From respected by DBAs to loved by Application Developers

Craig Kerstiens
Microsoft
Who am I?

Product at Heroku Postgres, Citus Data, Microsoft

Curate PostgresWeekly
Postgres: It has good bones
Postgres

One of the most **loved** and **wanted** databases in Stack Overflow's 2019 Developer Survey

Ranked 2017 and 2018 **DBMS of the Year** by DB-Engine
Far from perfect

- Hard to install
- Expert to configure
- HA/Replication… just nope

And most importantly

How do you pronounce it?
DBAs

• It is good and principled
• I trust it

Developers

• It’s too hard
• Doesn’t have new features
Developers are the new kingmakers

https://thenewkingmakers.com/
"The CIO is the last to know"

steve o'grady @sograd
DataStax CEO: who increasingly has the most influence over database selection?
Analyst sitting next to me: CIOs
CEO: developers
We started learning

**mongodb.**

**MySQL.**

JSON?

JSONB – B stands for better
Moving beyond RDBMS

Liberal data types
Rich indexing
Permissive licensing

Batteries included
• Full text search
• Geospatial support
• Built-in insights

Kept the core stable but moving forward
Why Postgres?

- JSON
- B
- Listen/notify
- B-tree index
- Safety
- Array
- CTEs
- Window functions
- Concurrent indexing
- SP-GiST index
- PostGIS
- KN
- GiST index
- Time series
- GIN index
- BRIN index
- MVC
- Transactional DDL
- Extensions
- Proven track record
- Foreign data wrappers
- Fast column addition
Preparing for the future

HyperLogLog
TopN
Foreign Data Wrappers
hstore
UUID
PostGIS
pg_cron
ZomboDB
Citus
HypoPG
Not always the best, but always good enough

Not the fastest, but it is fast
Not the easiest to support, but it is easy
Not the most secure, but it is secure
Not the shiniest, but it is shiny

Not the best every in all categories, but overall it is the most loved
Why App Devs Love Postgres.