Terrain Engine 2D

A 2D Block Engine for Unity Out now on the Unity Asset Store

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Terrain Engine 2D User Manual - V1.20

DOCUMENTATION

INTRO -

MAIN PROPERTIES Block Setup

 Basics Block Properties Layers

Blocks

custom inspector.

Table of Contents

Basics

the Block Setup tab you can setup all of the blocks which will be used in your

game. Here you can add, remove, modify, and rearrange all of the layers and

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

This page explains how to setup your layer and block types in the World

FEATURES

GENERAL *

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

blocks in your game.

- 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
- **Block Properties**

Pixels Per Block

to create your textures.

Z Block Distance

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

Layers

control render order. Typically you will have a background, main, and foreground layer. In the custom inspector there is a Reorderable List which allows you to add, remove, rearange, and modify the layers.

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

texture)

of the list gui.

Adding Layers

Layers

Layers = Name:

= Name:

= Name:

Render Order

Enable Colliders:

Tileset Material:

Enable Colliders:

Tileset Material:

Enable Colliders: Tileset Material:

Select block laver:

List is Empty

Select block layer:

Layer Properties

Blocks Pixels Per Block: 8 Z Block Distance: Layers

Block Setup

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0

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0

3

3

Main Properties

Terrain Engine 2D Adding Layers To remove a layer to the reorderable list, select the layer which you wish to remove, then click the '-' sign at the bottom right of the list gui. 👍 🗹 World (Script) Block Setup Main Properties Blocks Pixels Per Block: 8 1 Z Block Distance: Layers

Layer 0

Layer 1

Layer 2

None (Material)

None (Material)

None (Material)

Terrain Engine 2D Removing Layers

The render order of the layers is controlled by the order of the layers in the

Select block lavers

button in the inspector.

Pixels Per Block:

Z Block Distance:

Select block layer:

Background Blocks

Overlap Block:

Texture Width:

Overlap Block:

Texture Width:

Variations:

Texture X Position:

Variations:

Layers

= Name:

= Name:

Blocks

Terrain Engine 2D Rearanging Layers **Blocks** 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,

Reorderable List is shown at time, which you can select using the Dropdown

rearange, and modify all the blocks in the custom inspector. Only one

8

1

Background

Sand

✓

4

0

Dirt

✓

4

Transparent:

Transparent:

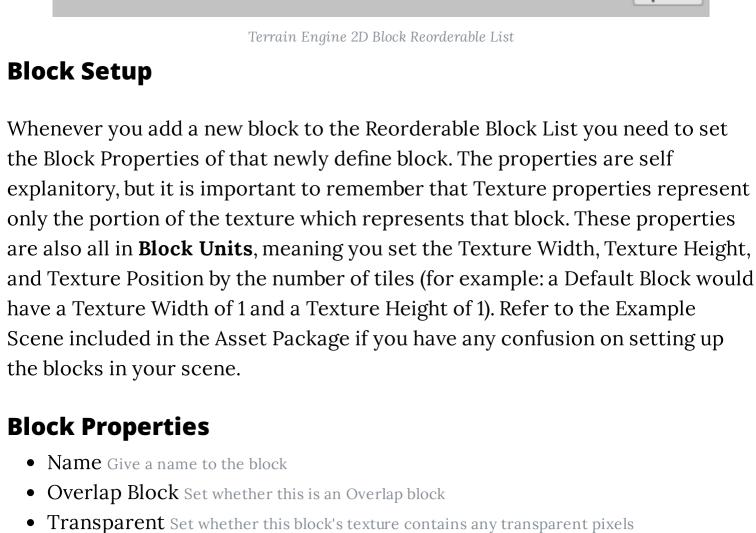
Texture Height:

Texture Height:

Texture Y Position:

Laver 0

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

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

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, and the other blocks on

important for Overlap Blocks which may overlap other blocks. The render

Variations Set the number of texture variations for this block

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

are working with the Falling Block Layer. It allows you to set whether the block will fall with gravity Render Order

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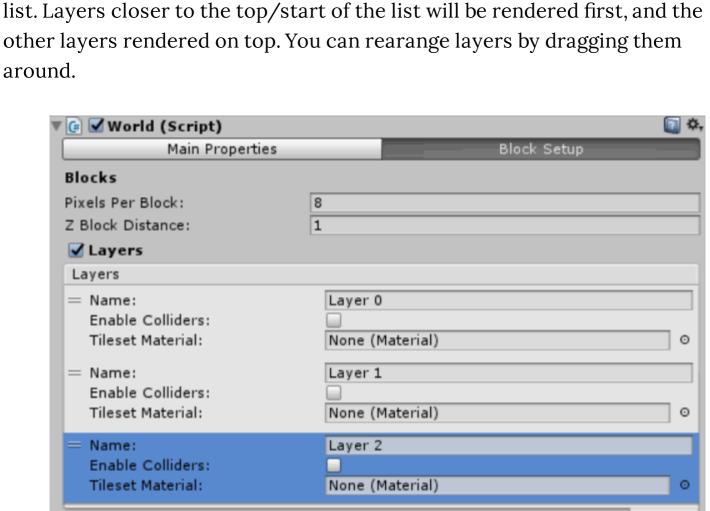
The Z Layer Factor is the factor which determines the z distance between each different block layer. This distance is set by multiplying the Z Layer Factor with the Z Block Distance.

 Name Give a name to the layer • Enable Colliders Set whether the layer will use colliders • Tileset Material Set the Material for the layer (this Material should contain the tileset

To add a new layer to the reorderable list, click the '+' sign at the bottom right

🔻 🕝 🗹 World (Script)

Removing Layers



Texture X Position: Texture Y Position:

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

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