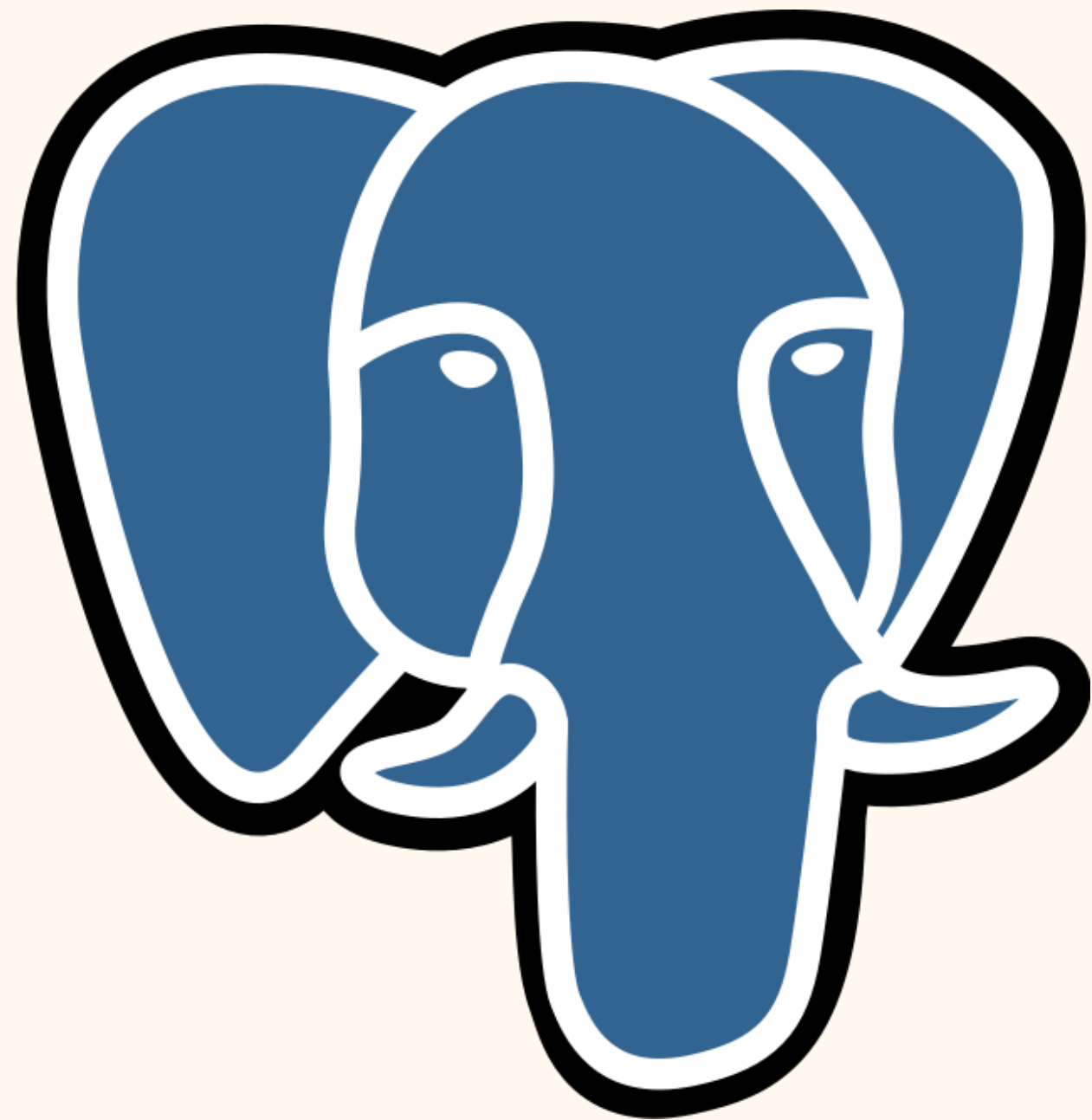# PostgreSQL

Insper 2024

Open Source Development

Purpose

A powerful, open source object-relational database system

- Originated in 1986, in the University of California at Berkley.

- The project ensures data integrity with ACID compliance while continually improving scalability and performance, in order to attend both small and large-scale applications.

Code & Technologies

THE

C

PROGRAMMING
LANGUAGE

- C is the main language used in this project's source code, composing up to 85% of the languages used in source repository.
- Perl is the other major programming language used in the project.
- The source code is maitained in the git.postresql.org domain.
- 700+ Contributors.
- 56,500+ Commits.

License, Guidelines & Contributions

- PostgreSQL License, similar to the BSD or MIT licenses.
- Contributions managed through open mailing lists where discussions primarily take place.
- Core members have decision making power on the development aspects.
- The community encourages contributions from everyone.

Documentation

- As a database used widely in the industry, there are many sources of documentations for this project.
- The official documentation is found in wiki.postgresql, containing user and developer content.
- There are dedicated sections of documentation regarding how newcomers may contribute to the project.

Contributing

- The requirements to contribute to the project are:
  - C and Perl development environment
  - Compile PostreSQL
  - Succesfully run test suites
- There are several different ways to compile the project.
- Contributing may be hard:
  - Complex code base
  - Several steps to be executed
  - "Agressive" communication style

How is it governed?

Bruce Momjian
PostgreSQL Core Team
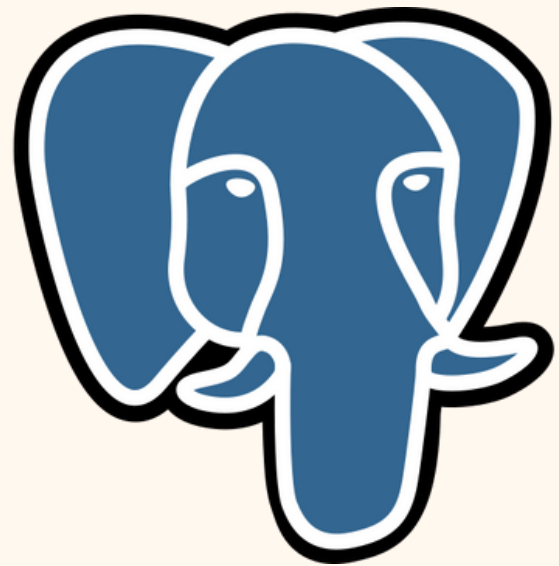

Tom Lane
PostgreSQL Core Team

Magnus Hagander
Community Leader

Robert Haas
Community Leader

- Meritocratic model, primarily driven by its community of contributors.
- PostgreSQL Core Team → long-time contributors and leaders within the community.
- Governance is collaborative, with decisions made through consensus within the community, especially on technical matters.
- There isn't a public roadmap, instead the development is driven by the contributions from the community and the needs of the users.
- External contributions are accepted and encouraged in this project.

Members & Help

- Mailing lists (pgsql-hackers)

- PostgreSQL IRC Channels (Libera chat)

- PostgreSQL Wiki

- Conferences and events: PgCon, PostgresConf

- Github

Does it raise funds?

Being an open-source initiative, it operates on a model of community support and contributions rather than traditional fundraising.

However, it does receive financial support in a few key ways:

- Sponsorships
- Support Services
- Donations

Thank You!