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Blocks

In Terrain Engine 2D the terrain is made up completely of blocks. As the developer you have complete control over all of the blocks in your game. In order to make everything simple and easy Terrain Engine 2D contains a convinent tab in the custom inspector of the World called Block Setup'. Inside the Block Setup tab you can setup all of the blocks in your game. Here you can add, remove, modify, and rearrange all of the layers and blocks in your game.

Block Properties

The Pixels Per Block property is the amount of pixels that make up a single side length of one tile

in your block textures. This property should be set to your desired Pixels Per Block ratio which

you would have needed to determine to create your textures.

Terrain Engine 2D

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Block Setup

BASIC *

Terrain Engine 2D - V1.10

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The Z Block Distance is the z distance between each Block Type when they are rendered to the scene, it is used to set render order for your blocks. Z Layer Factor The Z Layer Factor is the factor which determines the z distance between each different block

Layers

Pixels Per Block

Z Block Distance

List which allows you to add, remove, rearange, and modify the layers.

Layer Properties

Block Setup

Block Setup

B

0

In Terrain Engine 2D all of your blocks are arranged in layers, where each layer has its own set of

Block Types. Layers are used to group your blocks and control render order. Typically you will

have a background, main, and foreground layer. In the custom inspector there is a Reorderable

layer. This distance is set by multiplying the Z Layer Factor with the Z Block Distance.

Adding Layers

• Name Give a name to the layer

Blocks

Pixels Per Block:

Z Block Distance:

✓ Layers

Layers

List is Empty

Select block layer:

the '-' sign at the bottom right of the list gui.

Pixels Per Block:

Z Block Distance:

Enable Colliders:

Enable Colliders: Tileset Material:

Select block laver:

✓ Layers

Layers

— Name:

Name:

the Dropdown button in the inspector.

Pixels Per Block:

Z Block Distance:

Select block layer:

Background Blocks

Overlap Block:

Texture Width:

Overlap Block:

Variations: Texture Width:

Texture X Position:

Texture X Position:

Variations:

Layers

= Name:

= Name:

• Name Give a name to the block

Render Order

and the other blocks on top.

Block Setup

Blocks

Blocks

Main Properties

• Enable Colliders Set whether the layer will use colliders

Main Properties

List is Empty

8

• Tileset Material Set the Material for the layer (this Material should contain the tileset texture)

Render Order

Removing Layers

Tileset Material:

None (Material)

Name:

Layer 1

Enable Colliders:

Tileset Material:

None (Material)

None (Material)

Terrain Engine 2D Removing Layers

B

Layer 2

Laver 0

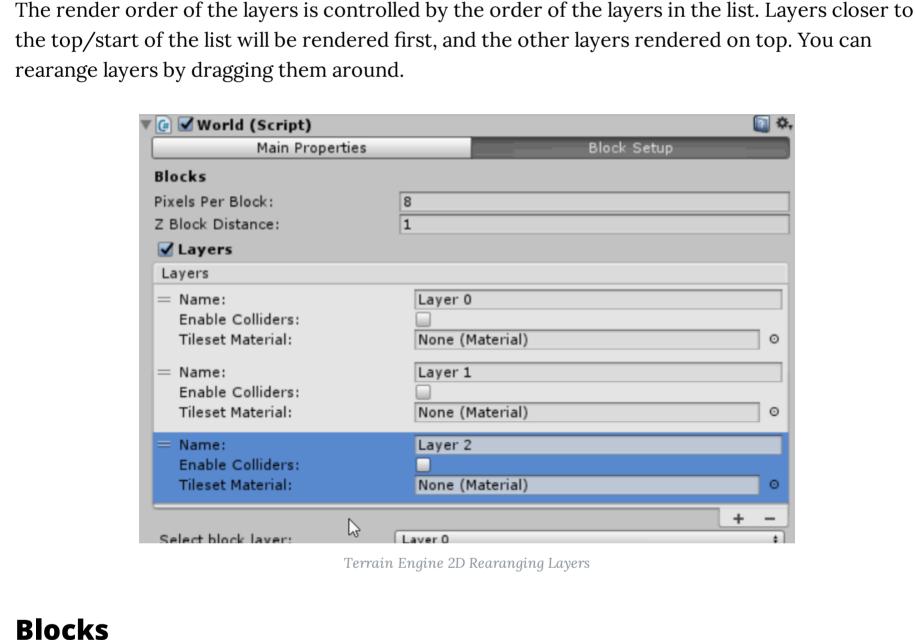
Layer 0

Terrain Engine 2D Adding Layers

To remove a layer to the reorderable list, select the layer which you wish to remove, then click

8

1



Each layer has its own Reorderable List of blocks where you can define all of the Block Types for

that layer. Similarly to the Layer list you can add, remove, rearange, and modify all the blocks in

the custom inspector. Only one Reorderable List is shown at time, which you can select using

8

1

Background

Sand

✓

4

2

0

4

Whenever you add a new block to the Reorderable Block List you need to set the Block

Dirt

Terrain Engine 2D Block Reorderable List

Properties of that newly define block. The properties are self explanitory, but it is important to

remember that Texture properties represent only the portion of the texture which represents

Texture Height, and Texture Position by the number of tiles (for example: a Default Block would

have a Texture Width of 1 and a Texture Height of 1). Refer to the Example Scene included in the

• Falling Block This property only shows up if the Falling Block Simulation is enabled and you are working with the Falling

Each Block Type has its own unique render order (or z position), this is only important for

Overlap Blocks which may overlap other blocks. The render order of the blocks is controlled by

the order of the blocks in the list. Blocks close to the top/start of the list will be rendered first,

Contact Privacy Top

that block. These properties are also all in **Block Units**, meaning you set the Texture Width,

Transparent:

Transparent:

Texture Height:

Texture Y Position:

Texture Height:

Texture Y Position:

3

0

3

Asset Package if you have any confusion on setting up the blocks in your scene.

Block Properties

Transparent Set whether this block's texture contains any transparent pixels

• Texture X Position Set the x position of this block in the texture (in block units)

Texture Y Position Set the y position of this block in the texture (in block units)

Overlap Block Set whether this is an Overlap block

• Variations Set the number of texture variations for this block

Texture Width Set the width of this block (in block units)

Texture Height Set the height of this block (in block units)

Block Layer. It allows you to set whether the block will fall with gravity

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