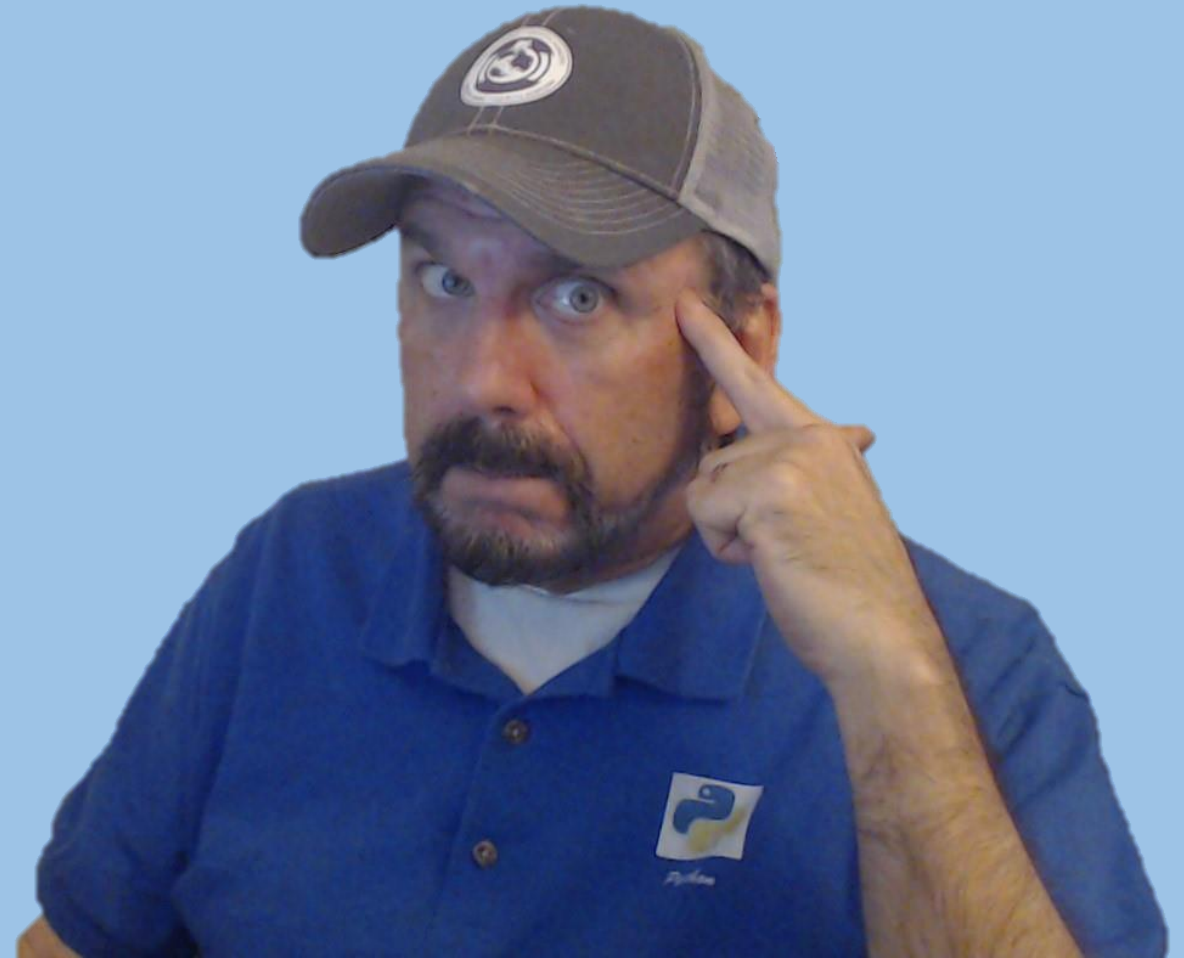
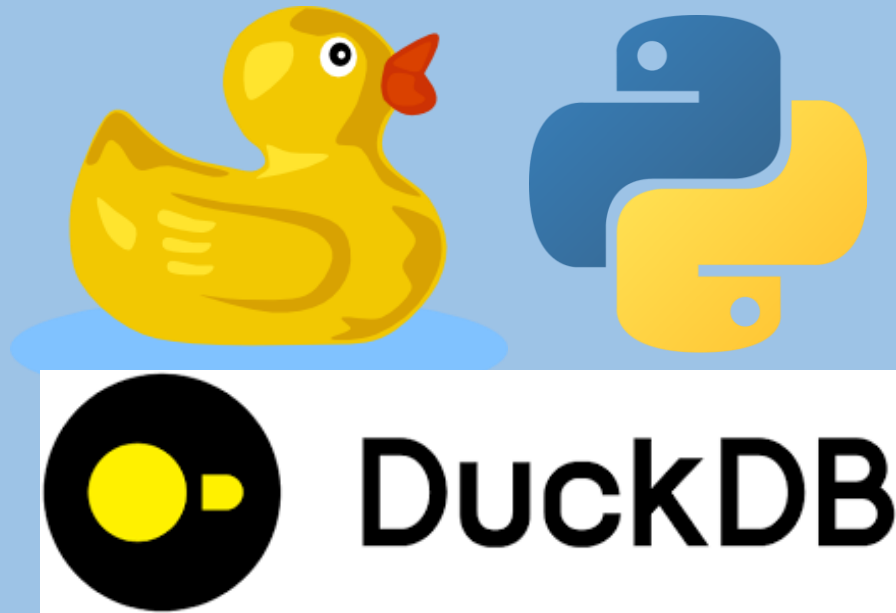


Quick Intro to DuckDB using Python



<https://www.youtube.com/@BryanCafferky/playlists>

Where Are We Going?

- What is DuckDB?
- Why use DuckDB?
- Challenges
- Demo

What is DuckDB?

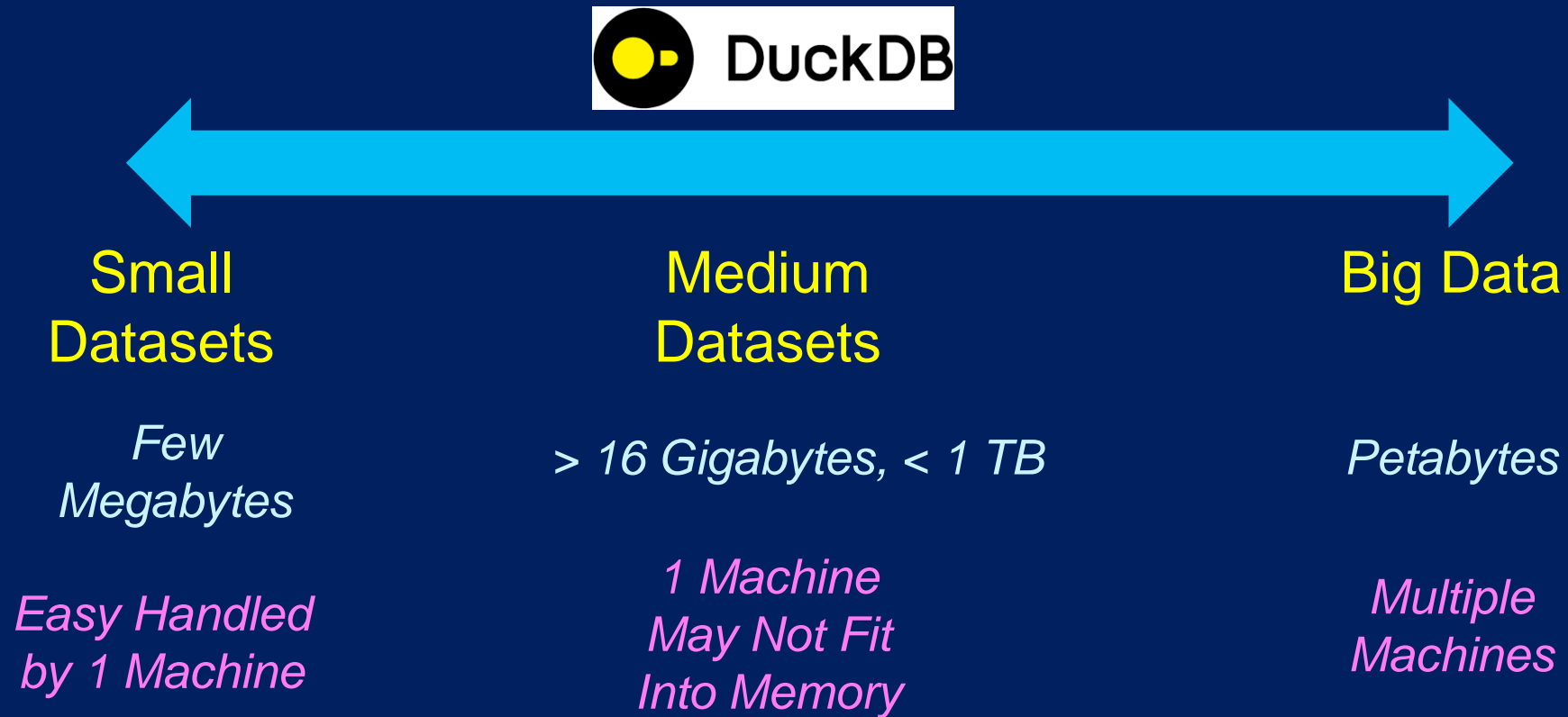
- A Database that Runs In-Process like SQLite
- Uses Column Store Format.
- Saves Tables to a Flat File or You Can Work in Memory.
- Provides a Database Service & Full SQL Interface.
- Basically, DuckDB is like an open-source Tabular Model.



<https://duckdb.org/>

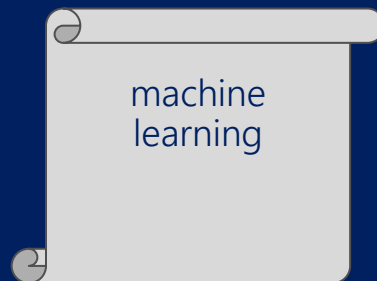
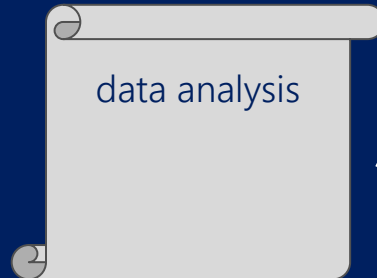
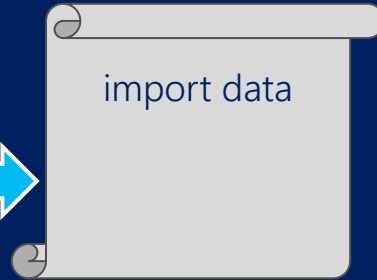
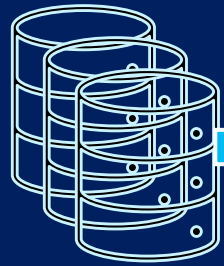


Supporting the Range of Data Volume

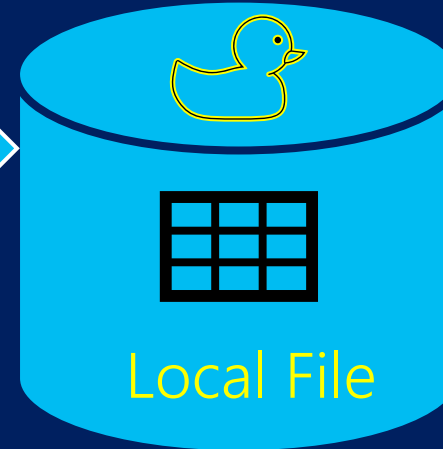


DuckDB Maximizes the Single Machine

External Data



Laptop



 DuckDB

c:\data\myduckdb.db

Why Use DuckDB?

- It's Very Fast Especially with Large Datasets
- Handles Data that Does Not Fit Into the Machine's Memory
- Super Easy to Install & No Dependencies
- Free & Open Source – Liberal License
- Full SQL Support
- Support Many Languages or Stand Alone

Learning Challenges

- The Different APIs Are Not Clearly Distinguished
 - ❖ Python API & SQL API (and many more) – Covered Independently
- Concepts and Objects Are Not Always Intuitive
- Documentation Examples Are Limited

Demo

Wrapping Up

- What is DuckDB?
- Why use DuckDB?
- Challenges

Thank You!