# Gambas Almost Means BASIC





### Gambas 2.0 RC 1



- Two years of development since the release of Gambas 1.0.
- Seven years since the first beginning.
- 400,000+ lines of code.
- About 350 classes.

### Quick introduction

- Gambas is a full-featured object language and development environment built on a BASIC interpreter.
- It is released under the GNU General Public Licence.
- Its architecture is largly inspired by Java.

### The Gambas BASIC

- About 250 keywords and native functions.
- Full error management.
- Full process control.
- Full support for watching file descriptors.
- Event loop support with timers.
- Native UTF-8 string support.
- Full internationalization and translation support.
- External function calls in shared libraries.

### The Gambas Object Language

Gambas is a true object-oriented language:

- Objects and classes.
- Properties, methods, constants and events.
- Public and private symbols.
- Polymorphism, i.e. virtual method dispatching.
- Single inheritance.
- Constructors and destructors.
- Array accessors, enumerators, sortable objects.

### The Gambas Object Language

Inheritance is entirely dynamic, and allows you to

- Create a more specialized version of an already existing class.
- Reimplement a class and extend it.

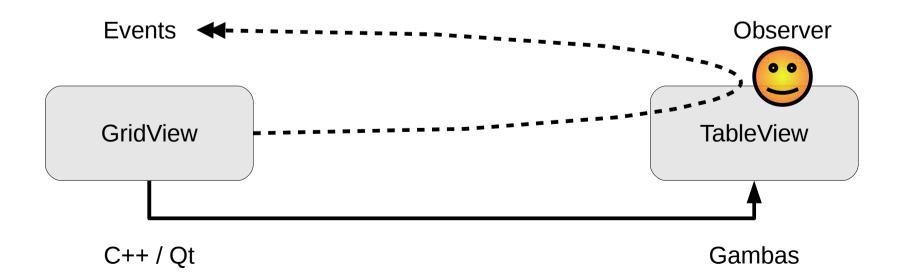
Override some methods or properties of a class.



"Inheritance" means how and when symbols are linked.

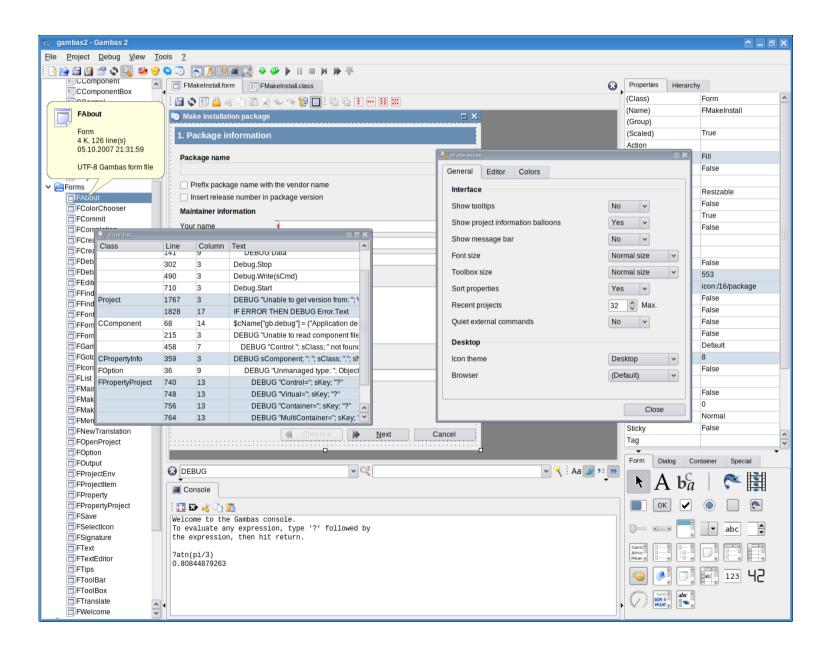
## The Gambas Object Language

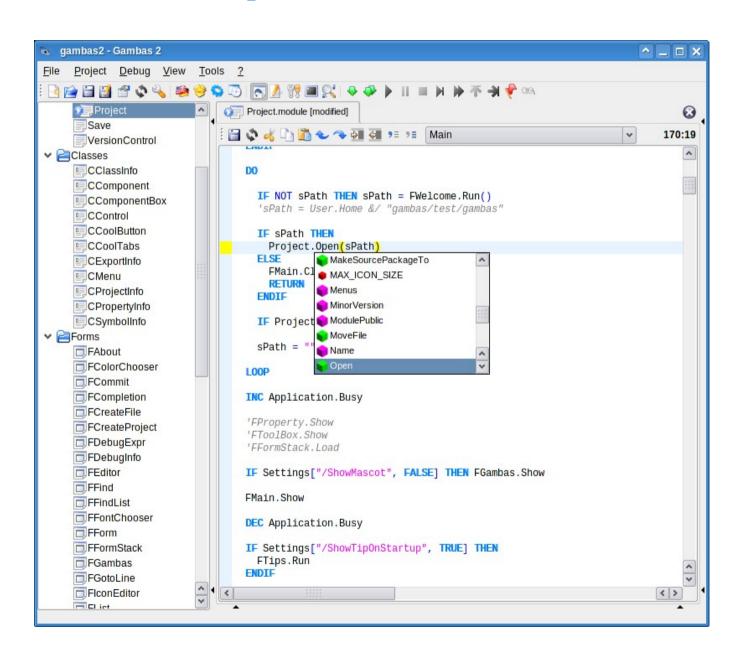
- Any classes can be inherited, reimplemented or overridden, even the native ones written in C/C++.
- Finally, a native class named Observer allows you to intercept any event raised by any object.

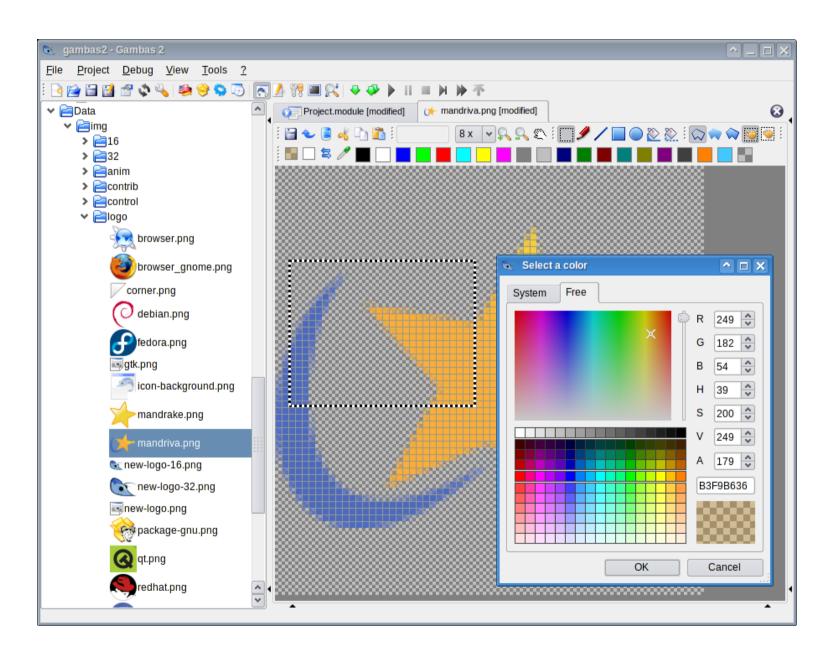


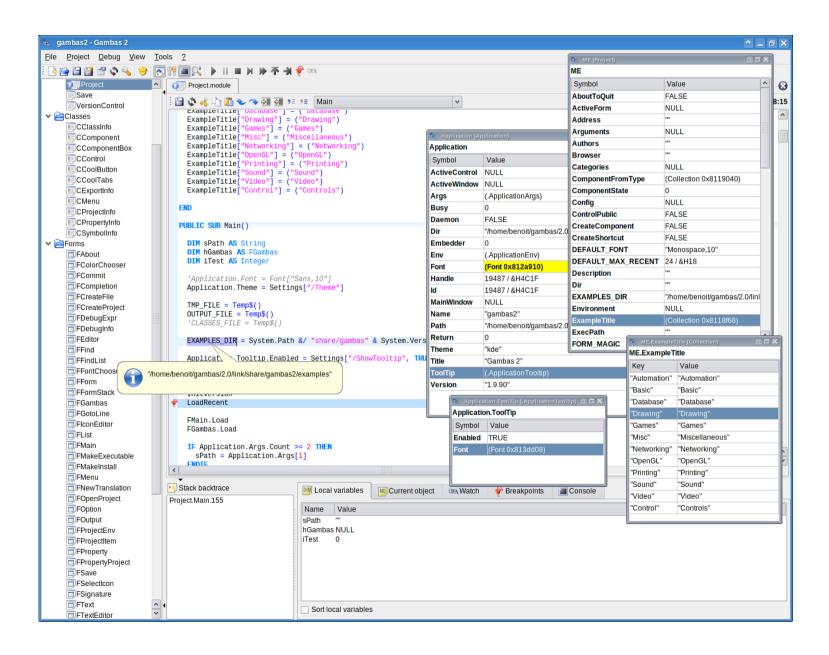
### The Components

- Access to many database systems: MySQL, PostgreSQL, SQLite, Firebird, ODBC.
- Graphical user interface programming, based on the QT toolkit, or the GTK+ toolkit.
- Network programming, with advanced protocol management: HTTP, FTP, SMTP, DNS.
- SDL and OpenGL programming.
- XML programming.
- CGI programming with session management.





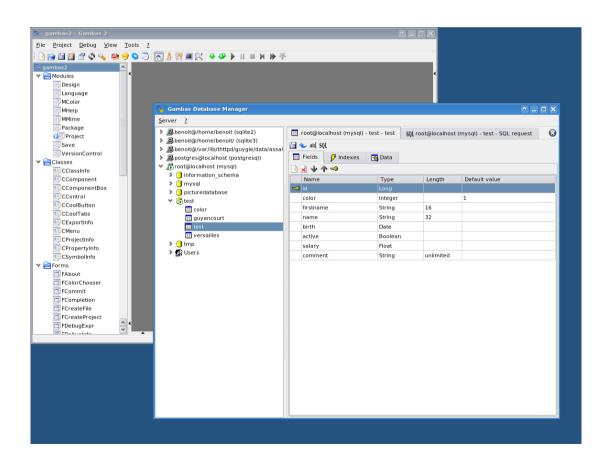




# The Declaration of Independance

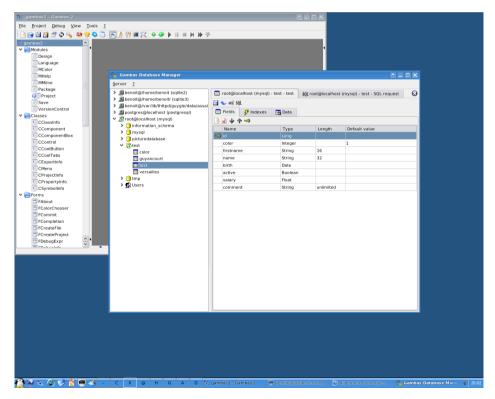
### Database independance

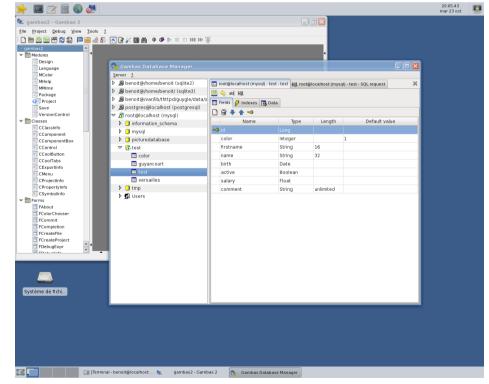
 Every database system is accessed through the same API.



### **GUI** independance

 The QT component and the GTK+ component have the same interface!





KDE XFCE

### Desktop independance

- Use icon themes according to the current desktop environment (KDE, Gnome or XFCE).
- The gb.desktop component, based on the shell scripts from the Portland project.
- A moving target.

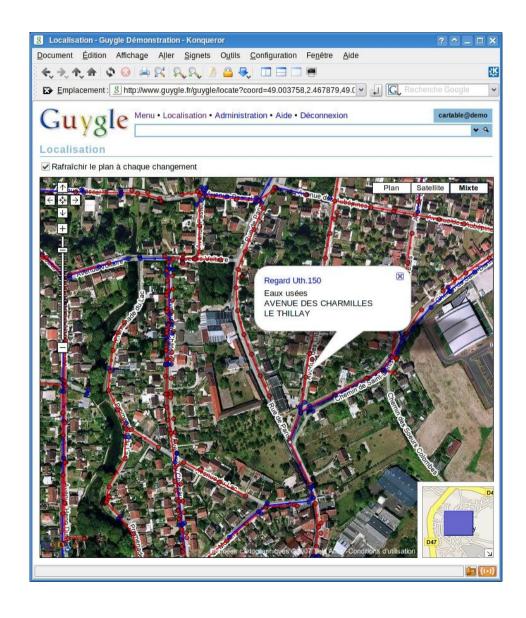
### **BASIC...** in 2007?

## **Play Flute?**





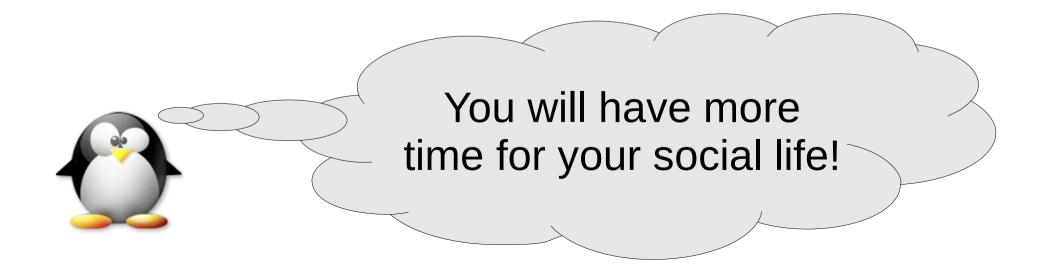
# **A Little Gambas Story**



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### **Morality**

- You do not have to be modern.
- You do not have to do modern.
- You should do simple.
- You should be simple.



### Future is not predictable

Positronic::Variables

Quantum:: Superposition

#### What Next?

- 64 bit support.
- DBus support.
- The merging of the database manager into the development environment.
- A report designer in the IDE.
- QT4 & Cairo support.
- Some KDE4 support.
- OpenOffice document generation helper.



http://gambasdoc.org

http://gambasrad.org

http://gambas.sourceforge.net

"When you are doing something, you have against you every people doing the same thing, every people doing the opposite thing, and the very large majority of people doing nothing."