



# Databases: A History of Places to Put Your Stuff



“


*Ideal for high throughput  
and scalability with low  
latency*

- *Marketing copy for any given  
database, ever*



## **Damn that's a lot of databases**

in-memory, active, cloud, data warehouse,  
deductive, descriptive, document-oriented,  
embedded, federated, heterogeneous, graph,  
array, hypertext, knowledge base, mobile,  
operational, parallel, probabilistic, real-time,  
spatial, temporal, terminology-oriented,  
unstructured



## The 1950s









# 1951

Univac I

First magnetic tape





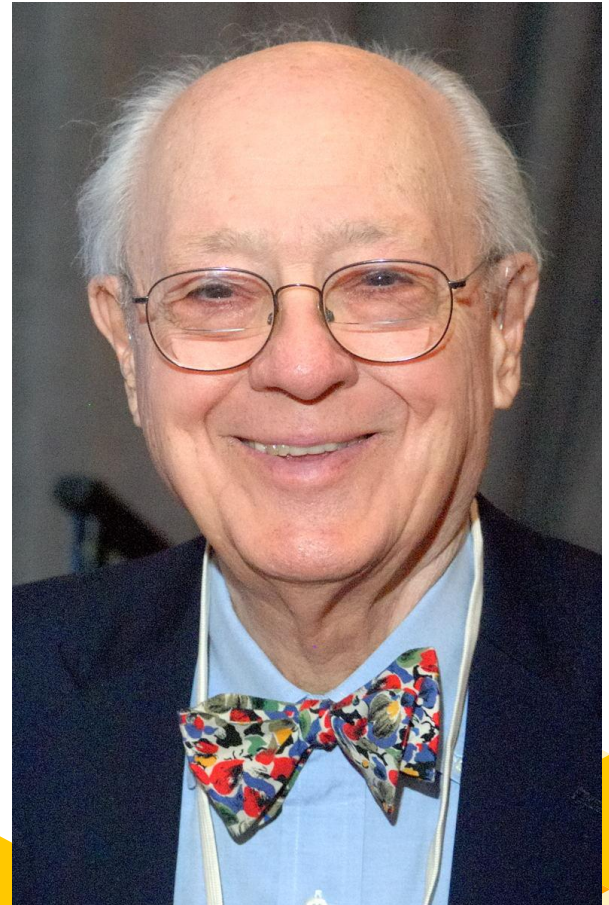
# 1956

IBM 305 RAMAC  
First disc storage



# 1961

The first DBMS  
Integrated Data store  
Charles Bachman

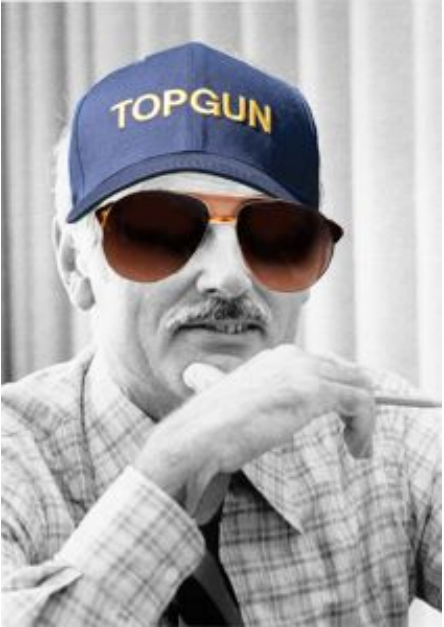




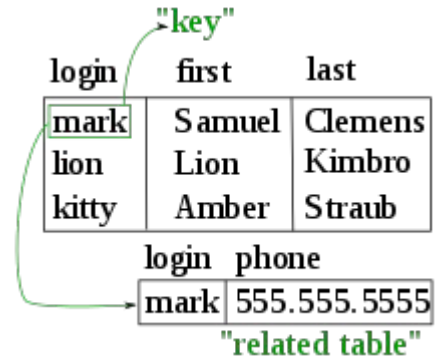


# The 1970s

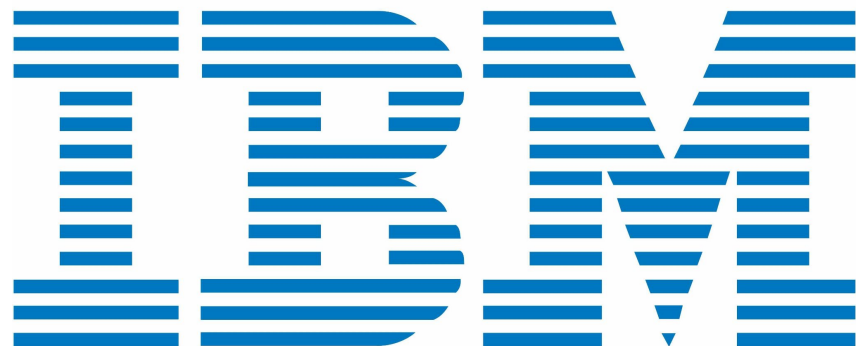




Edgar Codd, the top gun of tables



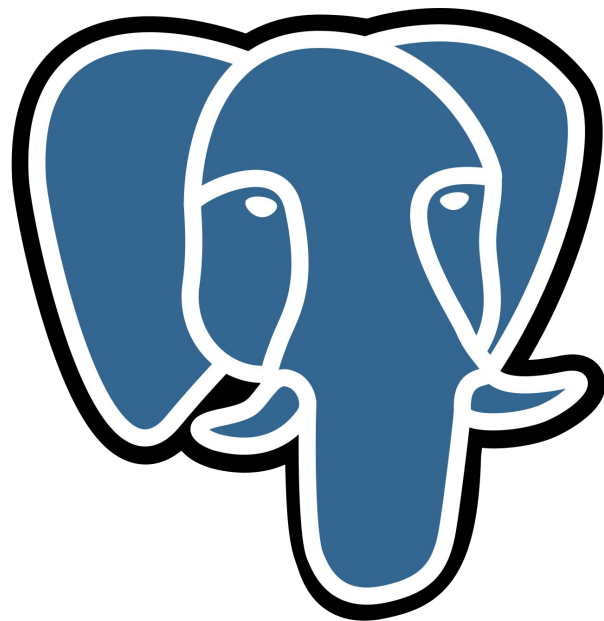
How relational databases work



ORACLE AND IBM ENTER THE CAGE





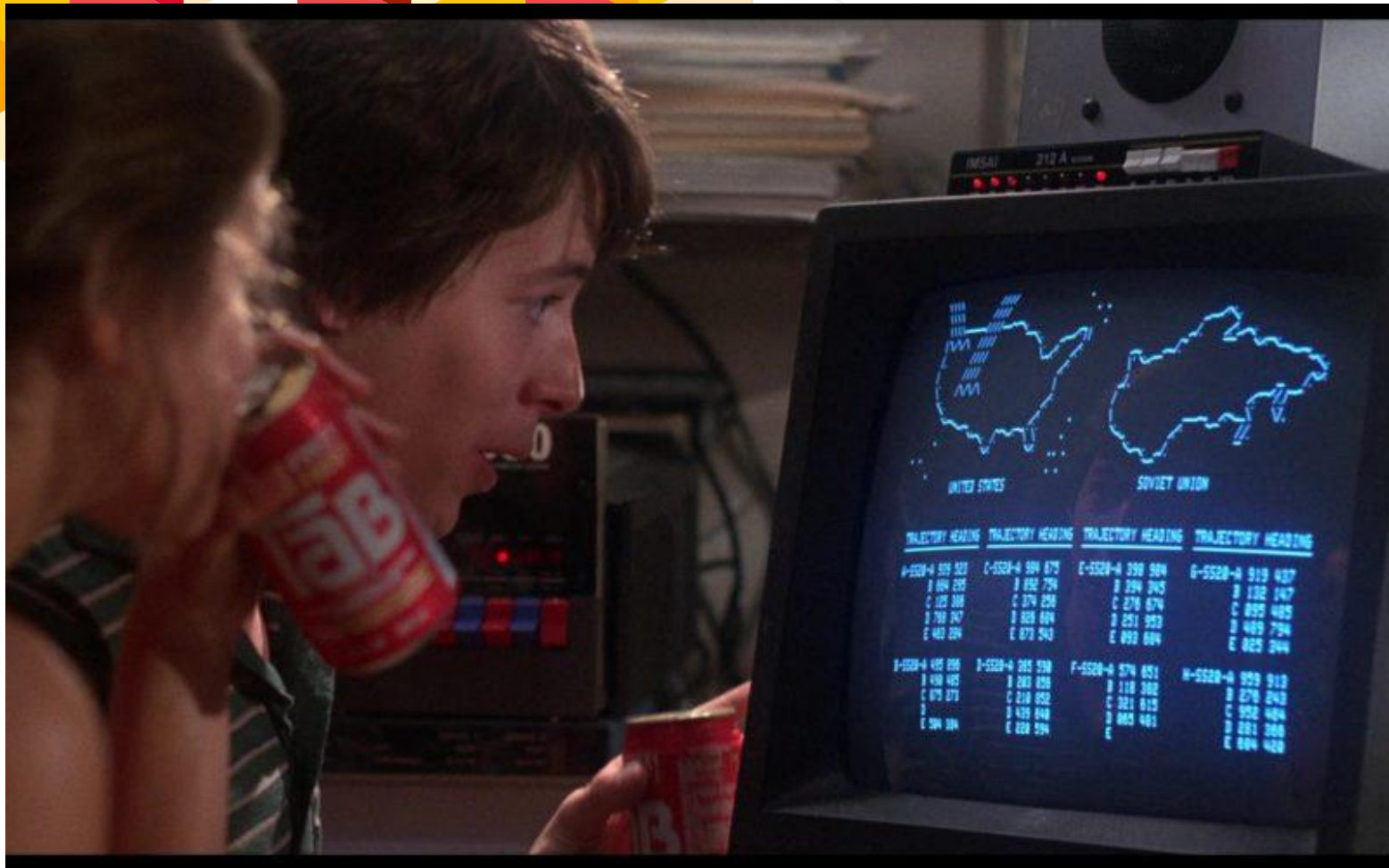


TIME FOR POSTGRES



## The 80s



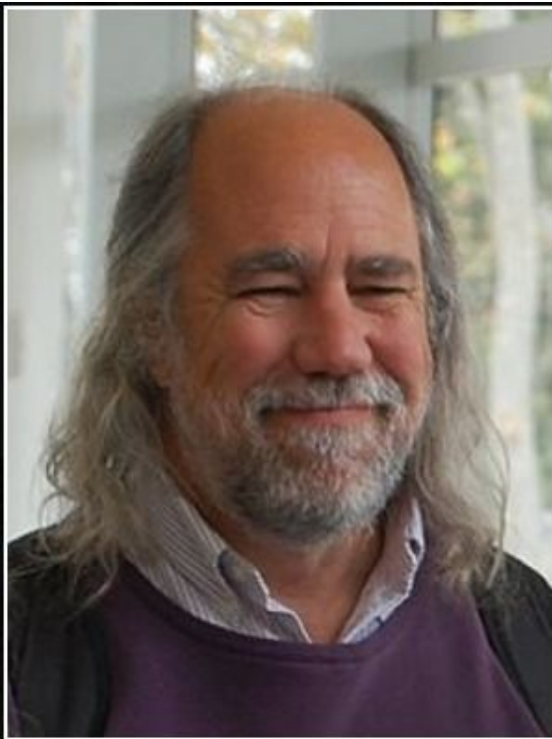




# The 90s







The function of good software is to  
make the complex appear to be  
simple.

— *Grady Booch* —

AZ QUOTES

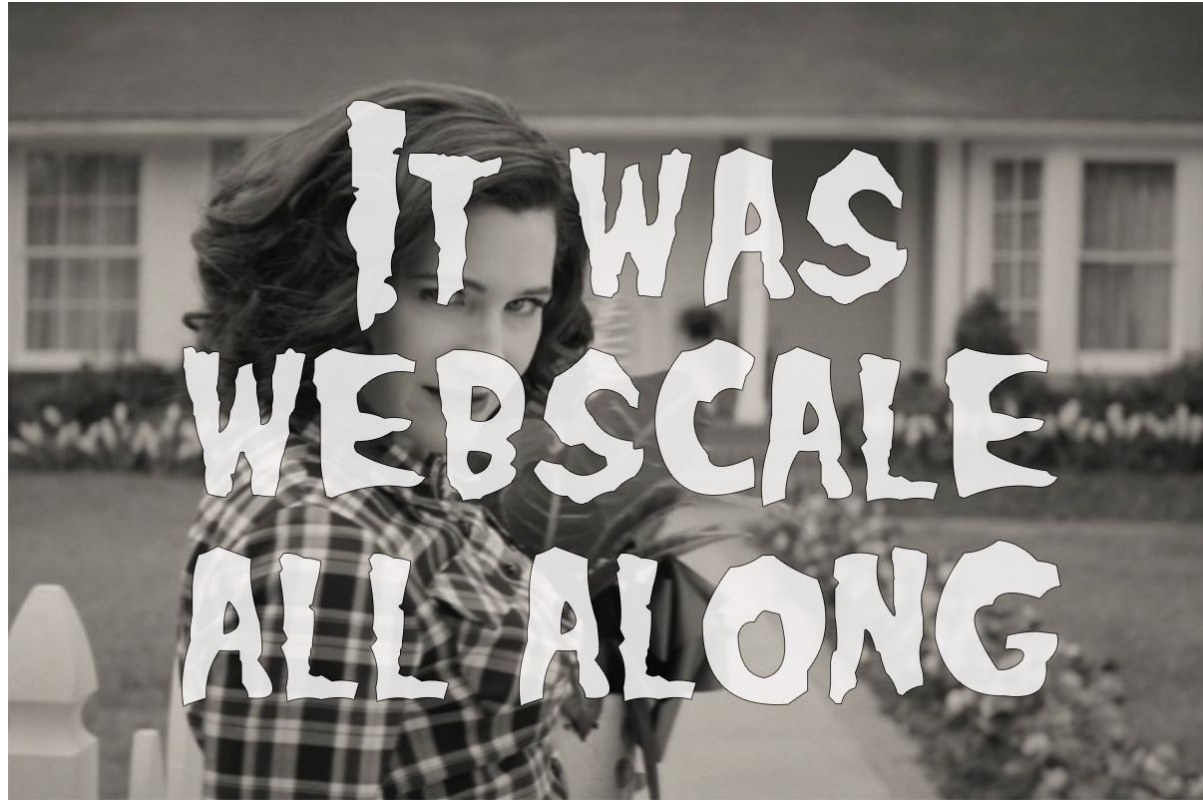






# The 2000s and beyond





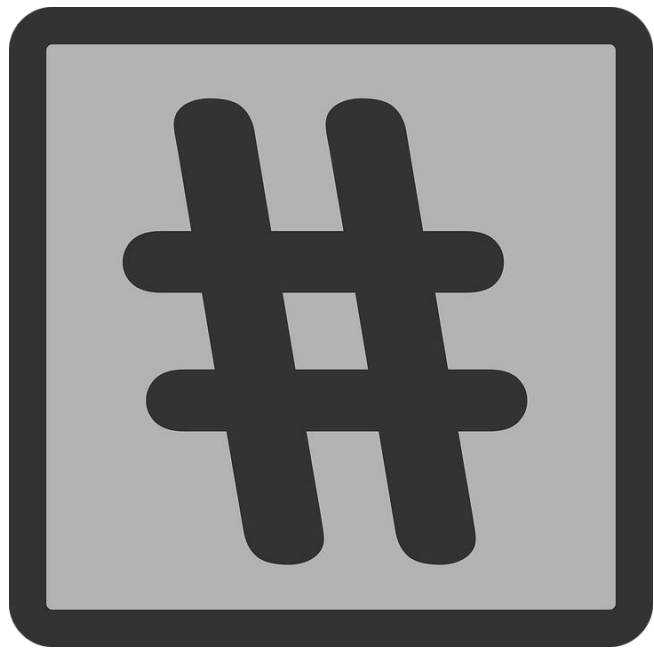


<https://bit.ly/its-webscale>









**#nosql**

key-value



graph



column



document



NoSQL isn't just  
document model



# ACID vs CAP theorem





**The World Wide Webs is technically just a large,  
distributed hypertext database**







# What have we learned?



# Let's Talk!



**Twitter** - @mattstratton

**Mastodon** - @mattstratton@hachyderm.io

**Bluesky** - @matty.wtf

**GitHub** - mattstratton

**Slides** - speaking.mattstratton.com

**LinkedIn** - linkedin.com/in/mattstratton

# REFERENCES

- [A Timeline of Database History & Database Management](#)
- [Wikipedia entry for databases and history](#)
- [IBM Information Management System](#)
- [MongoDB is Web Scale video](#)
- [Charles Bachman](#)



# ATTRIBUTIONS

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# Pssst...try Aiven!

