Visit https://bit.ly/ds-dojo-2024 for material

Unstructured data

Scraping and data cleaning

A small change!

Today we will do **more pandas** in the afternoon, so you can finish homework from yesterday. Also a little AI.

We will do more AI tomorrow!

homework

is for the rest of your life!

You do not need to finish it today, or tomorrow, or this weekend!


Snorlax (Pokémon) - Bulbapedia
bulbapedia.bulbagarden.net/wiki/Snorlax_(Pokémon)
BULBAGARDEN
News
Bulbapedia
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Discord
More
Editors
Account
Search Bulbapedia
article
discussion
view source
history
tools
in other languages
In commemoration of Nintendo's 135th 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
Snorlax
Sleeping Pokémon
カビゴン
Kabigon
#0143
Snorlax
Website
Unstructured
Structured
pokeapi.co/api/v2/pokemon/snorlax
Pretty-print
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"is_default": true,
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"version_group": {
"name": "red-blue",
"url": "https://pokeapi.co/api/v2/version-group/1/"
APIs

How to find data

- **There is no secret answer!**
- Search and search and search
- Talk to other people
- Visit websites

Visit https://bit.ly/ds-dojo-2024 for material

Scraping!

stealing (??) data from the internet

HTML

the language that all web sites are built with

```
<h1>This is a headline</h1>
<h2>This is a smaller headline</h2>
<h3>And an even smaller headline</h3>
```

This is a headline

This is a smaller headline

And an even smaller headline

```
<h1>This is a headline</h1>
<h2>This is a smaller headline</h2>
<h3>And an even smaller headline</h3>
<p>This is a paragraph</p>
<img src=“photo.jpg”>
<p>This is a paragraph with
<a href=“google.com”>a link</a></p>
<div>This is ANYTHING</div>
<div>Anything! Anything in the world</div>
```

This is a headline

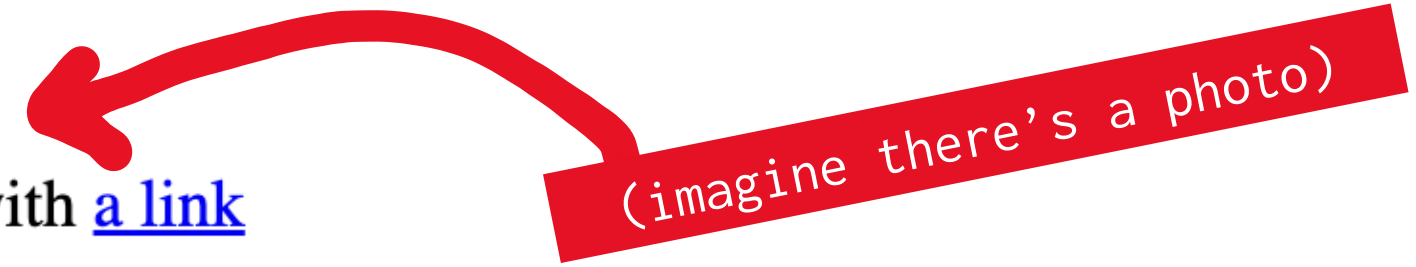
This is a smaller headline

And an even smaller headline

This is a paragraph

This is a paragraph with a link

This is ANYTHING
Anything! Anything in the world



```
<h1>An incredible story</h1>
<p>By J. Soma</p>
<p>This is the start of the story.</p>
<p>It is an amazing story!</p>
<p>”It’s incredible,” said the source.</p>
<p>An editor agreed: “it’s true!”</p>
<p>Additional reporting by Mulberry the fat
mean cat</p>
<p>Edit: An earlier version said “Jonathan”
Soma</p>
```

An incredible story

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<h1>An incredible story</h1>
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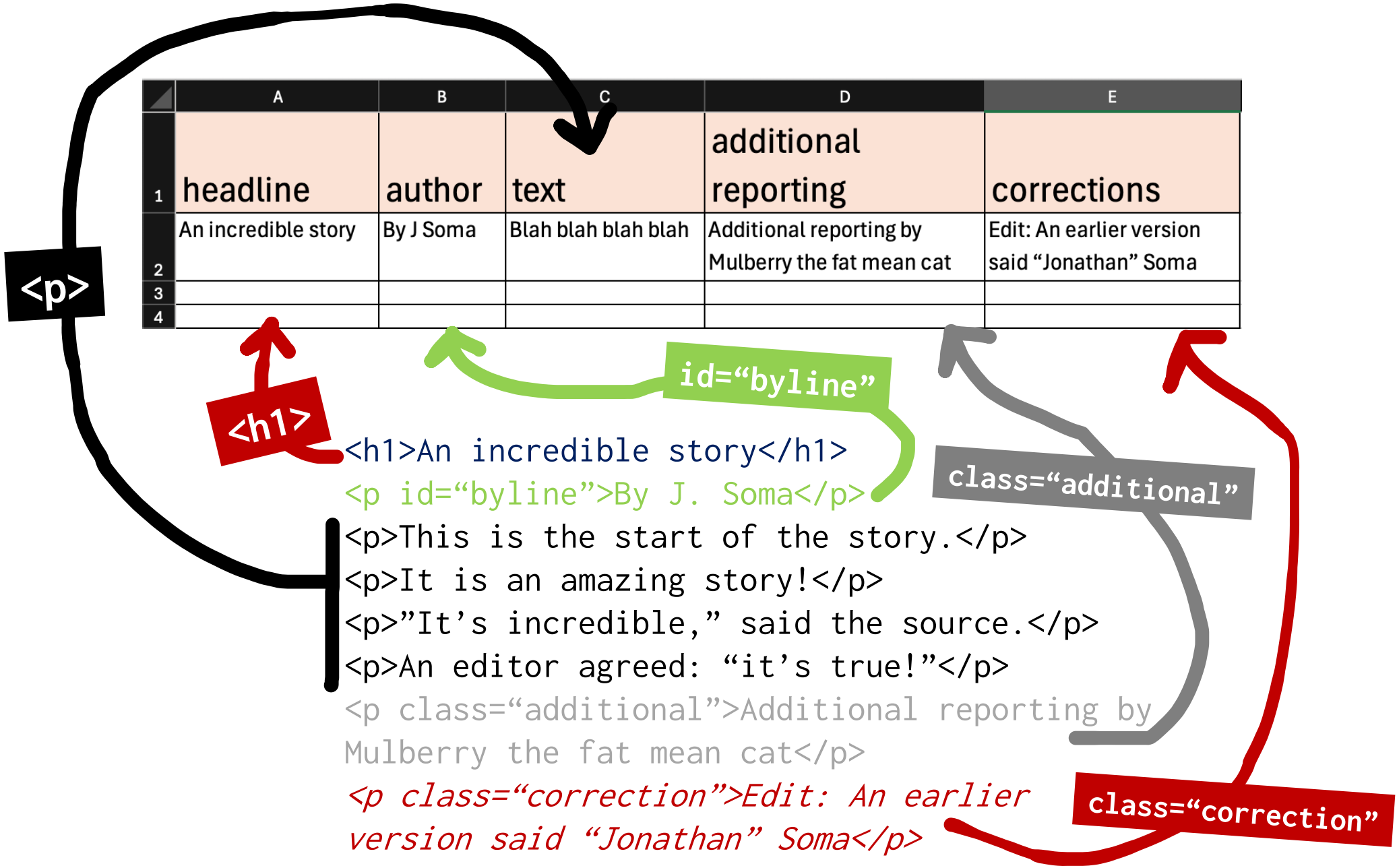
A
B
C
D
E
1
headline
author
text
additional reporting
corrections
2
An incredible story
By J Soma
Blah blah blah blah
Additional reporting by Mulberry the fat mean cat
Edit: An earlier version said “Jonathan” Soma
3
4

<h1>
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Edit: An earlier version said “Jonathan” Soma

Let’s see it on the internet!

BBC Home - Breaking News,

bbc.com

BBC

Register Sign In

Home News Sport Business Innovation Culture Travel Earth Video Live

What will be a row in our spreadsheet?

LIVE VP pick Walz to speak as Democrats deploy star guests

The Minnesota governor will run alongside presidential nominee Kamala Harris for November's US election.

Three things the Democrats have avoided so far at the DNC

What they have tried to avoid says as much about their weaknesses as what they choose to highlight, writes Anthony Zurcher.

2 hrs ago | US & Canada

- Day three of Democratic Convention features party's rising stars

▶ Obamas mock Trump over 'black jobs' and crowd sizes

Divers find five bodies in wreck of Sicily yacht

Gaza nurse says whole family, including quadruplets, killed in air strike

…ife and six children were …

5 hrs ago

Andrew Tate held overnight after police raid homes in Romania

The internet personality and his brother have been remanded in custody as part of a probe into new allegations.

44 mins ago | Europe

Ancient ocean of magma found on Moon south pole

The findings are from India's historic Chandrayaan-3 mission that landed on the Moon's south pole.

6 hrs ago | Science & Environment

▶ **German Navy blasts out Darth Vader theme on Thames**

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bbc.com

BBC

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LIVE VP pick Walz to speak as Democrats deploy star guests

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2 hrs ago | US & Canada

- Day three of Democratic Convention features party's rising stars
- Obamas mock Trump over 'black jobs' and crowd sizes

Gaz urse says whole fam y, i cluding quadruplets, kille in air trike

Ashraf El Attar's wife and six childr were killed when an air strike destroyed eir home in Deir al-Balah.

hrs ago | Middle East

ndrew Tate held ove ight after police raid homes in Roma ia

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44 mi go | Europe

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楽器・機材

ログイン 会員登録 出品

What will be a row in our spreadsheet?

絞り込み クリア

除外キーワー

カテゴリー

ホビー・楽器・アート

楽器・機材

すべて

ブランド

サイズ

価格

価格なし出品

あんしん鑑定

割引オプション

商品の状態

楽器・機材 の検索結果

↑↓ おすすめ順 この検索条件を保存する

kemper ホルン

¥28,000 korg kross61 電池駆動軽量化シンセ

¥3,800 iQ7 ステレオマイク Lightning接続 (修理品)

¥990 ギターストラップ　未使用

¥700 音楽之友社 うたとピアノの絵本 1 みぎて

¥1,500 バイオリン用　顎当て　黒檀　訳あり

¥40,000 YUCKY様専用 Pioneer DDJ-FLX4

¥880 ACアダプター JH35P1200150D

¥4,700 GoogleChromecast グーグル クロームキャスト …

¥55,000 日本（フジゲン）製 ibanez SR1000 フレッ…

¥8,500 SE ELECTRONICS DM1 DYNAMITE

https://jp.mercari.com/item/m97630098490

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楽器・機材

ログイン　会員登録　出品

絞り込み　クリア

除外キーワード

カテゴリー

ホビー・楽器・アート

楽器・機材

すべて

ブランド

サイズ

価格

価格なし出品

あんしん鑑定

割引オプション

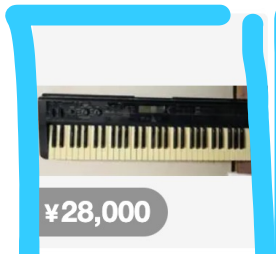
商品の状態

楽器・機材 の検索結果

販売中のみ表示

↑↓ おすすめ順　この検索条件を保存する

エフェクター　ジャンク　ベース　bare　fender　chase　パワーサプライ　オカリナ　kemper　ホルン


¥28,000
korg kross61 電池駆動軽量化シンセ


¥3,800
iQ7 ステレオマイク Lightning接続 (修理品)

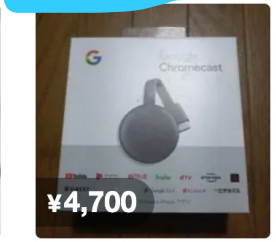

¥990
ギターストラップ　未使用


¥700
音楽之友社 うたとピアノの絵本 1 みぎて

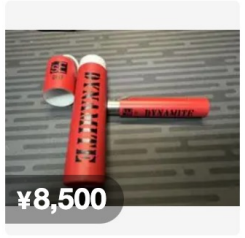

¥1,500
バイオリン用　顎当て　檀　訳あり

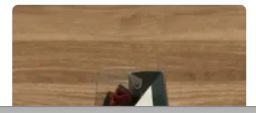

¥40,000
YUCKY様専用 Pioneer DDJ-FLX4

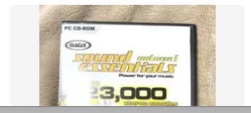

¥880
ACアダプター JH35P1200150D


¥4,700
GoogleChromecast グーグル クロームキャスト …


¥55,000
日本（フジゲン）製 ibanez SR1000 フレッ…


¥8,500
SE ELECTRONICS DM1 DYNAMITE





https://jp.mercari.com/item/m97630098490

What will be a column of data?

¥28,000

korg kross61 電池駆動軽量化シンセ

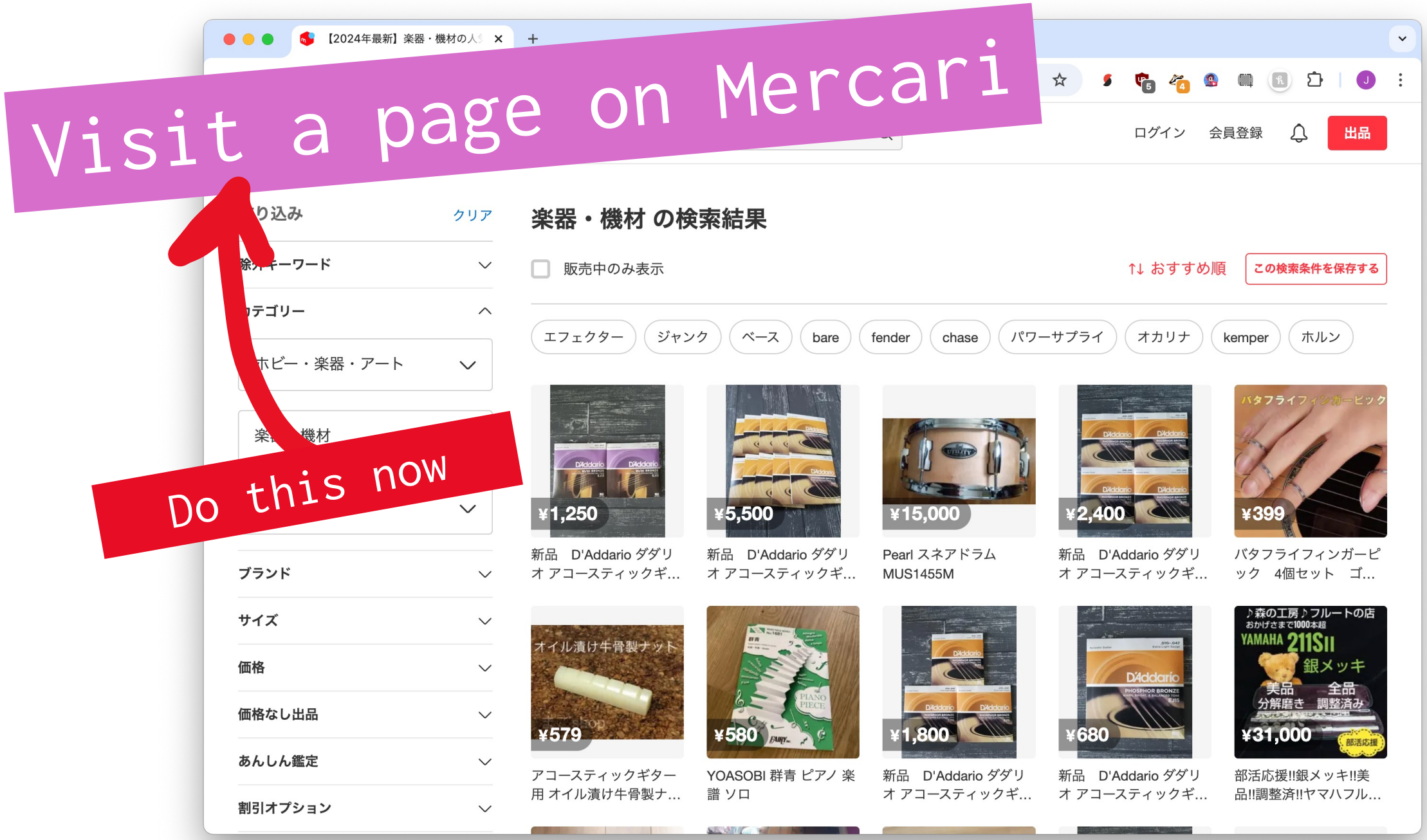
price

name

image

Computers don’t see like us (usually), we need to see

HTML code


Visit a page on Mercari
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【2024年最新】楽器・機材の人
ログイン
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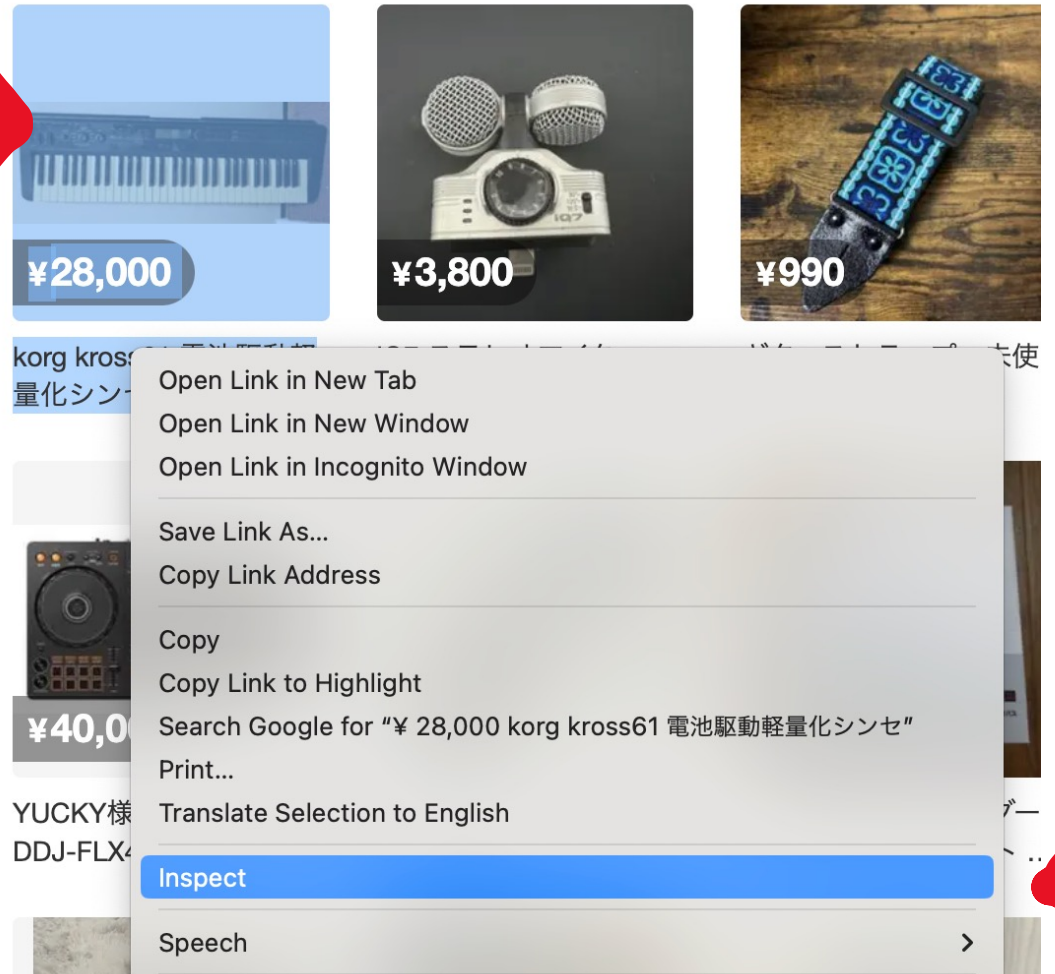
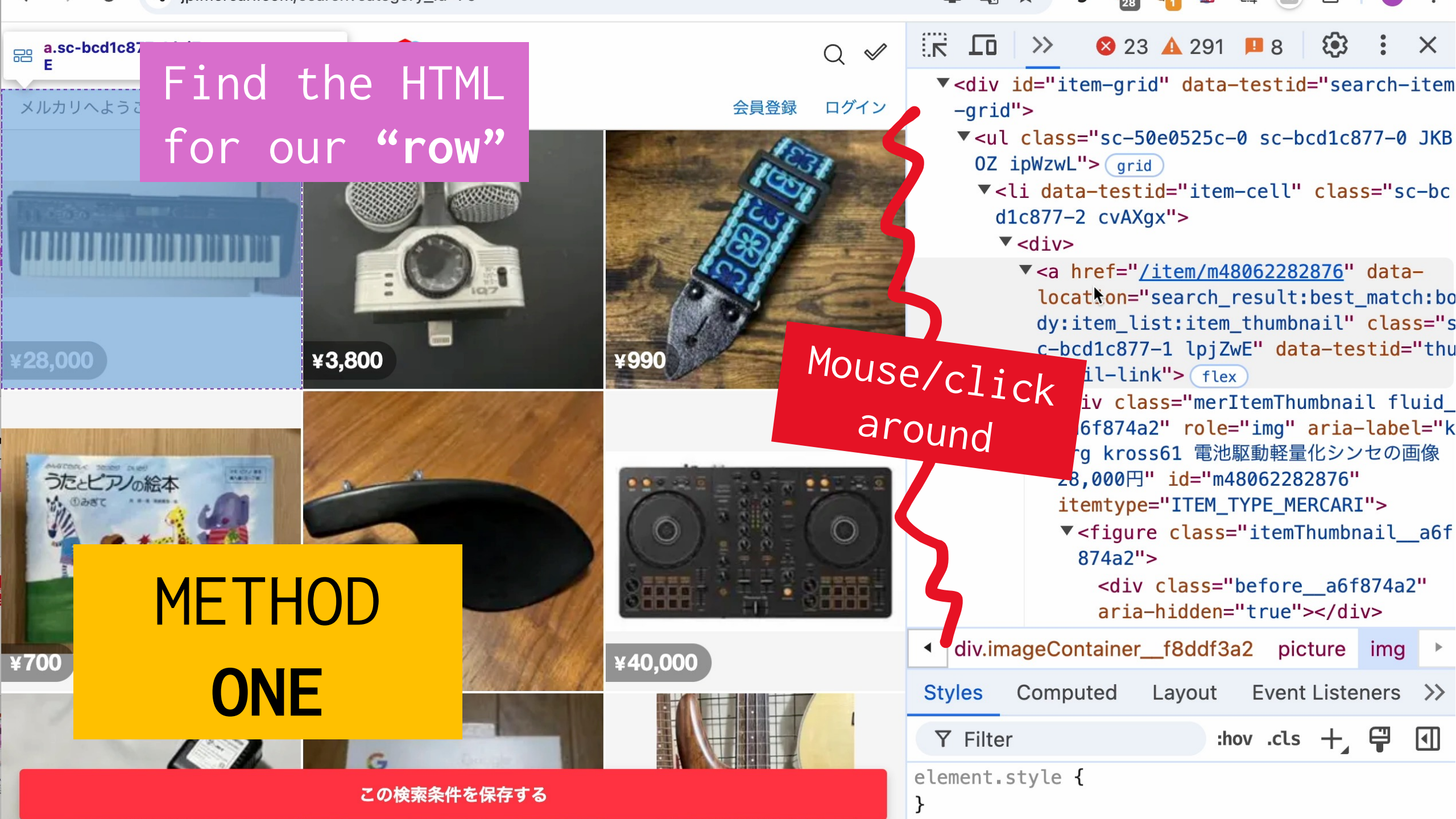
出品
り込み
クリア
除外キーワード
テゴリー
ホビー・楽器・アート
楽器・機材
ブランド
サイズ
価格
価格なし出品
あんしん鑑定
割引オプション
楽器・機材 の検索結果
販売中のみ表示
おすすめ順
この検索条件を保存する
エフェクター
ジャンク
ベース
bare
fender
chase
パワーサプライ
オカリナ
kemper
ホルン
¥1,250
新品　D'Addario ダダリオ アコースティックギ...
¥5,500
新品　D'Addario ダダリオ アコースティックギ...
¥15,000
Pearl スネアドラム MUS1455M
¥2,400
新品　D'Addario ダダリオ アコースティックギ...
バタフライフィンガーピック
¥399
バタフライフィンガーピック　4個セット　ゴ...
オイル漬け牛骨製ナット
¥579
アコースティックギター用 オイル漬け牛骨製ナ...
¥580
YOASOBI 群青 ピアノ 楽譜 ソロ
¥1,800
新品　D'Addario ダダリオ アコースティックギ...
¥680
新品　D'Addario ダダリオ アコースティックギ...
♪森の工房♪フルートの店
おかげさまで1000本超
YAMAHA 211SII
銀メッキ
美品　全品
分解磨き　調整済み
¥31,000
部活応援
部活応援!!銀メッキ!!美品!!調整済!!ヤマハフル...

Right click (or command+click) and **Inspect**



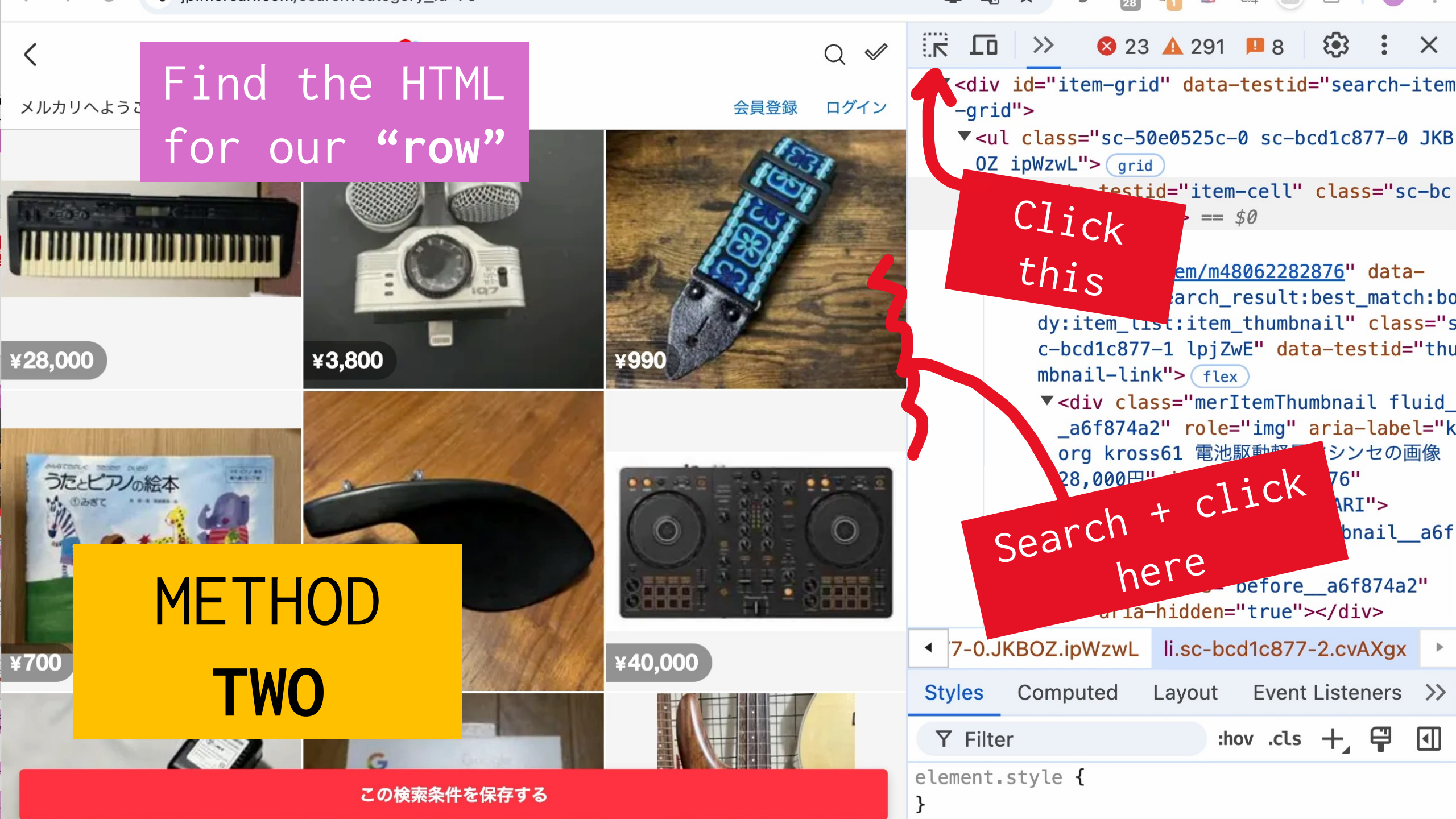
検証


Find the HTML for our “row”
Mouse/click around
METHOD ONE
¥28,000
¥3,800
¥990
¥700
¥40,000
会員登録
ログイン
この検索条件を保存する

<ul class="sc-50e0525c-0 sc-bcd1c877-0 JKBOZ ipWzwL">
grid
<li data-testid="item-cell" class="sc-bcd1c877-2 cvAXgx">

<a href="/item/m48062282876" data-location="search_result:best_match:body:item_list:item_thumbnail" class="sc-bcd1c877-1 lpjZwE" data-testid="thumbnail-link">
flex
div class="merItemThumbnail fluid_ 6f874a2" role="img" aria-label="k rg kross61 電池駆動軽量化シンセの画像 28,000円" id="m48062282876" itemtype="ITEM_TYPE_MERCARI">
<figure class="itemThumbnail__a6f874a2">

div.imageContainer__f8ddf3a2
picture
img
Styles
Computed
Layout
Event Listeners
Filter
:hov
.cls
element.style {
}


Find the HTML for our “row”
会員登録
ログイン
¥28,000
¥3,800
¥990
¥700
¥40,000
うたとピアノの絵本
①みずて
METHOD TWO
この検索条件を保存する
<div id="item-grid" data-testid="search-item
-grid">
<ul class="sc-50e0525c-0 sc-bcd1c877-0 JKB
OZ ipWzwL">
grid
testid="item-cell" class="sc-bc
== $0
em/m48062282876" data-
arch_result:best_match:bo
dy:item_list:item_thumbnail" class="s
c-bcd1c877-1 lpjZwE" data-testid="thu
mbnail-link">
flex
<div class="merItemThumbnail fluid_
_a6f874a2" role="img" aria-label="k
org kross61 電池駆動
シンセの画像
28,000円
76"
ARI">
bnail__a6f
before__a6f874a2"
aria-hidden="true">
Click this
Search + click here
7-0.JKBOZ.ipWzwL
li.sc-bcd1c877-2.cvAXgx
Styles
Computed
Layout
Event Listeners
Filter
:hov
.cls
element.style {
}

amazon.com search results

Headlines from Nikkei Asia

items on Mercari

Now try it.

Sales at Lidl

Anywhere!!!!

Wikipedia's Fictional Big Cats

List of amphibians from Germany's Red List Center

School Board Minutes from Grand Island Public Schools in Nebraska

Scraping is just

connecting to

organizing columns in

your spreadsheet

But we need some software to do that for us!

What software?

All Images Videos News Books Web Finance Tools

Scraping libraries

From sources across the web

- Selenium
- Beautiful Soup
- Scrapy
- Lxml
- Requests
- MechanicalSoup
- Playwright
- Puppeteer
- Urllib3
- ZenRows S.L.
- Cheerio

[–] **Swingbiter** **70 points** 2 years ago

Learn the basic html elements that build up a website.

[–] **coventous** **22 points** 2 years ago

I recommend checking

[–] **NerdvanaNC** **1 point** 2 years ago

Look into learning and understanding HTML, then BeautifulSoup and Selenium.

[–] **luizv4z** **12 points** 2 years ago

From my own research, run away from Selenium. The right direction is CDP (Chrome Developers

```
all_links = soup.find_all(
```

[–] **ned334** **5 points** 2 years ago

Google "Selenium find_element(By.XPATH, '/XPATH/')"

All elements have an XPath that you can copy from chrome by Inspect -> right click on code block -> copy full Xpath.

Scraping solved

permalink source embed save save-RES report reply

[–] **riisen** **3 points** 2 years ago

for small projects use built in module

for bigger projects go with scrapy, its am

permalink source embed save save-RES

Do python on them

P.S.

permalink source embed save save-RES report reply hide child comments

Selenium is **garbage!**

…but BeautifulSoup

can't scrape all sites.

Amazon.com : rubber ducks

amazon.com/s?k=rubber+ducks&crid=126R7EQI3ZJ1A&sprefix=rubber+ducks%2Caps%2C268&ref=nb_sb_noss_1

Top discounts for you

Page 1 of 3

Continental Grand Prix 5000 Rennrad Faltreifen // 28-622 (700x28C)
★★★★½ 85
400+ viewed in past month
$66.00
prime FREE Delivery **Friday, Aug 23**

Wink Super X-Large Ultra Thin Lubricated Latex Condoms, Premium Latex for Smooth and Natural…
★★★★½ 76
100+ viewed in past month
$14.99 ($0.30/Count)
prime FREE Delivery **Friday, Aug 23**

Assortment Rubber Ducks in Bulk, 50-Pack Assorted Mini Duckies Toy for Ducking Cruise Ships, 2"…
★★★★½ 328
5K+ viewed in past month
$24.99
prime **Overnight by 8:00 AM**

50 Pack Rubber Ducks in Bulk, Jeep Ducks for Ducking, Assorted Rubber Ducks Jeep Ducking, Bab…
★★★★½ 569
4K+ viewed in past month
$21.89
prime **Overnight by 8:00 AM**

ArtCreativity Assorted Rubber Ducks Jeep Ducking (100Pack) - Rubber Ducki…
★★★★½ 982
700+ viewed in past month
20% off **Limited time deal**
$39.98
List: ~~$49.99~~
prime **Today by 10:00 PM**

Kicko Assorted Rubber Ducks with Mesh Bag - 50 Ducklings, 2 Inch – Jeep Ducks for Kids, Baby Bath…
★★★★½ 2,543
2K+ viewed in past month
$28.99
prime FREE Delivery **Saturday, Aug 24**

Glitter Rubber Ducks in Bulk - (Pack of 50) Assorted 2-inch Duck Toys for Baby Shower Rubber Duckies,…
★★★★★ 308
1K+ viewed in past month
$26.79
prime **Today by 10:00 PM**

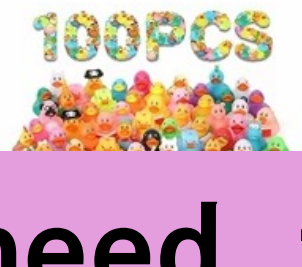
Bulk savings to consider

Page 1 of 7

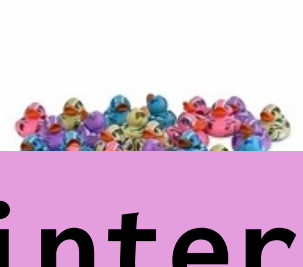
Chochkees Asso… Ducks Toy Duckies for Kids and Toddlers, Bath Birthday Baby Showers Classroom,…
★★★★½ 1,155

Rubber Ducks Jeep Ducking (50 Pack) - Rubber Duckie…
★★★★½ 982
100+ viewed in past month

Set, Mini Colorful Rubber Duckies Bath Toy for Child,Float & Squeak Tiny…
★★★★½ 763



Bulk, Jeep Ducks for Ducking, Assorted Rubber Ducks Jeep Ducking, Bab…
★★★★½ 569

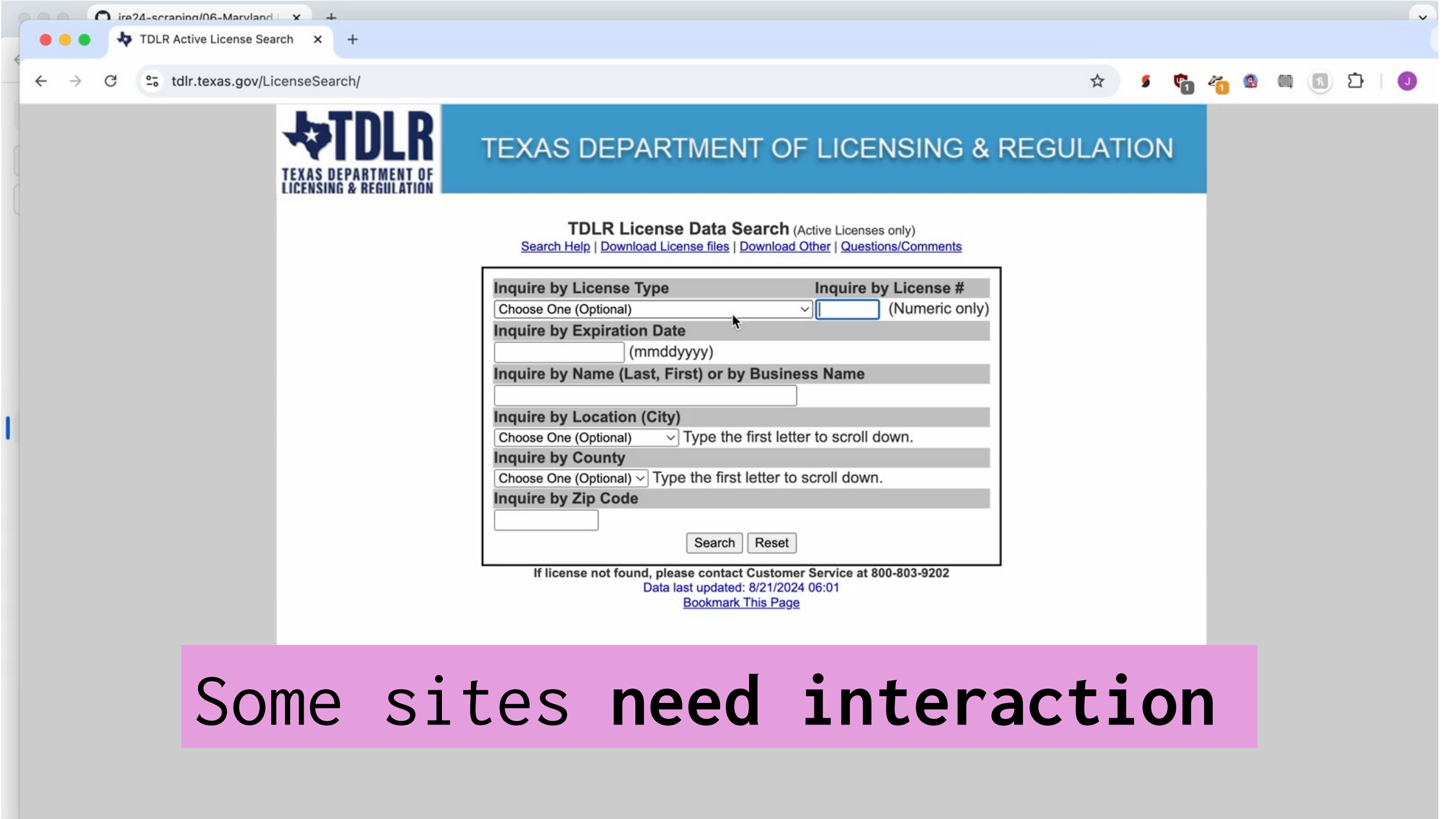


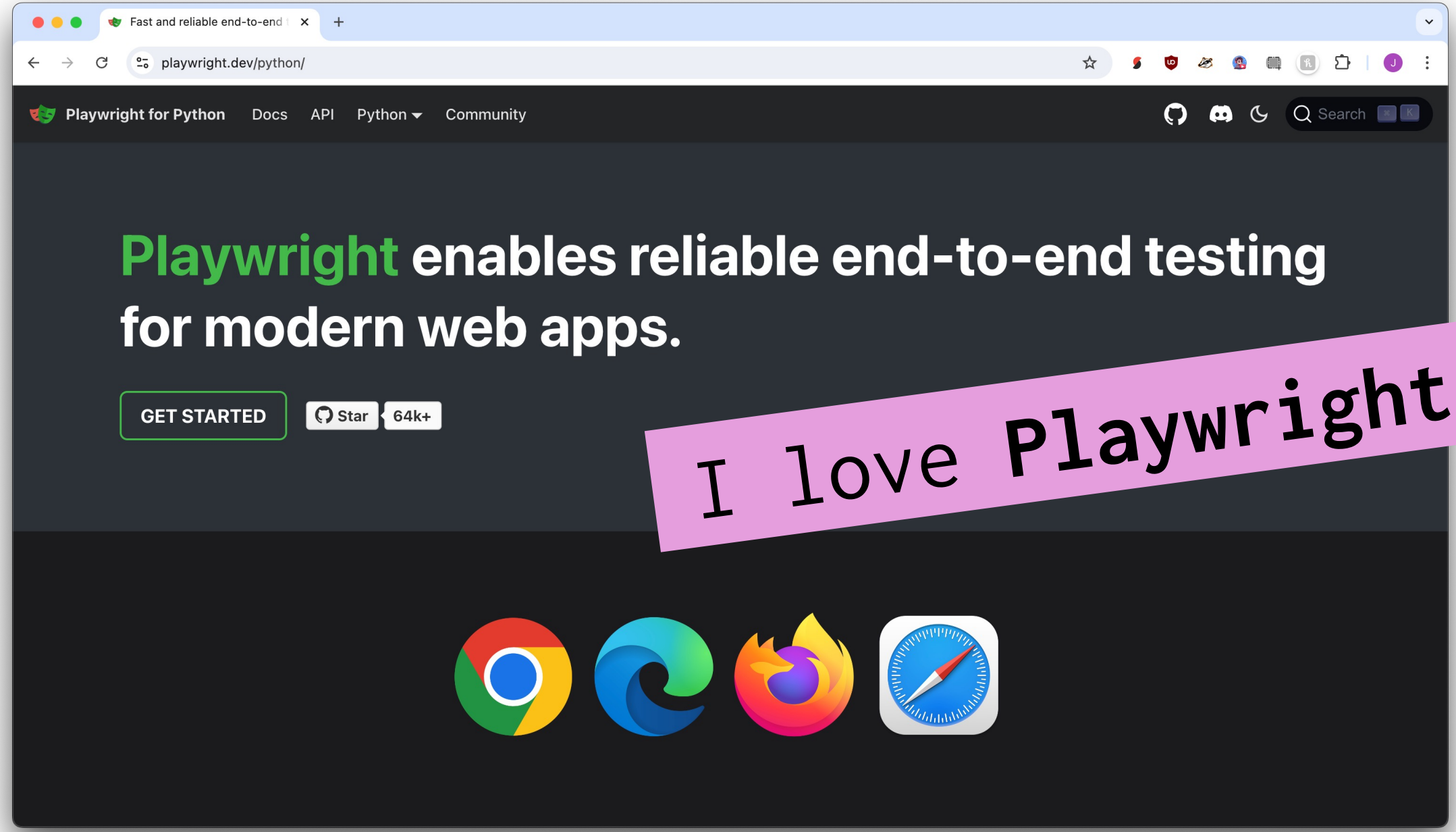
Ducks: Fun Unique Military-Inspired Bath Toys for Jeep Ducking or Play - 2 inches
800+ viewed in past month

Bulk, Jeep Ducks for Ducking, Assorted Rubber Ducks for Jeeps, Bath Toy…
★★★★½ 569

Company Glitter Rubber Duck Toy Assortment Duckies for Kids, Bath Birthday Gifts…
★★★★½ 1,094

Some sites need interaction


TDLR Active License Search
tdlr.texas.gov/LicenseSearch/
TDLR
TEXAS DEPARTMENT OF LICENSING & REGULATION
TEXAS DEPARTMENT OF LICENSING & REGULATION
TDLR License Data Search (Active Licenses only)
Search Help | Download License files | Download Other | Questions/Comments
Inquire by License Type
Inquire by License #
Choose One (Optional)
(Numeric only)
Inquire by Expiration Date
(mmddyyyy)
Inquire by Name (Last, First) or by Business Name
Inquire by Location (City)
Choose One (Optional)
Type the first letter to scroll down.
Inquire by County
Choose One (Optional)
Type the first letter to scroll down.
Inquire by Zip Code
Search
Reset
If license not found, please contact Customer Service at 800-803-9202
Data last updated: 8/21/2024 06:01
Bookmark This Page
Some sites need interaction

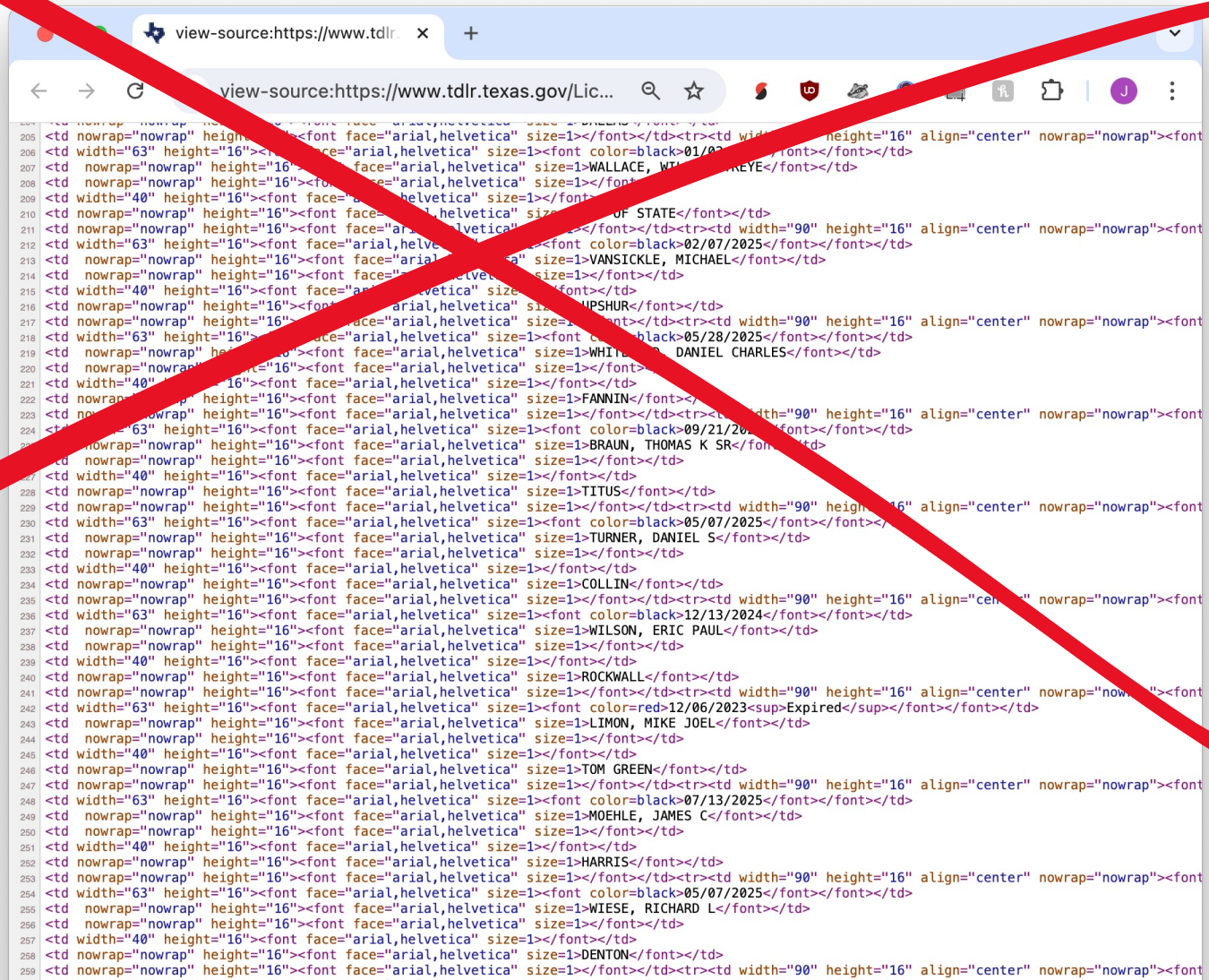

Fast and reliable end-to-end
playwright.dev/python/
Playwright for Python
Docs
API
Python
Community
Search
Playwright enables reliable end-to-end testing for modern web apps.
GET STARTED
Star
64k+
I love Playwright!

Playwright is **perfect**!
But! It's **new**, so
ChatGPT isn't very good
at it. *But!* We try.

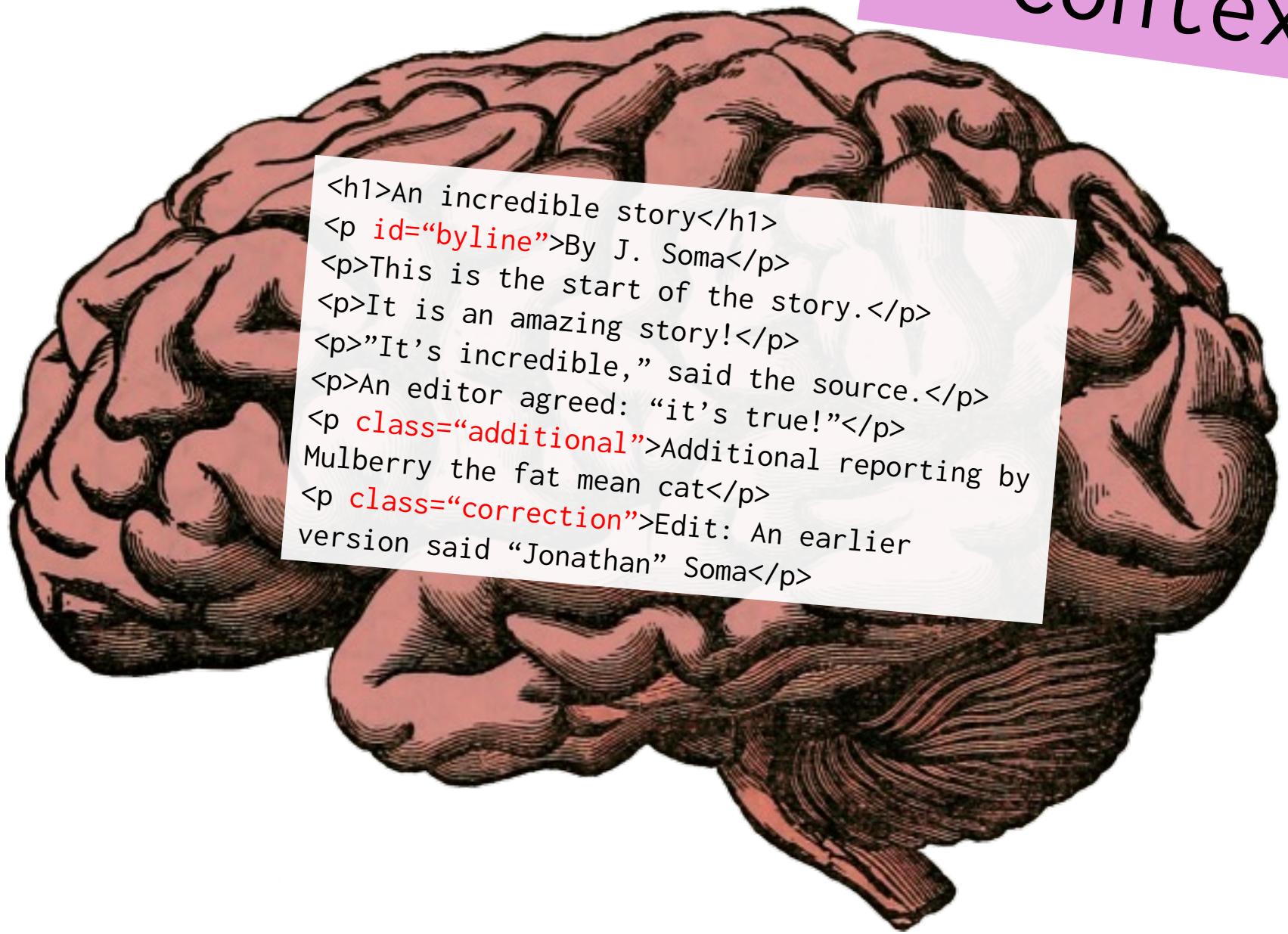
Playwright + ChatGPT + pasting samples of HTML =

infinite scrapers 

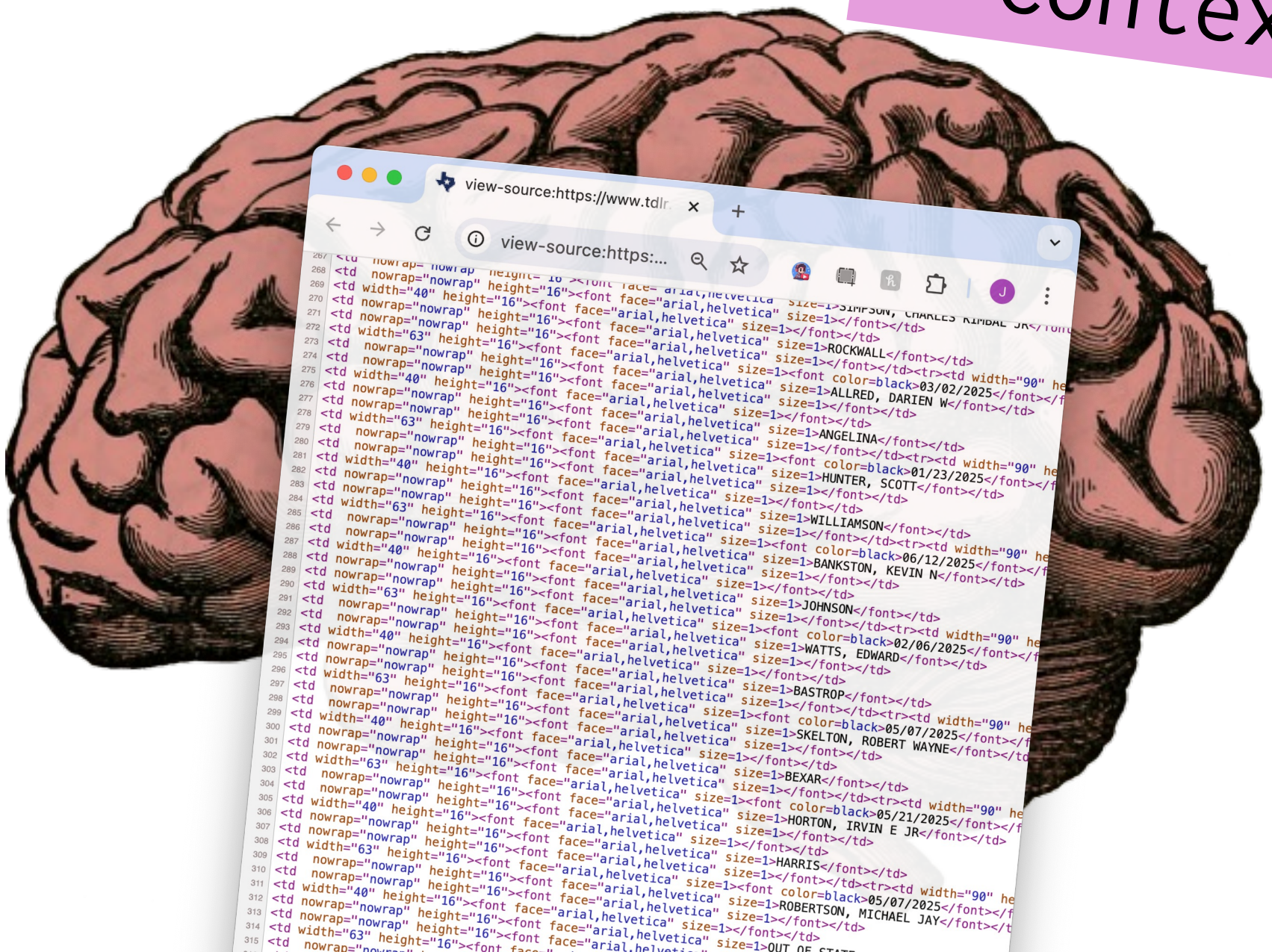
“Write a scraper for these search results:”



“Context window”



```
<h1>An incredible story</h1>
<p id="byline">By J. Soma</p>
<p>This is the start of the story.</p>
<p>It is an amazing story!</p>
<p>"It's incredible," said the source.</p>
<p>An editor agreed: "it's true!"</p>
<p class="additional">Additional reporting by
Mulberry the fat mean cat</p>
<p class="correction">Edit: An earlier
version said "Jonathan" Soma</p>
```

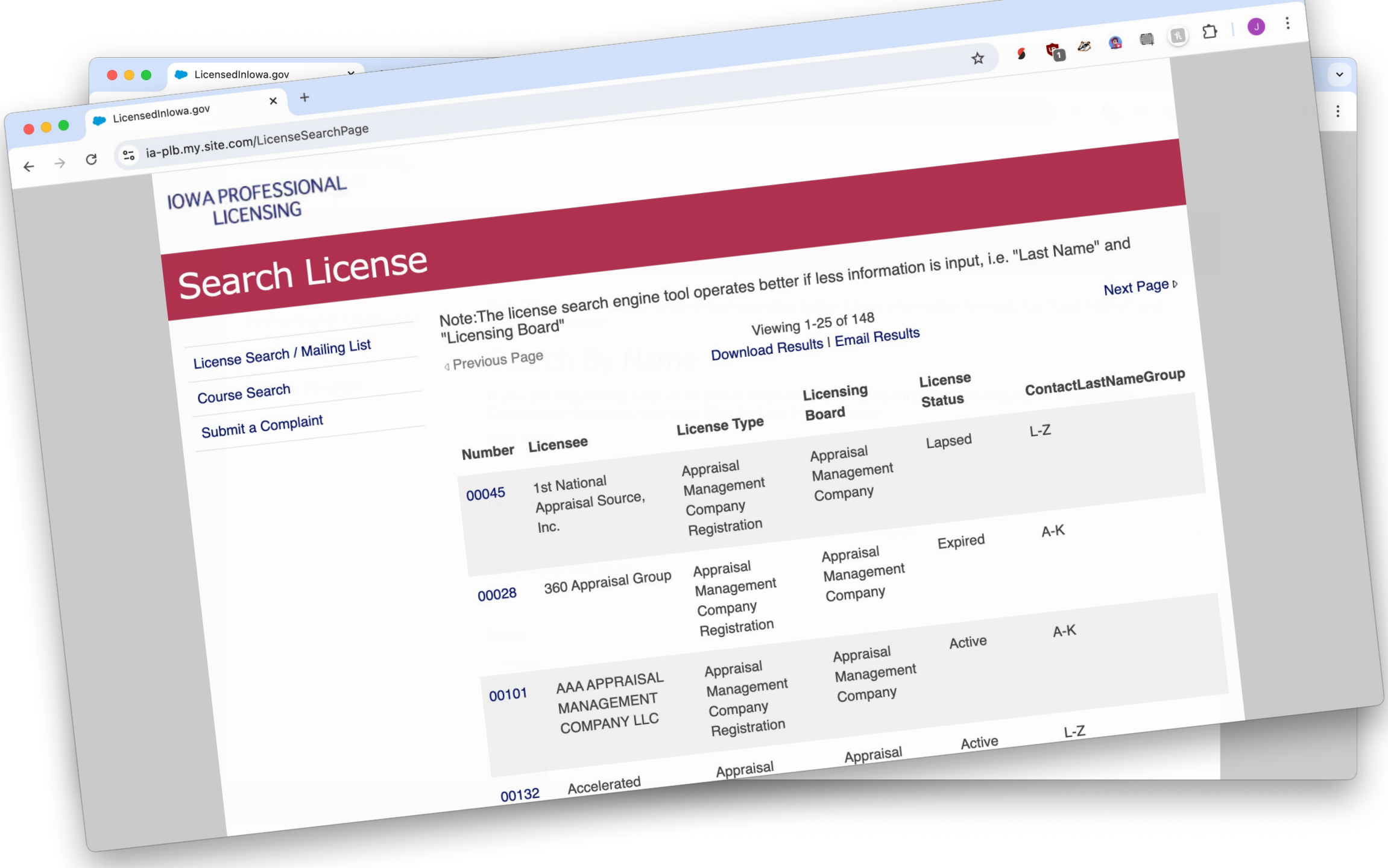

“Context window”
view-source:https://www.tdlr
view-source:https:...

What we might need:

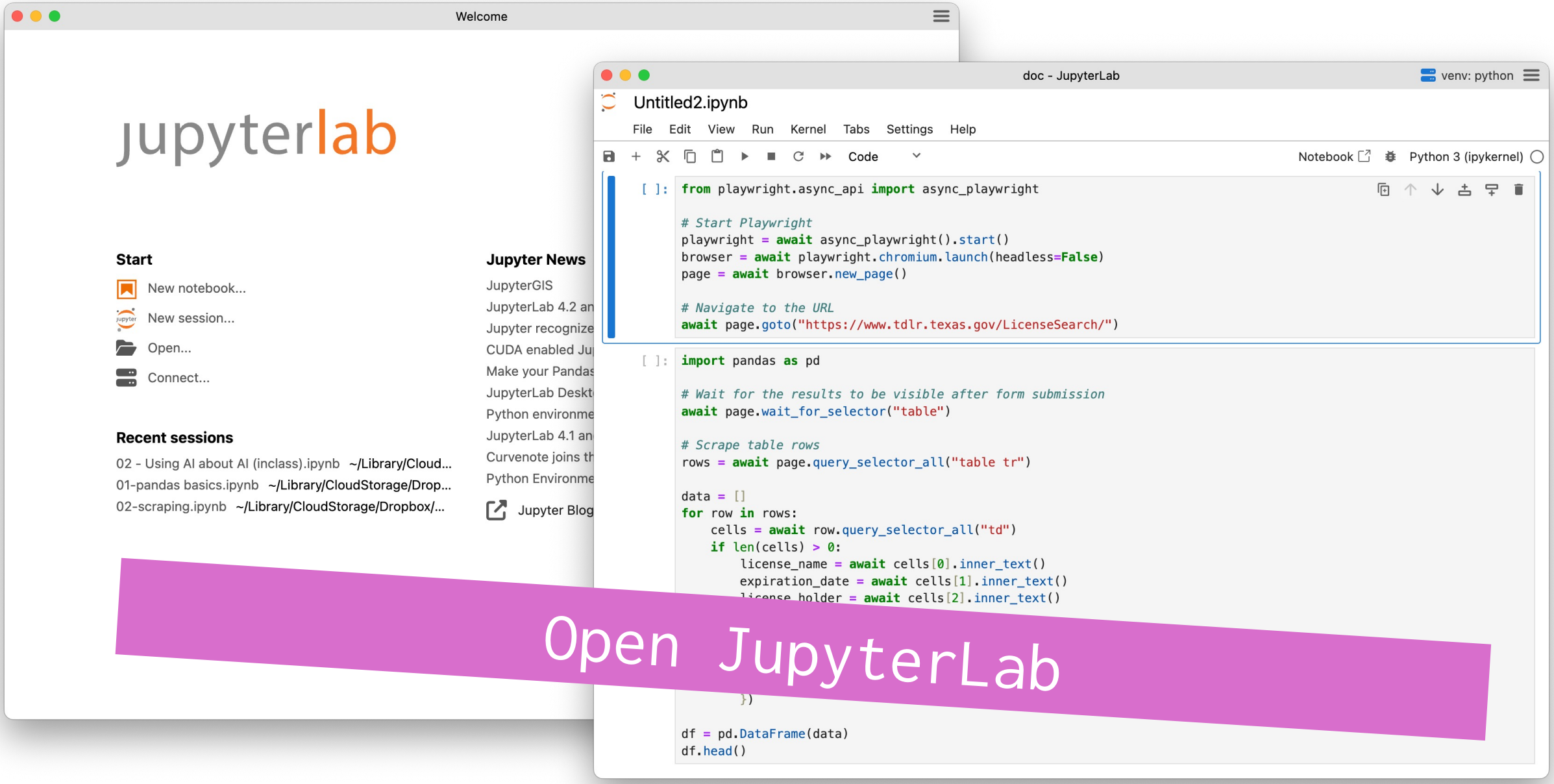
- Start URL
- Forms to fill out *(optional)*
- “Rows” of our spreadsheet
- Pagination/”next” pages *(optional)*
- A **magical prompt**

https://bit.ly/ds-dojo-2024

First, sit and relax
and **read the notes**
while watching me

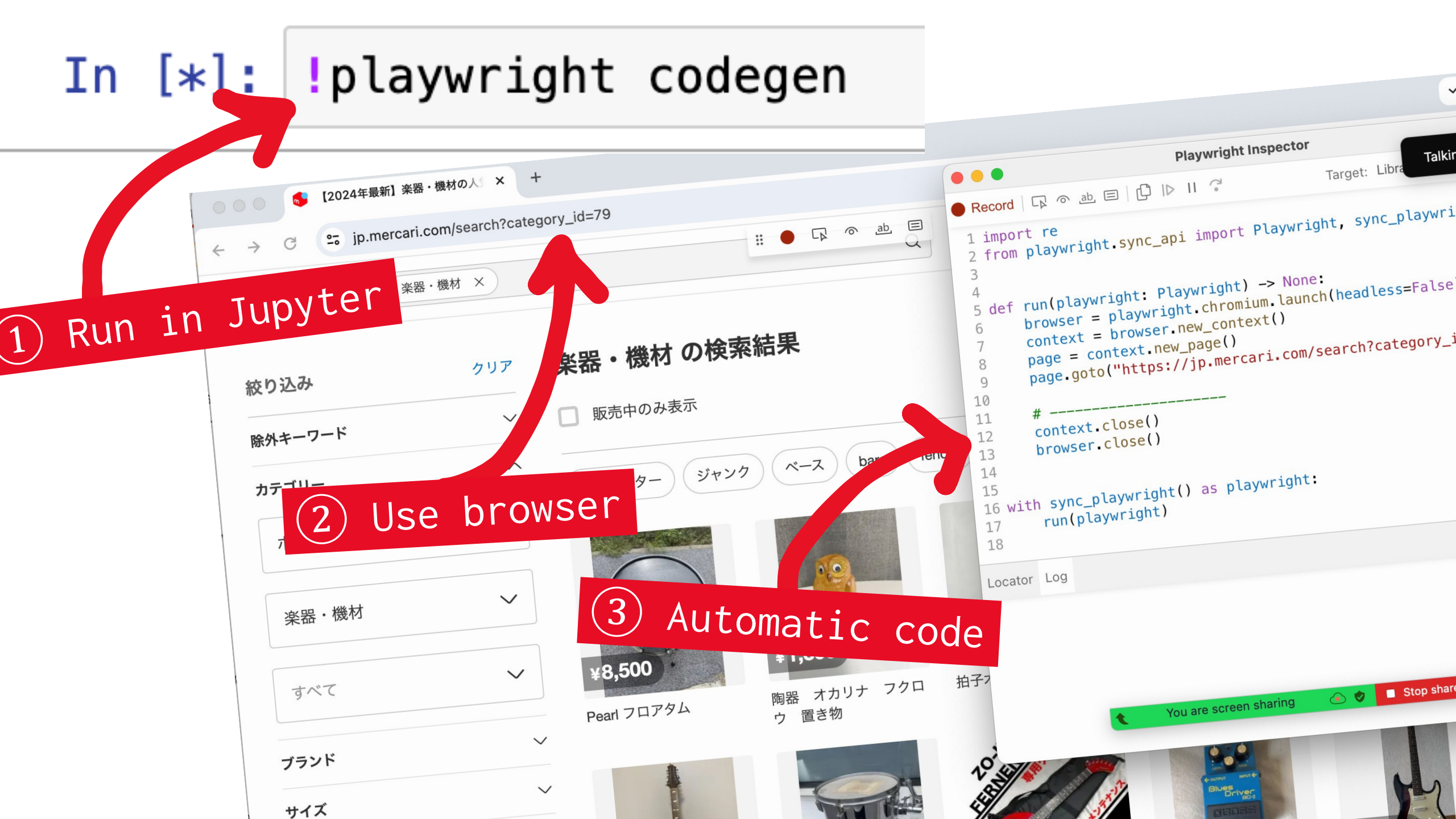

LicensedInIowa.gov
LicensedInIowa.gov
ia-plb.my.site.com/LicenseSearchPage
IOWA PROFESSIONAL LICENSING
Search License
License Search / Mailing List
Course Search
Submit a Complaint
Note:The license search engine tool operates better if less information is input, i.e. "Last Name" and "Licensing Board"
Previous Page
Viewing 1-25 of 148
Download Results | Email Results
Next Page
Number
Licensee
License Type
Licensing Board
License Status
ContactLastNameGroup
00045
1st National Appraisal Source, Inc.
Appraisal Management Company Registration
Appraisal Management Company
Lapsed
L-Z
00028
360 Appraisal Group
Appraisal Management Company Registration
Appraisal Management Company
Expired
A-K
00101
AAA APPRAISAL MANAGEMENT COMPANY LLC
Appraisal Management Company Registration
Appraisal Management Company
Active
A-K
00132
Accelerated
Appraisal
Appraisal
Active
L-Z

Visit https://bit.ly/ds-dojo-2024 for material

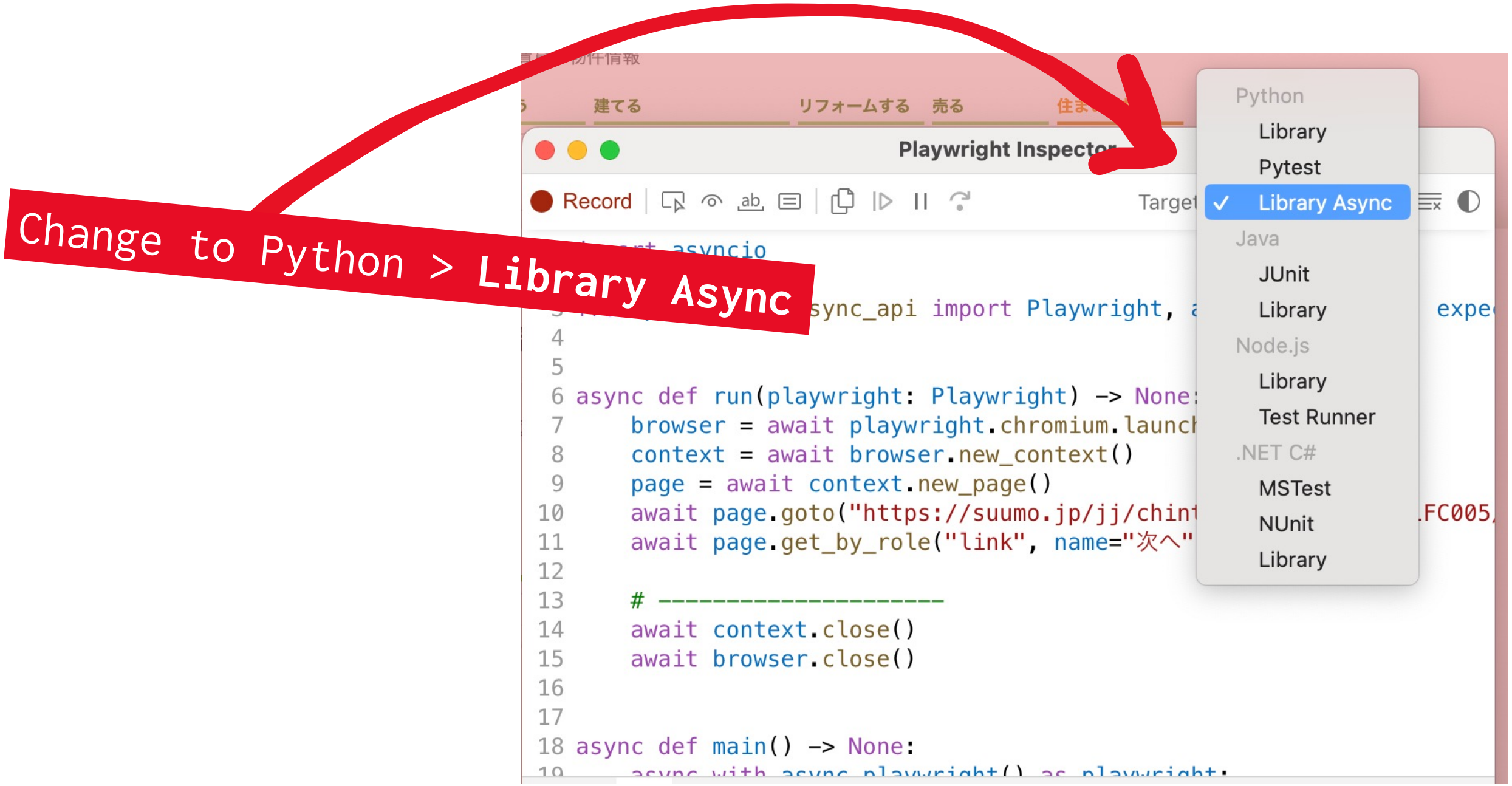


https://bit.ly/ds-dojo-2024

Now open a new notebook and you try!


In [*]: !playwright codegen
① Run in Jupyter
② Use browser
③ Automatic code
【2024年最新】楽器・機材の人
jp.mercari.com/search?category_id=79
楽器・機材
絞り込み
クリア
除外キーワード
カテゴリー
楽器・機材
すべて
ブランド
サイズ
楽器・機材 の検索結果
販売中のみ表示
ジャンク
ベース
¥8,500
Pearl フロアタム
陶器 オカリナ フクロウ 置き物
Playwright Inspector
Record
Target:
1 import re
2 from playwright.sync_api import Playwright, sync_playwri
3
4
5 def run(playwright: Playwright) -> None:
6 browser = playwright.chromium.launch(headless=False
7 context = browser.new_context()
8 page = context.new_page()
9 page.goto("https://jp.mercari.com/search?category_i
10
11 # ---------------------
12 context.close()
13 browser.close()
14
15
16 with sync_playwright() as playwright:
17 run(playwright)
18
Locator
Log
You are screen sharing
Stop share


In [*]: !playwright codegen
① Run in Jupyter
② Use browser
③ Automatic code
【SUUMO】東京都千代田区の賃
suumo.jp/jj/chintai/ichiran/FR301FC005/?sc=13101&ar=030&bs=040&sd=1&ta=13&ts=1&page=2
検索条件
閲覧履歴
会員登録
ログイン
SUUMO
全国へ
関東
借りる
賃貸
マンションを買う
新築
中古
一戸建てを買う
新築
中古
建てる
注文住宅
リフォームする
売る
住まいの相談
不動産・住宅サイト SUUMO > 賃貸 > 東京都 > 千代田区 > 千代田区の賃貸マンション<部屋ごとに表示> >
建物ごとに表示
部屋ごとに表示
19,988件
並び替え
おすすめ順
アルプエンテ大手町
パノラマ
20万円
敷 20万円
礼 20万円
1LDK
44.58m²
Playwright Inspector
Record
Target: Library Async
1 import asyncio
2 import re
3 from playwright.async_api import Playwright, async_playwright, expe
4
5
6 async def run(playwright: Playwright) -> None:
7 browser = await playwright.chromium.launch(headless=False)
8 context = await browser.new_context()
9 page = await context.new_page()
10 await page.goto("https://suumo.jp/jj/chintai/ichiran/FR301FC005
11 await page.get_by_role("link", name="次へ").click()
12
13 # ---------------------
14 await context.close()
15 await browser.close()
16
17
18 async def main() -> None:
Log


Change to Python > Library Async
建てる
リフォームする
売る
Playwright Inspector
Record
Target
Python
Library
Pytest
Library Async
Java
JUnit
Library
Node.js
Library
Test Runner
.NET C#
MSTest
NUnit
Library
import asyncio
sync_api import Playwright,
async def run(playwright: Playwright) -> None:
browser = await playwright.chromium.launch
context = await browser.new_context()
page = await context.new_page()
await page.goto("https://suumo.jp/jj/chint
await page.get_by_role("link", name="次へ"
----
await context.close()
await browser.close()
async def main() -> None:

Visit https://bit.ly/ds-dojo-2024 for material

Practice time!

Mercari
SUUMO
you choose a site

Scraping!

stealing data from the internet for fun (and investigations!)