

# PostgreSQL: Past, Present, and Future

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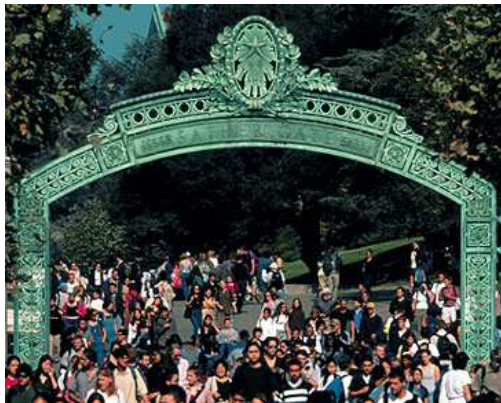
POSTGRESQL has deep roots, a wide user base, and a bright future.

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# PostgreSQL Past

# The University of California at Berkeley





Michael Stonebraker



Jolly Chen and Andrew Yu

# PostgreSQL Code Base History

- ▶ Ingres — research prototype, spawned Relational Technologies, purchased by Computer Associates
- ▶ Postgres — research prototype, spawned Illustra, purchased by Informix
- ▶ Postgres95 — added SQL, spawned PostgreSQL

# PostgreSQL Through the Years

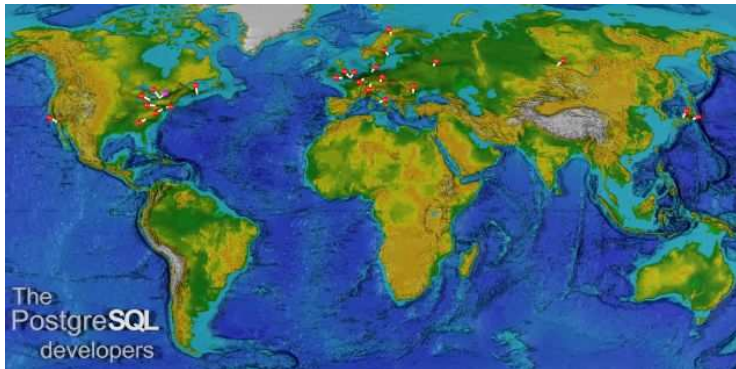
1977-1985 Ingres

1986-1994 Postgres

1994-1995 Postgres95

1996- PostgreSQL

# Developer's Globe



# PostgreSQL Core Team



Top row: Thomas Lockhart (retired), Jan Wieck, Tom Lane, Marc Fournier

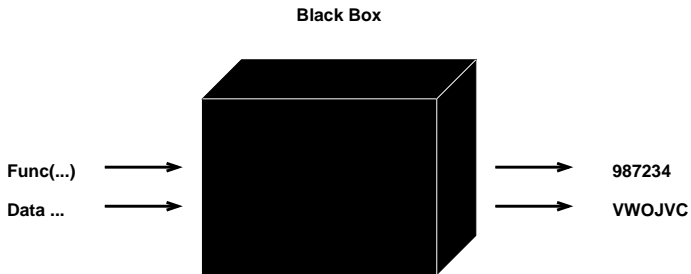
Bottom row: Vadim Mikheev, Bruce Momjian

# Release Dates and Sizes

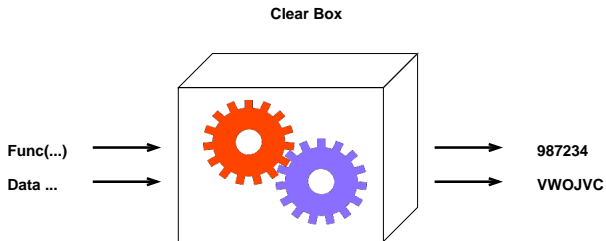
Date	Release	Lines of code
1994		244,581
1996-08-01	1.02.1	
1996-10-27	1.09	178,976
1997-01-29	6.0	
1997-06-08	6.1	200,709
1997-10-02	6.2	225,848
1998-03-01	6.3	260,809
1998-10-30	6.4	297,918
1999-06-09	6.5	331,278
2000-05-08	7.0	383,270
2001-04-13	7.1	410,500
2002-02-04	7.2	394,274
2002-11-27	7.3	453,282
2003-11-17	7.4	508,523
2005-01-19	8.0	654,437
2005-11-08	8.1	630,422

# Why Users Choose PostgreSQL

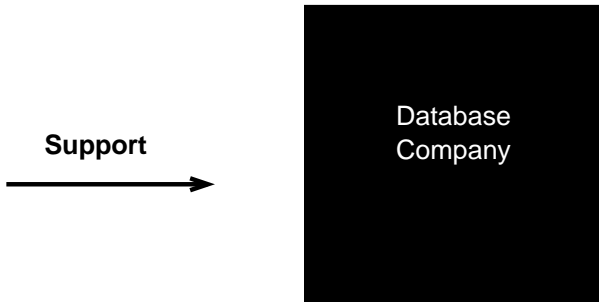
# Closed-Source Software



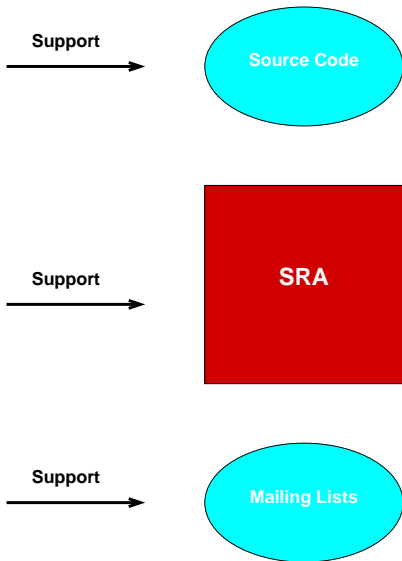
# Open-Source Software



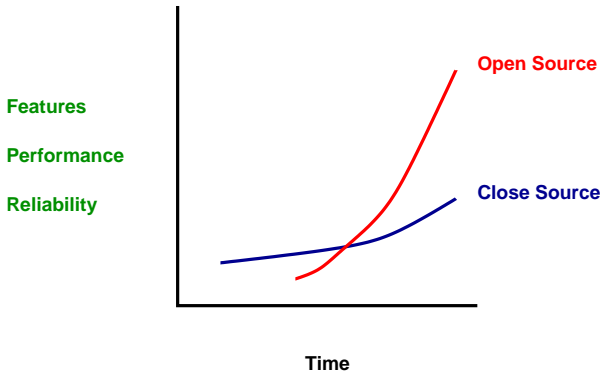
# Support of Close-Source Software



# Support of Open-Source Software



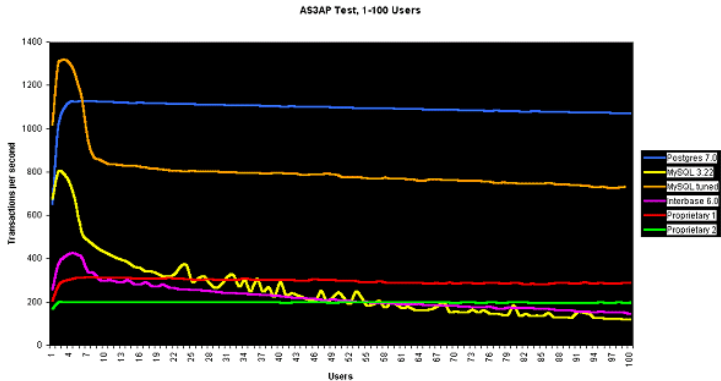
# The Future of Open Source



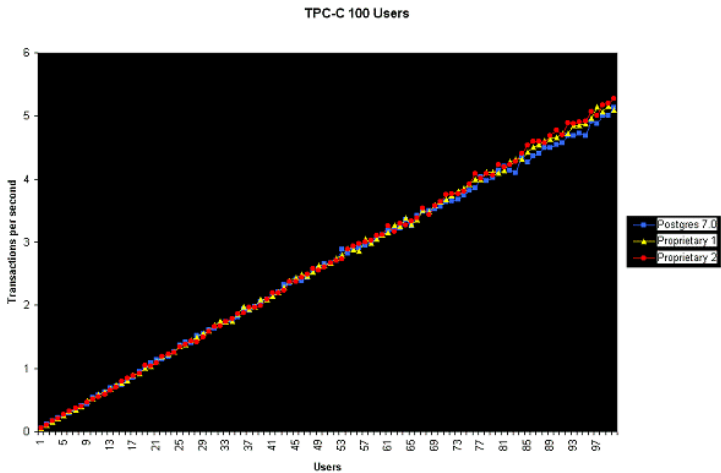
# Savings



# Performance - AS3AP



# Performance - TPC-C



# PostgreSQL in the Real World

# Database Migration

- ▶ Oracle
- ▶ IBM's DB2
- ▶ Microsoft-SQL
- ▶ Microsoft Access
- ▶ Informix
- ▶ Interbase
- ▶ Dbase/FoxPro
- ▶ MySQL

# PostgreSQL Usage

- ▶ Order Entry, Inventory, Billing
- ▶ Customer Relations Management (CRM)
- ▶ Data warehouse, data analysis
- ▶ Medical/Hospital records storage
- ▶ Genetics
- ▶ Financial Accounting, Banking, Payroll
- ▶ Military
- ▶ Government, Social services, Elections
- ▶ Education
- ▶ Publishing
- ▶ Geography (GIS)
- ▶ Hotel Reservations, Restaurants
- ▶ Telephone billing, call tracking
- ▶ Helpdesk problem report tracking
- ▶ Sales tracking
- ▶ Business to business commerce

# PostgreSQL Web Site Usage

- ▶ Product purchase
- ▶ User preferences
- ▶ Job listings
- ▶ Auctions
- ▶ Real estate listings
- ▶ Community building
- ▶ Dynamic content
- ▶ Text indexing

# Users

- ▶ DaieiOMC
- ▶ Tsutaya
- ▶ BASF
- ▶ The American Chemical Society
- ▶ .Org

# Future Directions



# Conclusion



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