

# LESSON 2

## BASIS



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BASIS GAME DEVELOPMENT





BASIS GAME DEVELOPMENT



ASSETS

# BASIS GAME DEVELOPMENT

1. ASSET
2. WORLD
3. OBJECT
4. DETAILS
5. FINDER
6. CONSOLE
7. TEMPLATE

BASIS



TYPE



## DEFINITION

AN **ASSET** IS THE **BASIS** OF EVERY GAME ENGINE AND EVERY PROJECT. THESE ARE THE **ELEMENTS** YOU'LL FIND IN YOUR EXPLORER AND **CONSTITUTE** YOUR PROJECT. A **SCRIPT**, A **TEXTURE**, AN **IMAGE**, ETC... ALL OF THIS ARE **ASSETS**

## CONTENT

**ASSETS** IS THE **CONTENT** OF YOUR GAME. EVERYTHING IS **ASSET** AND WHEN IT COMES TO **COOKING**, ENGINE WILL BE USING THE **ASSETS** IN YOUR PROJECT TO BE **PACKAGED** INTO THE **EXECUTABLE**.

## IMPORT

SOME **ASSETS** WILL BE **CREATED** FROM THE ENGINE, SOME WILL BE **IMPORTED**. FOR MOST CASES, YOU CAN SIMPLY **DRAW** & **DROP** A FILE FROM **WINDOWS'S EXPLORER** INTO **ENGINE EXPLORER** TO **IMPORT** IT.



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TYPE



BASIS



## DEFINITION

TYPE OF ASSETS DEPENDS ON THE ENGINE YOU'RE USING BUT THE IDEA IS THAT EVERY ASSET HAS A TYPE WHICH GOES FROM **IMAGE TYPE** (JPG, PNG, ETC...) TO **SOUND TYPE** (WAV, MP3, ETC...)

## TRANSFORMATION

IT IS ALSO IMPORTANT TO NOTICE THAT AN ASSET IS NOT **MANDATORY** OF THE **TYPE** FROM WHICH YOU **IMPORTED**. THERE IS SOME FORMAT THAT ARE **PROPRIETARY**, OR NOT SUITS TO THE ENGINE, WHICH CONVERT THEM INTO AN **INTERNAL FORMAT**



EDITOR



WORLD



# BASIS GAME DEVELOPMENT

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LEVEL



COORDINATE



DESIGN



WIDGET



OPTIONS



## DEFINITION

A world is composed of **MULTIPLES LEVELS**. The name can vary but the **PRINCIPLE** is exactly the **SAME**. A **LEVEL** is where the **LEVEL DESIGNERS** will be working to create a **PLACE** where the **PLAYER** will **INTERACT** and **PLAY**

## ASSET

A **LEVEL** is an **ASSET**, like everything, and it will **CONTAINS** all information about every **OBJECT** you've placed in it.

## TRANSITION

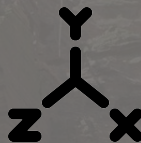
**LEVELS** are the main elements when it comes to **LOADING A MAP**, having a **LOADING SCREEN**, etc...



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OPTIONS



## DEFINITION

COORDINATE IS NOT A CONCEPT TIED TO WORLD DIRECTLY, BUT IS CENTRAL TO IT. A LOCATION WILL ALWAYS BE RELATED TO THE WORLD 0, 0, 0. THE WORLD OFFERS THE COORDINATE SYSTEM AND REFERENCE POINT FOR EVERY OBJECTS

## LEFT HAND VS RIGHT HAND

THIS IS SOMETHING YOU REALLY NEED TO TAKE CARE. SOME ENGINE TAKE LEFT HAND AS COORDINATE WHEN OTHERS TAKE RIGHT HAND. IT LEADS TO HAVING A X AXIS INVERTED BETWEEN FORWARD AND BACKWARD

## Y VS Z UP VECTOR

ALSO IMPORTANT, WE ARE USED TO Y BEING THE UPPER VECTOR BECAUSE OF 2D, BUT FOR MOST GAME ENGINE, Z IS THE UPPER VECTOR WILL Y IS THE LEFT VECTOR



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LEVEL



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WIDGET



OPTIONS



## DEFINITION

WORLD IS WHAT MANAGE THE LEVELS UNDERNEATH WHEN YOU ARE **LOADING LEVELS**, YOU ARE ACTUALLY ADDING A LEVEL INTO THE **WORLD**. THE DESIGN PROCESS HAS TO TAKE THAT INTO CONSIDERATION BECAUSE **MULTIPLE LEVEL CAN LAYER**.

## ARTISTIC TASK

DESIGNING A **LEVEL** IS AN **ARTISTIC TASK**, AND DEVELOPERS ARE USUALLY **NOT INVOLVED** BUT YOU MUST BE AWARE OF WORLD DESIGN FEATURE LIKE FOR EXAMPLE **WORLD PARTITION** ON UE



# BASIS GAME DEVELOPMENT

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## WIDGET



## LEVEL



## COORDINATE



## DESIGN



## OPTIONS



## DEFINITION

WHEN YOU ARE DESIGNING LEVELS WITHIN THE WORLD, YOU HAVE ACCESS TO A **VARIETY** OF **WIDGETS** THAT OFFERS OPTIONS TO MODIFY THE OBJECT LIKE **MOVING**, **SCALING**, **ROTATING** FOR THE MOST COMMON ONE.

## OTHERS

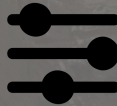
TRANSFORM WIDGET IS NOT THE ONLY ONE AND THIS WILL BE DEPENDANT ON THE ENGINE, BUT YOU CAN FOR EXAMPLE FIND GRID SIZE, ROTATION SCALE, SNAPPING, GIZMOS, ETC...



# EDITOR

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## OPTIONS



### LEVEL



### COORDINATE



### DESIGN



### WIDGET



## DEFINITION

WHEN YOU'RE WORKING IN THE WORLD, ENGINES ALSO OFFERS VARIOUS OPTIONS TO ALTER THE LOOKS OF THE SCENE. LIKE SHOWING THE DEPTH, A WIREFRAME VIEW, SHOWING NAVMESH, CHANGING RESOLUTION, ETC...



EDITOR



OBJECT



# WHAT IS A GAME ENGINE ?

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ENTITY



TRANSFORM



CONTAINER



HIERARCHY



COMPONENT



## DEFINITION

OBJECT HAVE DIFFERENT NAMES BASED ON ENGINE : `GAMEOBJECT`, `ACTOR`, ETC... BUT THE CONCEPT STAYS THE SAME. THEY ARE OBJECTS WHICH WILL BE PLACEABLE INTO A LEVEL.

## AN EMPTY BOX

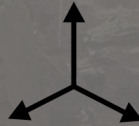
YOU'LL UNDERSTAND IT IN THE NEXT SLIDES, BUT AN OBJECT IS BASICALLY AN EMPTY BOX WITH A TRANSFORM, ON WHICH YOU'LL BE CONNECTING A LOT OF THINGS IN ORDER TO GIVE FUNCTIONALITIES



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TRANSFORM



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CONTAINER



HIERARCHY



XXX



## DEFINITION

IF OBJECTS ARE PLACEABLE, IT MEANS THEY HAVE A TRANSFORM. A TRANSFORM IS A SET OF 3 PROPERTY : LOCATION, ROTATION AND SCALE.

LOCATION IS A VECTOR3 REPRESENTING X,Y,Z POSITION IN THE WORLD

ROTATION IS A VECTOR3 REPRESENTING PITCH, YAW, ROLL IN THE WORLD

SCALE IS A VECTOR3 REPRESENTING X,Y,Z SCALING ON AXIS IN THE WORLD

## WORLD VS LOCAL

RELATED TO HIERARCHY, LOCAL TRANSFORM SHOULDN'T BE CONFUSED WITH WORLD TRANSFORM. A LOCAL TRANSFORM WILL ALWAYS BE RELATIVE TO PARENT, WHILE WORLD TRANSFORM WILL BE RELATIVE TO WORLD 0, 0, 0.



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HIERARCHY



COMPONENT



## DEFINITION

AS EXPLAINED A BIT EARLIER, AN OBJECT BY ITSELF IS NOTHING BUT AN **EMPTY THING** IN A LEVEL. IT COMES TO LIFE WHEN YOU BRING ELEMENT TO IT.

## EXAMPLE

THERE IS AS MANY ELEMENT THAT YOU CAN ADD, AS YOUR IMAGINATION COMES WITH. ANYTHING CAN BE ADDED TO AN OBJECT, A MESH TO HAVE A REPRESENTATION, A SOUND PLAYER TO HAVE SOUND, ETC...



# WHAT IS A GAME ENGINE ?

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## HIERARCHY



## ENTITY



## TRANSFORM



## CONTAINER



## COMPONENT



## DEFINITION

ANOTHER REALLY IMPORTANT POINT ABOUT OBJECTS IS THE **HIERARCHY SYSTEM**. EVERY OBJECT IS A **CHILD** OF ANOTHER. THIS HIERARCHY EXPLAINS THE LOCAL / WORLD DIFFERENCE AND HAVE ALSO SOME IMPLICATION

## ROOT

A LEVEL MUST BE SEEN AS A **GRAPH**, AND FOR ANY GRAPH THERE IS A **ROOT**. THIS MEANS **TOP LEVEL OBJECT** IN A LEVEL ARE ACTUALLY **CHILD** OF THE **ROOT** OF THE LEVEL, WHICH IS **INVISIBLE** IN THE EDITOR.

## IMPLICATION

WHEN AN OBJECT IS **MOVING**, **ROTATING** OR **MOVING**, IT WILL DIRECTLY **AFFECT** THE **CHILDREN** BECAUSE OF **NATURAL HIERARCHY INHERITANCE** OF **TRANSFORM** PROPERTY. THANKFULLY, THERE IS A WAY TO **AVOID** THAT IN EVERY ENGINE.



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## COMPONENT



## ENTITY



## TRANSFORM



## CONTAINER



## HIERARCHY



## DEFINITION

A COMPONENT IS BASICALLY AN **ENCAPSULATED LOGIC** WHICH CAN BE CONNECTED TO AN OBJECT IN ORDER TO GIVES IT NEW FUNCTIONALITIES. THERE IS **GRAPHICAL COMPONENT** AND **LOGICAL COMPONENT**.

## ENGINE'S COMPONENTS

EVERY ENGINE COMES WITH A SET OF **COMPONENT** ALREADY **DEFINED** AND **IMPLEMENTED**. TAKES FOR EXAMPLE A **MESH**, A **SKELETAL MESH**, AN **AUDIO PLAYER**, ETC... ALL OF THIS ARE COMPONENTS PROVIDED BY ENGINE.

## CUSTOM COMPONENTS

THERE IS **MULTIPLE** WAYS TO DEVELOPS NEW **FEATURES**, ONE IS TO BRING A NEW FEATURE THROUGH A **COMPONENT**. IMAGINE AN **INVENTORY**, IF YOU WANT OUR ACTOR TO HAVE AN **INVENTORY**, SIMPLY ADD THAT **COMPONENT**



EDITOR



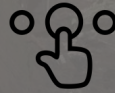
DETAILS



# WHAT IS A GAME ENGINE ?

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SELECTION



PROPERTIES



CUSTOMIZATION



## DEFINITION

DETAILS ALLOWS TO HAVE **MORE INFORMATION** ABOUT SOMETHING AS THE NAME SUGGESTS. IN ENGINE, WHEN YOU SELECT AN **ENTITY** IN THE **WORLD**, THE DETAILS PANEL WILL UPDATE WITH THE **INFORMATIONS** OF THAT **OBJECT**

## MULTI-SELECTION

**MULTI-SELECTION** IS A THING IN SOME ENGINE WHEN YOU ARE SELECTING **ENTITIES** OF SAME **TYPE**, OR CONTAINING SAME **COMPONENTS**, YOU MAY BE ABLE TO EDIT **MULTIPLES INSTANCE'S** PROPERTIES AT THE SAME TIME



# WHAT IS A GAME ENGINE ?

1. ASSET
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7. TEMPLATE

## PROPERTIES



## SELECTION



## CUSTOMIZATION



## DEFINITION

A PROPERTY IS ANYTHING CONTAINS WITHIN THE ENTITY. IT WILL DIFFER BASED ON WHICH ENGINE YOU USE, BUT THE LOGIC STAYS THE SAME. FEATURES YOU DEVELOP EXPOSES SOME PROPERTIES THAT DESIGNERS WILL TWEAK.

## EXPOSING

IT IS DEVELOPER'S JOB TO EXPOSE SOME KEY VARIABLES OF THE FEATURE TO BE TWEAKABLE. THEY WILL APPEARS IN THE DETAIL PANEL WHEN YOU SELECT THE ENTITY / COMPONENT.

## RUNTIME

CHANGING PROPERTIES AT RUNTIME MAY BE SOMETHING YOU WANT TO MAINTAINS FOR DESIGNERS TO EASILY TWEAKS PROPERTIES TO TRY THINGS, BUT IT IS NOT ALWAYS AS STRAIGHTFORWARD AS THAT IF THERE IS SIDE EFFECTS



# WHAT IS A GAME ENGINE ?

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## CUSTOMIZATION



## PROPERTIES



## SELECTION



## DEFINITION

YOU CAN CUSTOMIZE DISPLAY OF PROPERTIES IN THE DETAILS. IT CAN BE MORE OR LESS DIFFICULT, BASED ON THE ENGINE AND THE TOOLS THEY OFFERS BUT IT IS ALWAYS POSSIBLE.

## THE GOOD, THE BAD, THE UGLY

DOING EDITOR MODIFICATION SHOULD ALWAYS BE CONSIDERED WITH CARE, BECAUSE YOU MAY COMPLETELY MESSED-UP THINGS. BUT WHEN USED PROPERLY, IT IS A POWERFUL WAY TO INCREASE PRODUCTIVITY.

## TAB CREATION

YOU CAN EVEN CREATE COMPLETE NEW TAB WINDOW TO BE USED IN THE EDITOR, BUT IT WILL NOT BE COVERED IN THIS LESSON.



EDITOR



FINDER



# WHAT IS A GAME ENGINE ?

1. ASSET
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4. DETAILS
5. FINDER
6. CONSOLE
7. TEMPLATE

## ASSETS



## FILTERS



## CREATION



## DEFINITION

FINDER IS LIKE A WINDOWS EXPLORER, BUT SPECIFIC TO YOUR PROJECT LOCATION. IT IS THE PLACE WHERE EVERY ASSETS IS LOCATED.

## ROOT

THERE IS ALWAYS A ROOT FOLDER, WHICH IS SOMETHING NOT SHOWN, BUT EVERY ASSETS NEEDS TO BE LOCATED IN IT. THE ASSETS HERE WILL BE TRANSLATED INTO COMPREHENSIVE FORMAT FOR ENGINE, AND ABLE TO BE COOKED

## MOVING STUFF

WHEN YOU MOVE STUFF IN AND OUT OF CONTENT FOLDER, BE CAREFUL TO DO IT FROM ENGINE, AND NEVER FROM WINDOWS EXPLORER. YOU MAY MESSED-UP THINGS, BECAUSE ENGINE WILL NOT TRANSFORM THE ASSETS SOMETIMES.



# WHAT IS A GAME ENGINE ?

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FILTERS



ASSETS



CREATION



## DEFINITION

EVERY FINDER COMES WITH A FILTER FEATURE THAT ALLOWS TO SHOW ONLY SOME TYPE OF ASSETS, OR FILTER BY NAME, ETC...

## IMPLICATION

THIS IS SPECIFIC TO PROJECT AND COMPANIES, BUT HAVING A FILTER OPTIONS CAN BE IMPACTING HOW YOU ARCHITECTURE THE FILE FOLDER.



# WHAT IS A GAME ENGINE ?

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7. TEMPLATE

CREATION



FILTERS



ASSETS



## DEFINITION

OBTAINING THE LOCATION OF ASSETS, FINDER WILL OFFER THE POSSIBILITY TO CREATE ASSETS FROM IT. YOU'LL MOST LIKELY HAVE TO RIGHT CLICK IN IT, AND CHOOSE THE TYPE OF ASSET YOU WANT TO CREATE.

## NAMING CONVENTION

NAMING CONVENTION IS REALLY IMPORTANT TO STAY ORGANIZED REGARDING FILE HIERARCHY. IF YOU CHOOSE TO START EVERY MATERIAL WITH M\_, BE SURE TO STICK WITH THAT RULE IN THE ENTIRE PROJECT.



EDITOR



CONSOLE



# WHAT IS A GAME ENGINE ?

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DEBUG



LOGGING

LOG

## DEFINITION

EVERY ENGINE COMES WITH A CONSOLE THAT ALLOWS TO SEE **DEBUG MESSAGE**, **ERRORS**, **WARNING**, ETC... THAT'S THE **PRIMARY TOOL**, WITH **BREAKPOINT**, THAT'LL ALLOWS TO **TRACK ISSUES**

## WARNING

WHATEVER ENGINE YOU USE, **DO NOT IGNORE WARNING**, IN THE SHORT TERM, THEY COULD BE **NOTHING** BUT IN THE LONG RUN, THEY MAY BE **ISSUE REGARDING PERFORMANCE**, **UNKNOWN BUG**, ETC...



# WHAT IS A GAME ENGINE ?

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## LOGGING



## DEBUG



## DEFINITION

LOGGING PROCESS IS **PRIMORDIAL** FOR DEVELOPMENT. IT IS WHAT **FILLS** **DEBUG** **CONSOLE** WITH **MESSAGES**. YOU'LL MOST LIKELY **LOG** WITH A **CATEGORY**, AND SOME **LOG** ARE **GENERATED** BY THE **ENGINE** WHEN AN **ERROR** OCCURRED.

## CREATION

IT WILL DEPENDS OF THE **ENGINE** USED, BUT MOST OF THEM **ALLOWS** TO **CREATE** NEW **LOGGING** **CATEGORIES**, EITHER FROM **VISUAL** OR **CODE** **SIDE**. IT WILL **ALLOWS** TO **DEVELOP** **FEATURES** **INDEPENDENT** WITH A **PROPER** **LOGGING** **CATEGORY**.

## FILTERS

WHEN IT COMES TO **FILTERING**, **ERROR**, **WARNING**, **INFO** ARE SOME **CATEGORIES** THAT ARE **COMMON** TO EVERY **ENGINE**. BUT GIVEN YOU CAN **CREATE** NEW **LOGGING** **CATEGORY**, YOU MAY BE ABLE TO **FILTER** WITH THE **CUSTOM** **CATEGORIES**





EDITOR



TEMPLATE

# WHAT IS A GAME ENGINE ?

1. ASSET
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## PATTERN



## OPERATION



## INSTANCES



## DEFINITION

A **PATTERN** IS LIKE THE NAME SUGGEST, SOMETHING THAT WILL BE **SIMILAR** AND **FOLLOWED** BY EVERYTHING THAT STARTS FROM IT.

## CAKE EXAMPLE

TAKE A **CAKE** AS AN EXAMPLE. YOU'LL BE USING A **MOULD** TO MAKE THE **FOUNDATIONS**. THEN, YOU CAN **DECORATE** THE CAKE AS YOU LIKED, THEY MAY ALL BE **DIFFERENT** IN THE END, BUT WITH A **COMMON BASE**, **IMMUTABLE** FOR ALL.



# WHAT IS A GAME ENGINE ?

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## OPERATION



## PATTERN



## INSTANCES



## DEFINITION

THE OPERATION MADE BY A TEMPLATE IS QUITE SIMPLE, MAKING SURE THAT EVERY INSTANCE COMING FROM THAT TEMPLATE IS UP TO DATE WITH THE TEMPLATE;

## INHERITANCE LOGIC

YOU CAN TAKE IN COMPARISON STANDARD INHERITANCE OF CLASS SYSTEM. WHEN YOU DO A MODIFICATION, IT IS IMPLICITLY AFFECTING CHILD CLASS. TEMPLATE HAVE THE SAME LOGIC.

## OVERRIDDEN PROPERTIES

WHEN YOU MODIFY SOME PROPERTIES (LIKE POSITION, A VARIABLE IN A COMPONENT, ETC...) OF A TEMPLATE, IT MAY NOT AFFECT CHILDREN IF THEY HAVE MODIFIED THAT PROPERTY. CHILDREN HAVE PRIORITY IN THAT CASE.



# WHAT IS A GAME ENGINE?

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## INSTANCES



## PATTERN



## OPERATION



## DEFINITION

AN **INSTANCE** IS A **TEMPLATE** WHICH IS **PLACED** INTO THE **WORLD**, ON WHICH YOU'LL BE ABLE TO MODIFY PROPERTIES, AND WHICH WILL BE AFFECTED BY **CHANGES**.

## INSTANCE VS CHILD

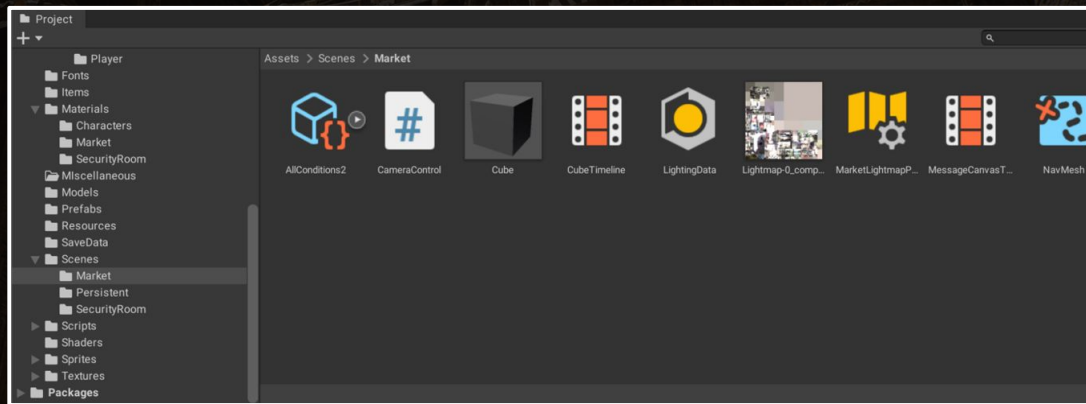
A **CHILD** OF A **TEMPLATE** STILL REMAINS A **TEMPLATE**, YOU CAN CREATE A **HIERARCHY** OF **TEMPLATE**, ONE BEING MORE **SPECIFIC** FROM THE **HIGHER** ONE, BUT IT IS STILL NOT AN **INSTANCE**. THE DIFFERENCE IS





UNITY

ASSET & FINDER





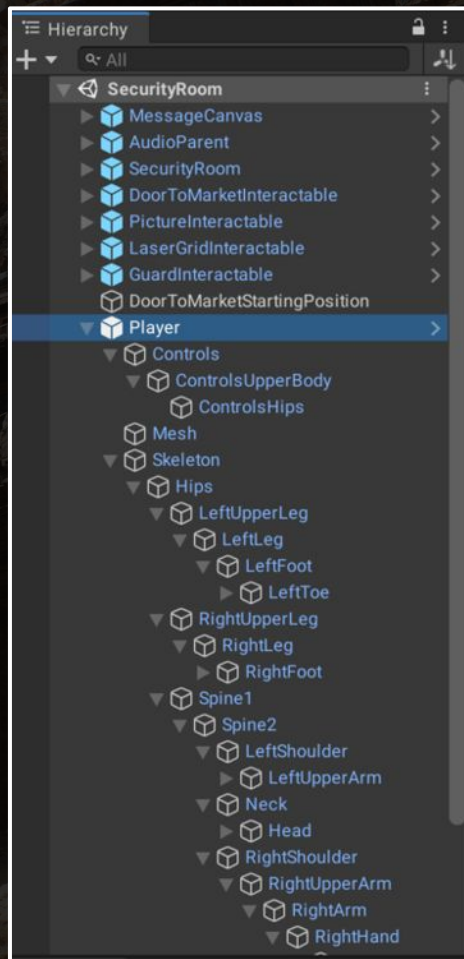
UNITY

WORLD



UNITY

OBJECT





# UNITY DETAILS

Inspector

Player

Static

Tag: Untagged Layer: Default

Prefab: Open Select Overrides

Transform

Position X: -0.7 Y: 0 Z: 3.5  
Rotation X: 0 Y: 180 Z: 0  
Scale X: 1 Y: 1 Z: 1

Animator

Controller: ClickToMove  
Avatar: PlayerAvatar  
Apply Root Motion: Handled by Script  
Update Mode: Normal  
Culling Mode: Cull Update Transforms  
Clip Count: 9  
Curves Pos: 0 Quat: 0 Euler: 0 Scale: 0 Muscles: 1170 Generic: 0 PPTr: 0  
Curves Count: 1170 Constant: 85 (7.3%) Dense: 538 (46.0%) Stream: 547 (46.8%)

Nav Mesh Agent

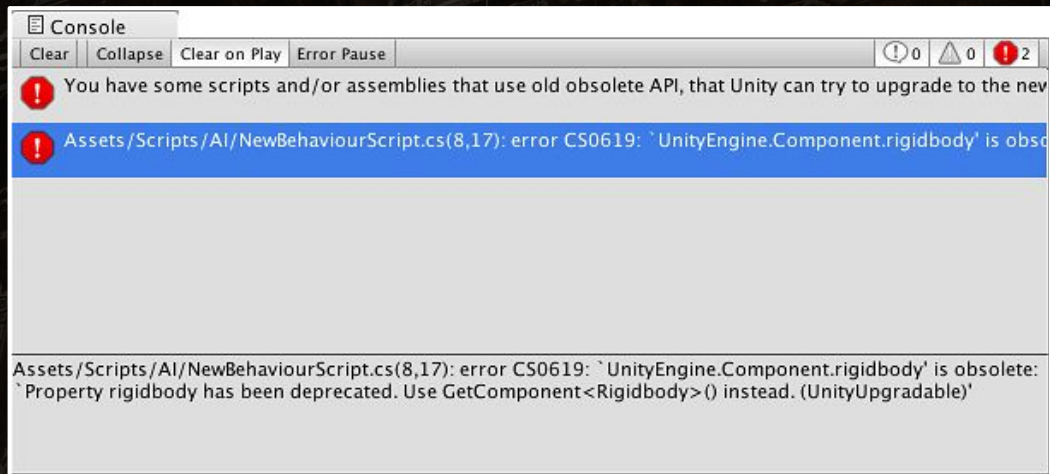
Agent Type: Humanoid  
Base Offset: 0  
Steering  
Speed: 2  
Angular Speed: 120  
Acceleration: 20  
Stopping Distance: 0.15  
Auto Braking: ☒  
Obstacle Avoidance  
Radius: 0.5  
Height: 2  
Quality: High Quality  
Priority: 50  
Path Finding  
Auto Traverse Off Mesh: ☒  
Auto Repath: ☒  
Area Mask: Mixed...

Player Movement (Script)

Script: PlayerMovement  
Animator: Player (Animator)  
Agent: Player (Nav Mesh Agr  
Player Save Data: PlayerSaveData (Save  
Turn Smoothing: 15  
Speed Damp Time: 0.1  
Slowing Speed: 0.175

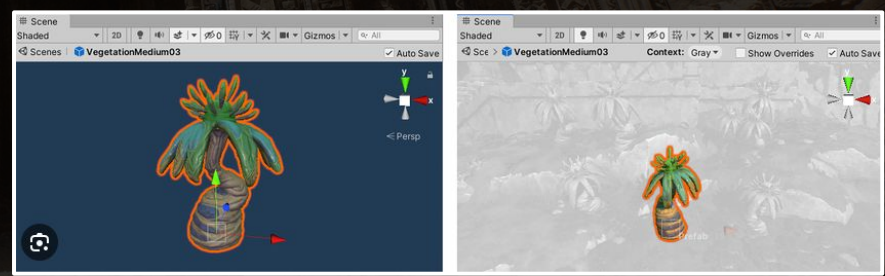
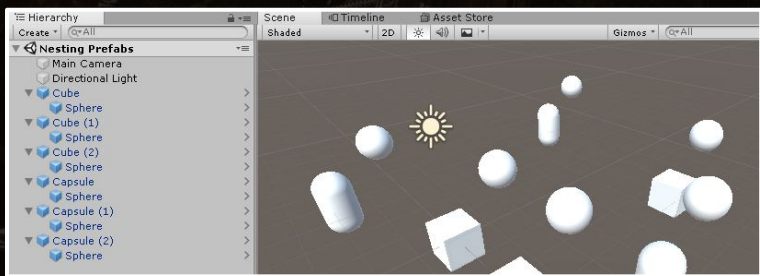
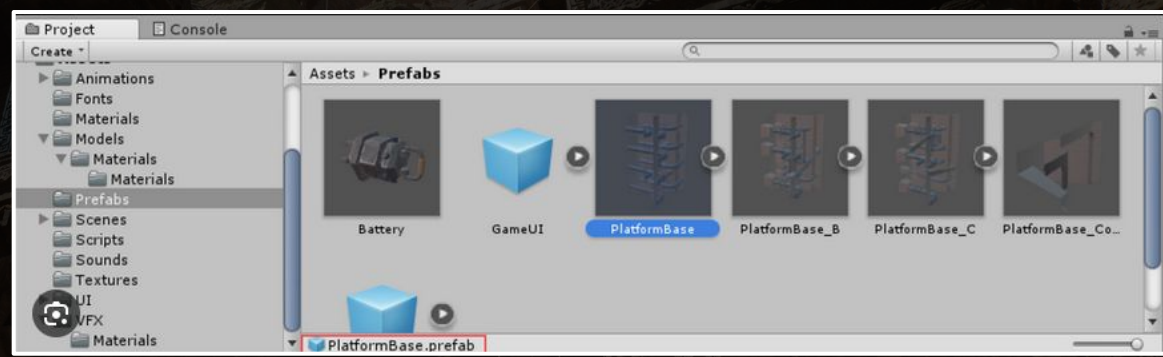
UNITY

CONSOLE






# UNITY TEMPLATE



The background image shows the ruins of an ancient Egyptian temple, likely the Temple of Isis at Philae. The temple is carved into a sandstone cliff face, featuring hieroglyphs and statues. The scene is dimly lit, with a central horizontal band containing text. 

 LIVE DEMONSTRATION



The background image shows ancient stone ruins, possibly Mayan or Aztec, with intricate carvings and hieroglyphs. The scene is dimly lit, with a central horizontal band of light gray containing the text. The ruins are composed of large, weathered stone blocks, some of which are crumbling or missing, revealing the interior of the structures. The overall tone is mysterious and historical.

? QUESTIONS ?