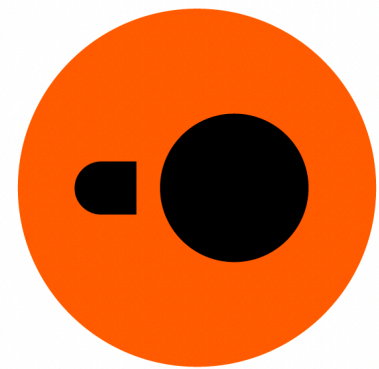


Going Beyond Two Tier Data Architectures With DuckDB

Co-Founder & CEO

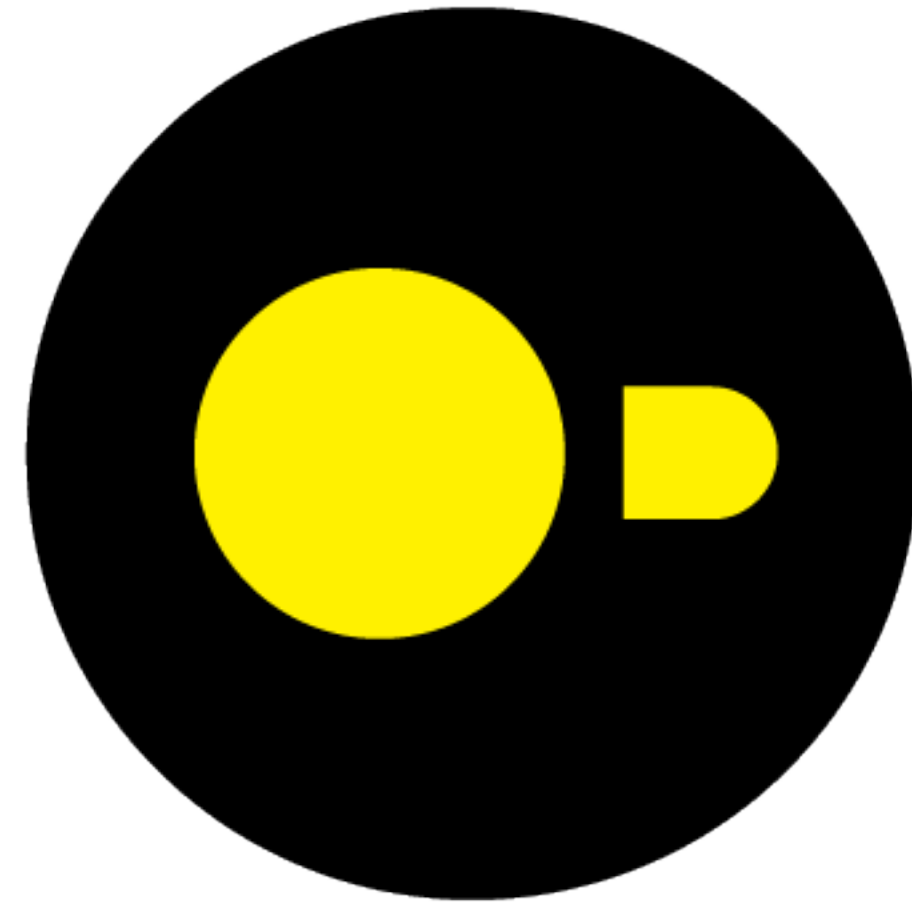


DuckDB Labs

Professor

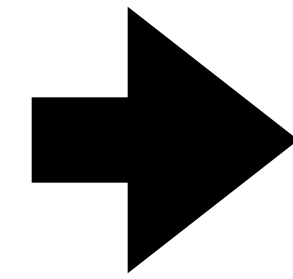


Radboud Universiteit Nijmegen



DuckDB

Data Fear



Data Confidence

User
Experience



DBMS
Engine





Fast



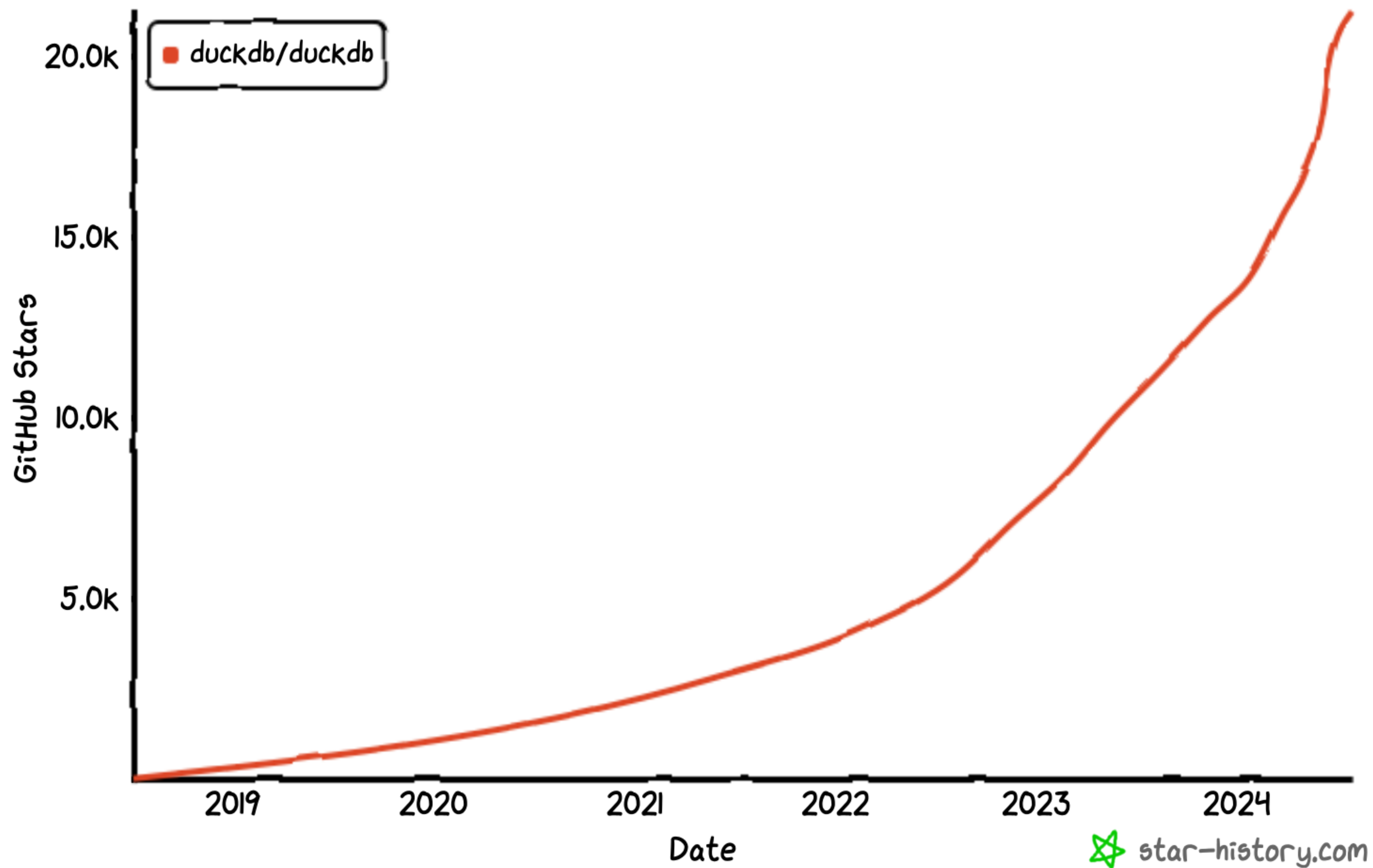
Alexander Doria

@Dorialexander

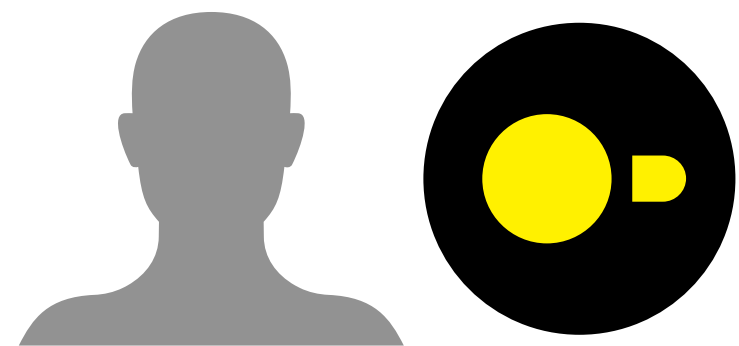
AI aside, [@duckdb](#) is probably the most magical piece of technology of recent years.

8:37 AM · Aug 14, 2024 · **5,312** Views

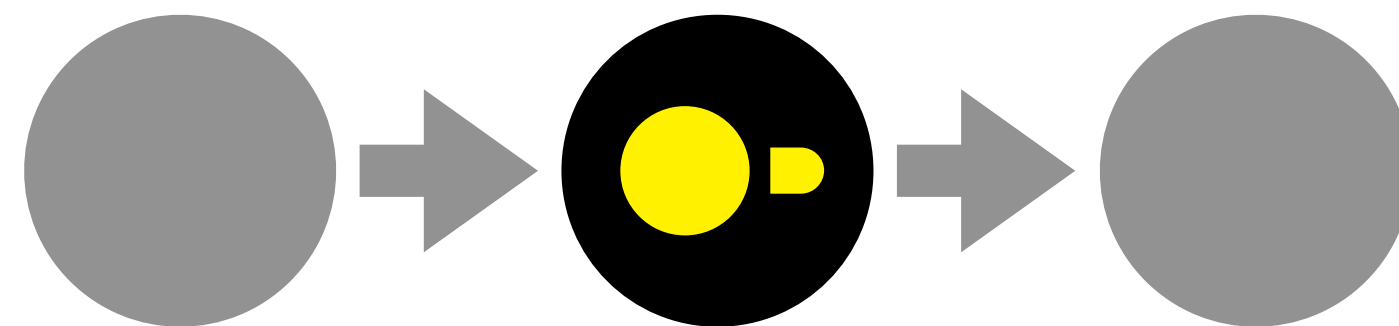
Free!



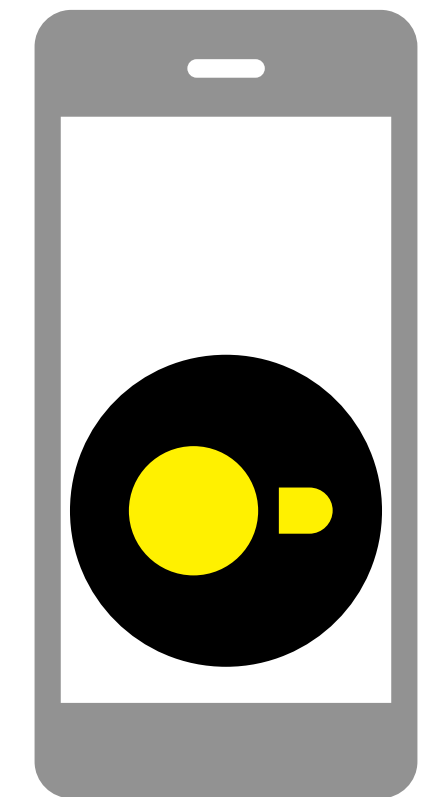
Interactive Analysis

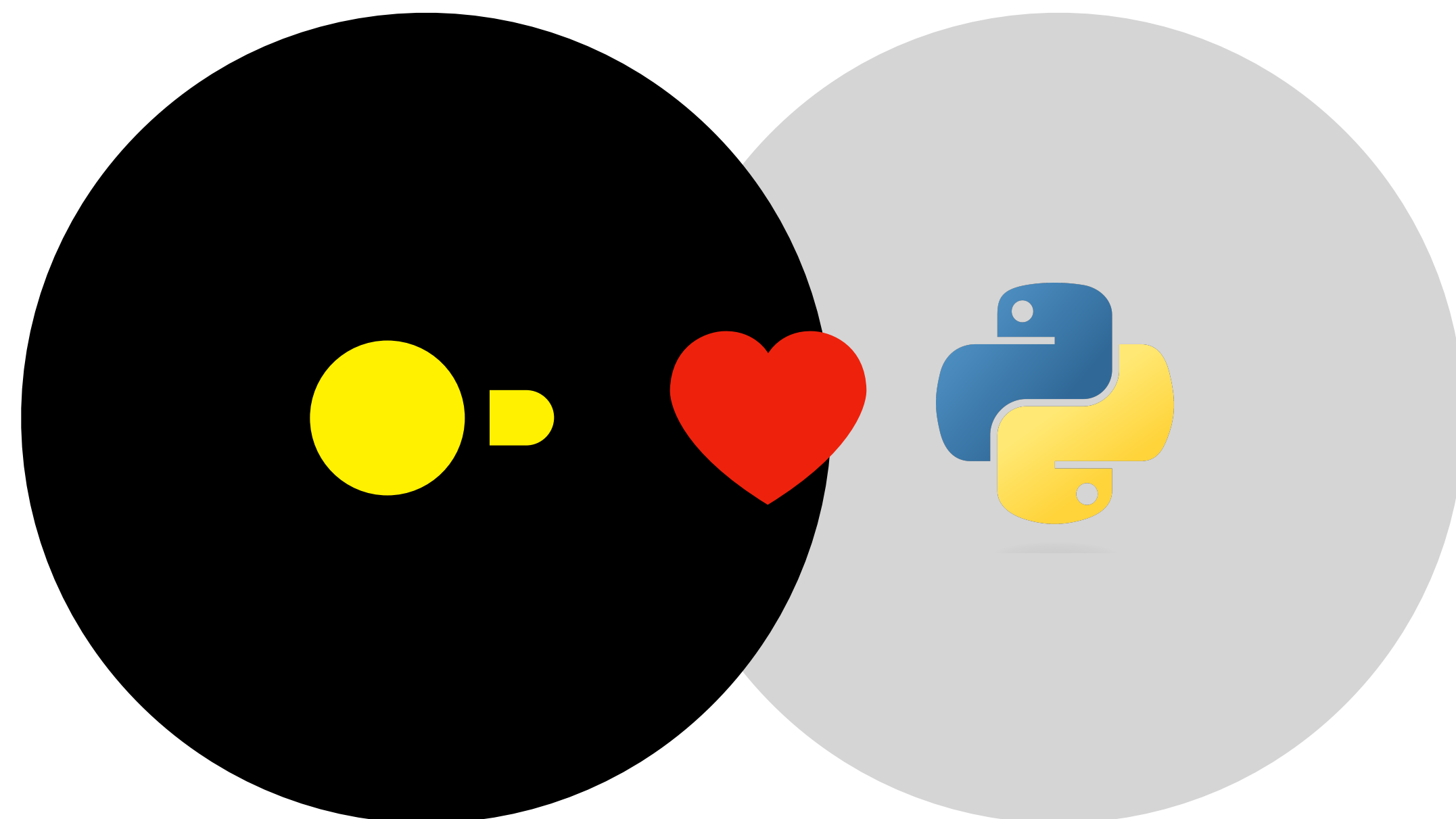


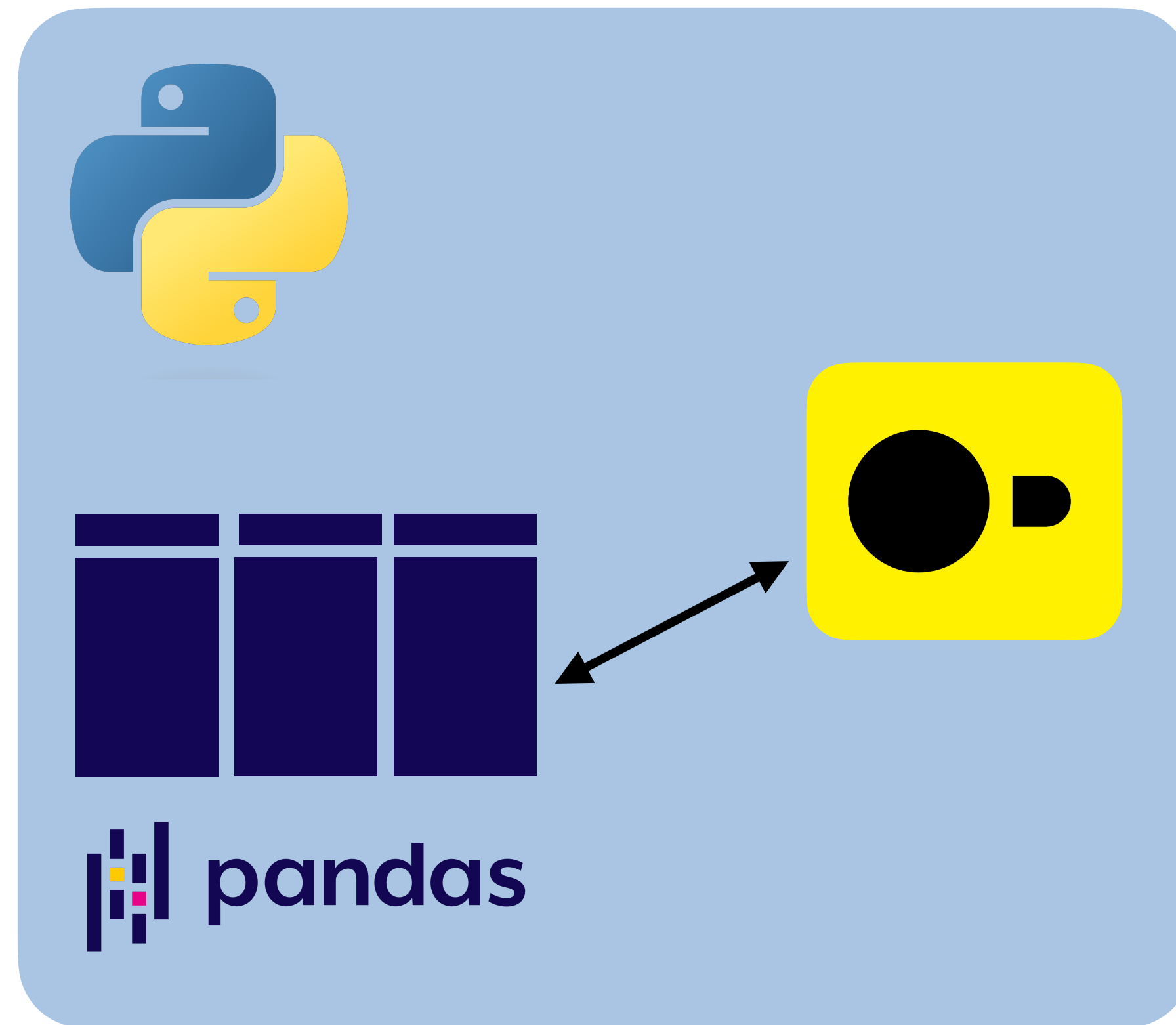
Pipeline Component



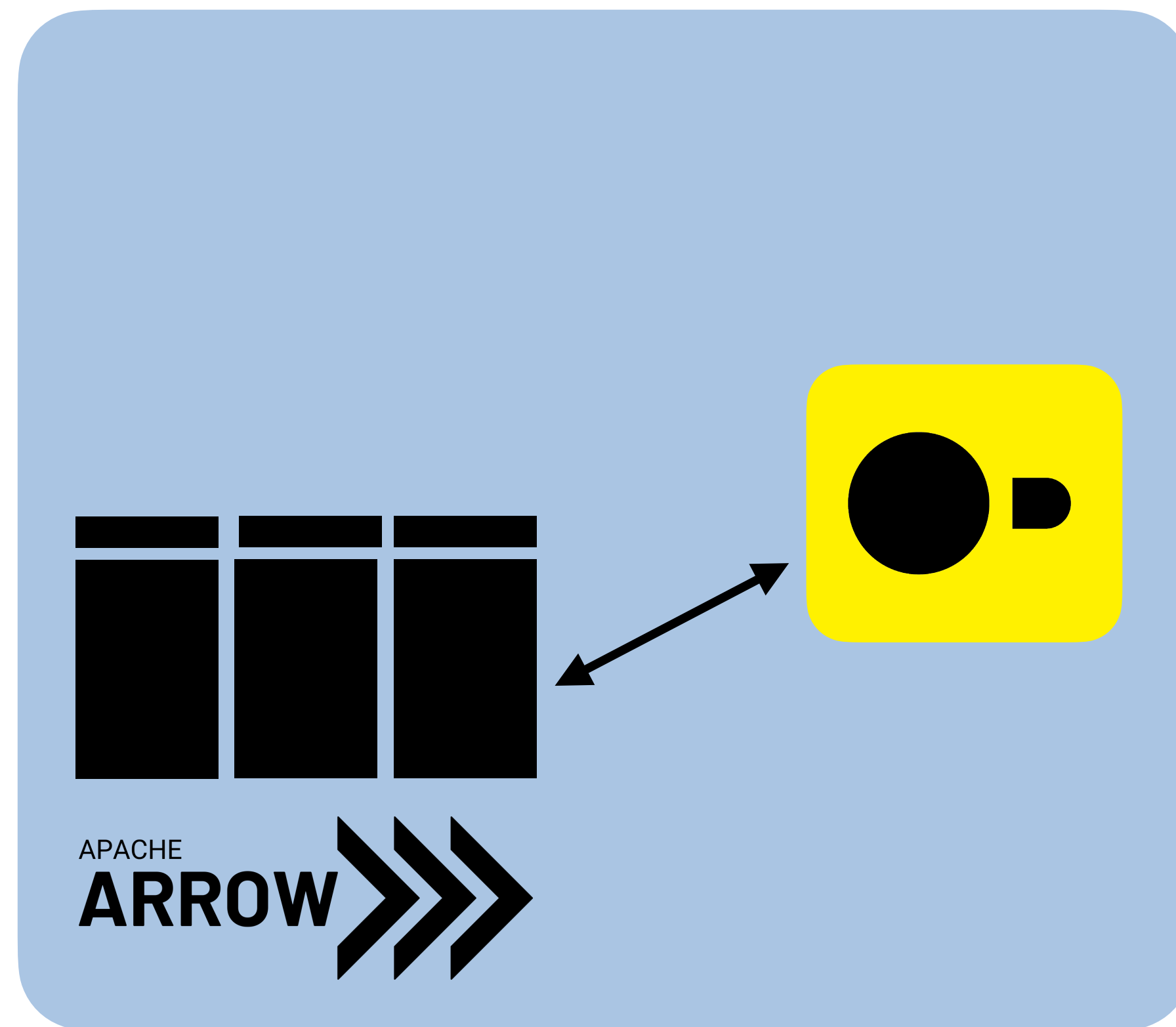
“Creative” Architecture



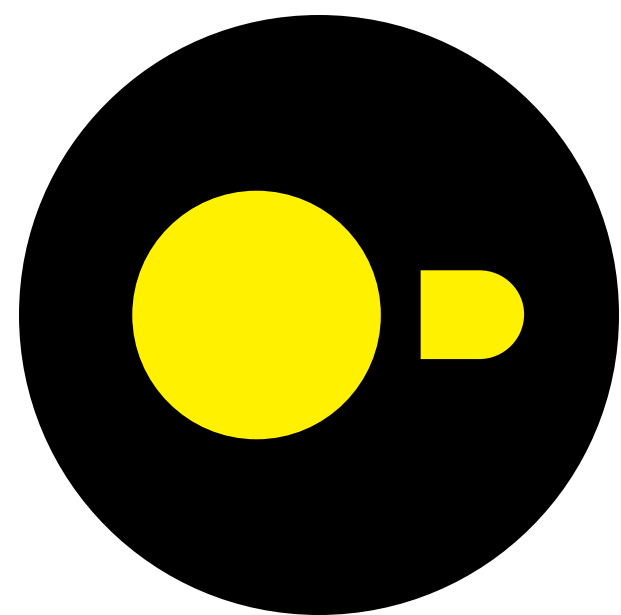


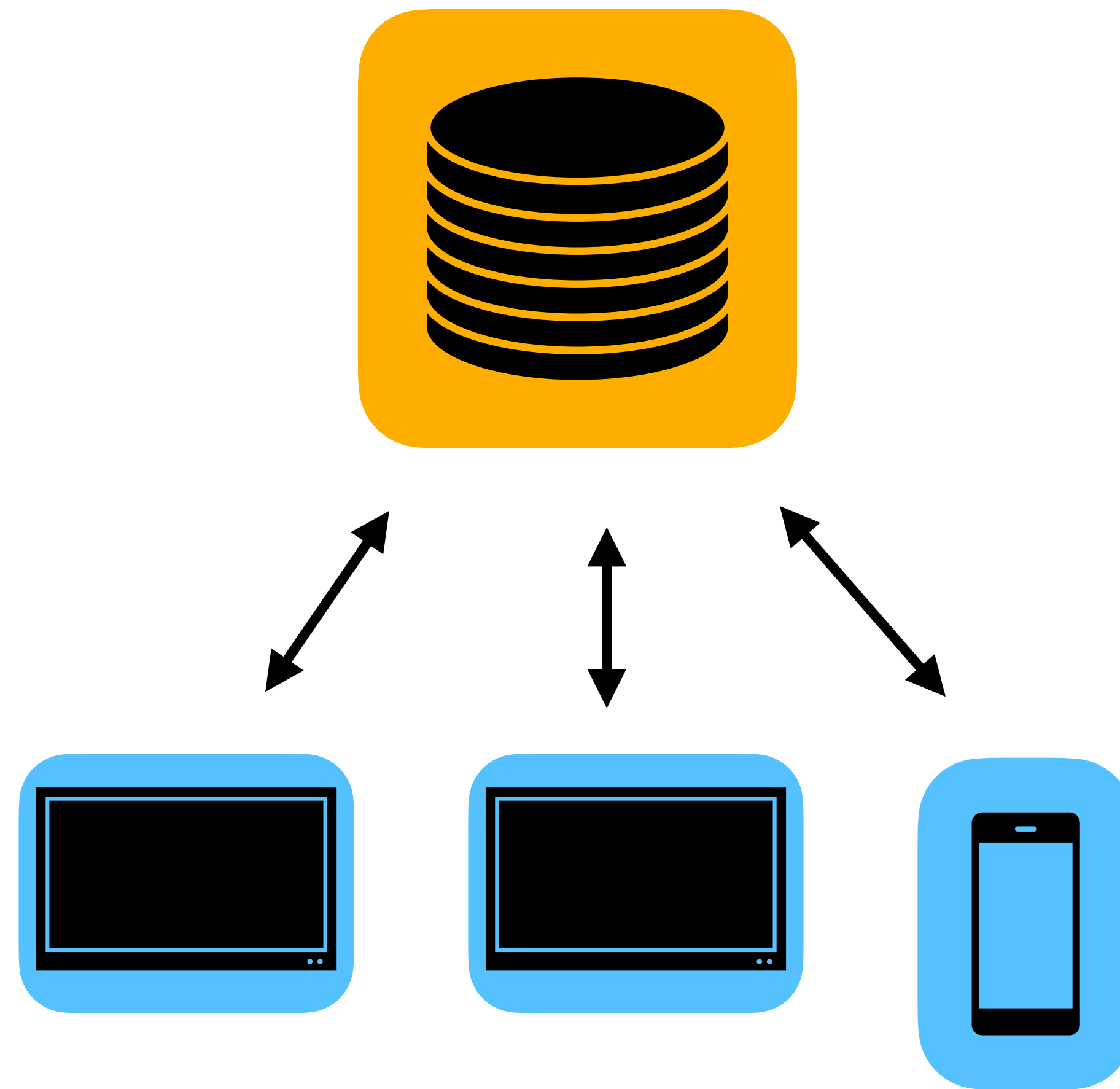


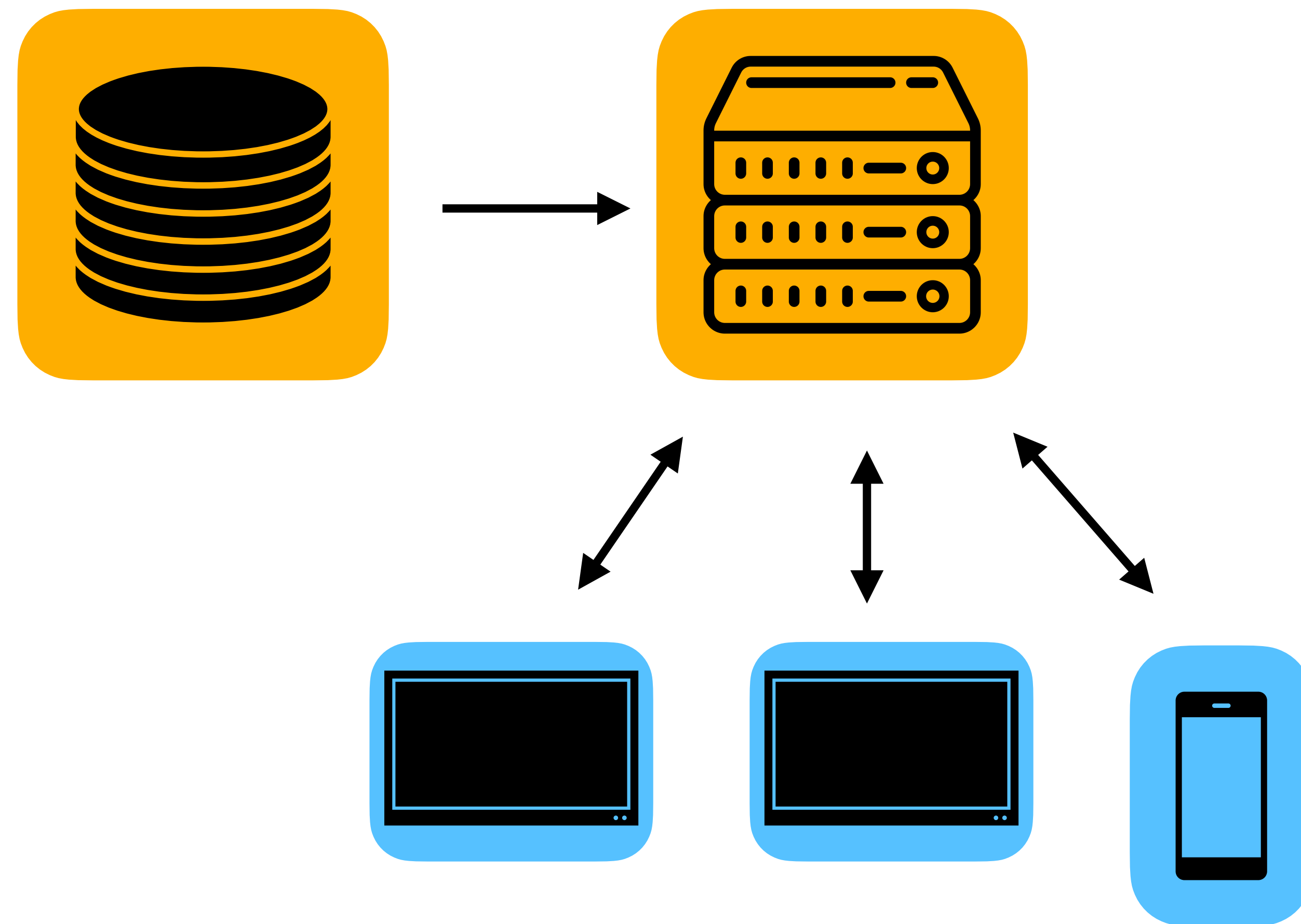
Python Process

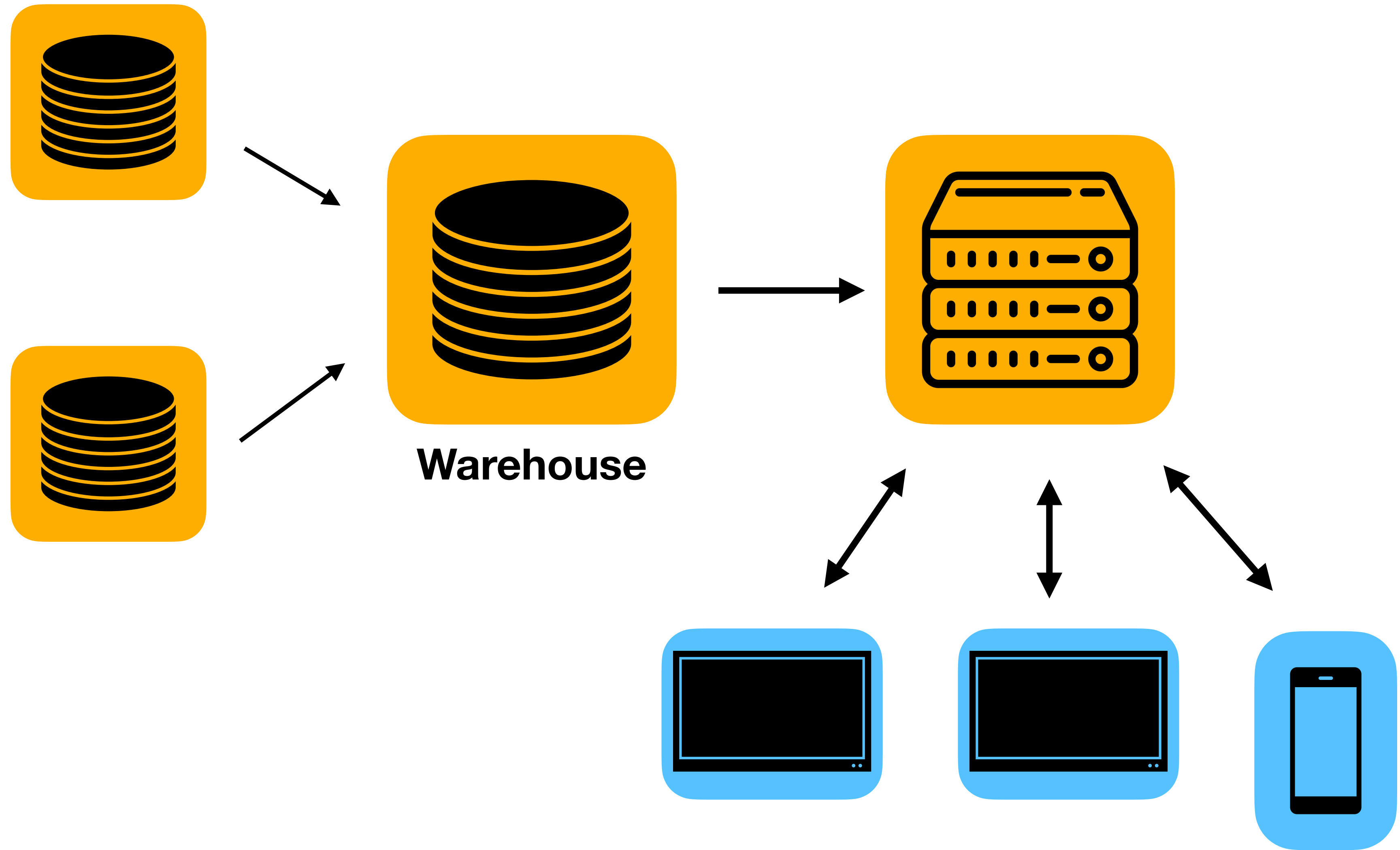


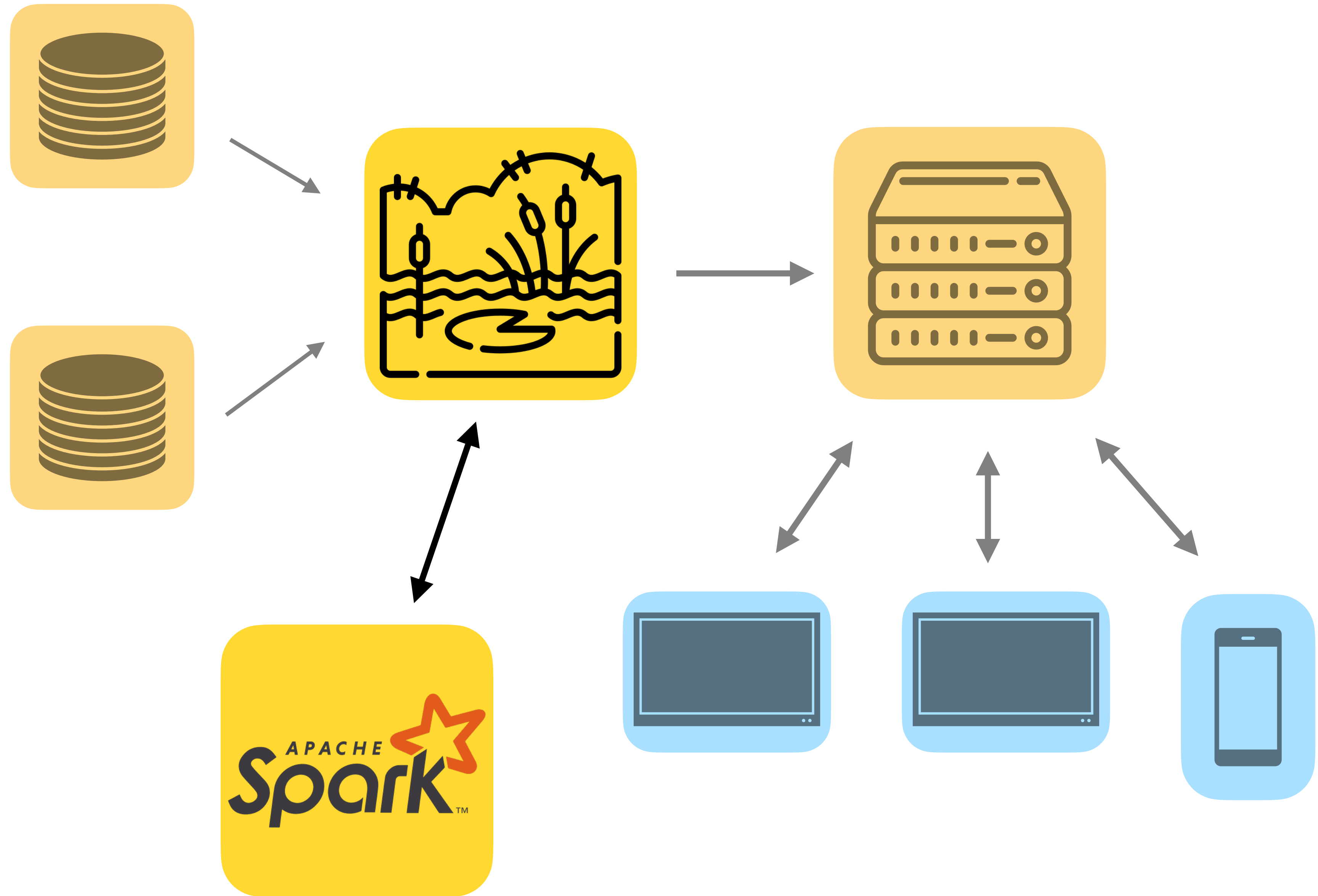
Python/R Process

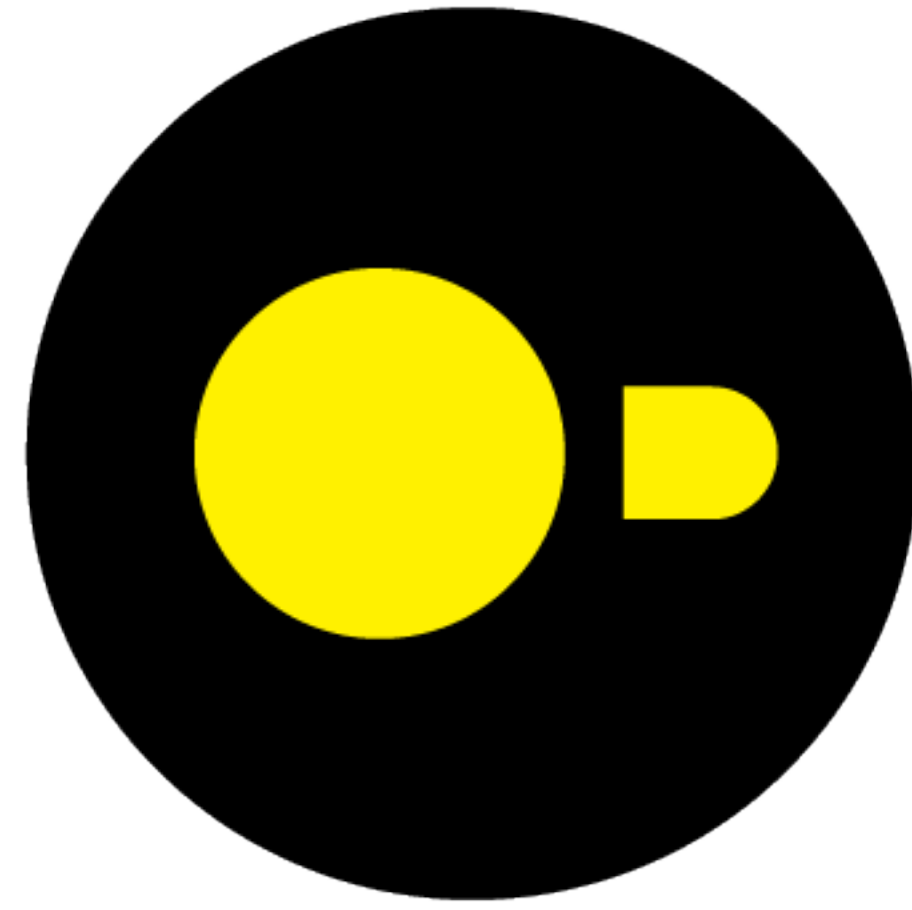




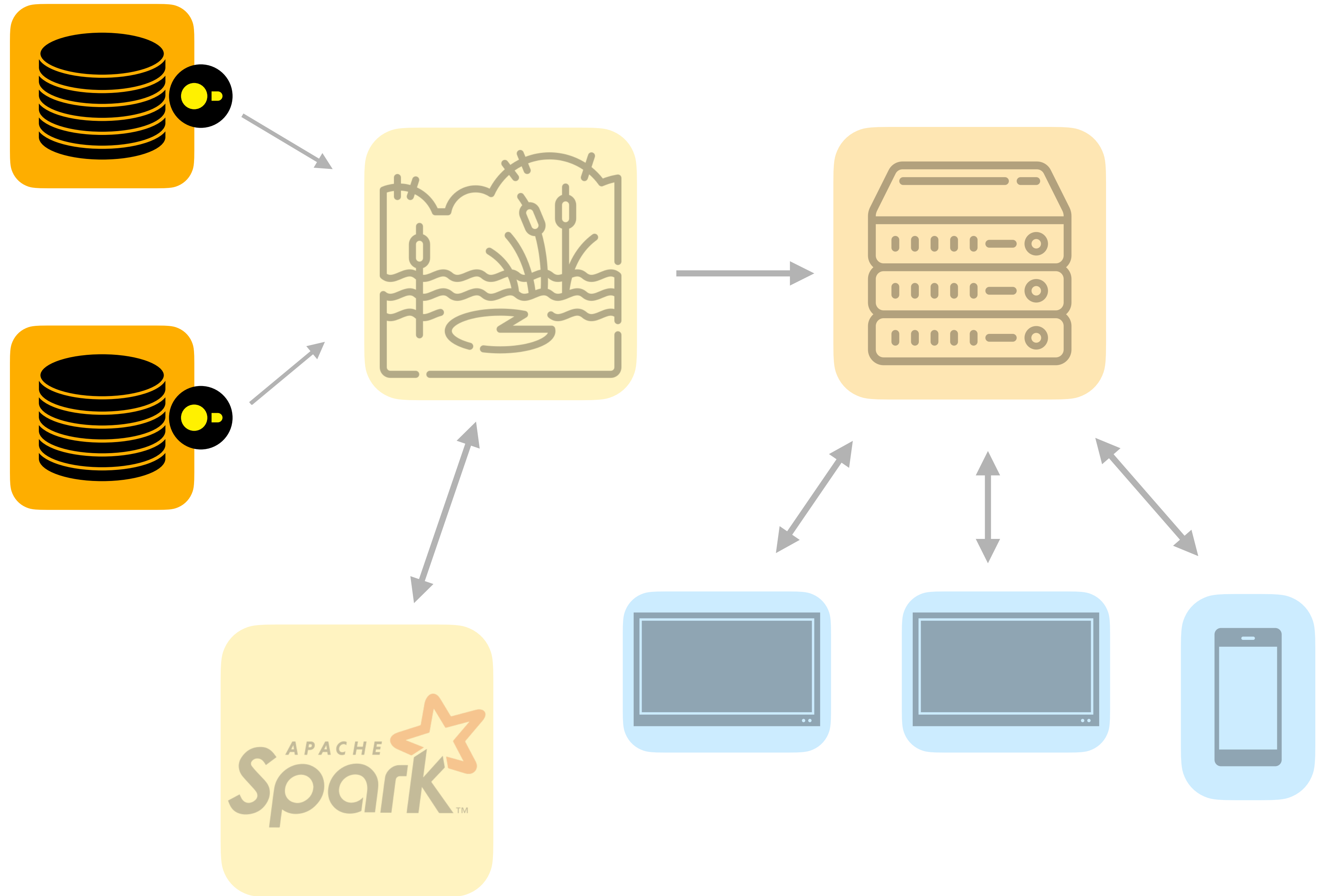


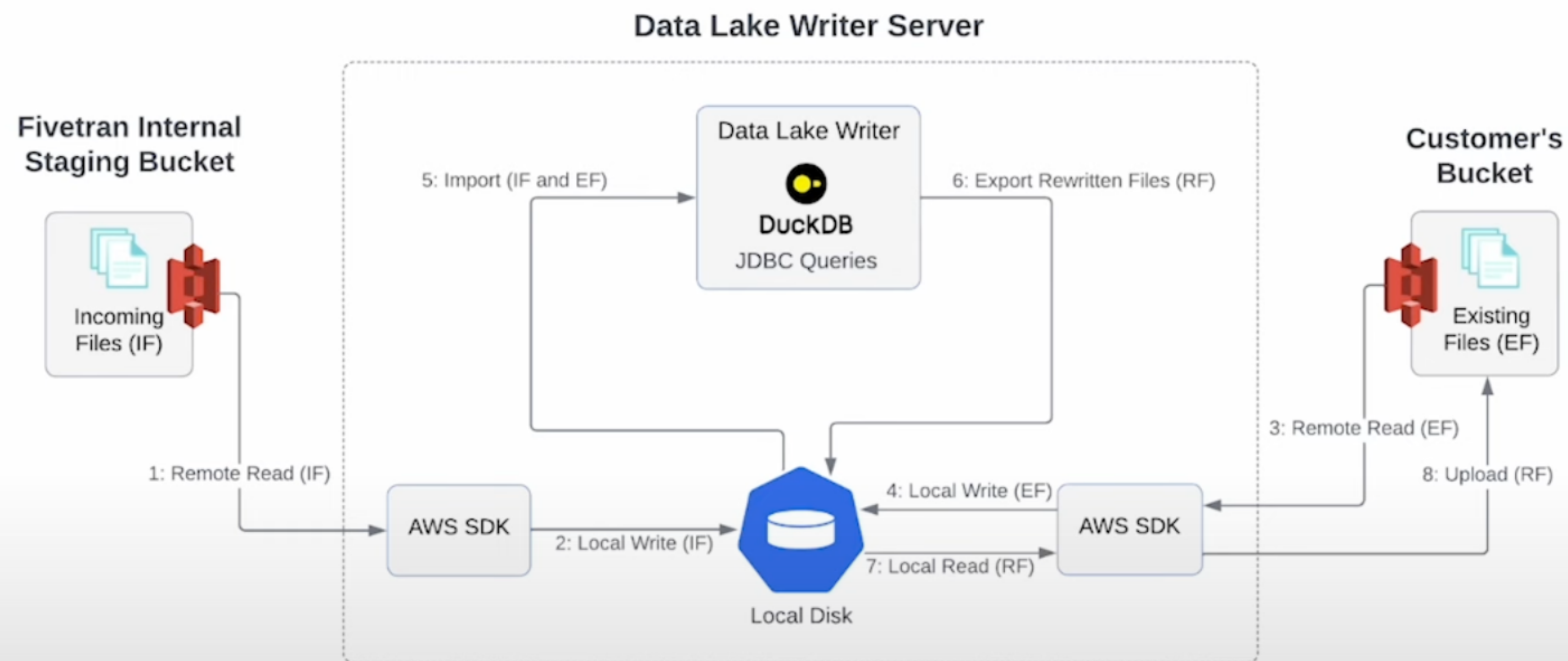


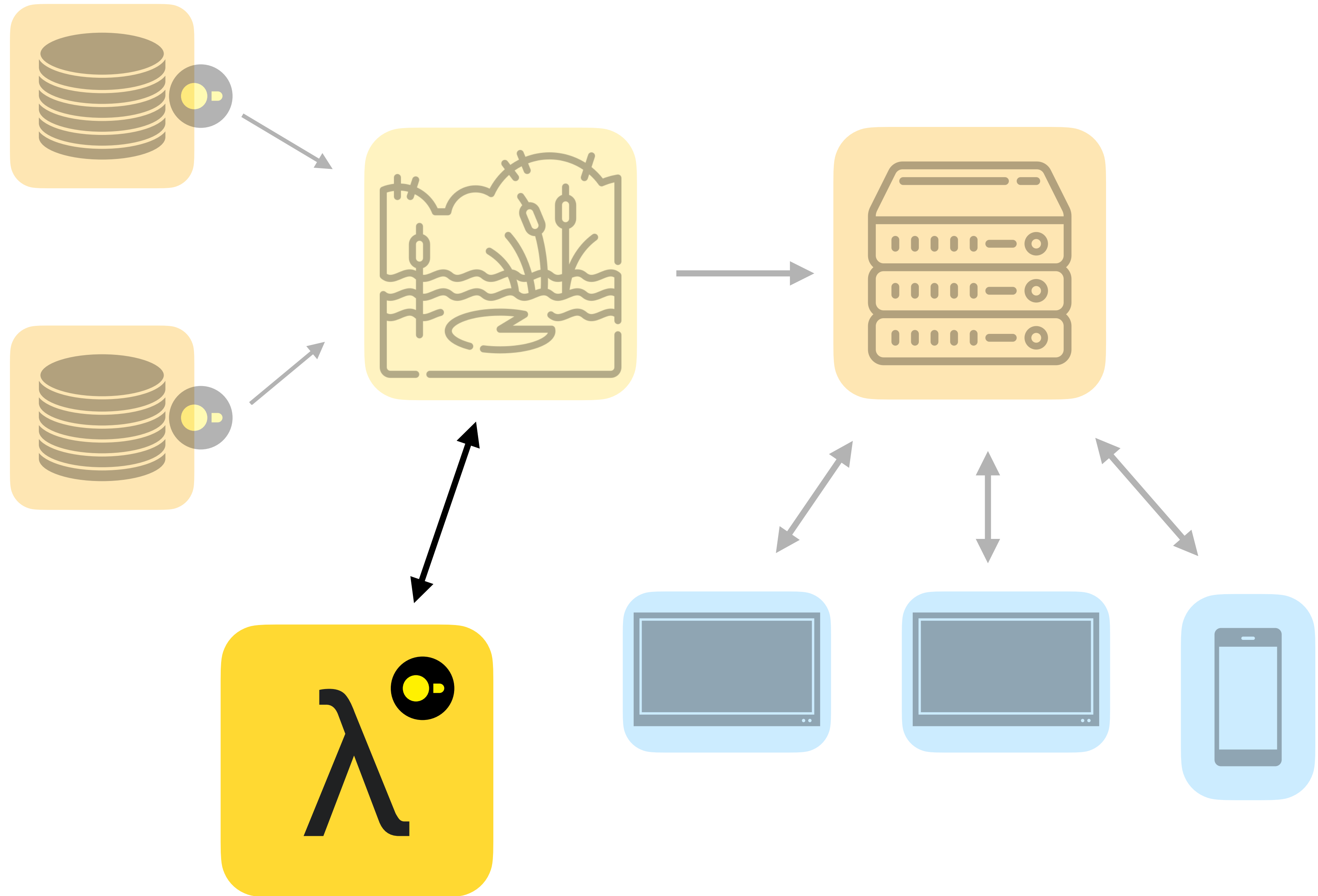


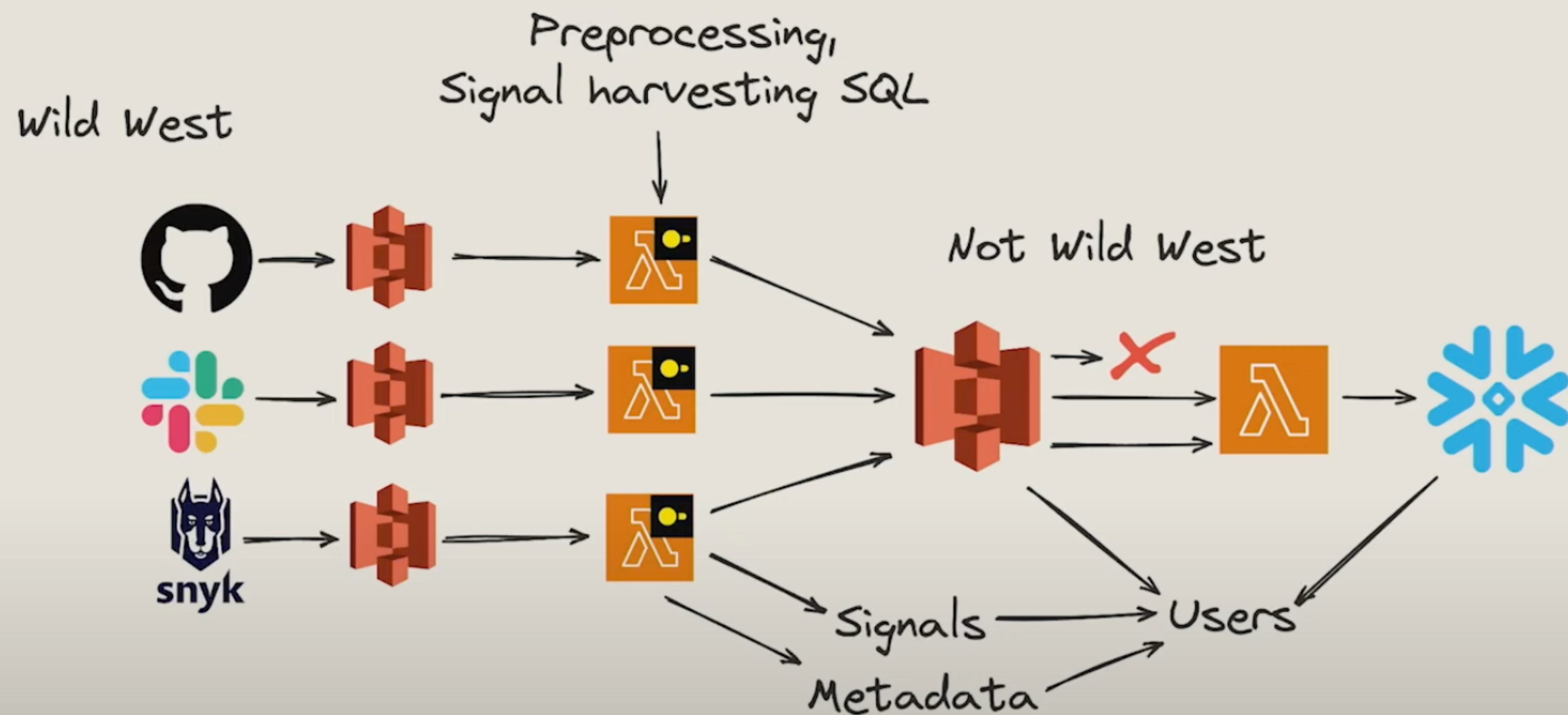


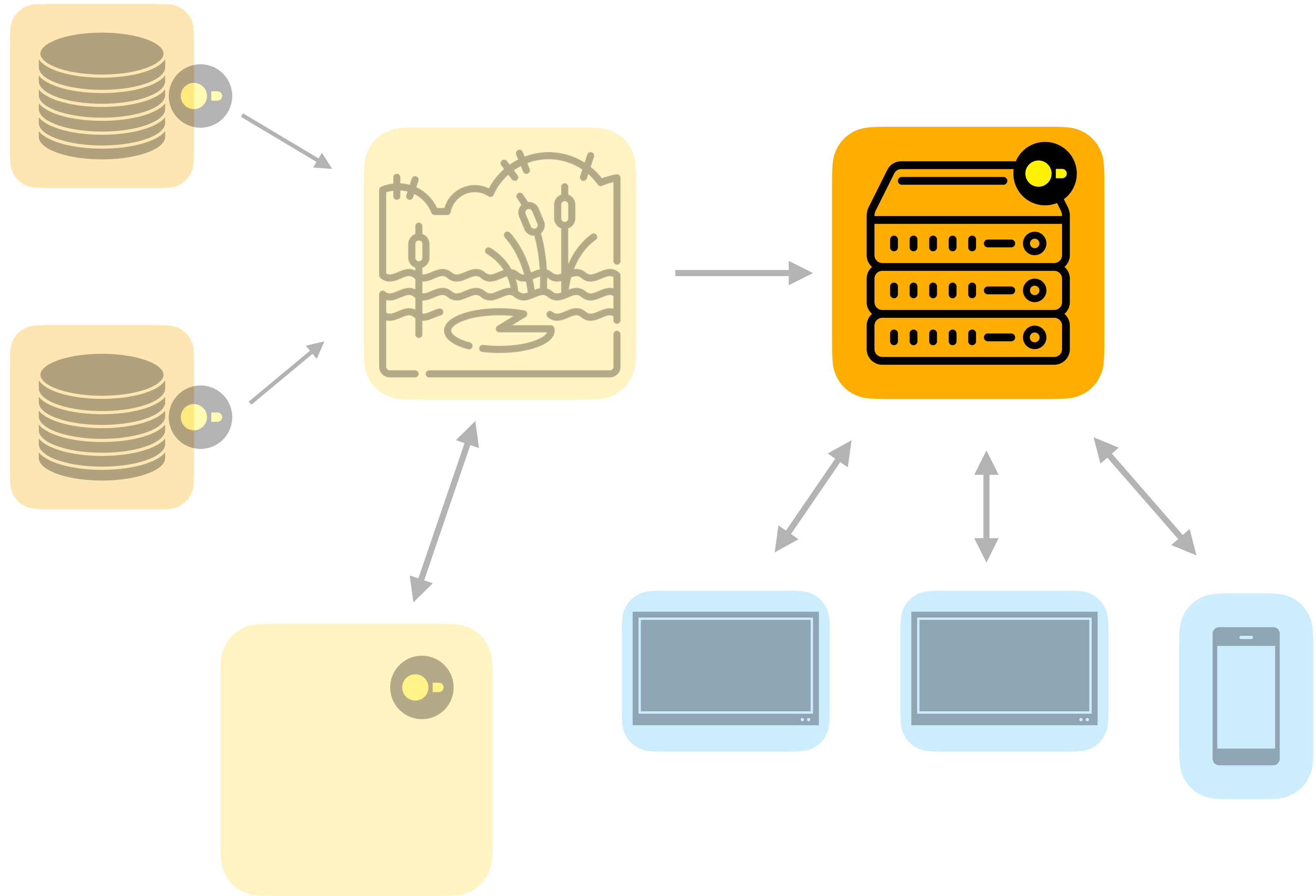
DuckDB













r/node • 12 days ago
oubord



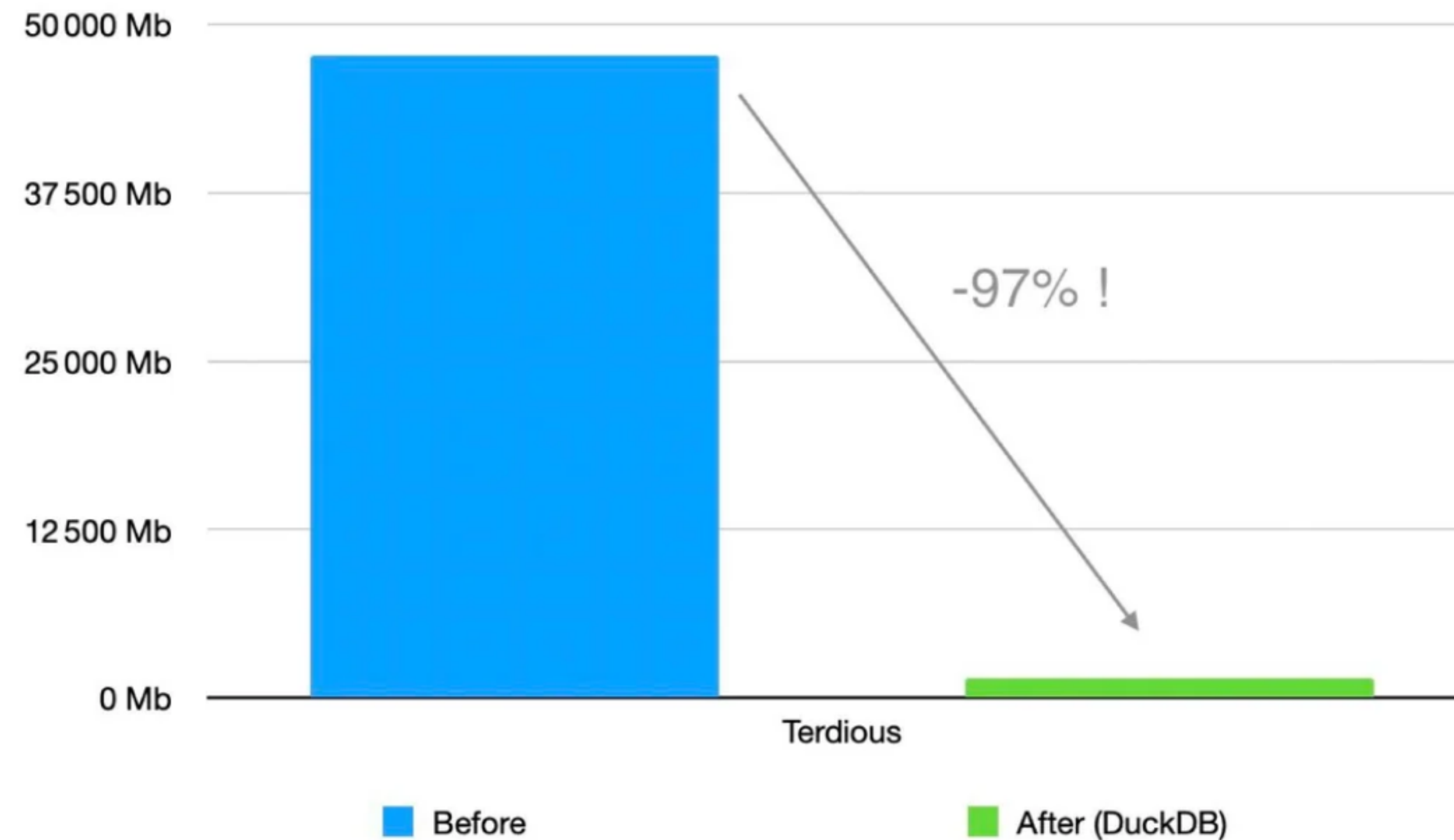
Migrated our Node.js app from SQLite to DuckDB and the performance gains are INSANE! 🤯

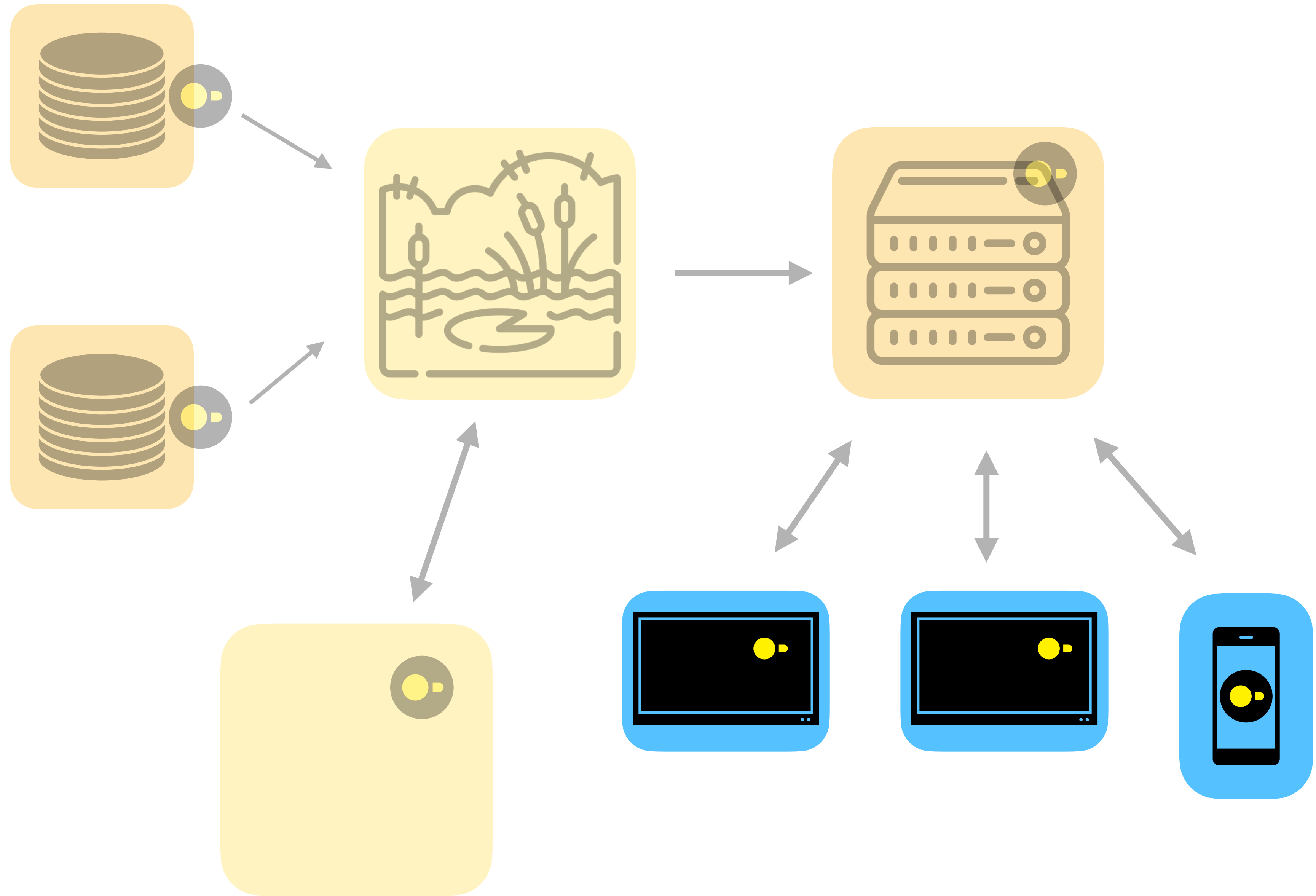
We've just made a huge change in our open-source Node.js app, Gladys Assistant, by migrating from SQLite to DuckDB for handling time-series data, and the results have been mind-blowing!

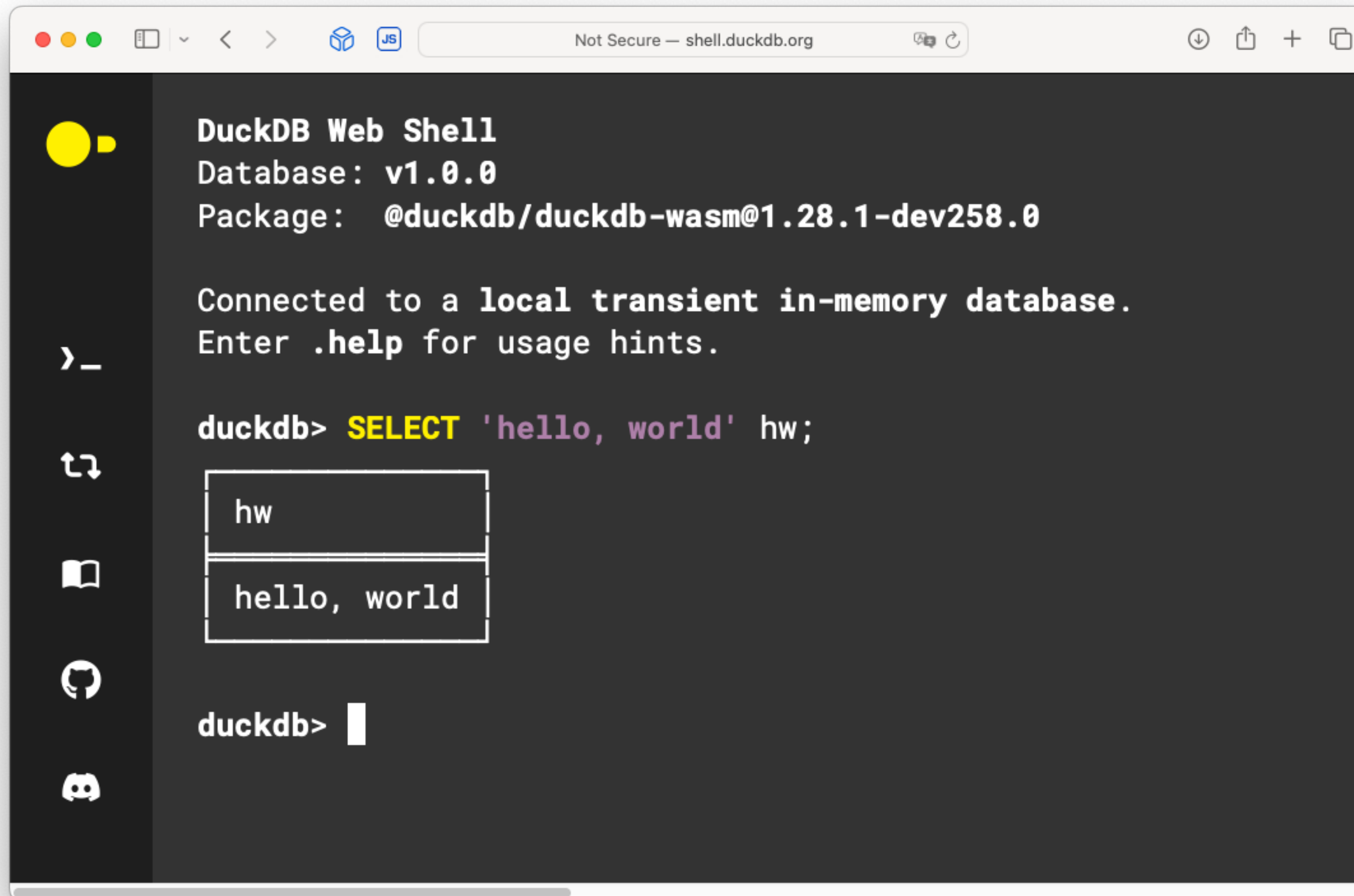
For a bit of context, Gladys Assistant is a smart home platform that connects to various sensors in your home, tracking things like temperature, electricity usage, and humidity. Over time, this generates millions of data points, which we use to display detailed charts for users.

After the switch to DuckDB, we've seen some incredible improvements:

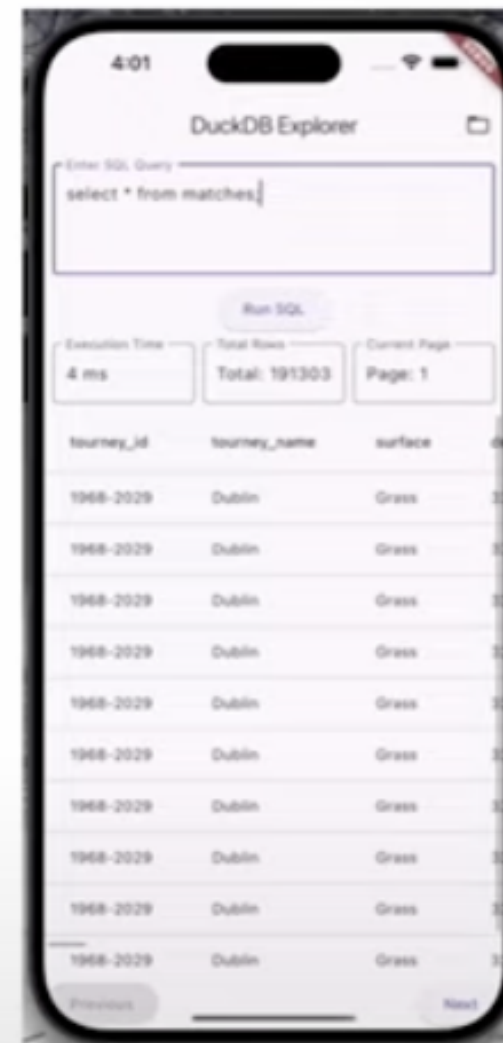
🚀 Up to a 97% reduction in database size (one user's DB went from 47 GB to just 1.5 GB).







DuckDB Explorer



duckdbexplorer

DuckDB Explorer

Enter SQL Query


```
select * from matches;
```

Run SQL

Execution Time: 3 ms Total Rows: 191303 Current Page: 11

tourney_id	tourney_name	surface	draw_size	tourney_level	tourney_date	match_num	winner_id	winner_seed	winner_entry	winner_name
1968-347	Bournemouth	Clay	32	A	1968-04-22	3	109775	null	null	Robert Wilson
1968-347	Bournemouth	Clay	32	A	1968-04-22	4	110047	null	Q	John Ward
1968-347	Bournemouth	Clay	32	A	1968-04-22	5	100005	null	null	Richard Gonzalez
1968-347	Bournemouth	Clay	32	A	1968-04-22	6	100073	null	null	Mark Cox
1968-347	Bournemouth	Clay	32	A	1968-04-22	7	100022	5	null	Roy Emerson
1968-347	Bournemouth	Clay	32	A	1968-04-22	8	100152	null	Q	David Lloyd
1968-347	Bournemouth	Clay	32	A	1968-04-22	9	112374	null	null	Keith Wooldridge
1968-347	Bournemouth	Clay	32	A	1968-04-22	10	100030	6	null	Fred Stolle
1968-347	Bournemouth	Clay	32	A	1968-04-22	11	100010	null	null	Luis Ayala
1968-347	Bournemouth	Clay	32	A	1968-04-22	12	100026	3	null	Andres Gimeno

Previous Next

 **Hugging Face**

Models

Datasets

Spaces


Posts

Docs

Pricing

Log In

Sign Up

Datasets:  SocialGrep/one-million-reddit-confessions

like

6

Modalities:

Tabular

Text

Formats:

csv

Languages:

English

Size:

1M - 10M

Libraries:

Datasets

pandas

Croissant

+ 1

License:

cc-by-4.0

Dataset card

Viewer

Files and versions

Community 2

Dataset Viewer

Auto-converted to Parquet

API

Embed

View in Dataset Viewer

Split (1)

train · 1M rows

Search this dataset

type

string · classes

1 value

id

string · lengths

6

subreddit.id

string · classes

4 values

subreddit.name

string · classes

4 values

subreddit.nsfw

bool

1 class

created_utc

int64

1.55B

post	pyw04g	2qo2a	confession	false	1,633
post	pyvzbo	2qo2a	confession	false	1,633
post	pyvxtt	2qo2a	confession	false	1,633
post	pyvwgp	2qo2a	confession	false	1,633
post	pyvt7k	2qo2a	confession	false	1,633
post	pyvsmx	2qo2a	confession	false	1,633

Downloads last month

16

Use this dataset

Edit dataset card

Homepage: socialgrep.com

Point of Contact: Website

Size of downloaded dataset files: 779 MB

Size of the auto-converted Parquet files: 439 MB

Number of rows: 1,000,000

Models trained or fine-tuned on SocialGrep/one-...

or4cl3ai/SoundSlayerAI

Text-to-Speech · Updated Sep 30, 2023 · 7 · 14

</> SQL Console for NousResearch/hermes-function-calling-v1

×

```
SELECT * FROM func_calling_singleturn LIMIT 10
```

Subsets and Splits ⓘ | 1/5 splits loaded

🔊 DuckDB Documentation

func_calling_singleturn

func_calling

glaive_func_calling

json_mode_agentic

json_mode_singleturn

Run Query ⌘ ↵

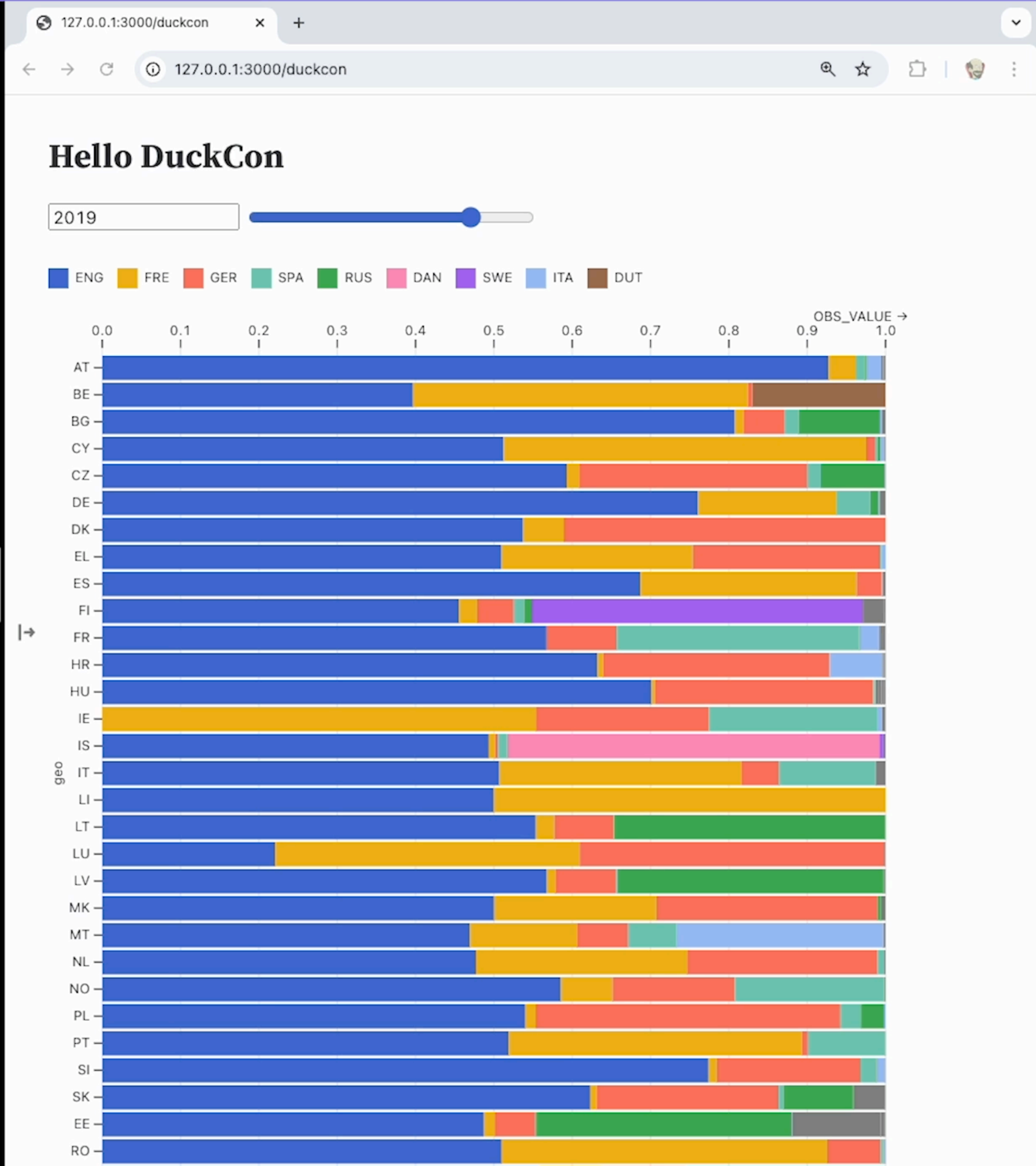
id string	conversations list	category string	subcategory string	task string
85f6c398-69c7-4df2-aed1-29d614a93a26	[{"from": "system", "value": "You are a function calling AI model. You are..."}	IoT and Home...	Security Camera...	View and Manage Security Camera...
89ef3c87-66bd-46ee-9297-15398fd9a235	[{"from": "system", "value": "You are a function calling AI model. You are..."}	IoT and Home...	Smart Home Setup	Set Up a Smart Home System
14657d01-d6d1-46df-	[{"from": "system", "value": "You are	IoT and	Thermostat	Adjust Smart

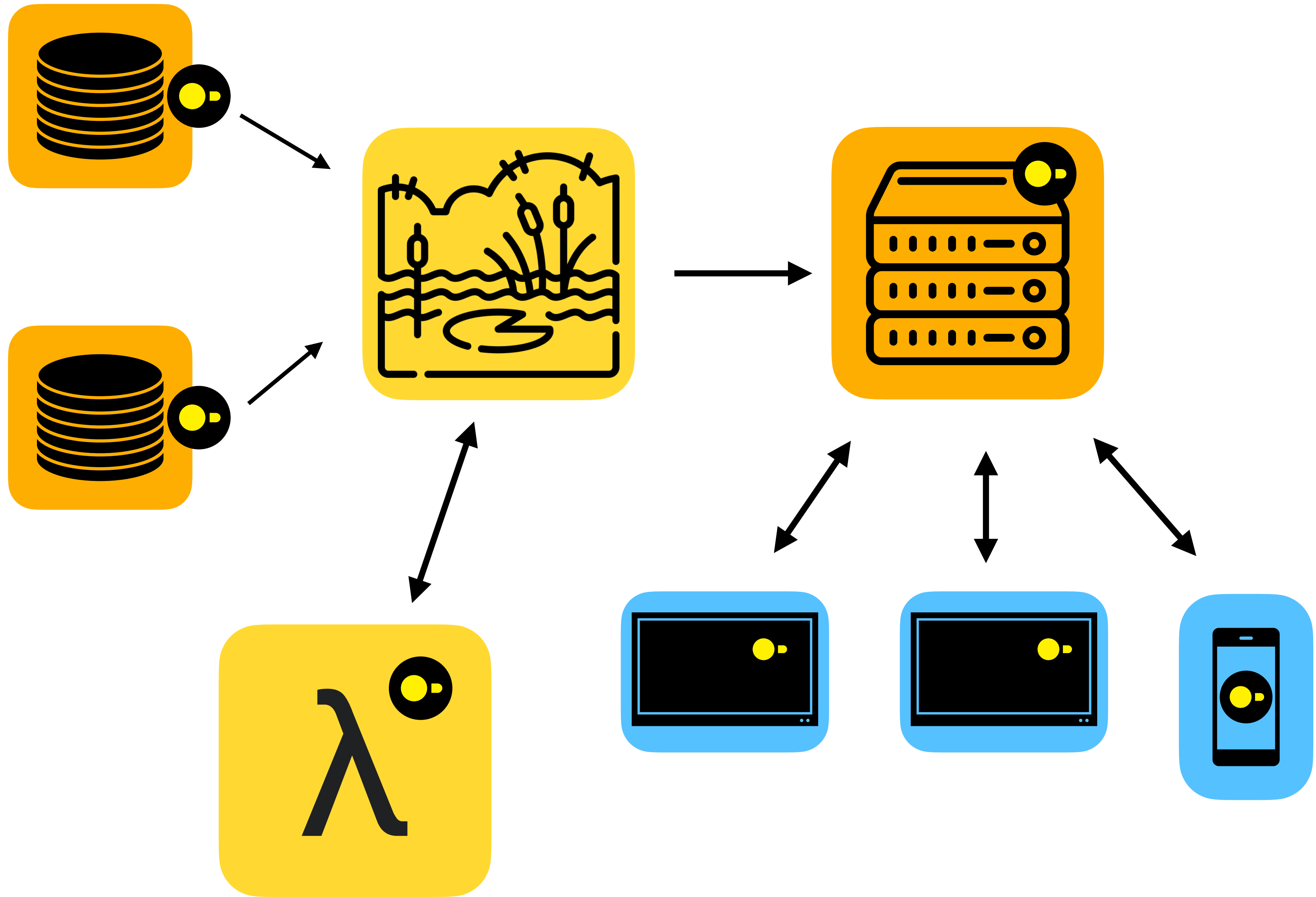
loader-duckdb

duckcon-cheat.md duckcon.md

src > duckcon.md > ## Hello DuckCon

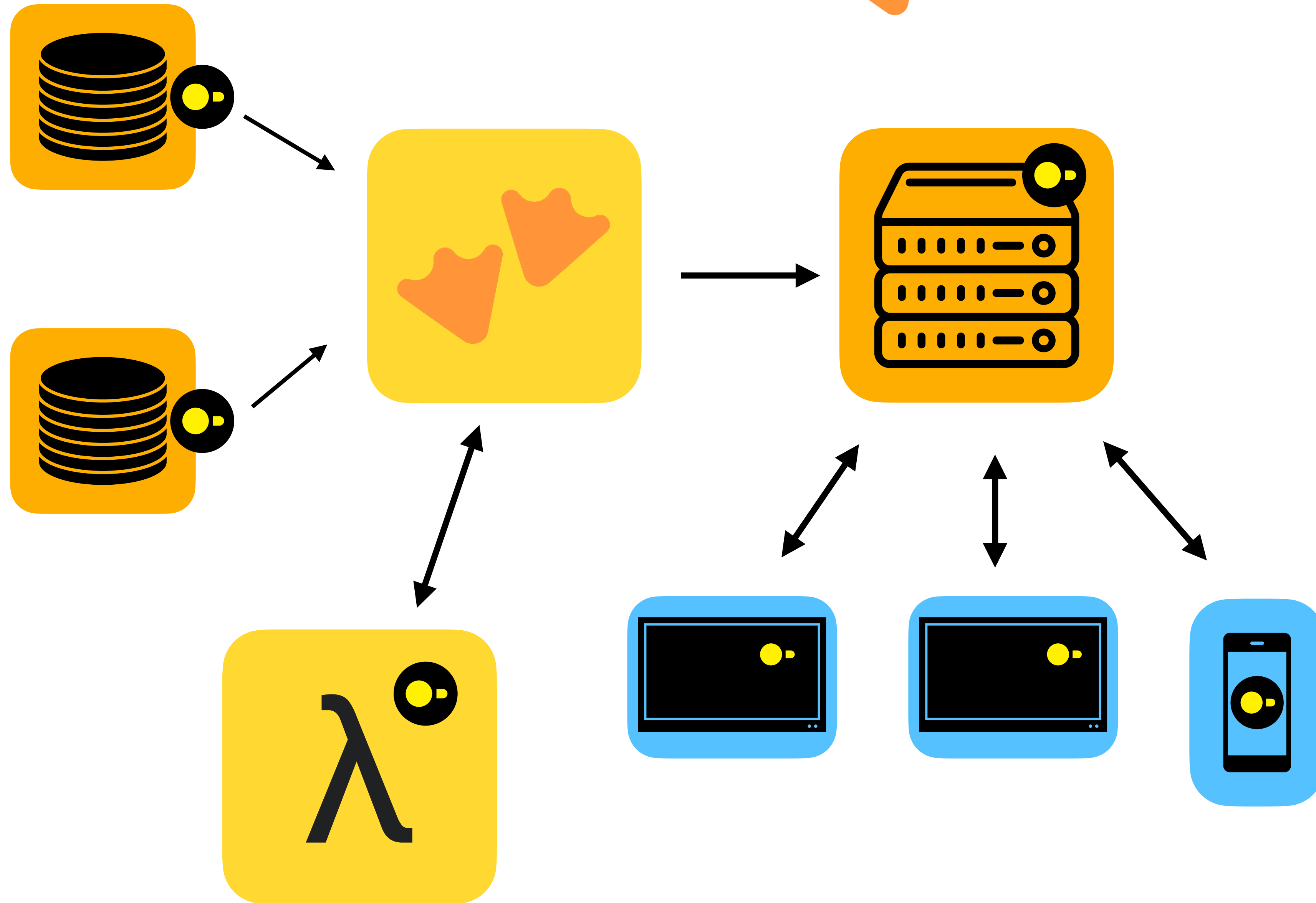
```
6  ## Hello DuckCon
7
8  ```sql id=oneYear
9  SELECT * FROM languages WHERE TIME_PERIOD = $
10 {year}
11 ```
12 ```js
13 const year = view(Inputs.range([2015, 2020],
14 {step: 1}))
15 ```
16 ```js
17 Plot.plot({
18   x: {axis: "top", grid: true},
19   color: {legend: true, unknown: "grey"},
20   marks: [
21     Plot.barX(oneYear, {
22       x: "OBS_VALUE",
23       y: "geo",
24       fill: "language",
25       order: "-sum",
26       color: "value"
```







MotherDuck



Going Beyond Two Tier Data Architectures With DuckDB

- **Liberate** data processing
 - No more centralized data engines
 - DuckDB everywhere!



hannes.muehleisen.org
[@hfmuehleisen](https://twitter.com/hfmuehleisen)

