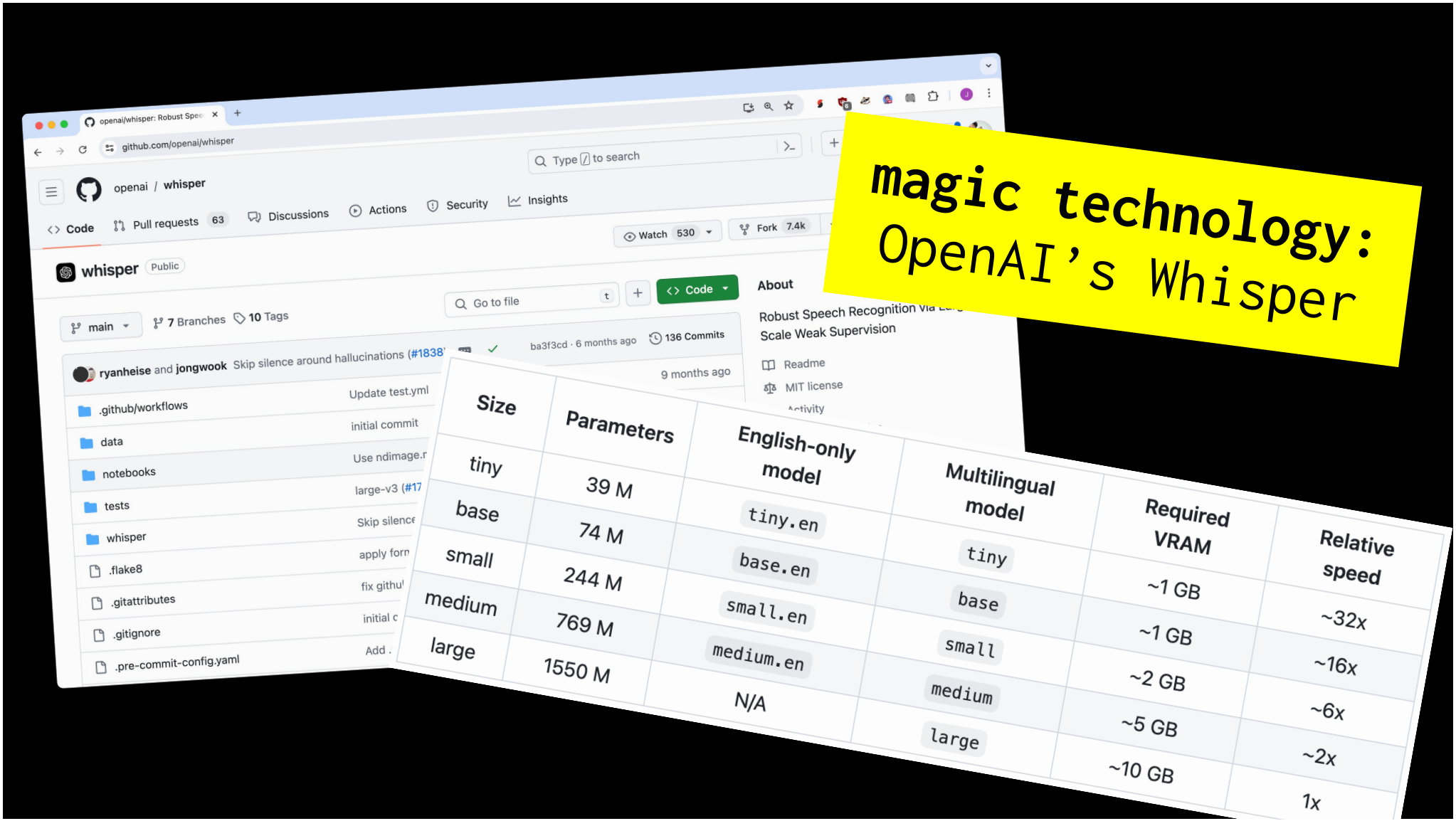
Get answers and generate content like emails and status updates, using the power of Otter AI Chat across all your meetings.
NEW
AI Channels


magic technology:
OpenAI's Whisper
openai / whisper
Code
Pull requests 63
Discussions
Actions
Security
Insights
Watch 530
Fork 7.4k
whisper Public
main
7 Branches
10 Tags
Go to file
Code
About
Robust Speech Recognition via Large-Scale Weak Supervision
Readme
MIT license
ryanheise and jongwook Skip silence around hallucinations (#1838
ba3f3cd · 6 months ago
136 Commits
9 months ago
.github/workflows
Update test.yml
data
initial commit
notebooks
Use ndimage.r
tests
large-v3 (#17
whisper
Skip silence
.flake8
apply form
.gitattributes
fix github
.gitignore
initial c
.pre-commit-config.yaml
Add .
Size
Parameters
English-only model
Multilingual model
Required VRAM
Relative speed
tiny
39 M
tiny.en
tiny
~1 GB
~32x
base
74 M
base.en
base
~1 GB
~16x
small
244 M
small.en
small
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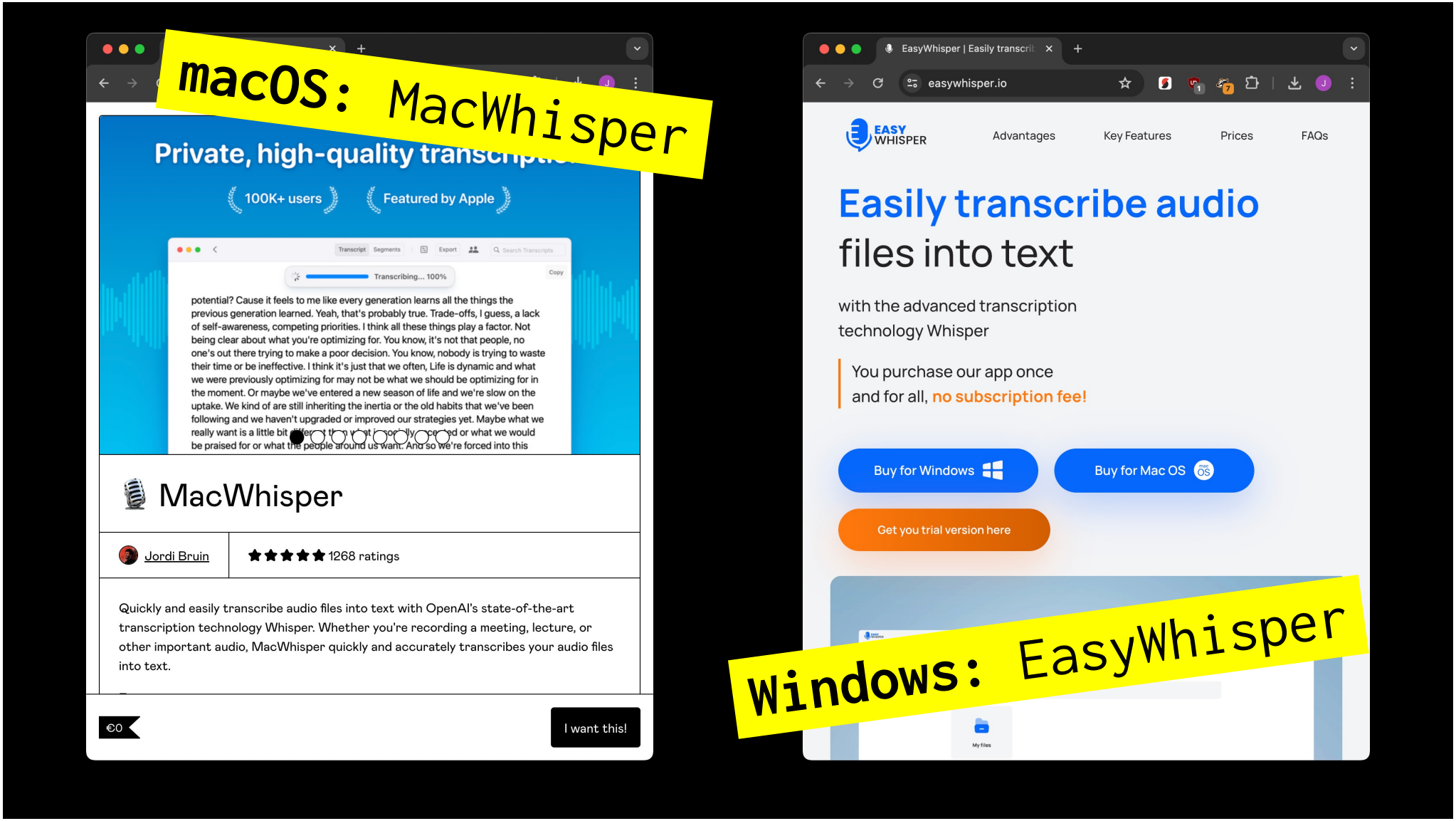
medium
~5 GB
~2x
large
1550 M
N/A
large
~10 GB
1x


macOS: MacWhisper
Private, high-quality transcripti
100K+ users
Featured by Apple
Transcribing... 100%
potential? Cause it feels to me like every generation learns all the things the previous generation learned. Yeah, that's probably true. Trade-offs, I guess, a lack of self-awareness, competing priorities. I think all these things play a factor. Not being clear about what you're optimizing for. You know, it's not that people, no one's out there trying to make a poor decision. You know, nobody is trying to waste their time or be ineffective. I think it's just that we often, Life is dynamic and what we were previously optimizing for may not be what we should be optimizing for in the moment. Or maybe we've entered a new season of life and we're slow on the uptake. We kind of are still inheriting the inertia or the old habits that we've been following and we haven't upgraded or improved our strategies yet. Maybe what we really want is a little bit
be praised for or what the people around us want. And so we're forced into this
MacWhisper
Jordi Bruin
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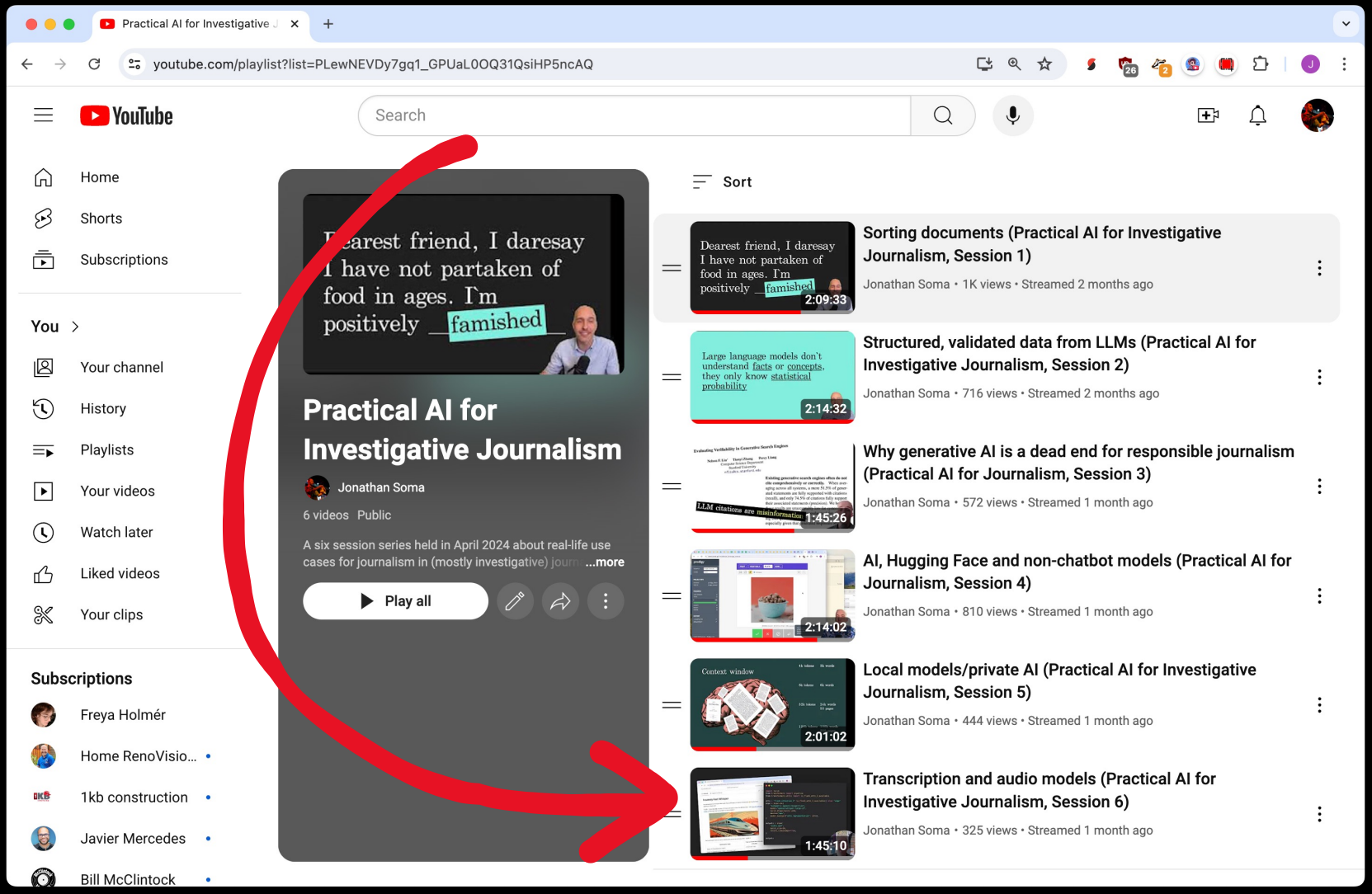
Practical AI for Investigative
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You
Your channel
History
Playlists
Your videos
Watch later
Liked videos
Your clips
Subscriptions
Freya Holmér
Home RenoVisio...
1kb construction
Javier Mercedes
Bill McClintock
Dearest friend, I daresay I have not partaken of food in ages. I'm positively famished
Practical AI for Investigative Journalism
Jonathan Soma
6 videos Public
A six session series held in April 2024 about real-life use cases for journalism in (mostly investigative) journ ...more
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Jonathan Soma • 1K views • Streamed 2 months ago
2:09:33
Structured, validated data from LLMs (Practical AI for Investigative Journalism, Session 2)
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2:14:32
Why generative AI is a dead end for responsible journalism (Practical AI for Journalism, Session 3)
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AI, Hugging Face and non-chatbot models (Practical AI for Journalism, Session 4)
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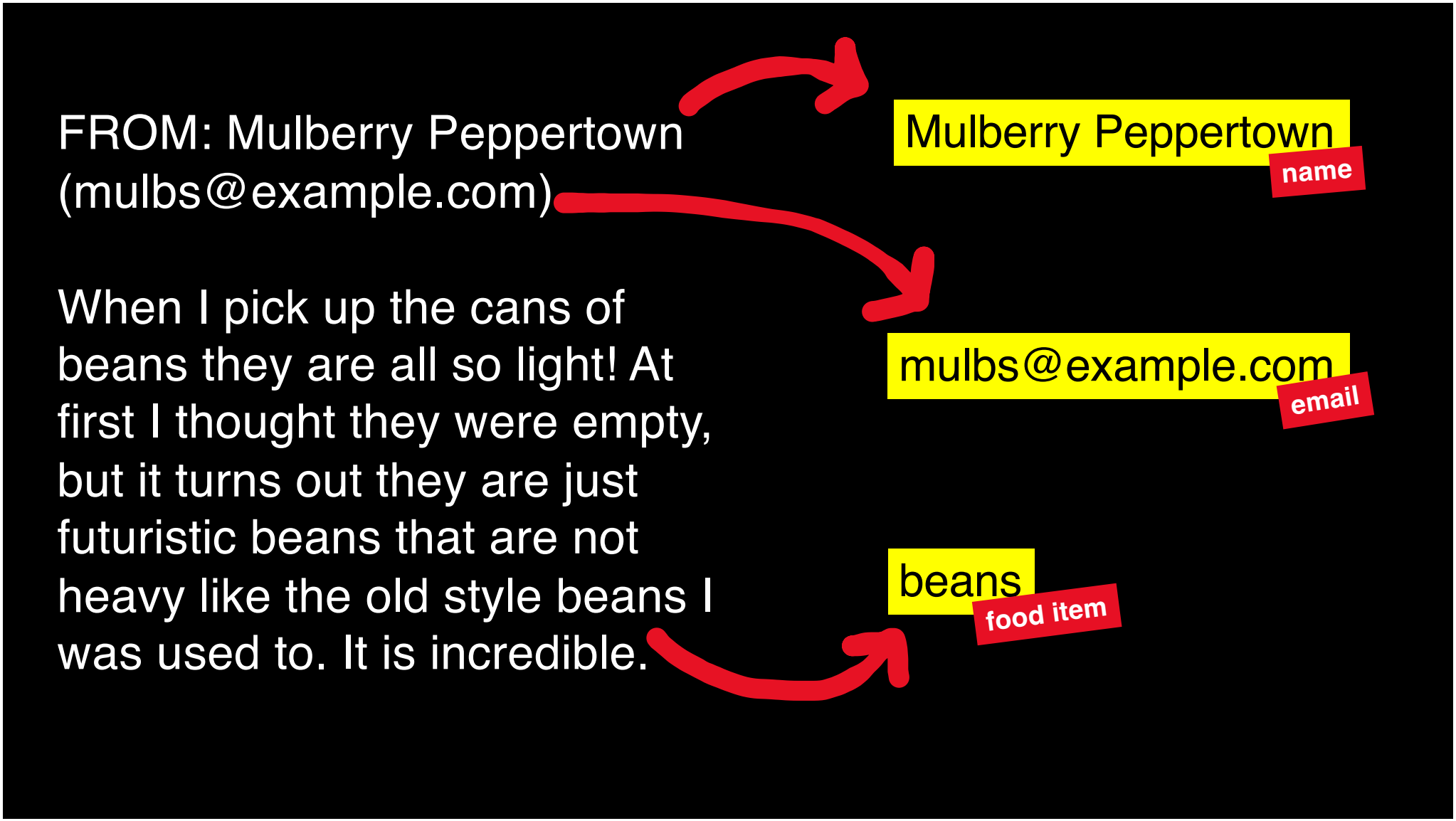
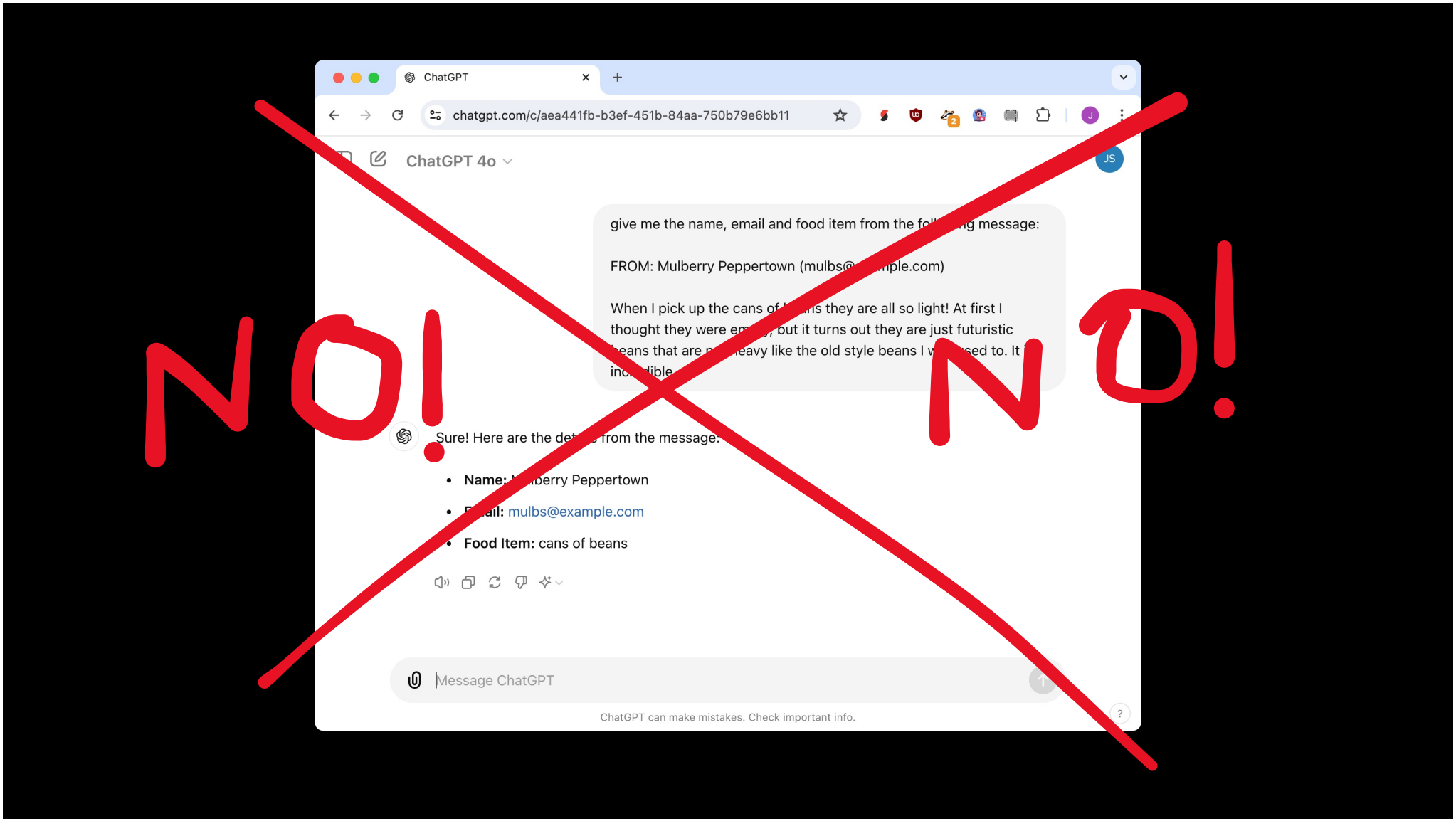
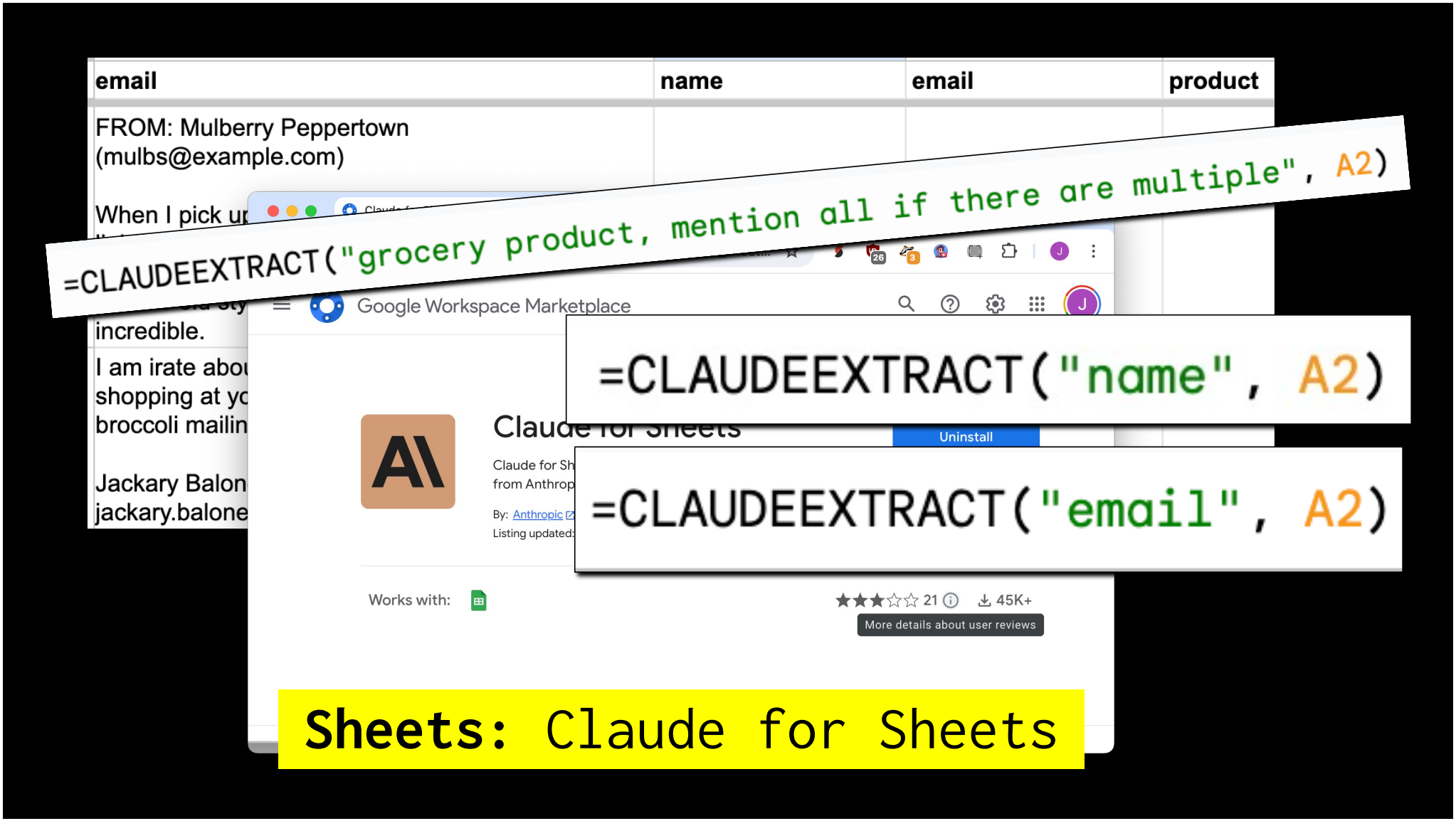
Local models/private AI (Practical AI for Investigative Journalism, Session 5)
Jonathan Soma • 444 views • Streamed 1 month ago
2:01:02
Transcription and audio models (Practical AI for Investigative Journalism, Session 6)
Jonathan Soma • 325 views • Streamed 1 month ago
1:45:10

Generating structured data with the awful power of LLMs


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


ChatGPT
chatgpt.com/c/aea441fb-b3ef-451b-84aa-750b79e6bb11
ChatGPT 4o
JS
give me the name, email and food item from the fo ng message:
FROM: Mulberry Peppertown (mulbs@ mple.com)
When I pick up the cans of ans they are all so light! At first I thought they were em , but it turns out they are just futuristic eans that are n eavy like the old style beans I w sed to. It inc dible
Sure! Here are the det from the message:
Name: berry Peppertown
ail: mulbs@example.com
Food Item: cans of beans
Message ChatGPT
ChatGPT can make mistakes. Check important info.
NO!
NO!


email
name
email
product
FROM: Mulberry Peppertown (mulbs@example.com)
When I pick up
incredible.
I am irate abou
shopping at yo
broccoli mailin
Jackary Balon
jackary.balone
=CLAUDEEXTRACT("grocery product, mention all if there are multiple", A2)
Google Workspace Marketplace
=CLAUDEEXTRACT("name", A2)
Claude for Sheets
Uninstall
Claude for Sh
from Anthrop
By: Anthropic
Listing updated:
=CLAUDEEXTRACT("email", A2)
Works with:
21
45K+
More details about user reviews
Sheets: Claude for Sheets


Python: Instructor
class Comment(BaseModel):
name: str = Field(description="Person who submitted the comment")
email: Optional[str] = Field(description="Email address of commenter")
food_item: str = Field(description="Food item the comment is about")
emotion: Literal["positive", "negative", "uncertain"
comment = """
FROM: Mulberry Peppertown, mulberry (at) example.co
When I pick up the cans of beans they are all so li
first I thought they were empty, but it turns out
futuristic beans that are not heavy like the old s
I was used to. It is incredible.
"""
result = client.chat.completions.create(
response_model=Comment,
messages=[{"role": "user", "content": comment}],
)
{
'name': 'Mulberry Peppertown',
'email': 'mulberry@example.com',
'food_item': 'cans of beans',
'emotion': 'positive'
}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