

# PostgreSQL's Path to the Future

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This talk is about what the future holds for PostgreSQL.

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# The Road to the Top Is Rarely Straight



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# No Catapult



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# Meandering Improvement



<https://www.flickr.com/photos/127619525@N05/>

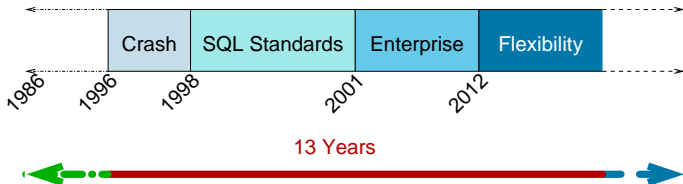
# Companies Have Clearly Defined Goals (\$)

- ▶ Profitable
- ▶ Initial Public (Stock) Offering (IPO)
- ▶ Company Sold or Merged
- ▶ Company Survives

# Open Source Has a More Varied Goals

- ▶ Feature Set
- ▶ Adoption of Open Source
- ▶ Challenge/Fun

# PostgreSQL Evolution



# PostgreSQL 8.0

## January 2005

- ▶ Win32
- ▶ Savepoints
- ▶ Point-In-Time Recovery
- ▶ Tablespaces



# PostgreSQL 8.3

## February 2008

- ▶ Heap-Only Tuples (HOT)
- ▶ Asynchronous Commit
- ▶ Smoothed Checkpoints
- ▶ Auto-Tuned Background Writer
- ▶ Reduced Storage
- ▶ Synchronized Scans
- ▶ ORDER BY ... LIMIT without sorting

# Features

When we are playing feature catch-up, we are doing so against software from the largest software companies in the world: **Oracle, IBM, Microsoft**. We have passed everyone else. Full parity is within reach.

# Performance

Continue expanding performance beyond traditional workloads. Improved resource usage for a single session will be a primary focus. (CPU, memory, disk)

# Adoption, Mind Share

- ▶ Press
- ▶ Company Support
- ▶ Third-Party Applications
- ▶ Visible Usage

## Define Relational Databases

- ▶ Features
- ▶ Administration
- ▶ Performance

# Conclusion



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