Project LevelGen - User Guide

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1 Getting Started

1.1 Installing LevelGen

Download the latest version of LevelGen (currently hosted a https://github.com/XhineO/LevelGen), and place the folder somewhere in your project's assets folder.

1.2 Setting up the level generator

Open the Level Gen graph and inspector, by clicking 'Level Generator \to Show all' in the toolbar.

First, a level generator must exist in the scene. To create one, Click 'Create' in the 'Room Inspector'. An object named 'Level' should appear in the scene.

1.3 Setting up a level

First, a level save file must be created. This is done by right-clicking in the 'Project' window, then select 'Create \rightarrow Level'. A file named 'New Level' should now appear.

To edit the level, add it to the level field in the room inspector.

2 LevelGen Manual

This section describes the terminology used throughout the guide

2.1 Bitmaps

Bitmaps are simply an image file, whose pixels represent some block in a room.

2.2 Rooms

A room is defined by a bit map, where each pixel color represents a unique object, called a block. Each room can have one or more exits.

2.2.1 Blocks

A block is simply a prefab, defined by the user, that is represented by a unique color in the room's bit map.

2.2.2 Exits

An exit is a special block that connects one or more rooms together. All exits of one room can be connected to any exit of the other rooms.

3 Using the LevelGen GUI

3.1 Managing rooms

3.1.1 Creating a room

In the room inspector, click the 'Create Room' button, located at the bottom. The following menu (figure 1) will appear:



Figure 1: The room creation panel

The exit color defines where the room's exits are placed.

When a bit map and an available id is assigned, the room can be created by clicking 'Add Room'. The room should now appear as a node on the room graph (figure 2).

A bitmap that doesn't meet the import requirements (described in section 2.1), can be fixed by clicking the 'Fix Texture' button. NB! This will alter the image file on disk

3.1.2 Editing a room

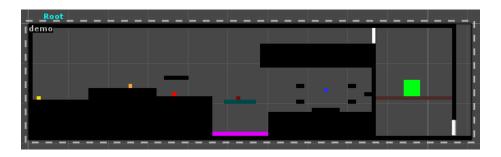


Figure 2: A node in the room graph

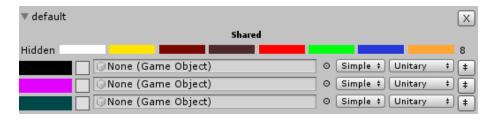


Figure 3: Room editing

To edit a room, it must first be selected in the room graph. It should now appear in the room inspector (figure 3).

3.1.3 Editing blocks

To add a block entry to the selected room, click on the desired color in the room's block list. Click on the color of an existing entry to remove it.