

# Introduction



About myself

Been using Firebird since  
source came out.

Now i'm working as sysadmin/programmer at reea.net

# FlameRobin – what it IS



- A graphical administration tool for Firebird
- Small footprint
- Cross platform
- Built with open source tools and components

# FlameRobin – What it is NOT



- Full-featured tool
- Does-it-all tool
- Why not? ... FlameRobin goals are:
  - Get beginners started with Firebird
  - Provide a complete \*nix administration GUI
  - ...without emulation

# Short History



- Beginning of 2003, on Firebird mailing-lists
- Need for graphical \*nix tool
- Paul Schmidt and co.
- FBManager project at sf.net

# Short History



- Choice of programming language and connectivity library
  - Java & JayBird
  - Python & KinterbasDB
  - PHP
  - C++ & IBPP

# Short History



- Choice of GUI toolkit
  - wxWidgets
  - nCurses
  - Qt
  - Gtk

# Short History



- A real beginning
  - January 2004. first code that works
  - February 2004. Nando Dessena & Gregory Sapunkov join the project
  - May 2004. project renamed to FlameRobin
  - July 2004. first Alpha version is out
  - October 2004. Michael Hieke joined

# The Name and Logo



FlameRobin

- Name to resemble Firebird
- Petroica Phoenicea
- A small australian bird with...
- ...bright orange breast and throat

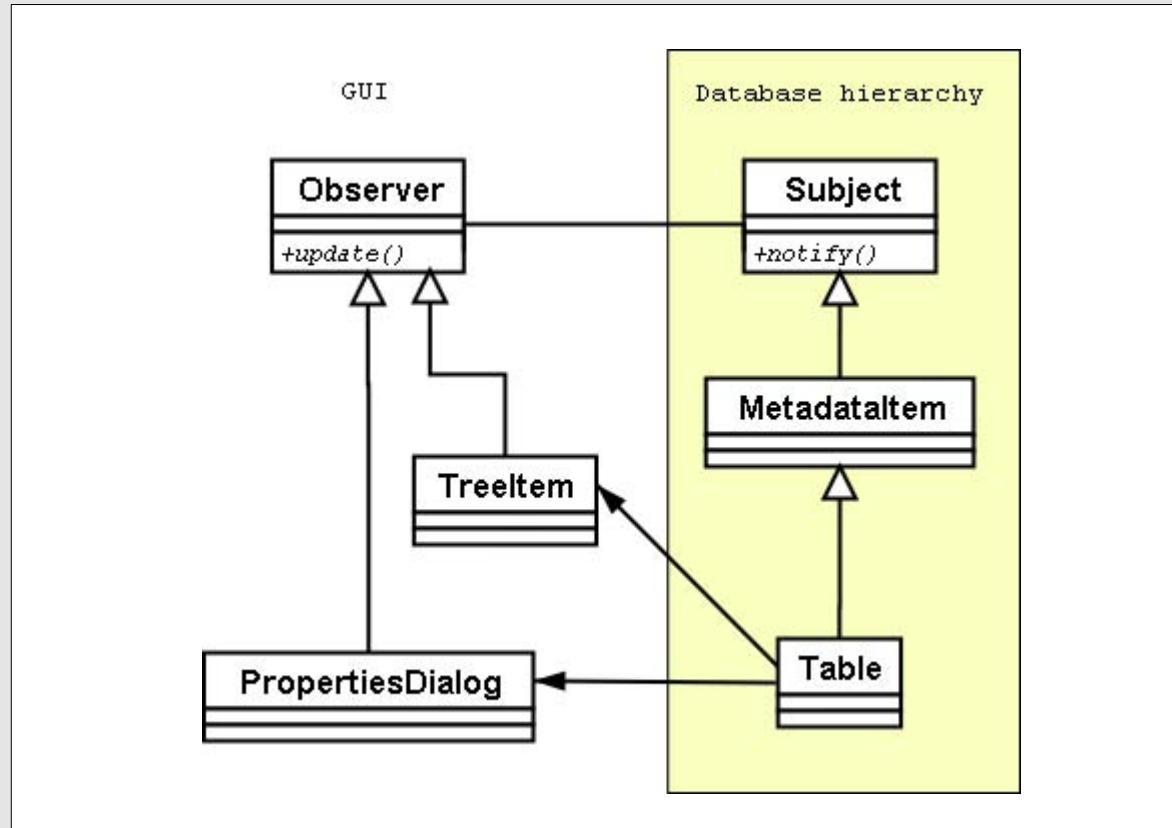






- Don't follow the crowd – innovate
  - HTML properties windows (user editable)
  - Always visible SQL statements
  - Automatic synchronization of state in db and FR ...
  - ...via Observer pattern

# The Observer Pattern



- Parse SQL statements and update internal state

# Current status



- Still in Alpha
- Latest release 0.7.6 (included in ubuntu)
- Ports
  - Win32
  - Linux
  - Mac OS X
  - FreeBSD
  - Solaris (someone compiled it)

# Win32 port



The screenshot shows the Firebird SQL editor interface. The main window displays the query: `1 select * from PROJ`. A list of table columns is shown, with `PROJECT` selected. The status bar at the bottom indicates: `SYSDBA@C:\Program Files\Firebird\examples\EMF 6 rows fetched. 19:1 Transaction started`.

Statistics Data

```
Starting transaction...
Preparing query: select * from PROJECT
Prepare time: 00:00:00.
PLAN (PROJECT NATURAL)

Executing...
Done.
Execute time: 00:00:00.
```

The screenshot shows the "Backup Database" dialog box for the database `vaio/gds_db:D:\Borland\Firebird_1_5\exa...`. The backup file is `D:\employee_2004-11-16.fbk`. The "Show complete log" checkbox is checked. The "Backup" button is highlighted.

Backup file: `D:\employee_2004-11-16.fbk`

Ignore Checksums  Only backup metadata  
 Ignore Limbo Transactions  Don't do garbage collection  
 Use non-transportable format  Convert external tables

Show complete log

Backup Cancel

Connecting to server vaio/gds\_db...  
Database backup started 15:21:38  
gbak: readied database D:\Borland\Firebird\_1\_5\examples\EMPLOYEE.FDB for backup  
gbak: creating file D:\employee\_2004-11-16.fbk  
gbak: starting transaction  
gbak: database D:\Borland\Firebird\_1\_5\examples\EMPLOYEE.FDB has a page size of 4096 bytes.  
gbak: writing domains  
gbak: writing domain FIRSTNAME  
gbak: writing domain LASTNAME  
gbak: writing domain PHONENUMBER  
gbak: writing domain COUNTRYNAME  
gbak: writing domain ADDRESSLINE

- Windows 98, Me, 2000, NT, XP, 2003

# Linux and FreeBSD ports



|   | PROJ_ID | PROJ_NAME           | PROJ_DESC | TEAM_LEADER | PRODUCT  |
|---|---------|---------------------|-----------|-------------|----------|
| 1 | VBASE   | Video Database      | [null]    | 45          | software |
| 2 | DGPIL   | DigiPizza           | [null]    | 24          | other    |
| 3 | GUIDE   | AutoMap             | [null]    | 20          | hardware |
| 4 | MAPDB   | MapBrowser port     | [null]    | 4           | software |
| 5 | HWRIL   | Translator upgrade  | [null]    | [null]      | software |
| 6 | MKTPR   | Marketing project 3 | [null]    | 85          | N/A      |

- Both 32 and 64 bit, using Gtk1 or Gtk2 libraries



select \* from PROJECT

Execute (F9) Commit (F5) Rollback (F8) Toggle view Wrap

```
1 select * from PROJECT
```

Statistics Data

|   | PROJ_ID | PROJ_NAME           | PROJ_DESC | TEAM_LEADER | PRODUCT  |
|---|---------|---------------------|-----------|-------------|----------|
| 1 | VBASE   | Video Database      | [null]    | 45          | software |
| 2 | DGPII   | DigiPizza           | [null]    | 24          | other    |
| 3 | GUIDE   | AutoMap             | [null]    | 20          | hardware |
| 4 | MAPDB   | MapBrowser port     | [null]    | 4           | software |
| 5 | HWRII   | Translator upgrade  | [null]    | [null]      | software |
| 6 | MKTPR   | Marketing project 3 | [null]    | 85          | N/A      |

SYSDBA@/Users/mh/employee.fdb 6 rows fetched. 1 : 1 Transaction started

- Using Carbon toolkit as back-end

# Current Features



- Browse databases
- View, edit and drop objects
- Backup & restore databases
- Powerful SQL editor



- syntax highlighting
- auto-completion
- bracket matching
- call-tips for procedures and UDFs
- history of statements, persistent between sessions
- show properties of selected object



# Some specific features



- Event Monitor
- Logging DDL statements
- Drag & drop query building
- Connect as...
- Exporting data
- Powerful context menus
- Editing objects' descriptions



- Features and goals for v1.0
  - \* Editable grid (automatically executes insert/update/delete statements)
- code submitted already in the same time i was in conference !
- <http://xrl.us/wtnn>
- 

<http://www.flamerobin.org/dokuwiki/doku.php?id=wiki:roadmap>



- Minor features for v1.0
  - \* creation, recreation and dropping of databases, while the registration info remains
  - \* duplicate (clone) registration info option for databases
  - \* ability to insert/update BLOB values from files
  - \* DB Grid: field editors for specific datatypes
  - \* support for array datatype



- Join the project
- Why?
  - learn something new
  - we aim to innovate
  - the project needs you



- How to help?
  - graphic artists: icons and images
  - doc writers
  - programmers: C++ coding
  - porters: improve Solaris port

# Questions



- ???