

The logo for 'DBX TALK' is centered on a light blue globe. The globe has a white landmass and a blue ocean. In the background, there is a stylized lighthouse with a red body and a blue top, emitting a bright yellow and orange light. The text 'DBX TALK' is overlaid on the globe. 'DBX' is in a large, bold, blue font with a black outline and a blue glow. 'TALK' is in a smaller, bold, black font with a white outline and a black glow.

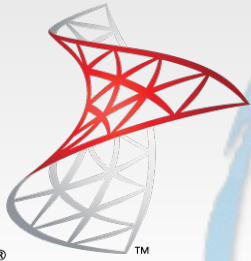
DBX TALK

PharoConf@2012
Ing. Guillermo Polito

Relational DBMS

Still broadly used in the software Industry, by tons of people

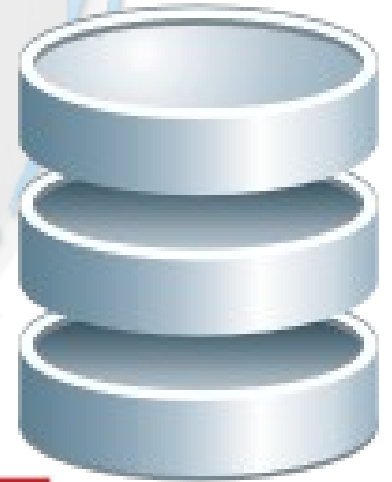
- Legacy Software
- New Software



Microsoft®
SQL Server®



ORACLE®



We want to use *Pharo* !



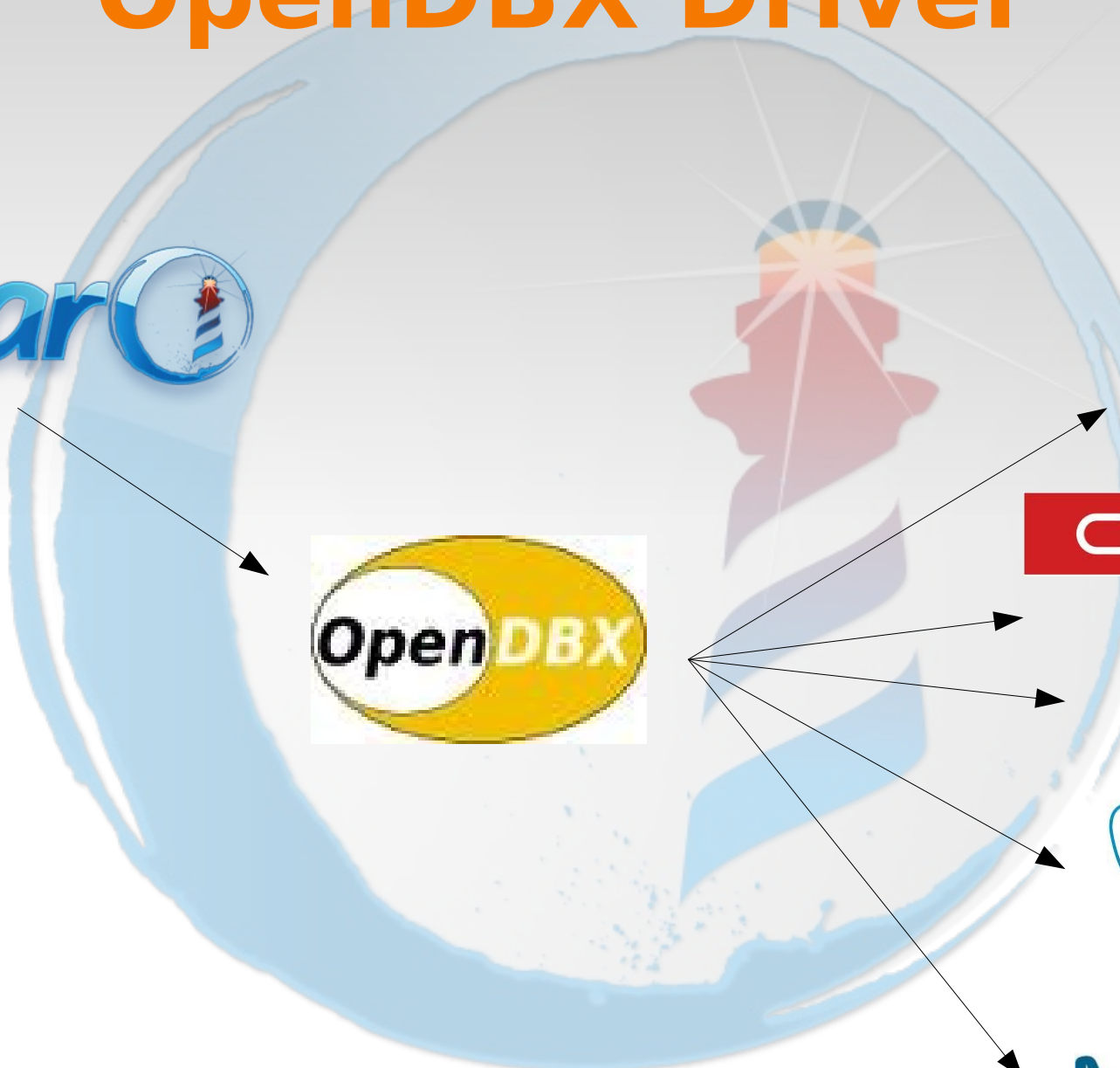
What is DBXTalk?



An Open Source Relational DB Solution for Pharo

- A common Database API - OpenDBX Driver
- An ORM - new Pharo Glorp Port
- Scaffolding Tools - Phoseydon
- A query browser tool- Neptuno

OpenDBX Driver



OpenDBX Numbers & Limits

Benchmark	PosgreSql	Mysql	Oracle	SqlServer	Sqlite3
Insert 800 String rows	773.8	196.5	2510.7	1240.8	3843.9
Insert 800 Pharo Basic objects with conversion	1352.5	748.9	3568.5	1655.4	4141.6
Select 10 rows	5.0	5.4	12.3	10.8	2.9
Select 100 rows	44.3	49.2	67.8	32.2	24.5
Select 1000 rows	430.1	485.5	630.7	301.8	204.6

- Blocking a bit the VM (Need a threaded one!)
- Not all backends implement async queries
- Common denominator of APIS (lose some features)

Pharo Glorp port



Our Object-Relational Mapper, working on:

- Oracle
- MySql
- PostgreSQL
- SQLite
- SqlServer
- ODBC

Phoseydon

(application entityNamed: #Person)

hasInteger: #id;
hasString: #name;
hasInteger: #age;
hasBoolean: #isProgrammer;
hasMany: #Pet as: #myPets.

((application entityNamed: #Person) attributeNamed: #id) bePrimaryKey.

(application entityNamed: #Pet)

hasInteger: #id;
hasString: #name;
hasOne: #Person as: #owner.

((application entityNamed: #Pet) attributeNamed: #id) bePrimaryKey.



seaside 

Neptuno

The screenshot displays the Neptuno database browser interface. The main window is titled "Neptuno - The DBXTalk Browser". On the left, a "Connections" pane shows a tree view of database objects under the connection "pgexample", with "pg_trigger" selected. The "Query Panel" shows the connection "pgexample" and a query: "select * from pg_description". Below the query panel, a "Results" table is visible, showing columns "objoid" and "classoid". The row with "objoid" 11060 is highlighted. An "Inspect Table" window is open, showing the "Columns for pg_trigger" tab. This window contains a table with the following data:

Column name	Null	Type	Length
tgargs	true	bytea	nil
tgdeferrable	false	boolean	nil
tgconstrrelid	false	oid	nil
tgfoid	false	oid	nil
tgargs	false	smallint	nil
tgrelid	false	oid	nil
tgconstrname	false	name	nil
tginitdeferred	false	boolean	nil
tgattr	false	ARRAY	nil
tgname	false	name	nil
tgconstraint	false	oid	nil
tgenabled	false	'char'	nil
tgisconstraint	false	boolean	nil
tgtype	false	smallint	nil

The taskbar at the bottom shows several open windows: "Welcome", "Workspace", "Monticello Browser", "Repository: http://...", "Neptuno - The DBXT...", and "Inspect Table".

So, Thanks!



Esug Summer of Talk 2011!!!

Students: Guillermo Polito, Gisela Decuzzi, Santiago Bragagnolo

Mentors: Mariano Martinez Peck, Esteban Lorenzano, Diógenes Moreira

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for their contributions!

Future



- Release everything for 1.4 -currently working on 1.3- ;)
- Bit of help to release OpenDBX 1.4.6 CLib with Windows fixes
- More doc?
- Work on integration with seaside?



Questions?

DBX TALK

The logo for DBX TALK features the text 'DBX TALK' in a bold, black, sans-serif font with a white outline and a blue glow. The 'X' is significantly larger and has a bright blue, glowing effect. The text is positioned above a stylized globe. The globe is light blue and white, with a lighthouse silhouette in the center. The lighthouse has a red top and a white body with a blue spiral. A bright orange and yellow sunburst is at the top of the lighthouse, casting light across the globe.

- dbxtalk.smallworks.com
- <http://code.google.com/p/dbxtalk>
- <http://groups.google.com/group/dbxtalk>