

Glitch

A Visual Compiler

Document Version 1.0

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Introduction

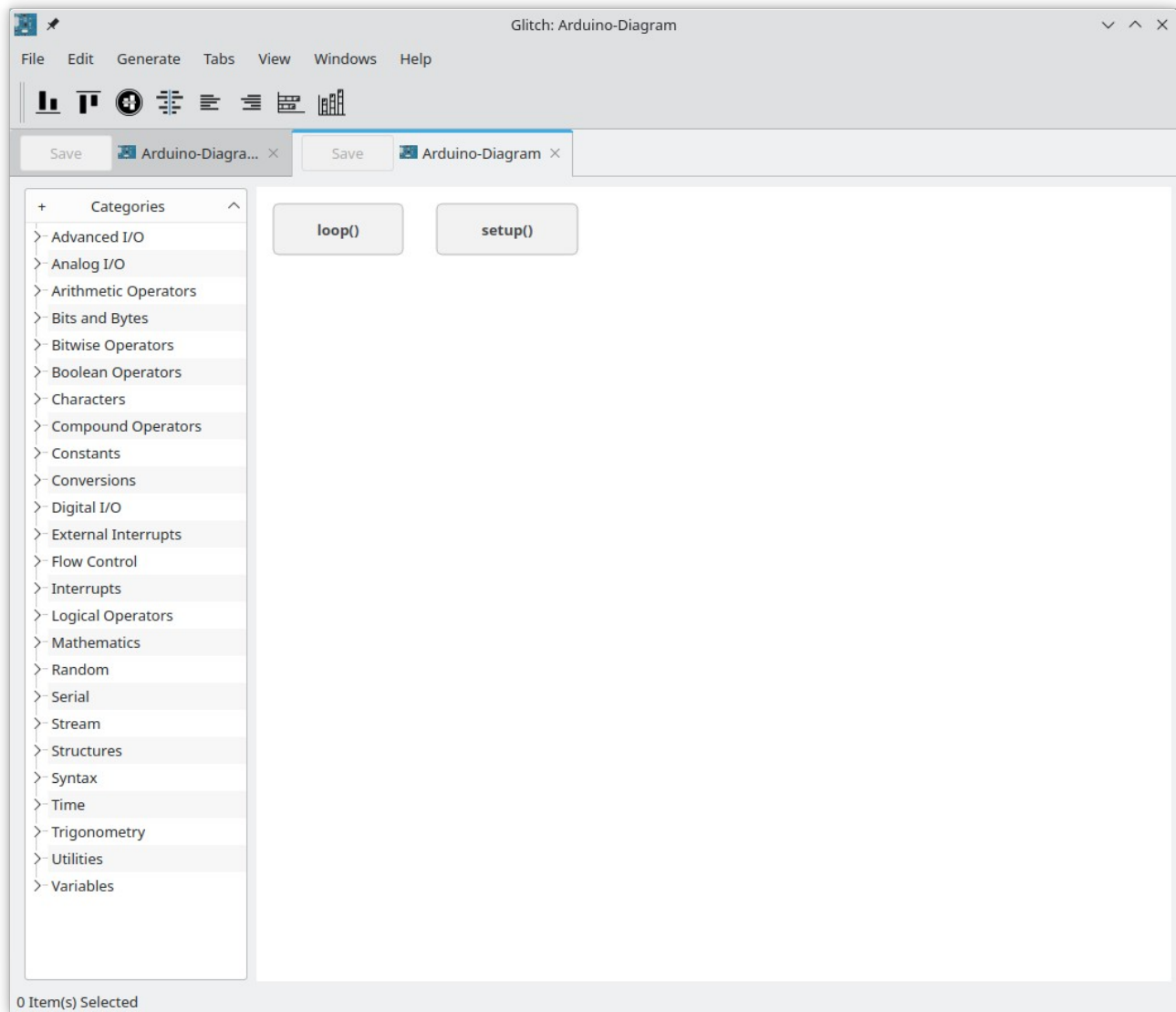
Glitch is a visual compiler. The software translates block diagrams (blueprints) into Arduino intermediate source. Glitch is also extensible with other frameworks, for example the C programming language.

Glitch should be functional on any operating system where Qt 5 LTS or Qt 6 LTS is supported. Qt 4.8.x is considered obsolete and is not supported. Qt 5.5.1 is supported for PowerPC and other operating systems.

The source of Glitch is available at <https://github.com/textbrowser/glitch>.

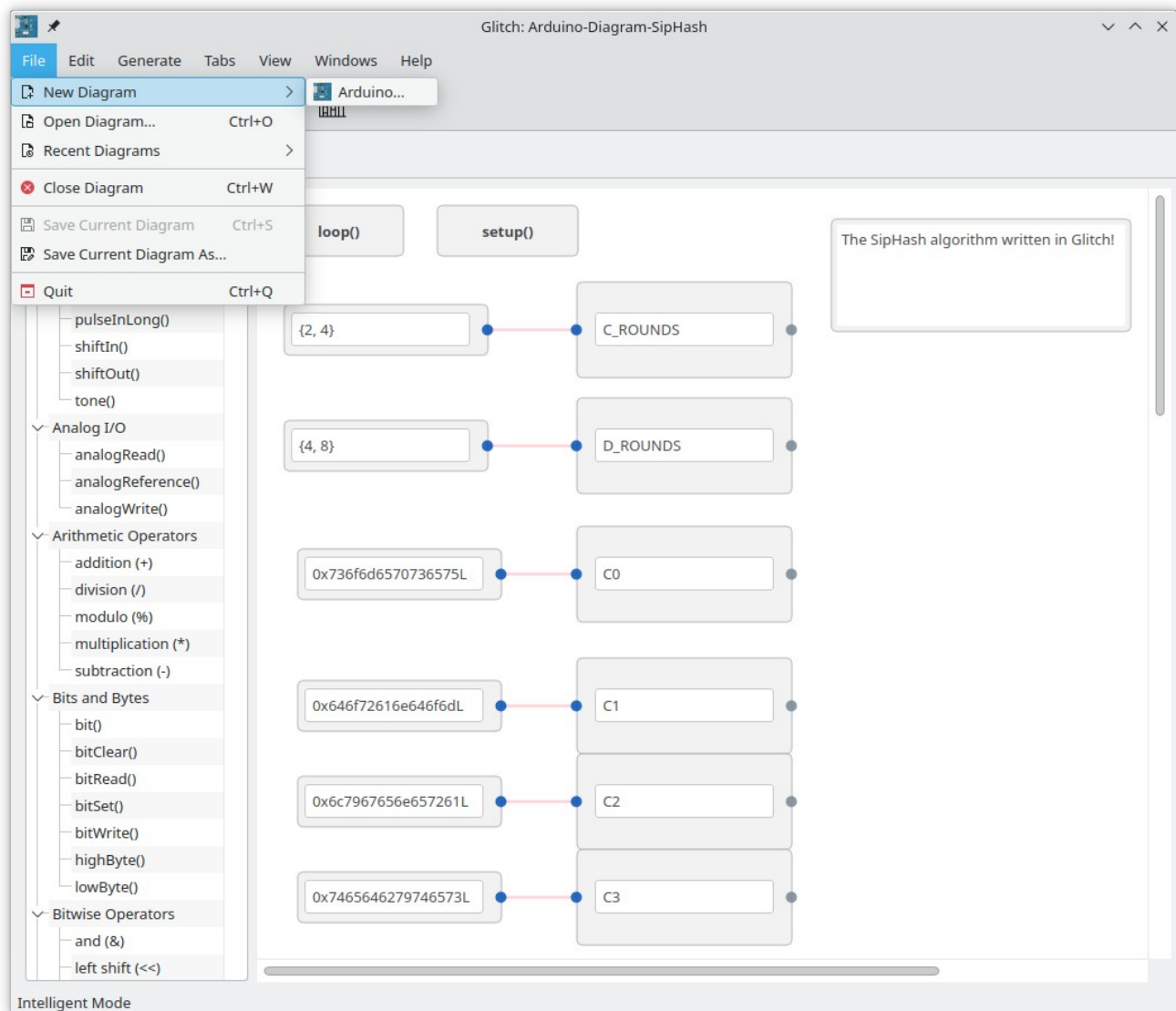
Arduino Special Functions

The Arduino programming interface requires two special functions, `loop()` and `setup()`. The functions are automatically assigned to all Arduino block diagrams.



Creating New Diagrams

New diagrams may be created via File → New Diagram → Arduino. After a diagram is initialized, editing may begin. To add an object, simply drag-and-drop it from the left-hand Categories tree widget.



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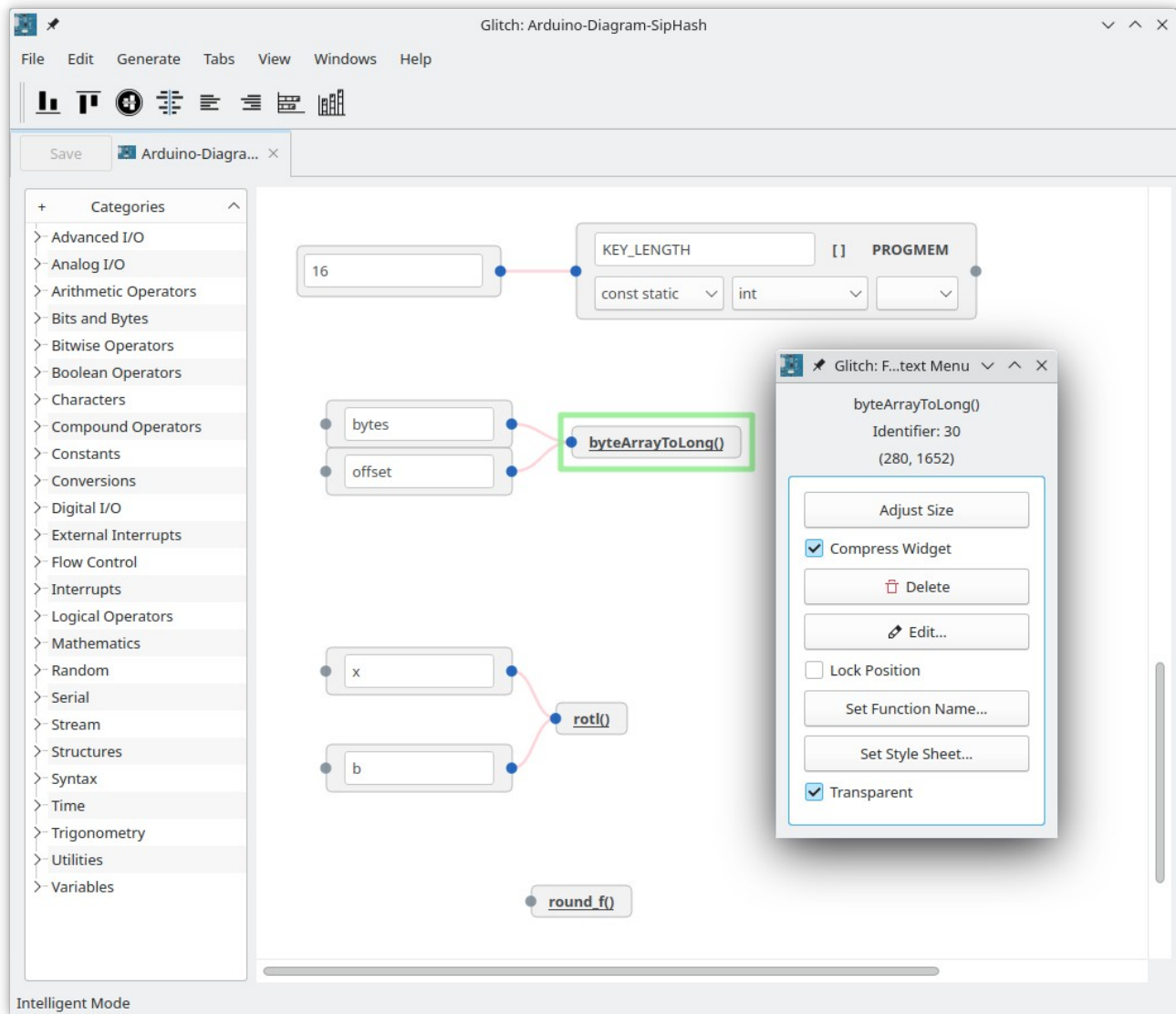
Document Changes

Version 1.00

- Initial version.

Editing Diagrams

Existing objects may be edited via direct interactions. Context menus are also available for each object. Copying and pasting objects are also allowed. A single redo / undo stack provides rich redo / undo behavior.



Operating Systems

Glitch supports Android, FreeBSD, Linux, Mac OS X, OS/2, OpenBSD, and Windows. Generally, the application should be compatible with any operating system where a modern Qt is supported. The software has also been tested on a variety of architectures, including AMD, ARM, PowerPC, and UltraSparc.

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SQL Injections

All Glitch SQL queries are parameterized. Prepared SQL statements are resilient against SQL injections.

Wiring Objects

Wired objects designate a graphical relationship between the wired objects. For example, a variable object wired to a function object suggest one of two things. For a main-diagram function, a wired variable connected to it imply that the function has one parameter. For a non-main-diagram function, a wired variable (or another object type) suggest that the function be issued with the wired input.



```
long rotl(long x, long b)
{
    return((((x) << (b))) | (((x) >> (((64L) - (b))))));
}
```

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