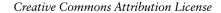
#### PostgreSQL's Path to the Future

BRUCE MOMJIAN



This talk is about what the future holds for PostgreSQL.

https://momjian.us/presentations





Last updated: November 2021

# The Road to the Top Is Rarely Straight



https://www.flickr.com/photos/13802839@N05/

# No Catapult



https://www.flickr.com/photos/wolfsavard/

## Meandering Improvement



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

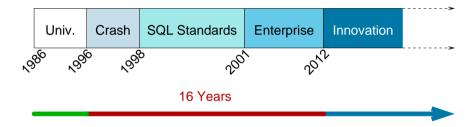
## Companies Have Clearly Defined Goals (\$)

- 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)
- Asynchonous 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

# Leadership

#### Define Relational Databases

- Features
- Administration
- Performance

#### Conclusion



