Game Maker Thing

Game Design Document

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1.0 Overview

[] is a tool focused on allowing users to create their own levels and games using systems taken from simple electrical engineering widgets. Users can also share their levels with friends or publicly online to play or recreate.

1.1 Key Features

* 1. Project Points
* Release Date: 5/13/2016
* Platform: PC
* Audience: 8-18 children and young adults who want to get into learning about level design or enjoy creating and sharing interactive experiences.

2.0 UI Flow and Functionality

2.1 Opening Logos

* When the application is run, the Columbia College Chicago Logo is displayed.
* This is followed by the Michael Pattengale Logo.
* The user can advance through these after a short time.

2.2 Front-End Menus

2.2.1 Main Menu

The Main Menu UI allows the user to select from several options:

* Create New
  + Opens a new Build Scene.
* Load & Edit
  + Opens a Load Select Screen.
* Load & Play
  + A Pop-up appears with a textbox allowing users to enter a play code.
  + Once entered the player can hit a “Play” button to open a Play Scene with the level opened.
  + The play can click outside of the pop-up to close it, or hit a “Return” button.
* Options
  + Opens the Options Scene.

2.3 In-Game Menus

2.3.1 Pause Menu

The pause menu can be activated by pressing “Escape.”

* Build Scene
  + Resume
    - This returns the user to the gameplay where they left off.
  + Quit
    - This ends the game and returns the user to the Main Menu.
    - A confirmation asks the player to confirm that they want to exit, losing all progress.
* Play Scene
  + Resume
    - This returns the user to the gameplay where they left off.
  + Quit
    - This ends the game and returns the user to the Main Menu.
    - A confirmation asks the player to confirm that they want to exit.

2.4 Build Mode UI

Object UI

Always is displayed on the screen, shows the available objects that the player can place in the level.

Object Skins UI

After selecting an object from the Object UI, this slides out from behind the Object UI and displays the options for the different skins available for that object. When a skin is selected, this menu returns to hiding behind the Object UI.

2.5 Connect Mode UI

2.6 Play Mode UI

3.0 General Game Structure

3.1 Build Mode

3.2 Connect Mode

3.3 Play Mode

3.4 Share and Load Level

4.0 Game Mode Descriptions

4.1 Build Mode

4.1.1 Functionality

4.1.2 Objects

Non Interactable Objects

Objects that the player can interact with without pressing the “Interact” Button, or Objects that cannot be interacted with.

Walls

Stops the player from moving through them.

Floor Buttons

Powered Doors

Opens when powered, closes when unpowered.

Interactable Objects

Objects that the player must press the “Interact” Button to use.

Switches

Stops the player from moving through them.

When the player interacts with the switch, if it is on, it is set to off, if it is off, it is set to on.

Wall Buttons

Must be placed next to a wall.

When the player interacts with the Wall Button, the switch is turned on for a short period of time before it is automatically turned off.

Doors

Must be manually opened and closed by players.

4.1.3 Object Skins

4.2 Connect Mode

4.2.1 Functionality

4.2.2 Objects

Wiring

Connects Objects in this mode and moves power from Batteries to other objects

Battery

Powers Objects

Connector Switch

If connected to a switch, powered, and the switch is set to on, this will Power objects, however if it is not connected to a switch, or the switch is not on, it cuts off power.

Gates

AND Gate

Tests two inputs, if both are powered, power the output.

OR Gate

Tests two inputs, if one or both are powered, power the output.

XOR Gate

Tests two inputs, if only one is powered, power the output.

4.3 Play Mode

4.3.1 Functionality

5.0 General Gameplay Elements

5.1 Controls

5.2 Editor Tools

5.3 Saving and Loading

6.0 Asset List

6.1 Objects & Skins

6.2 UI

Button Sprites

Play Mode Button

Return Button

Erase Tool Button

Hand Tool Button

Help Tool Button

Line Tool Button

Edit Mode Button

Connect Mode Button

Button Text Font

Tutorial Text Font

Dot Tile

Connection Line Sprite

Object List UI Background

6.2 Animation List

6.3 VFX

6.4 Sound Effects

**Todo:**

**Test-Play Mode**