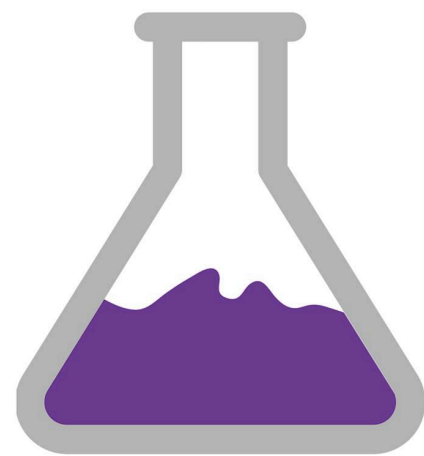


Open Source DataViz with Apache Superset



**DATA
SCIENCE**
MONTERREY

Who Am I?

- MSc. Computer Science and B.A.Sc. Engineering Physics.
- Python programmer with experience in machine learning and big data.
- Currently working as Data Scientist at the Mexican Startup **Konfío** and living in Mexico City.





Visit:

<http://konfio.mx>

Why DataViz?

- Making useful insights from stored data
- Allow and support effective decisions
- Using data to get new information and find patterns
- Monitor daily numbers and trends
- Present an argument or tell a story
- It's all about getting the right information, to the right decision makers, at the right time

Tools out there (all paid-for)



QlikView



Tools out there (Open source)

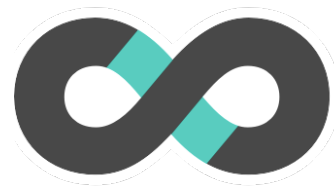


Leaflet 

RAWGraphs



Chart.js

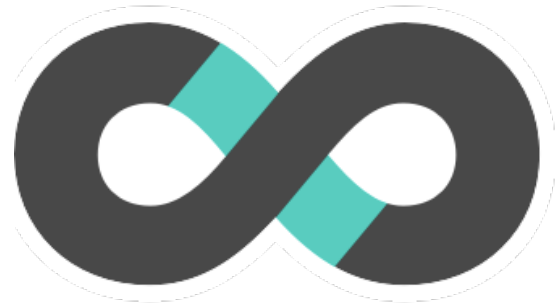


Superset

Who uses Apache Superset (incubating)?

Here's a list of organizations who have taken the time to send a PR to let the world know they are using Superset. Join our growing community!

- [AiHello](#)
- [Airbnb](#)
- [Amino](#)
- [Brilliant.org](#)
- [Capital Service S.A.](#)
- [Clark.de](#)
- [Digit Game Studios](#)
- [Douban](#)
- [Endress+Hauser](#)
- [FBK - ICT center](#)
- [Faasos](#)
- [GfK Data Lab](#)
- [Konfío](#)
- [Lyft](#)
- [Maieutical Labs](#)



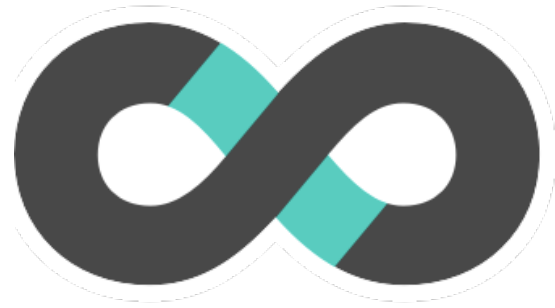
Superset

- A modern data exploration and visualization web application.
- Superset's main goal is to make it easy to slice, dice and visualize data.
- Developed by engineers at Airbnb now released under Apache license 2.0
- This project was originally named Panoramix, was renamed to Caravel in March 2016, and is currently named Superset as of November 2016.

Dashboards



Dashboard	Creator	Modified
Misc Charts		a minute ago
Births		a minute ago
World's Bank Data		a minute ago



Superset

- Build over the Flask framework in Python.
- Works as a web app on all most used browsers so it does not require any additional desktop installations.
- Easy to deploy on a Server and ability to handle multiple users with roles and authentication.
- Repo:

<https://github.com/apache/incubator-superset>

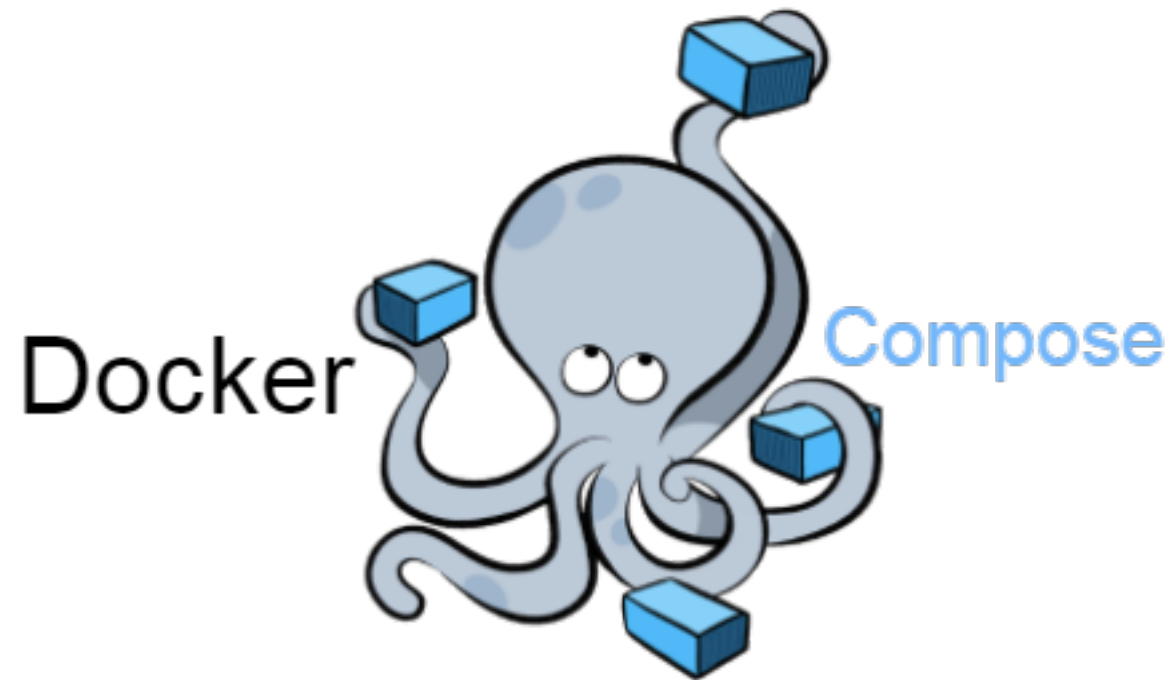
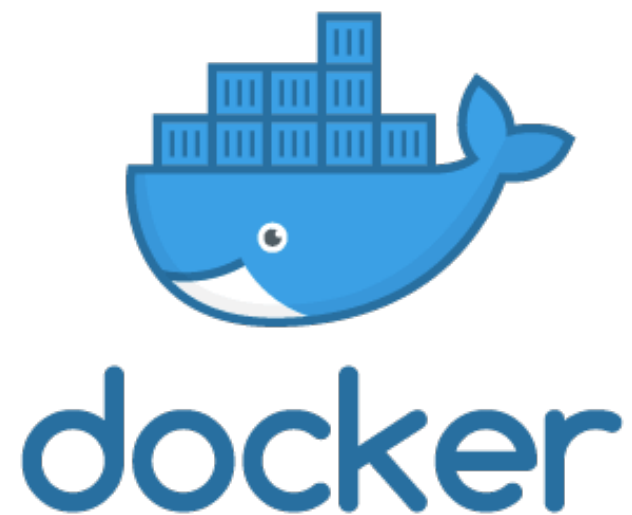
Advantages

- Interactivity: You can create visualizations even without knowledge of SQL or Python!
- No coding to setup but code available for manipulation
- Completely free, no user license or one time download fee
- Supports multiple data sources (Most of SQL dialects and Druid) and more to come!
- Growing in popularity getting new releases each month

Limitations and Disadvantages

- Still very young and lacks some of the basics like uploading data, tooltip customization and visual filters.
- The tool is rapidly developing so be ready to find bugs.
- Problems with customization if you don't want to dive into the source code, but you still can!
- Difficult to plot aggregations of a higher level without some data manipulation or creating views.

Mounting Superset



- Clone from:

```
git clone https://github.com/amancevice/superset
```

- Or pull docker image

```
docker pull amancevice/superset
```

Getting it up

- Create container:

```
docker run --detach --name superset -p 8088:8088 amancevice/superset
```

- Or easier:

```
docker-compose up
```

- Initialize and load demo data:

```
docker exec -it [container name] superset-demo
```

DEMO

Contributing

- Contributions are welcome and are greatly appreciated!
- You can help make superset better by:
 - Reporting/Fixing bugs
 - Implementing new features
 - Help with the Documentation
- Or submit Feedback and new feature ideas

[https://github.com/apache/incubator-superset/blob/master/
CONTRIBUTING.md](https://github.com/apache/incubator-superset/blob/master/CONTRIBUTING.md)

Closing

- **Superset** is certainly **not** a replacement for more robust BI tools but its growing to become their main open source competitor.
- For becoming a full BI tool stills need an analytics module.
- Can scale better over user license solutions.
- With superset everybody in the organization can be a data scientist, at least a bit

BONUS

<https://datavizcatalogue.com/index.html>

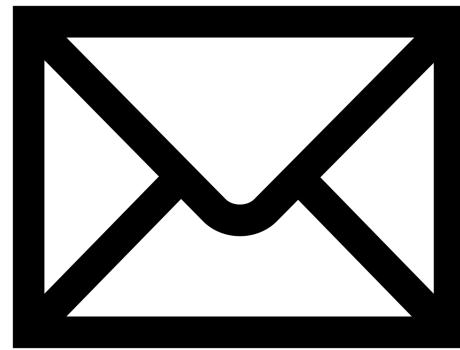


ANY QUESTIONS?

Shappie112

Thank You!

Let's have a beer!



cwallaceh@gmail.com