# House Builder

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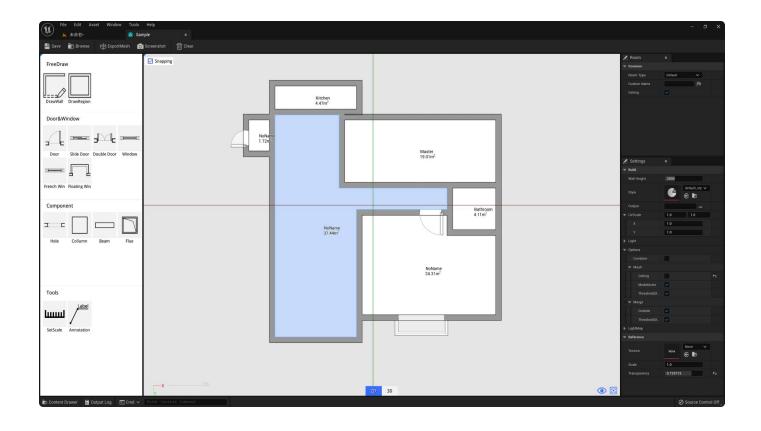


# **House Builder**

Unreal Engine Code Plugin

# **Description**

House Builder is a home improvement design tool. It contains many basic primitives, through simple operations, you can quickly and easily draw a floor plan and generate building meshes by configuration.



# Introduction

### Features:

- Draw the walls from a line or a rectangle and automatically generate rooms.
- Draw a floor plan from a reference drawing.
- Contains various parametric primitives such as doors, windows, beams, columns, text etc.
- Configurable decoration styles.
- Generate or export static meshes on demand.
- Interactive single door, sliding door.

### Code Modules:

- KSHouseBuilder
- KSHouseBuilderEditor

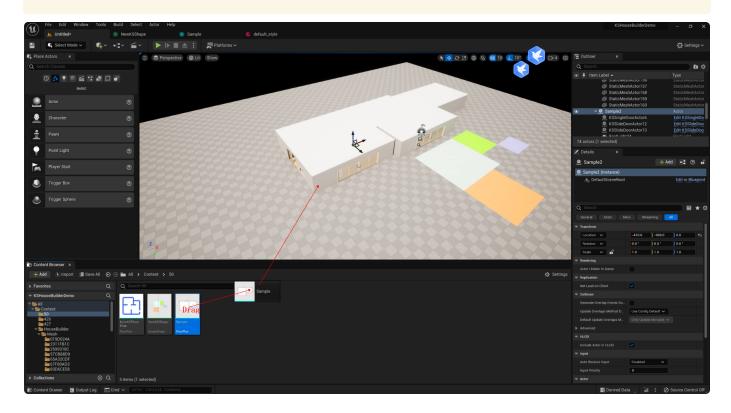
Documentation: Document

Example Project: Example

Important/Additional Notes:

Unit: millimeter

You can drag the floorplan asset to viewport directly, It can build the mesh automatically.



# **Update**

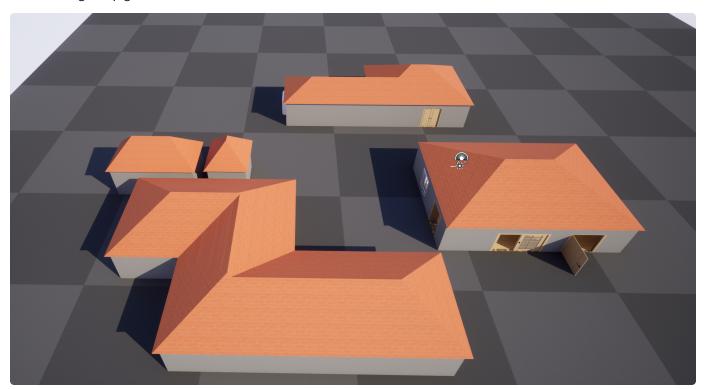
### Version 1.1

New important features:

- 1. The wall can be dragged and moved.
- 2. Visualized house decoration style setting.



3. Intelligently generate the roof.



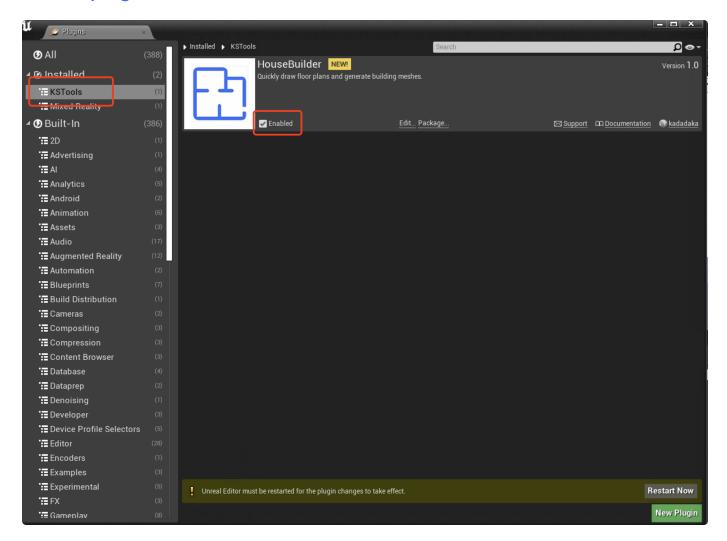
### Bug fixes and optimizations

- 1. Re-open the UE editor, the error that the mesh cannot be generated by dragging.
- 2. Some bugs that caused the editor to crash.

- 3. The automatic fill light setting is invalid error.
- 4. The error that the beam cannot be saved.
- 5. When the global wall height is changed, the beam position and column height are not updated.
- 6. Automatically close UE's default drag object grid alignment function.
- 7. Model light leakage, position, size adjustment.
- 8. In some cases, the corner cannot be moved.
- 9. Some interface display optimizations.
- 10. Other bug fixes.

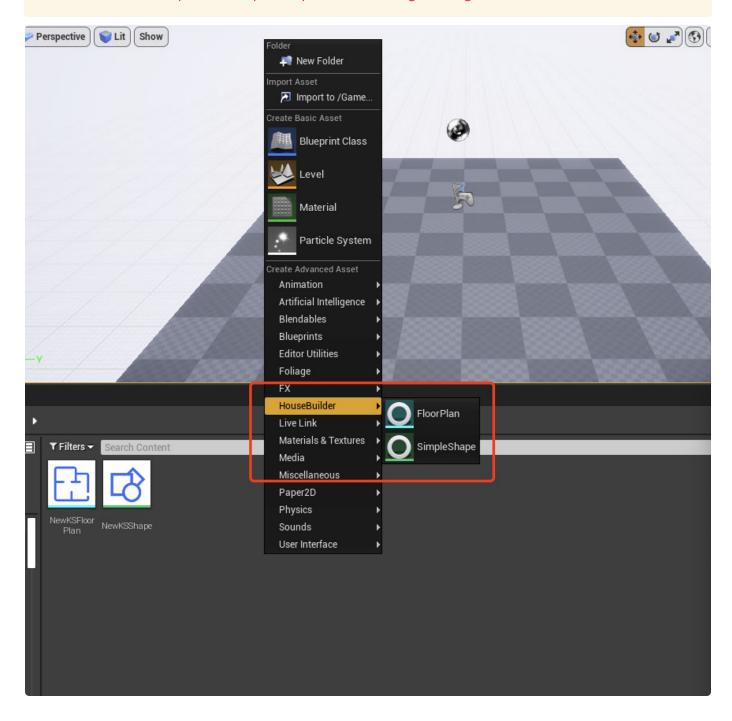
#### Start

### **Enable plugin**



#### **Create assets**

You can create floor plan or simple shape assets through the right-click menu.



# **Operate**

### Mouse

Left Button

- Primitive selection.
- Click to draw wall, window, door...etc.

### **Right Button**

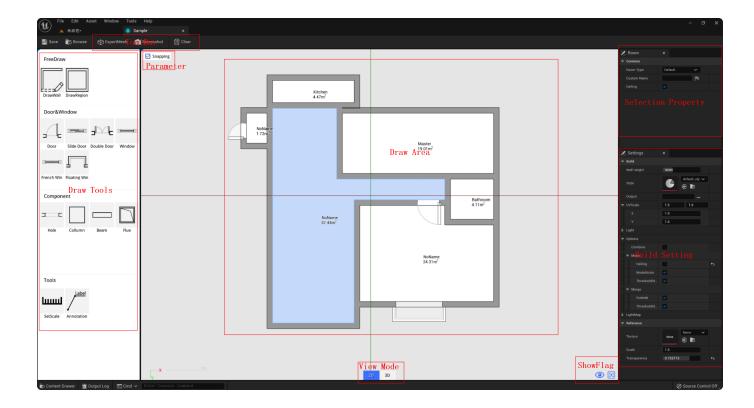
- Cancel command.
- Hold down and drag to pan the canvas.

# Keyboard

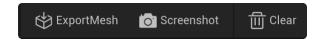
• When drawing walls, you can hold down Ctrl to toggle orthographic drawing mode.

# Floor Plan



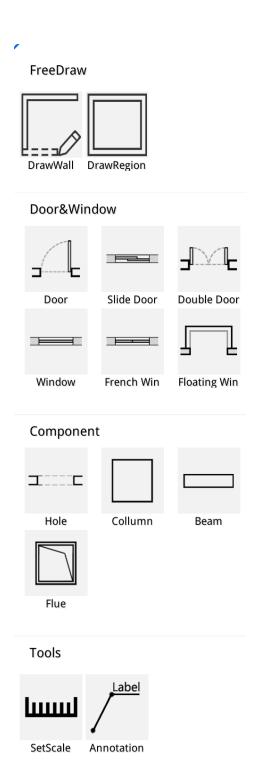


# 1.Toolbar



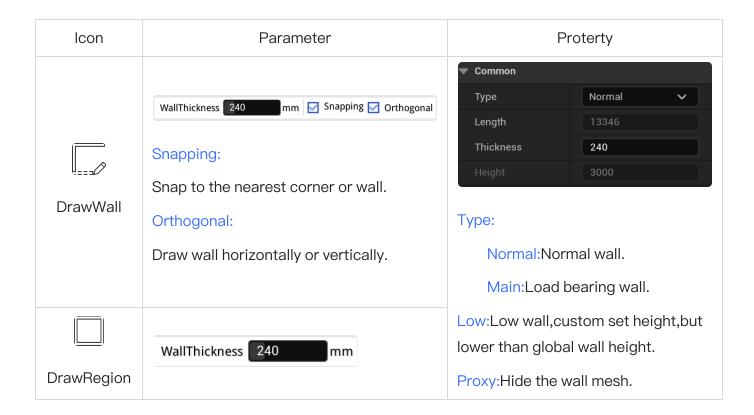
Icon	Name	Description
	ExportMesh	Export static mesh of the floor plan.
	ScreenShot	Take a screenshot of the viewport.
回	Clear	Clear floor plan.  Note:Can't recover once clear.

# 2.Draw Tools

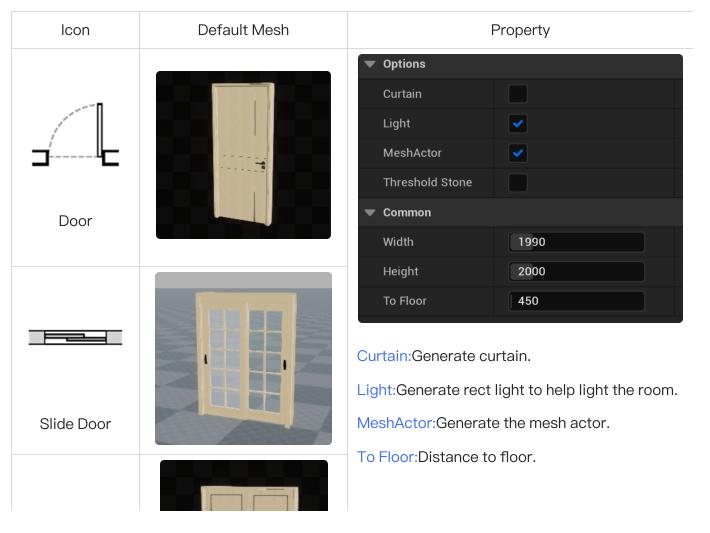


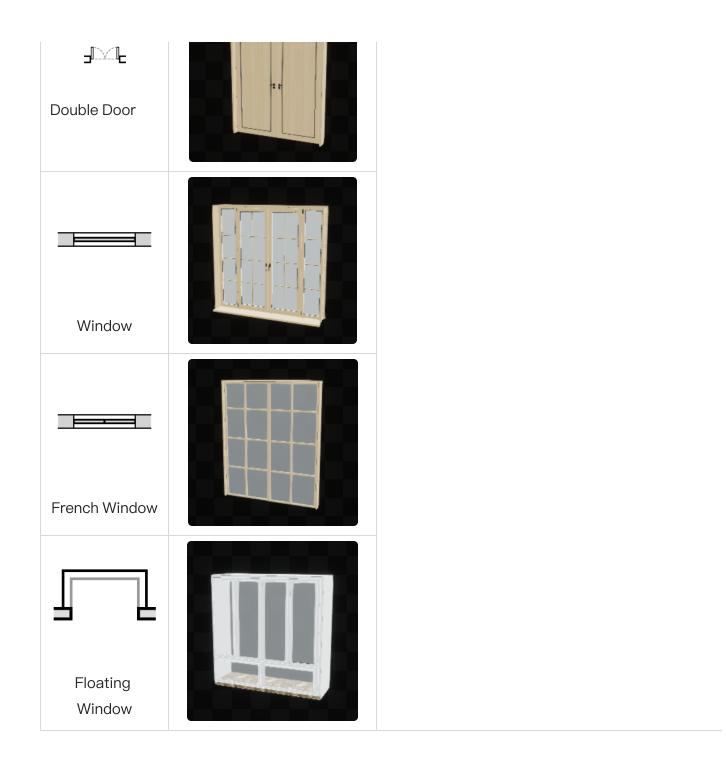
### FreeDraw

Draw walls by segment or retangle.

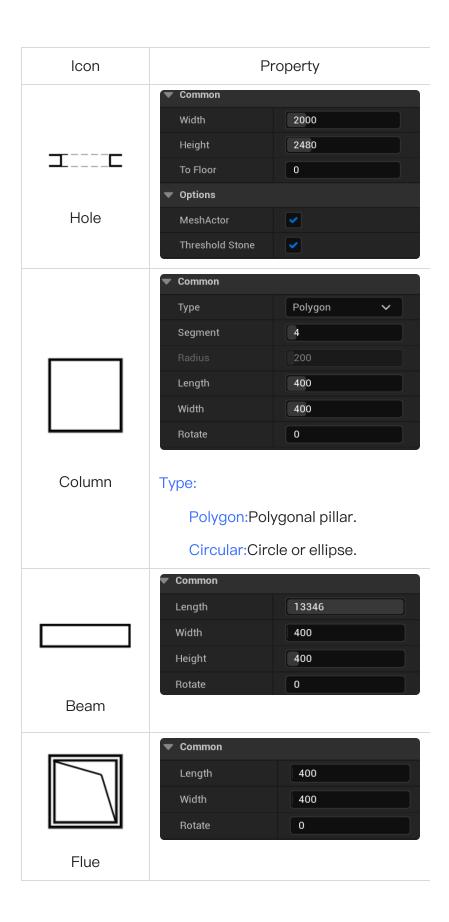


#### Door&Window

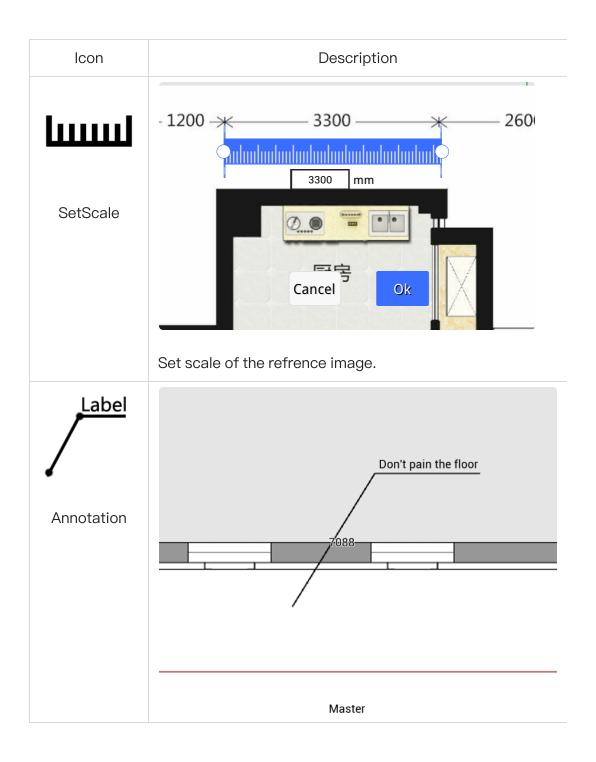




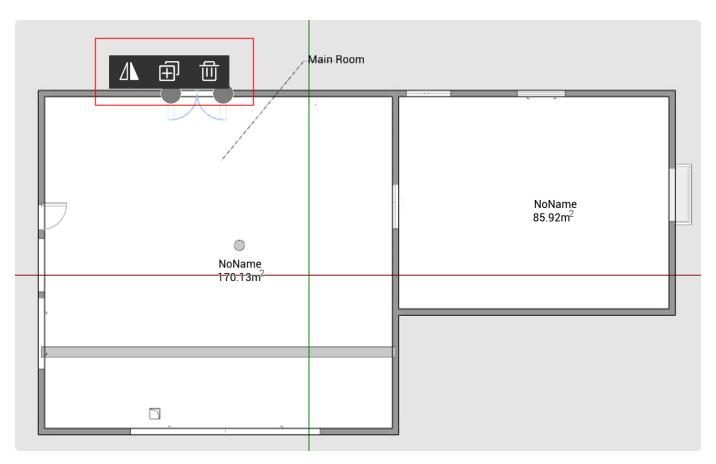
# Component



Tools



# 3.Selection Menu



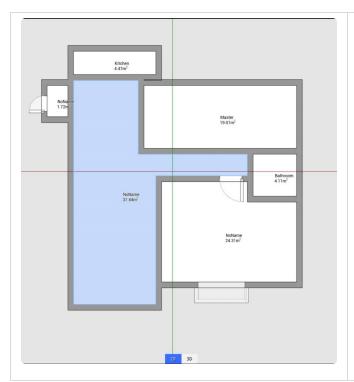
lcon	Descirption
	Flip the direction.
Flip	
	Copy the select shape, and start draw the shape.
Сору	
	Delete the select shape.
Delete	
X	Split the select wall to two walls.
Split	

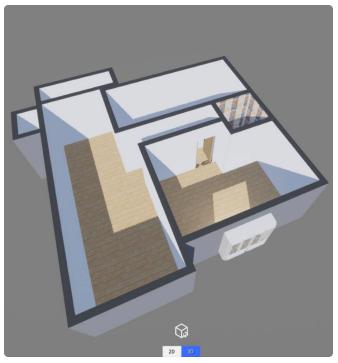
# 4.View Mode

2D:Draw floor plan.

3D:Build and view the mesh.



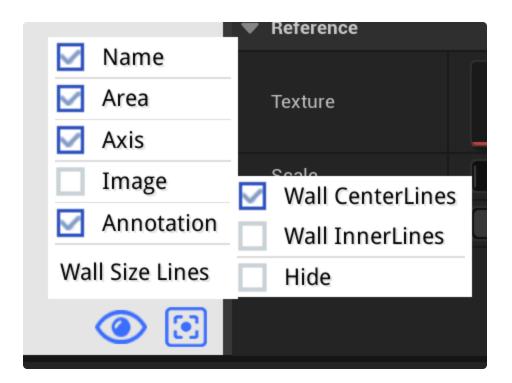






Rebuild the mesh.

# **5.**Show Flag

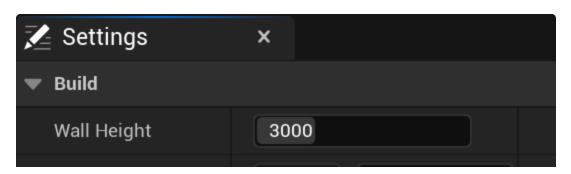


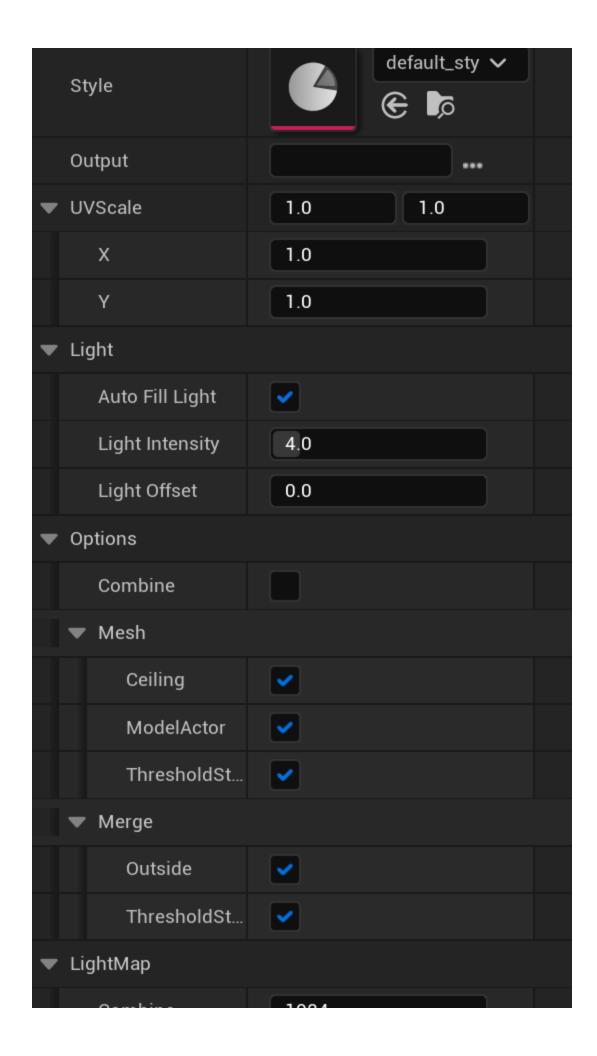
Focus the view to the center.

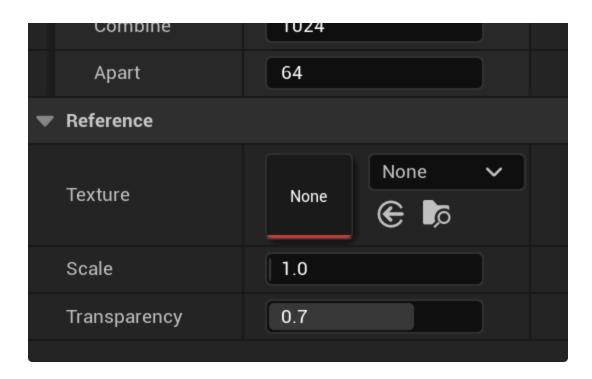
Show or hide.

Name	Room name.
Roof	Roof.
Area	Room area.
Axis	Axis lines.
Image	Reference image.
Annotation	Annotation lable.
Wall Size Lines	Wall size infos.

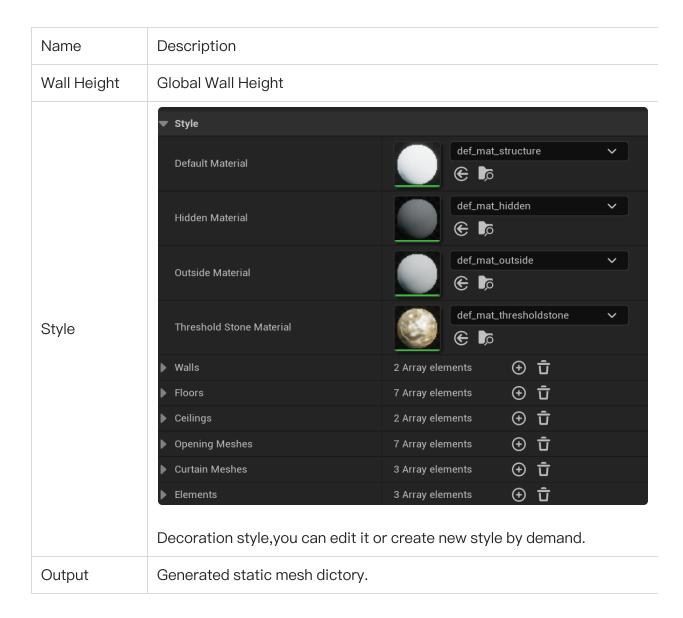
# **6.**Build Setting







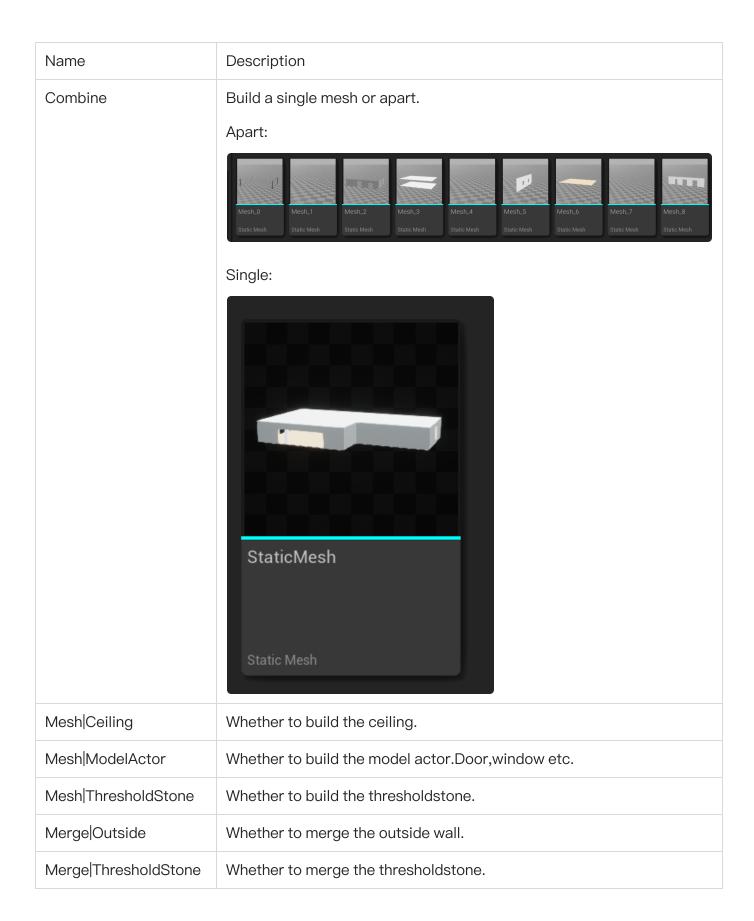
# Build



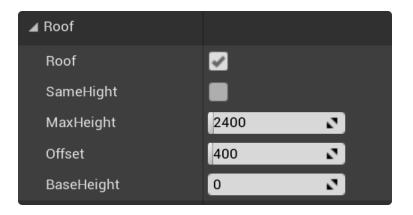
#### Light

Name	Description
Auto Fill Light	Genertate the rect light in window to help light the room.
Light Intensity	Rect Light Intensity
Light Offset	Offset distance to center of the window.

### **Options**

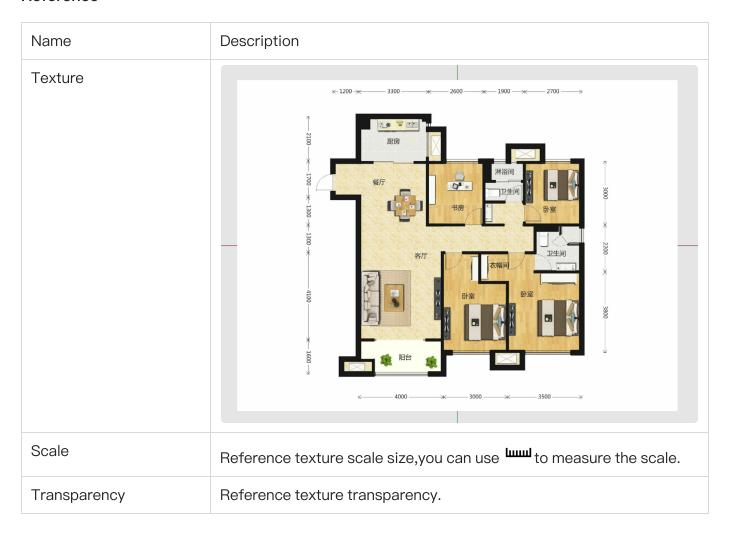


#### Roof



Name	Description	
Roof	Whether to build the roof.	
SameHeight	Same height roof or determined by the system.	
MaxHeight	The roof max height.	
Offset	The roof offset distance.	
	Offset distance	
BaseHeight	The roof base height.	
	Base height	

#### Reference



# Simple Shape



Draw simple shapes, most like the floor plan.

