

Glitch

A Visual Compiler

Document Version 1.0

Table of Contents

Introduction.....3

Arduino Special Functions.....4

Creating Diagrams.....5

Document Changes.....6

 Version 1.00.....6

Editing Diagrams.....7

Operating Systems.....8

SQL Injections.....9

Introduction

Glitch is a visual compiler. The software is capable of translating block diagrams (blueprints) into Arduino intermediate source. The software is also extensible with other frameworks.

Glitch should be functional on any operating system where Qt 5 LTS and newer are supported. Qt 4.8.x is considered obsolete and is not supported.

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.

Glitch

Creating 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.

Glitch

Document Changes

Version 1.00

- Initial version.

Glitch

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.

Glitch

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 modern Qt is supported. The software has also been tested on a variety of architectures, including AMD, ARM, PowerPC, and UltraSparc.

Glitch

SQL Injections

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

Index

AMD.....	8	Mac OS X.....	8
Android.....	8	OpenBSD.....	8
Arduino.....	3	f. OS/2.....	8
ARM.....	8	pasting.....	7
block diagrams.....	3	PowerPC.....	8
blueprints.....	3	Qt.....	8
Categories.....	5	Qt 5 LTS.....	3
Context menus.....	7	redo / undo stack.....	7
Copying.....	7	setup().....	4
FreeBSD.....	8	UltraSparc.....	8
Glitch.....	3	visual compiler.....	3
Linux.....	8	Windows.....	8
loop().....	4		