

Spike: 16

Title: Creating a Simple Scene

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Goals / deliverables:

Goals this spike aims to achieve:

- Create an Unreal Engine 4 scene
- Scene must contain 2 actors as imported 3D models, one dynamic light and one baked light.

Deliverables required:

- Proof of UE4 scene and actors
- Spike report

Technologies, Tools, and Resources used:

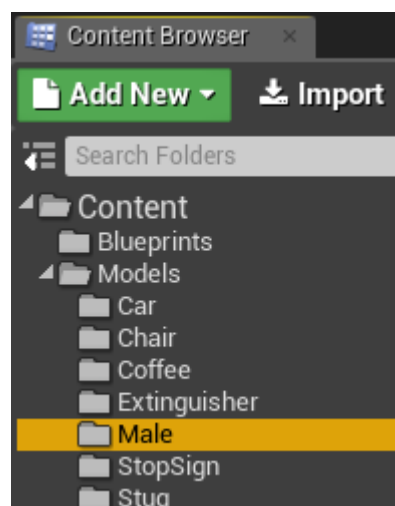
The following is required to complete this spike:

- Unreal Engine 4 (ver. 4.13.2)
- Online UE4 material and guides
- 3D models used from my final year game

Tasks undertaken:

The list below details the steps taken to complete this spike.

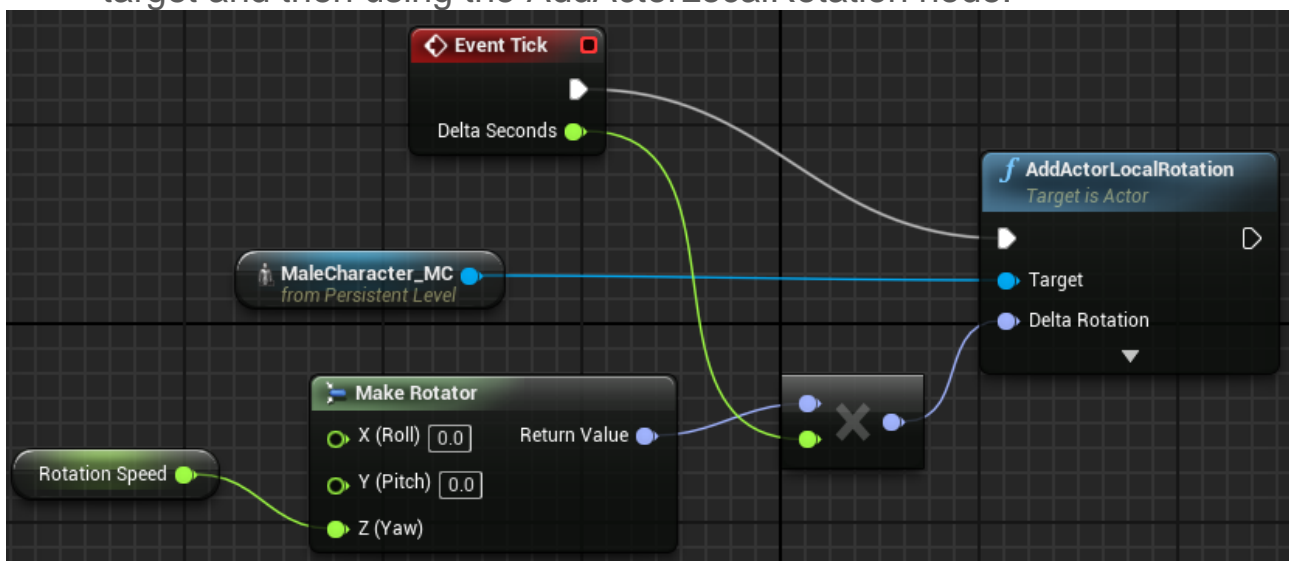
- The first thing I did was download and install Unreal Engine 4 through the Epic Game launcher
- I then created a new UE4 project using the Blank Blueprint scene option. This allowed me to start clean with nothing pre-existing within the scene except for the lights and a simple plane.
- I then set up a Models folder in the Content Browser within UE4 and added subfolders for each of the 3D models I was going to import
- Upon selecting the desired subfolder within the Content Browser I selected Import and navigated to the .FBX file for that particular 3D model



- Unfortunately none of the models my team produced came with the materials so I had to manually find their textures and add them in myself. This was done by again importing the image file and turning it into a material (right click -> create material). The material was then selected for the model in the viewer opened by double clicking a model.
- I continued to import and add more models until I was happy with my scene.



- I then looked up how to make an actor rotate and was able to make the male actor at the front of the scene rotate around the Z axis. This was done by going into the level blueprint editor, adding the mesh as a target and then using the AddActorLocalRotation node.



What we found out:

By completing this spike we found out how to quickly and easily set up a scene in Unreal Engine 4 (something I had never done before), import models and add them to a scene. This spike was fairly straight forward and easy to complete, with the main areas of trouble being that the materials were not included in the models so I had to manually find and add them and then figuring out how to use the blueprint system to make an actor rotate on the spot. This was a little confusing at first but made sense after watching an online tutorial explaining the steps.