

HANNAH's



CANDLE



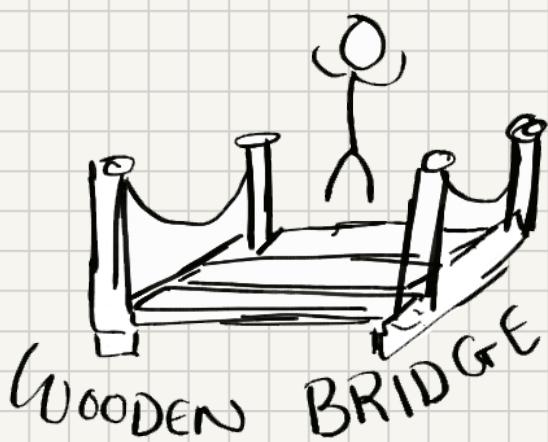
PORTFOLIO



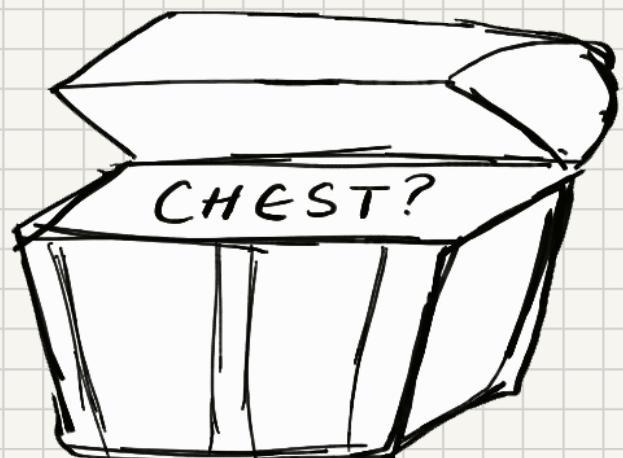
LAMP



RAT?

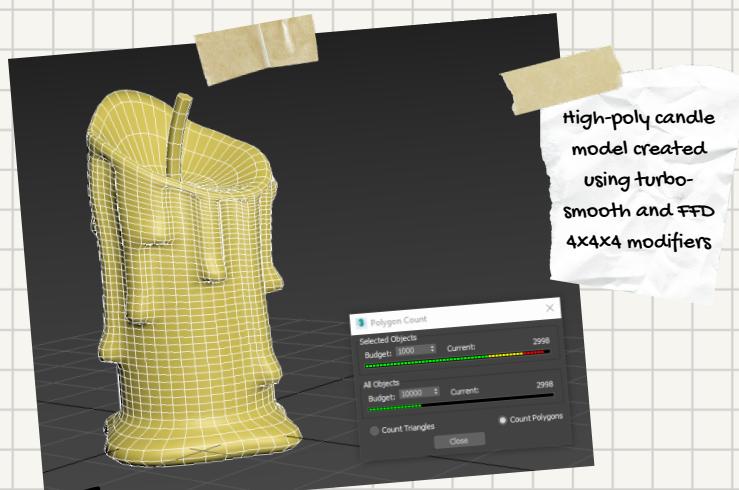


WOODEN BRIDGE

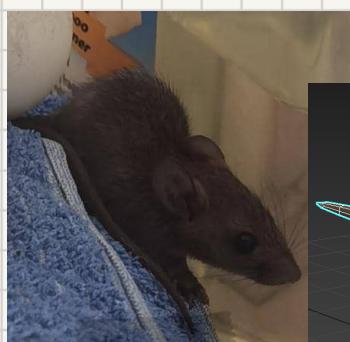
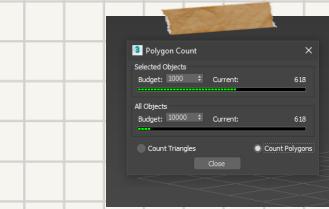
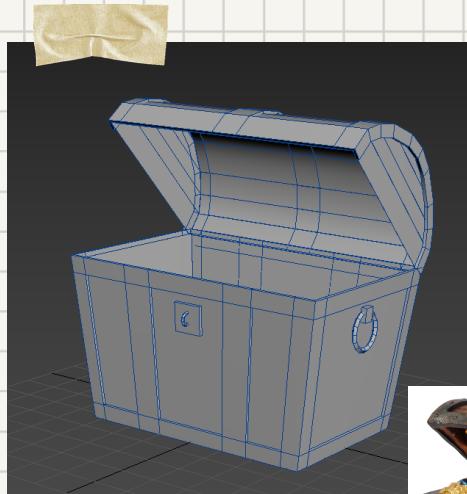


CHEST?

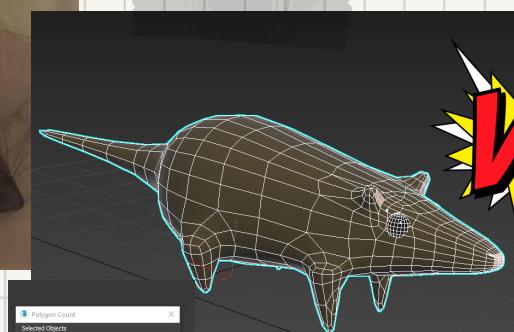
GEOMETRY:



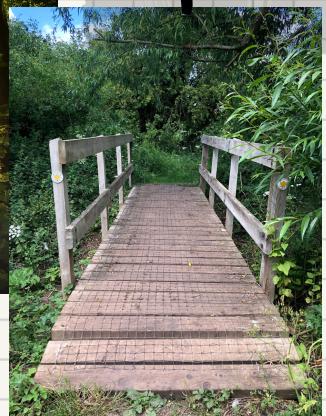
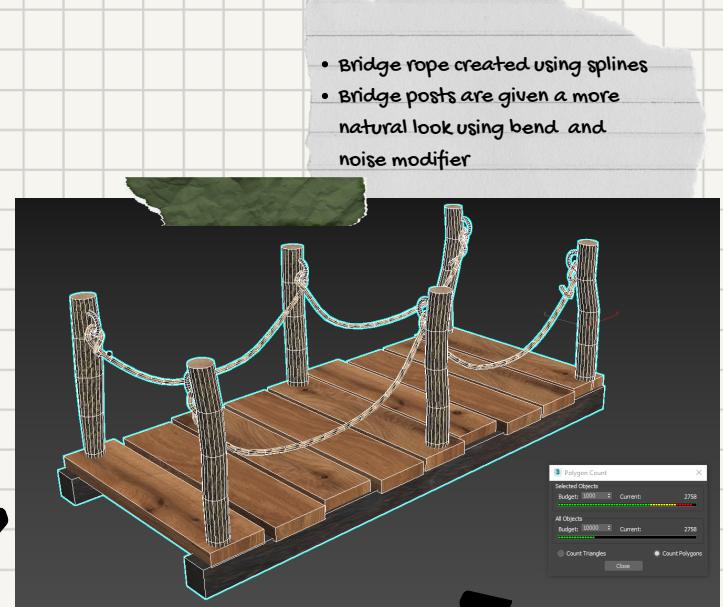
High level of detail due to how close players will get to the object



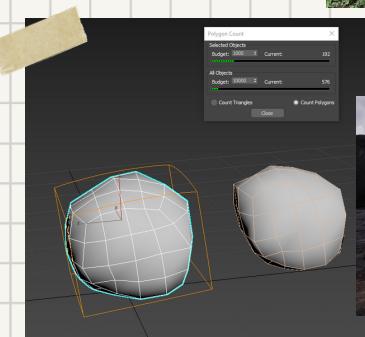
Malaysia



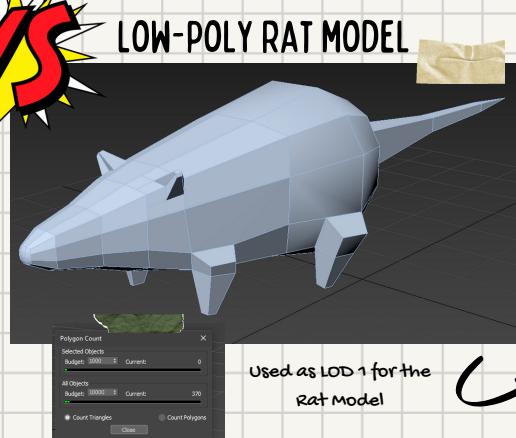
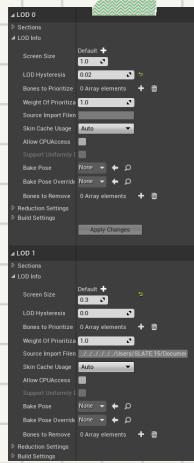
HIGH-POLY RAT MODEL



Model ideas and references



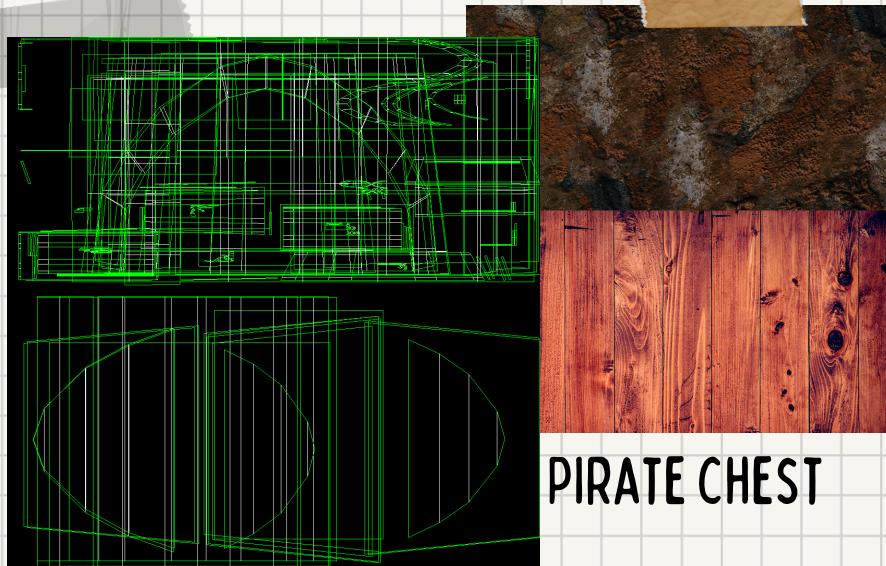
LOW-POLY ROCKS



LOW-POLY RAT MODEL

Used as LOD 1 for the Rat Model

TEXTURE MAPPING:



All components that make up the chest were unwrapped separately before being attached together



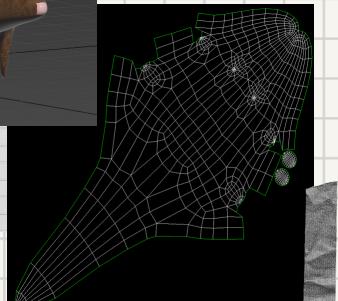
Split into two sections, rusted metal and wood planks



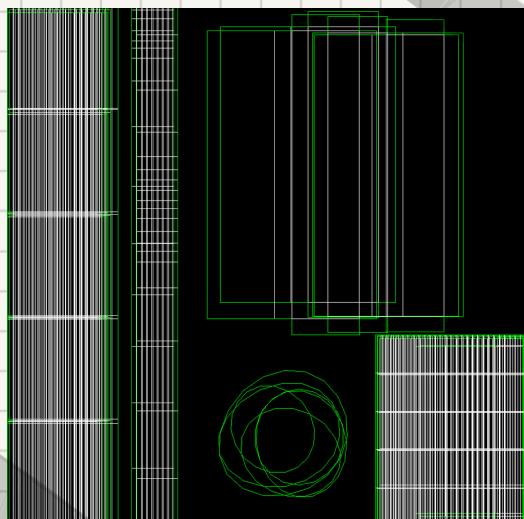
Chest Model



RAT



BRIDGE



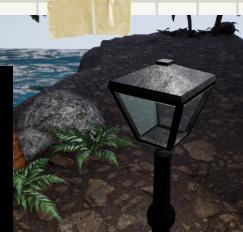
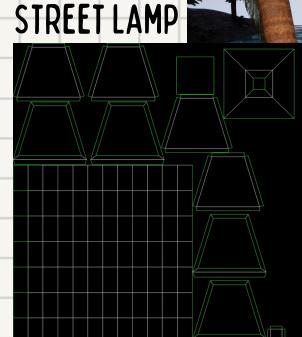
Each component was unwrapped separately before being attached to each other; this is the final unwrap



Bridge



STREET LAMP



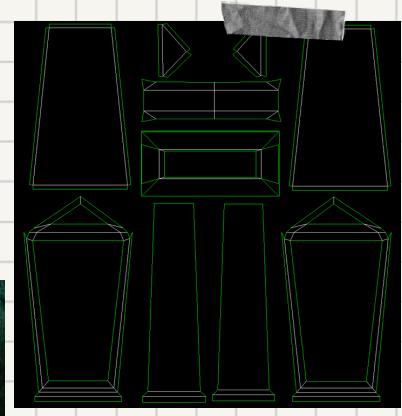
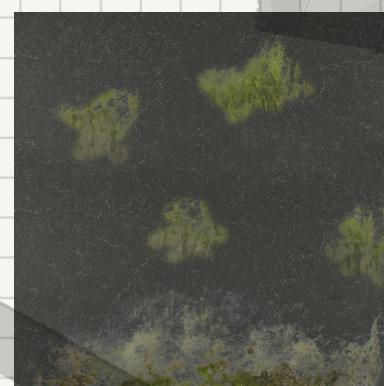
TEXTURE PREPARATION:



TOMBSTONE



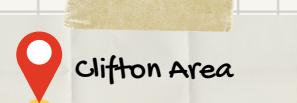
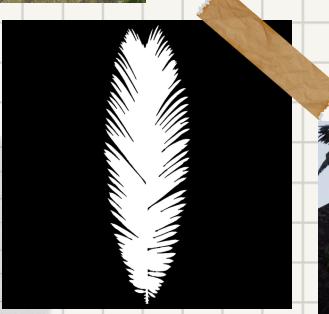
COCONUT TREE LEAF



Unwrap prior to addition
of text engraving



Alpha Map



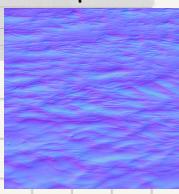
BRIDGE TEXTURES



Diffuse Map



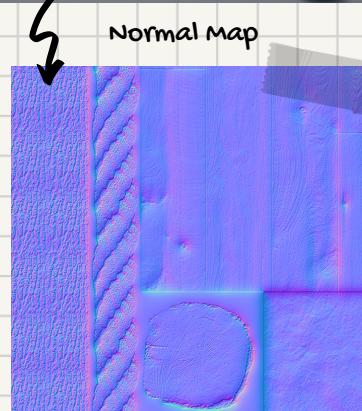
Water Shader
Normal Map



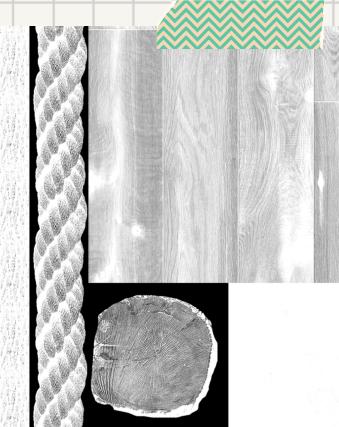
WATER



Bump Map

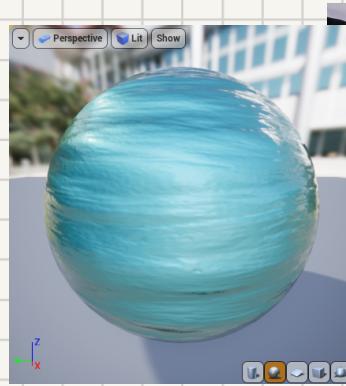
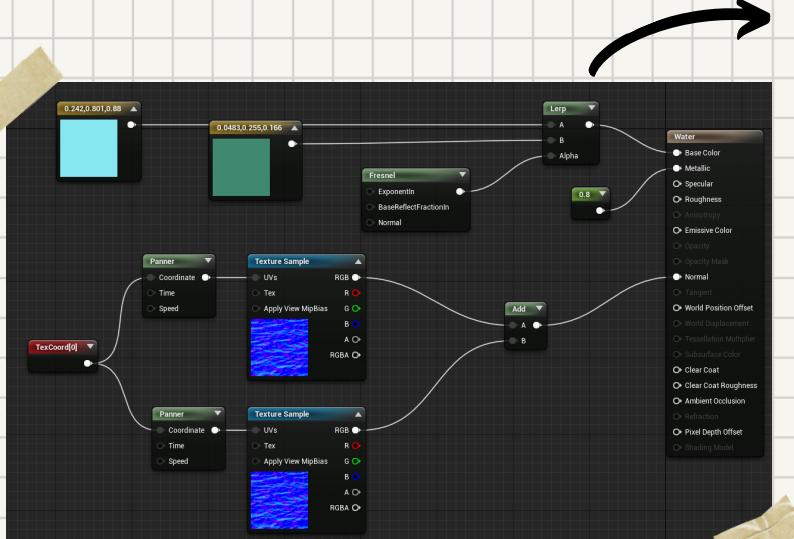


Normal Map



Roughness Map

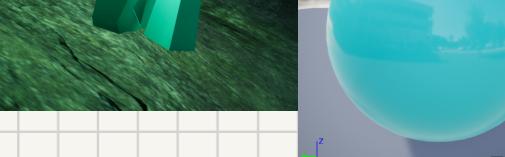
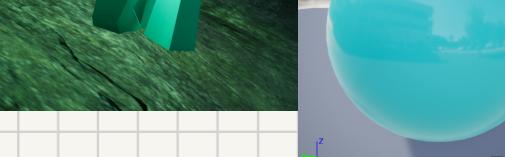
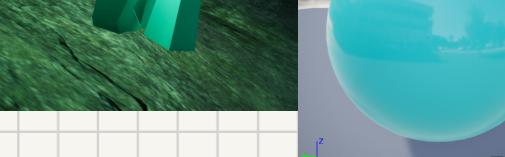
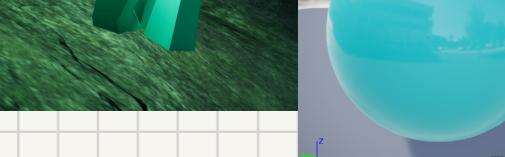
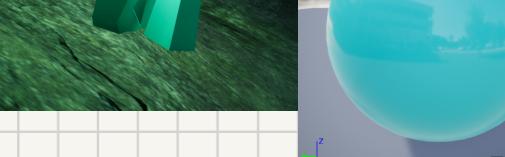
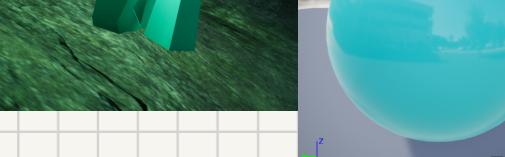
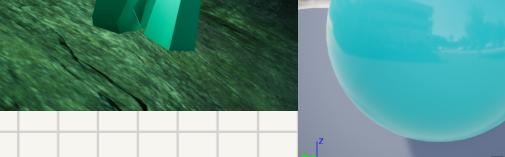
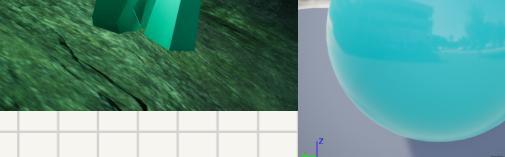
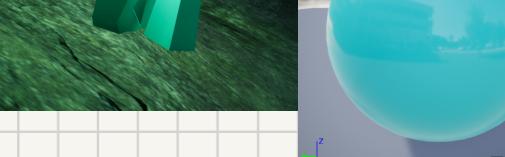
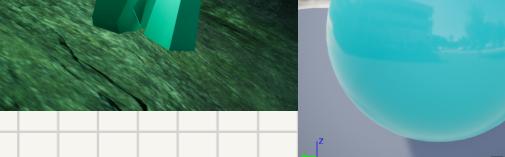
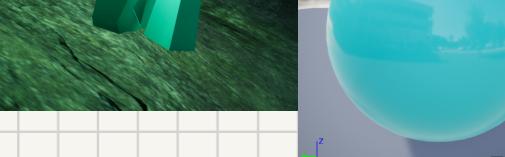
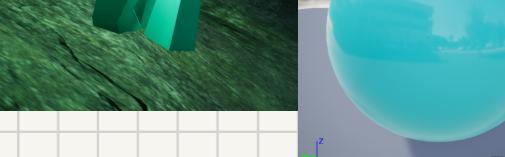
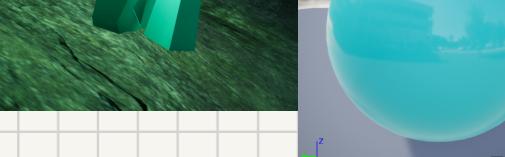
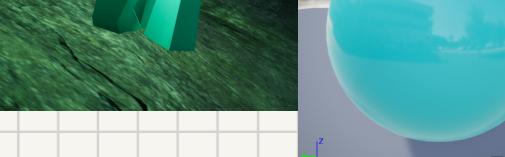
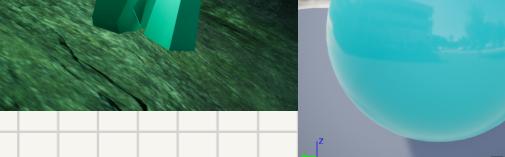
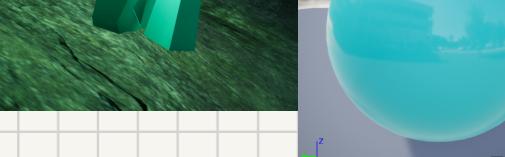
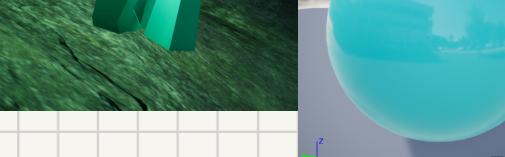
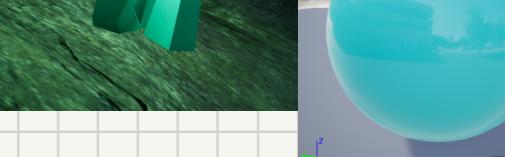
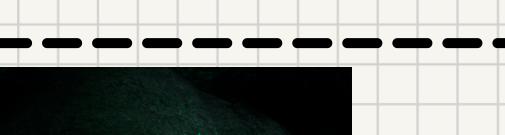
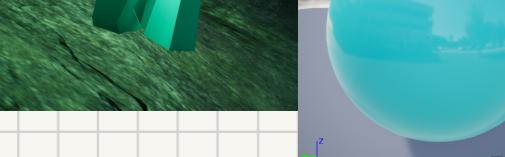
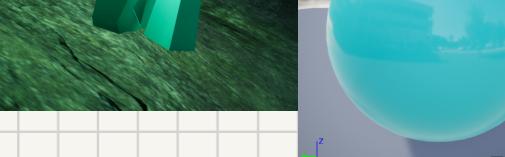
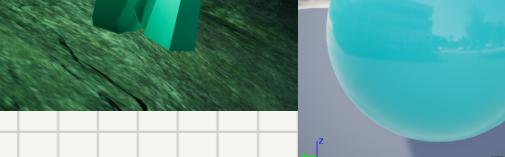
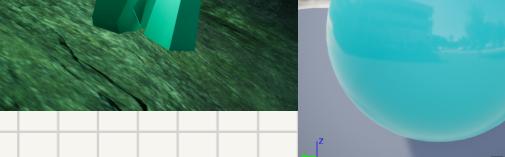
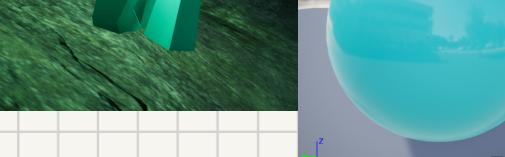
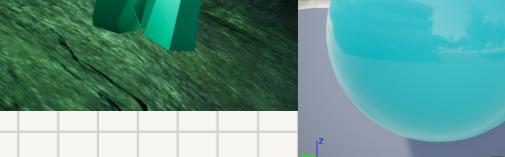
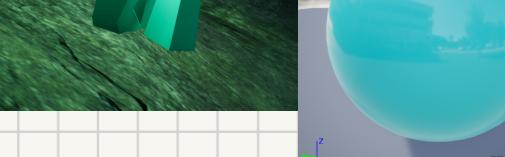
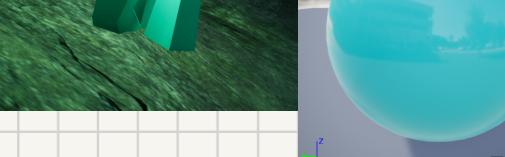
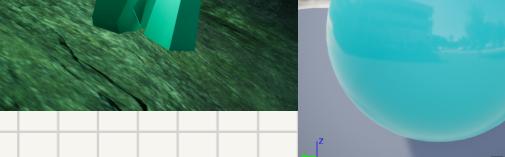
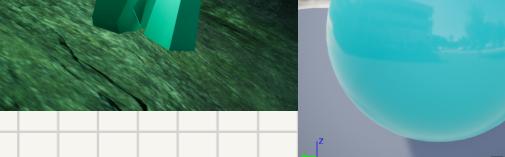
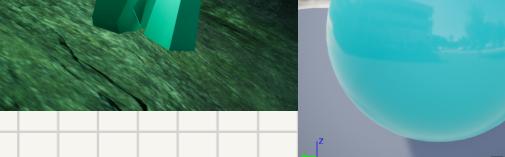
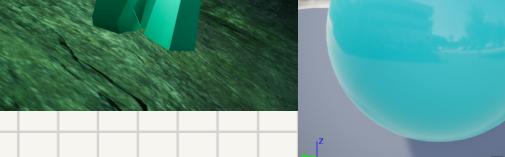
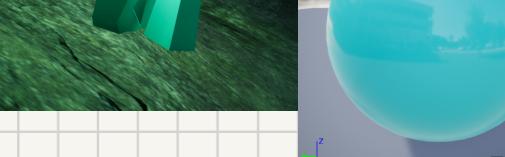
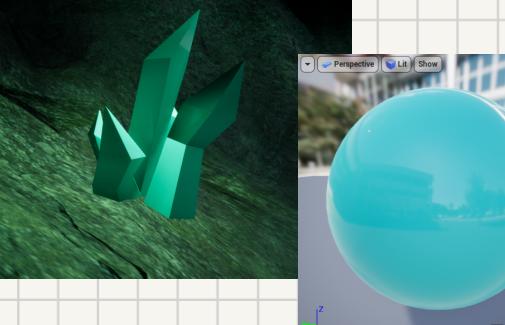
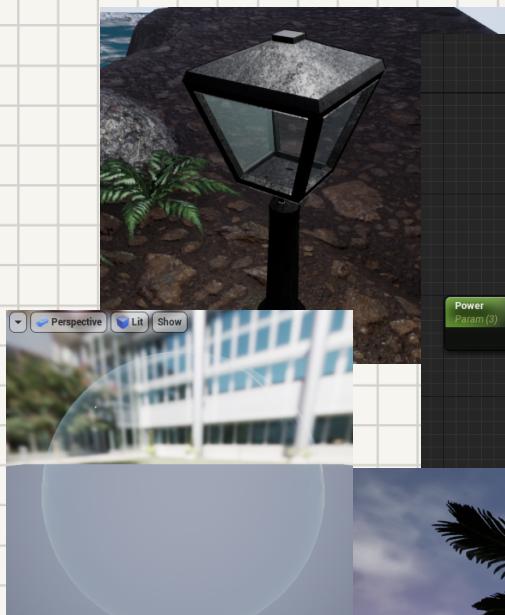
MATERIAL CREATION:



WATER SHADER

Uses normal maps with different values in two panner nodes to create the illusion of flowing water with waves

GLASS MATERIAL

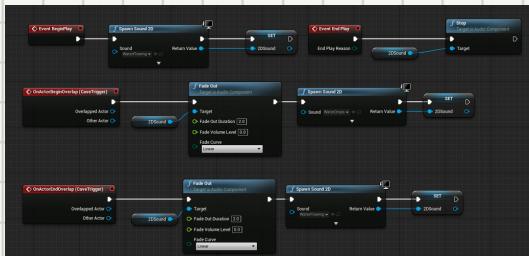


GAME LEVEL:



Animated Water Shader to simulate a flowing stream of water

ISLAND EXTERIOR



Background music and sound effects that respond to event triggers



Animated rats scattered around Garfield's grave

MYSTERIOUS CAVE



Cave Painting Decal on the cave walls

ANIMATION:

Particle System

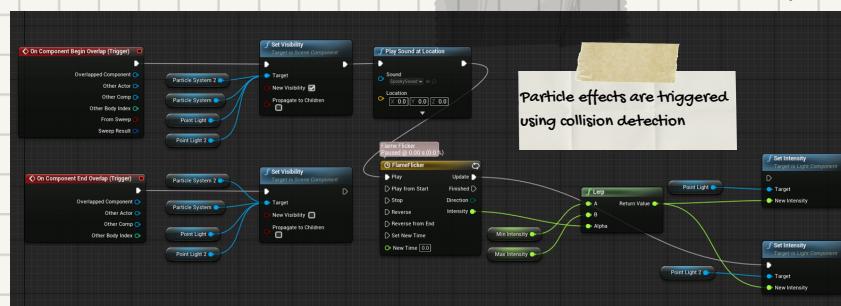


Animated candle flame and smoke using an actor blueprint and particle effects



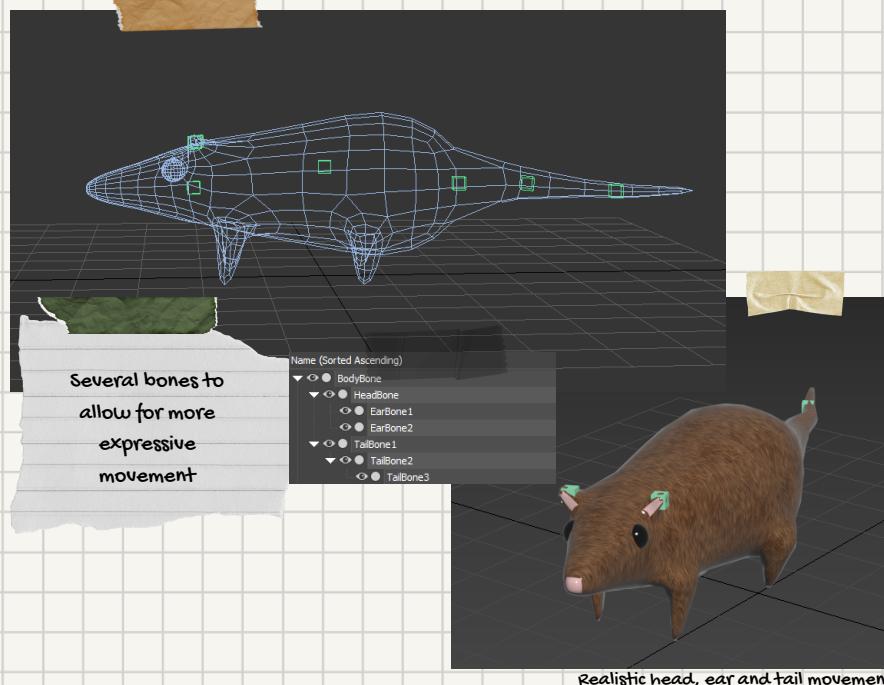
CANDLE

Blueprint

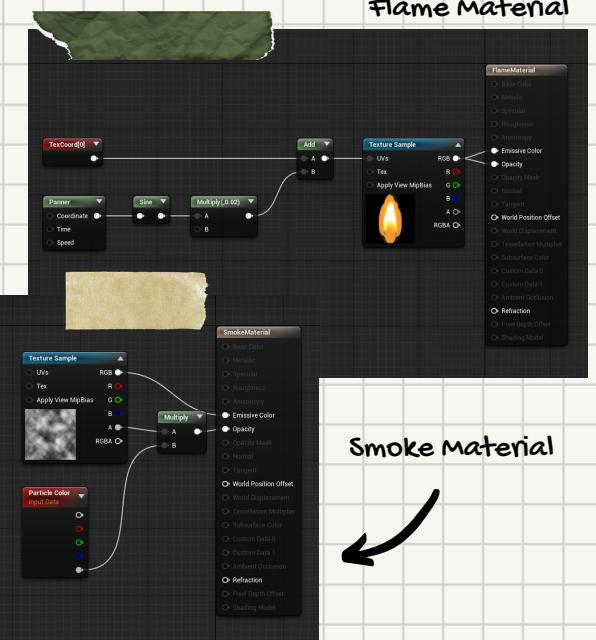


ANIMATED RAT

wireframe view of bones

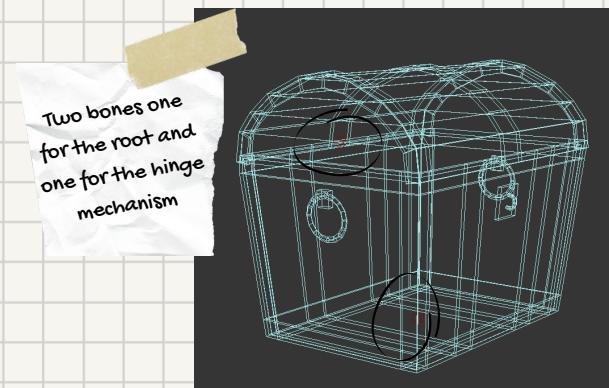


Realistic head, ear and tail movements

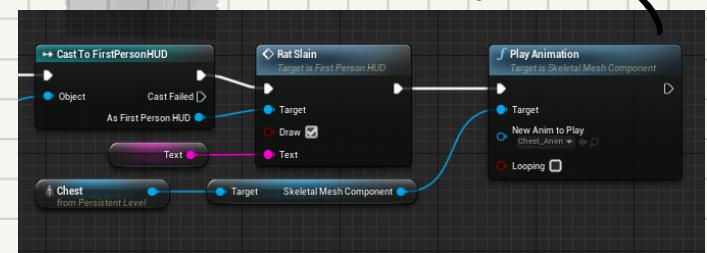


Smoke Material

ANIMATED CHEST



Animation is triggered when Rat is Slain



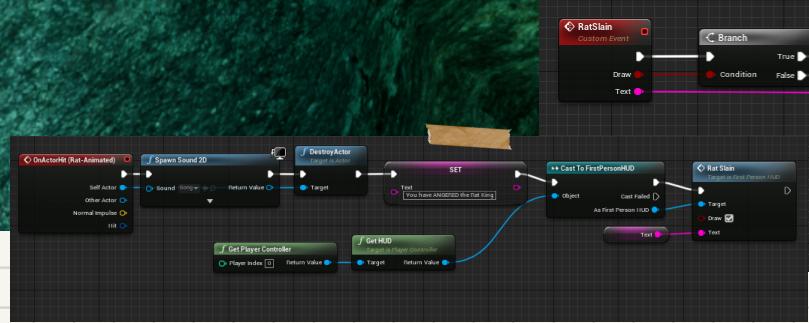
GAMEPLAY:



Level Blueprint

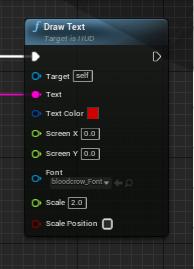


RAT ENEMY

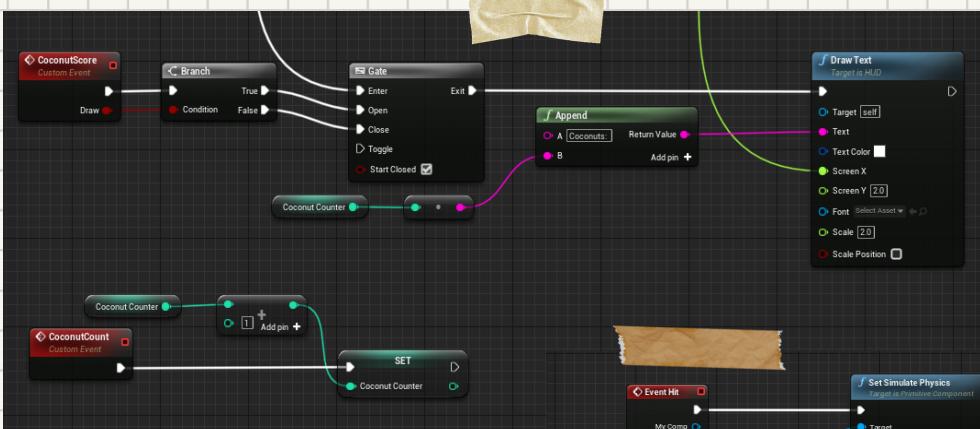


Text is displayed when a player kills the Rat ... this sets up the possibility for a future Boss Battle to be implemented

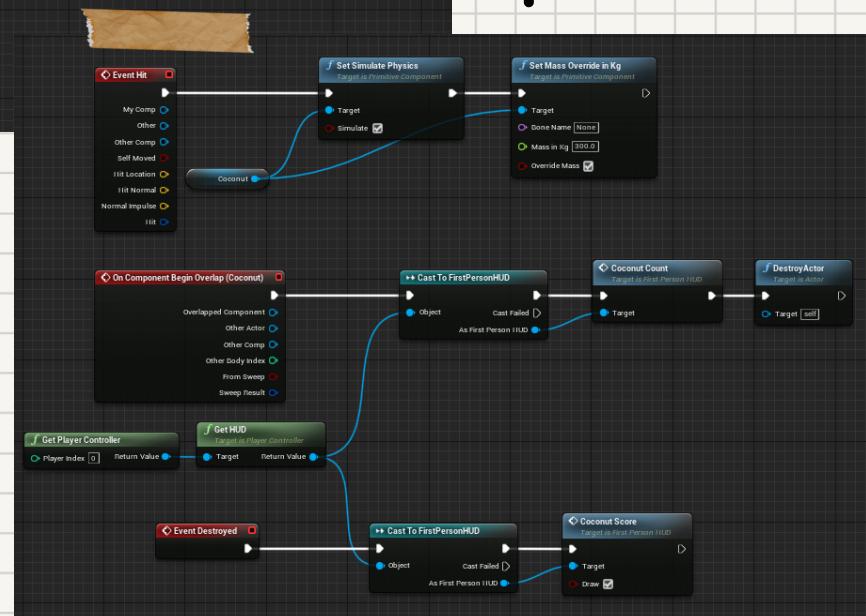
HUD Blueprint



COCONUT PICKUPS



HUD Blueprint



Coconut Actor Blueprint

Coconuts drop to the ground when shot at and once a user walks to them their score is updated and the object is destroyed

REFERENCES:

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It was difficult to retrace a few samples I had used for this portfolio back to their source. Hence, please assume that a texture has been obtained via the internet unless explicitly stated otherwise (e.g. the centre of a log texture from an image I took).