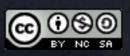
Get Your Preferred Feature Developed!

David E. Wheeler PostgreSQL Experts, Inc. @theory

Postgres Open September 16, 2011



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CPAN for PostgreSQL

- Had this idea
- Never had time
- Decided to raise money
- People and Orgs happy to donate
- Money came in, started hacking
- Met fundraising goal
- Finished hacking and launched



WITH RECURSIVE?

All About You

Your org using PostgreSQL
Powerful
Flexible
Feature complete?

Not there vet.

What Could You Use?

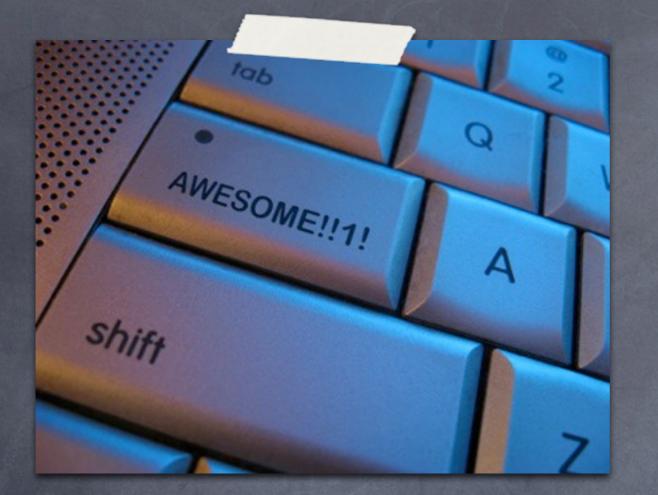
- Integrated partitioning
- High CPU concurrency
- Multimaster replication and clustering
- Multi-table indexes

 Table- and columnlevel encoding

Faster & more faulttolerant data loading

 Automated postgresql.conf configuration

Parallel pg_dump



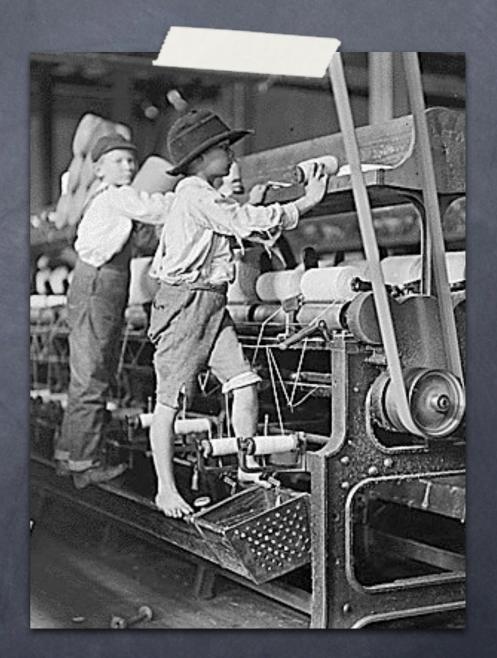
Success demands more awesome.

Image © colinaut <u>http://www.flickr.com/photos/headlouse/1484615917/</u> Attribution-Noncommercial-Share Alike 2.0 <u>http://creativecommons.org/licenses/by-nc-sa/2.0/</u>

How can you add more awesome?

Labor

Who? Any employees got the chops? Give them the time? Know anyone who does?
 Find someone to do the work! Figure out what they need



PostgreSQL Dev Cycle

WIP patches Commit Fests Alpha releases ø Beta releases Fork next version RC and release



Blue Print

Come up with implementation plan Discuss on pgsql-hackers Adapt to feedback and criticism Integrate suggestions Keep at it Finalize proposal





Get community buy in.

Scheduling

How long will it take?
How much will change between iterations?
Plan for current dev cycle or next?

How much funding to make it happen?



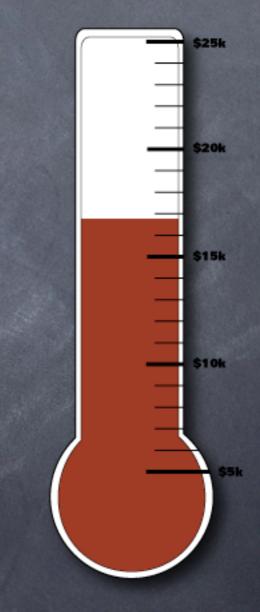
Moolah

- Surest way to push development forward
- Got able developer with no time?
- Buy some for them!
 - Can your org pay for it?
 - How much are you saving on Oracle licensing?
 - Can you organize a fund?
 - Who else can contribute?



Fundraising

- Publish milestones
- Publish a site (Kickstarter?)
- Establish sponsorship levels
- Offer incentives for sponsors
- Set targets and deadlines
- Marketing!
- Display progress graphically
- Accept payments



Hacking

Get started with some funds raised Demonstrate its reality Send WIP patches Get into commit fests Discuss design issues ad nauseum Bike shedding!

Fully Committed

- Shepherd through commit fests
- Respond to all reasonable comments
- @ SHIP
- Work with committee
- Answer questions
- Address new design issues
- Celebrate



Where to start?

Simon Riggs 2nd Quadrant

Integrated partitioning syntax

Multimaster replication

Clustering

simon@2ndQuadrant.com



Robert Haar terprise

High CPU concu.

Track table and inder optimizer decision

hing to improve



Bruce Momjian Enterprise DB

Generate catalog comments from documentation

bruce@momjian.us



Andrew Dunstan PostgreSQL Experts, Inc.

- Faster and more fault tolerant data loading
- Parallel pg_dump
- Ragged CSV COPY

andrew.dunstan@pgexperts.com



Dimitri Fontaine 2nd Quadrant

- Ø DDL Triggers
- Improved parallel pgloader
- Trusted extensions
- Extension dependency bundling

dimitri@2ndQuadrant.fr



David Wheeler PostgreSQL Experts, Inc.

- ø pgTAP re-architecting
- ø PGXN extension bundling
- Ø PGXN instant upload propagation
- Ø PGXN Favorites

Additional PGXN author metadata
<u>david.wheeler@pgexperts.com</u>



Magnus Hagander Redpill Linpro

- Revamp the logging system
- Fix SSL issues
- Support another SSL Library

magnus@hagander.net



Hannu Krosing 2nd Quadrant

Improved PL/Python integration

- Replication sharding support
- Time travel (á la Oracle)
- Index-like tuple visibility
 - Index-only scans
 - column storage

tale compression



Alexander Korotkov Moscow

- Statistics selectivity estimation for geometric data types
- Improved approximate string matching functions
- GIN/GIST/SPGist access to improved string matching functions
- Signature indexing, e.g. to index images for similarity
 <u>aekorotkov@gmail.com</u>

Josh Berkus PostgreSQL Experts, Inc.

Update and maintain newsysviews extension
median() and quartile() window aggregates
pgTune Configuration wizard





Other Ideas

- Distributed queries
- Multi-threaded queries
- Stored procedures
- ROLLUP and CUBE
- ø pg_dumpall custom
 format

User isolation levels
Indexed FDWs
Writable FDWs

Thank you.

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