

Game Design and Development Workflows

Introduction to



Level Design with Blockouts

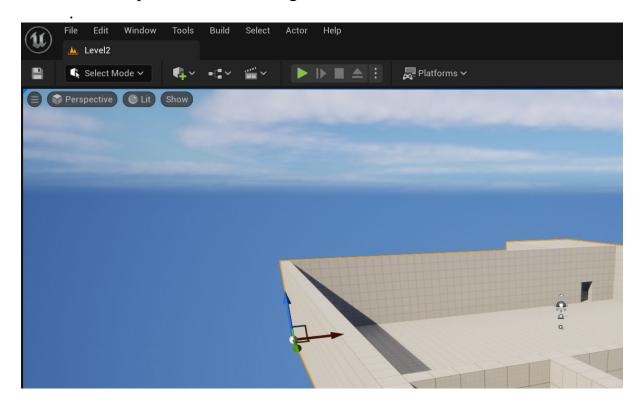
SESSION 1 TASKS

TASK: Creating a maze using Blockouts

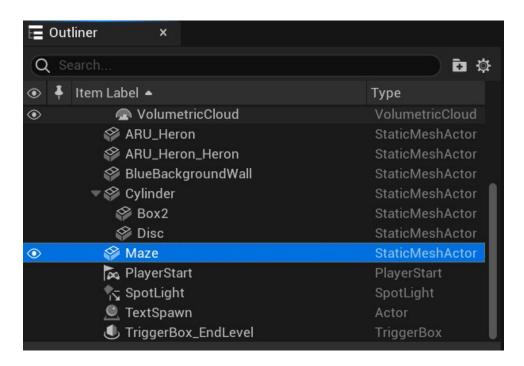
TASK ONE:

Build a Maze to explore.

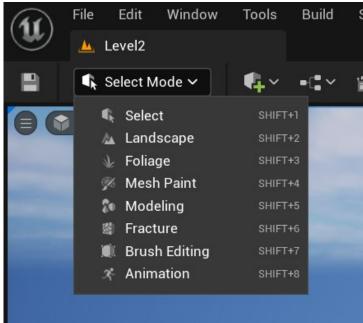
1) Explore the game template by clicking the green play button at the top of the Viewport and then running around the level.



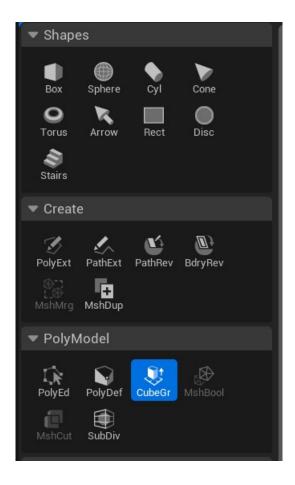
2) Click the Stop button or press Esc to go back to the editor, then in your outliner, click on Maze, which selects the main level object.



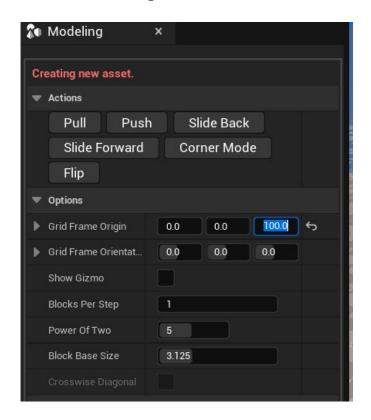
3) Click icon the Select Mode drop down at the top of the screen and choose Modeling.



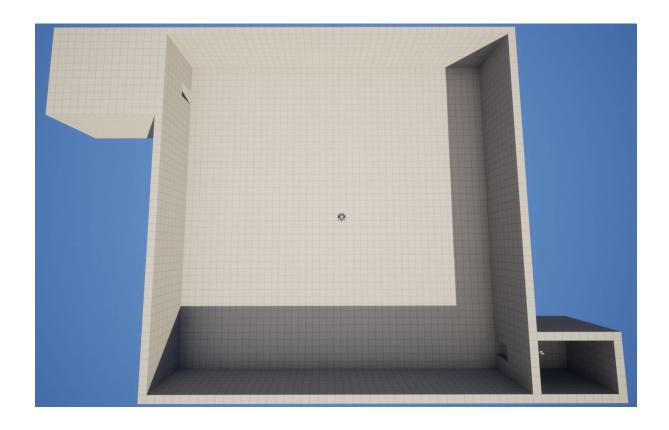
4) From the Modelling tools, select the Cube Grid (cubeGr) tool from the PolyModel panel



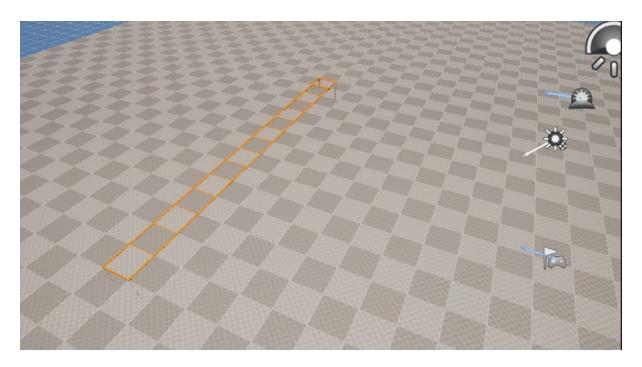
5) Ensure the **Grid Frame Origin** is set to 0, 0, 100



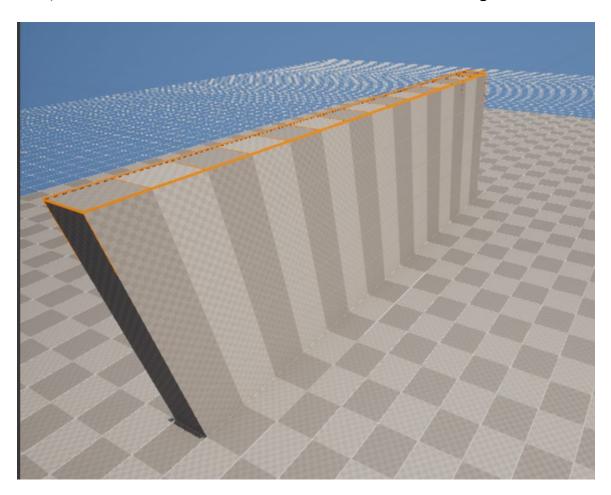
6) Now, zoom all the way out by holding the **Right Mouse button** and using **W A S** and **D** to fly around.



7) You can now draw a line by selecting and dragging on the surface of the grid. Draw a line somewhere between 10 to 15 meters long.



8) Press E six times to Extrude or Pull a wall 6 meters high



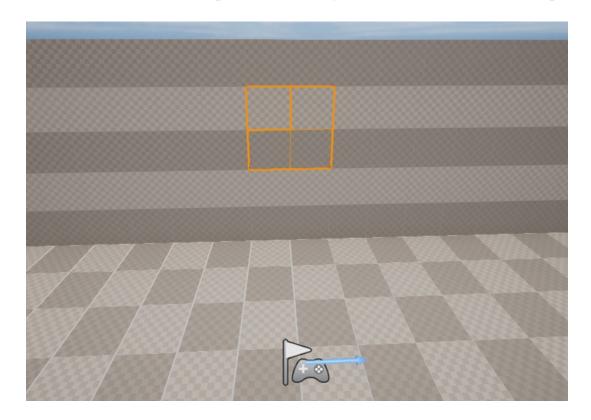
9) Next, select the inside edge of the wall.

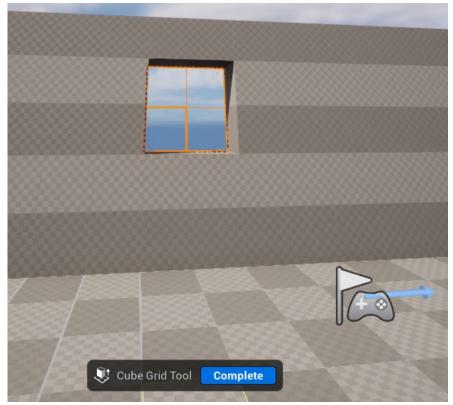


10) Now, press **E** 20 times to make a long edge.



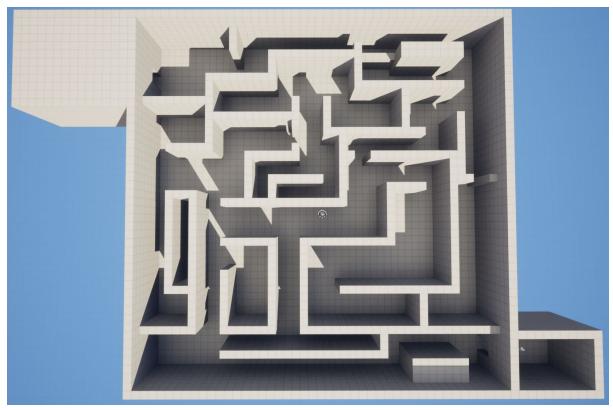
11) Around halfway along the wall, select a **2x2 square** and press **Q** to **Subtract or Push** this portion, creating a window. Then click **Complete**





12) Now, selecting the CubeGr tool again, build a maze using the techniques learnt so far.





13) Playtest your maze. Can you find the Heron?

Useful Shortcuts and tools

E = Extrude or 'Pull'

Q = Subtract or 'Push'

Z = Corner Mode (Making ramps)

Select an object (i.e. PlayerStart) and press **Shift+End** to snap it to the floor.



- Position Grid Snap Value

Unreal Scale

Distance	Distance in default Unreal Units
1 centimeter	1 unreal unit
1 meter	100 unreal units
1 kilometer	100,000 unreal units
1 inch	2.54 unreal units
1 yard	91.44 unreal units
1 mile	160,934 unreal units