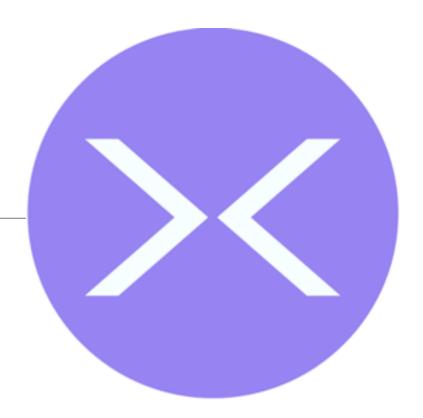
DBXTalk/Garage

A strategy to RDBMS connectivity



Esteban Lorenzano

Author of DBXTalk (with many others), Voyage and your Pharo fireman:)

One year ago...

DBXTalk suite

- Pharo strategy to RDBMS connectivity
- Includes:
 - GLORP
 - Database drivers
 - Other tools

GLORP

- "The" ORM for Smalltalk dialects (no point on doing another).
- Mature, modern, proven, used, tested, all what you might want (except cookies).
- "GLORP is amazing!" (Niall Ross, a couple of years ago)
 - Just... Pharo port of GLORP is less amazing:)

GLORP for Pharo

- Old port...
 - Nobody knows when was branched :(
 - Is not completely ported
 - Some are working on it, but cost of maintaining is growing
- Compatible with PostgresV2, NBSqlite3 and OpenDBX

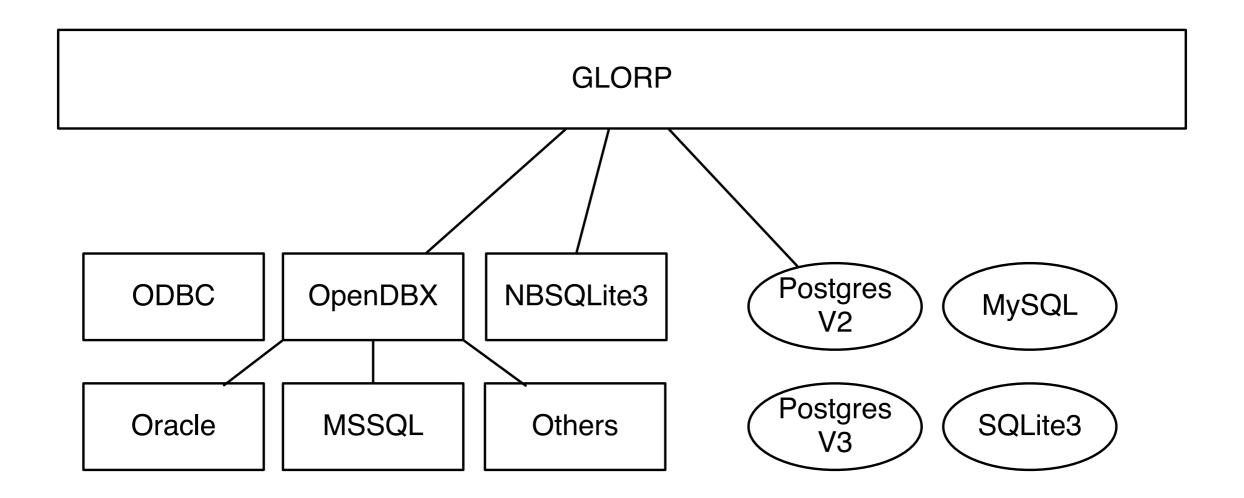
Database drivers

- There are several native drivers on Pharo (for noncommercial databases)
 - PostgresV2, PostgresV3, Sqlite3, MySQL
- They are good, but:
 - Incompatible APIs (so is hard to plug them into GLORP)
 - Dispersed, not clear maintenance strategy

Database drivers

- We provide OpenDBX driver to connect with commercial databases:
 - · Oracle, MSSQL, others.
- Uses FFI so it blocks VM on execution.
- Is "yet another layer", so not all capabilities are provided.

architecture



Documentation

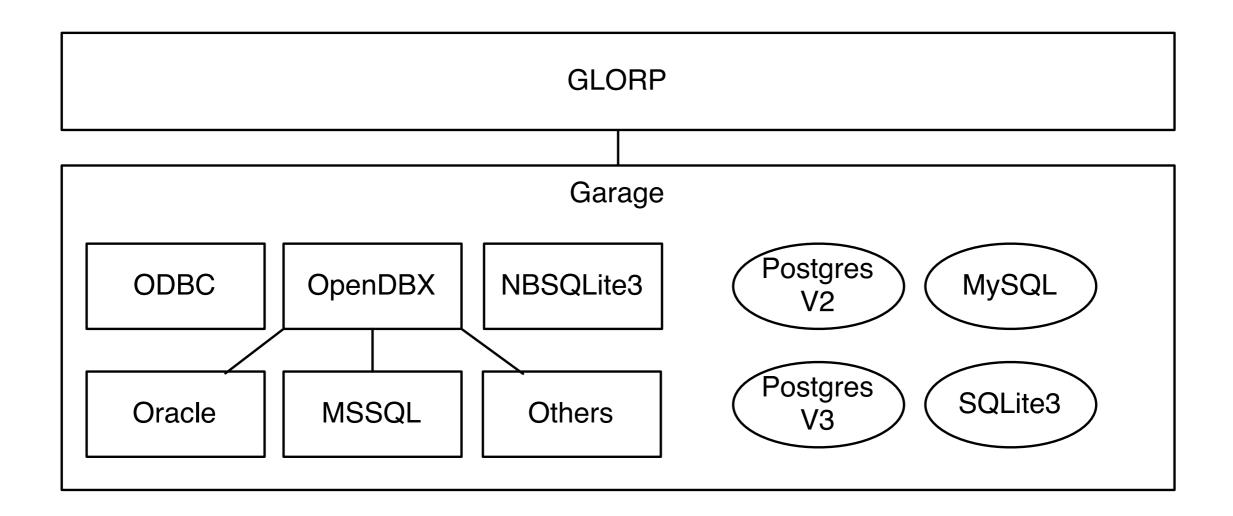
- There is none, or almost none.
- When it is, people does not know where to find it.

Now

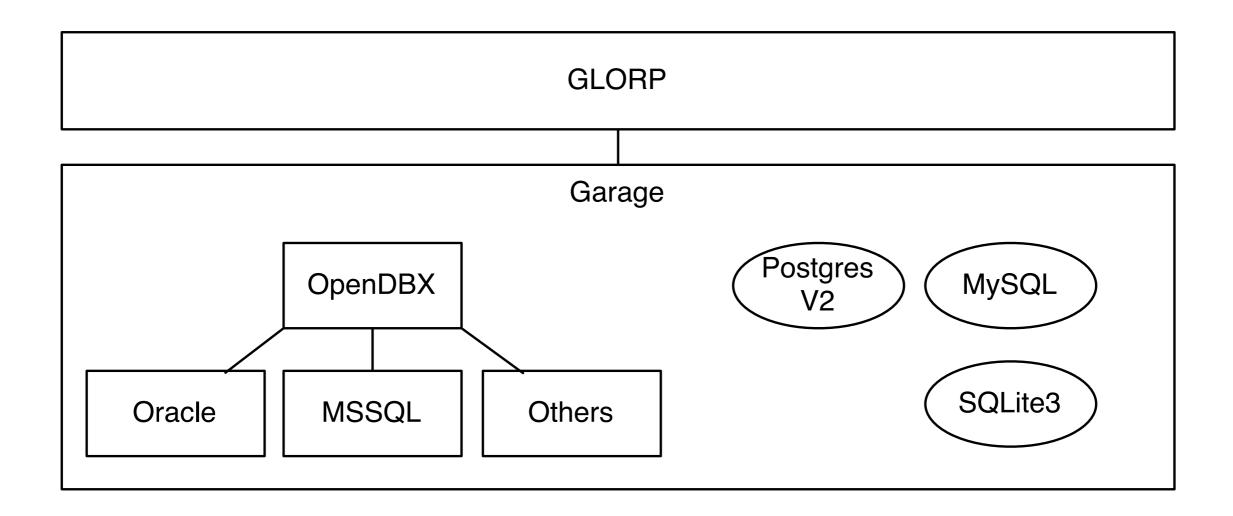
Garage

- Common API to connect relational drivers (think on JDBC)
- Compatible with GLORP
- Implements drivers for:
 - Sqlite3, PostgresV2, MySQL
 - · ... and OpenDBX

Architecture

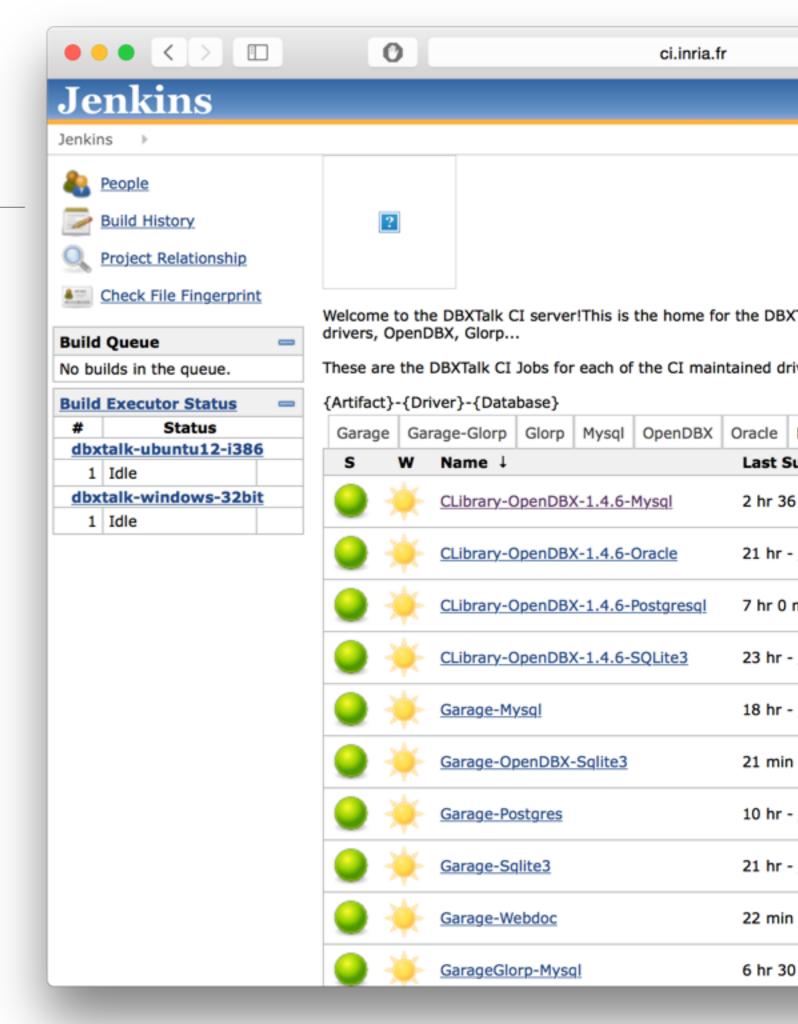


Architecture



Jenkins

- OpenDBX for Oracle, MySQL, Postgresql and SQLite3
- Native MySQL, PostgresV2 and NBSQLite3
- GLORP + Garage
- Linux and Windows. Mac soon(TM).
- Yes, it is just 32bits
- https://ci.inria.fr/dbxtalk



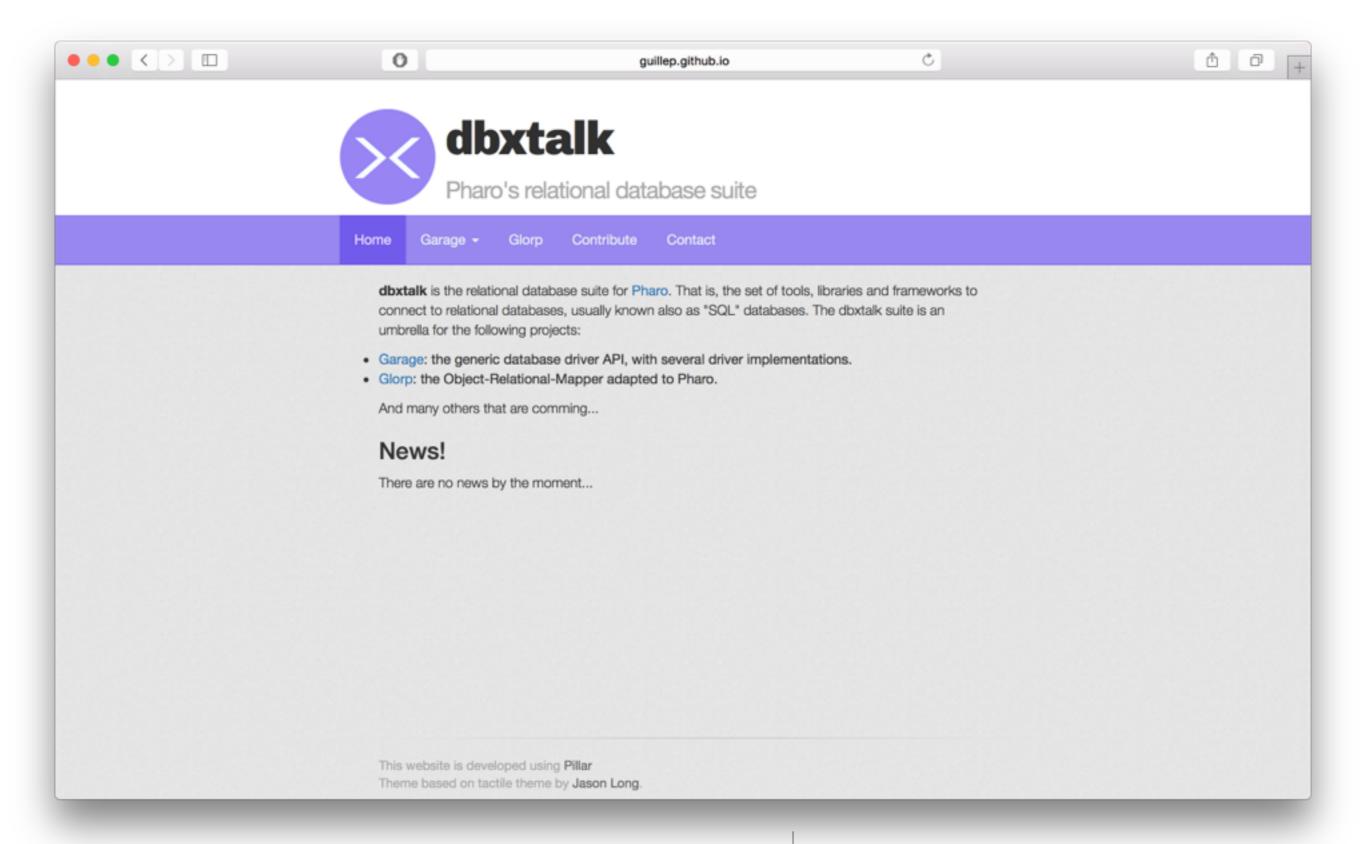
Next year

We really need

- New GLORP port.
- Threaded VM
 - · ... and OpenDBX drivers to take care about.
- DOCUMENTATION!

Would be nice

- Add drivers (as needed, as always).
- Replace FFI drivers with native drivers when possible (but many vendors does not share the API).
- Replace OpenDBX with vendor libraries (but this does not have much sense before ThreadedVM).
- DOCUMENTATION!



DBXTalk/Garage http://dbxtalk.smallworks.eu

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