# AI ENGINE 2.5D PLATFORMER

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#### I. FEATURE

# **Compatible with Character Controllers**

## Features:

- Special actions: Climbing Ladder, Swimming, Elevator, Rope(Climb/Swing),
  Sliding on slope, Balance, Push and Drag the object, Melee attack, Ledge climbing, Hidden.
- Sample level system
- Checkpoints
- Admob and UnityAds (Gameover and Finish)
- Easy replace the character with other Humanoid characters
- Mecanim Animator system

# Player ability:

- Melee attack
- Gun attack
- Swimming
- Rope: Climb/Swing
- Rope: Grab the Ropepoint
- Jetpack
- Run and Slide
- Wall Jump (Side to side)
- Ladder
- Sliding on slope
- Balance
- Push and Drag object
- Ledge Climbing
- Hidden
- Hanging pipe and moving
- Auto climb up and over the low object

#### **Camera script features:**

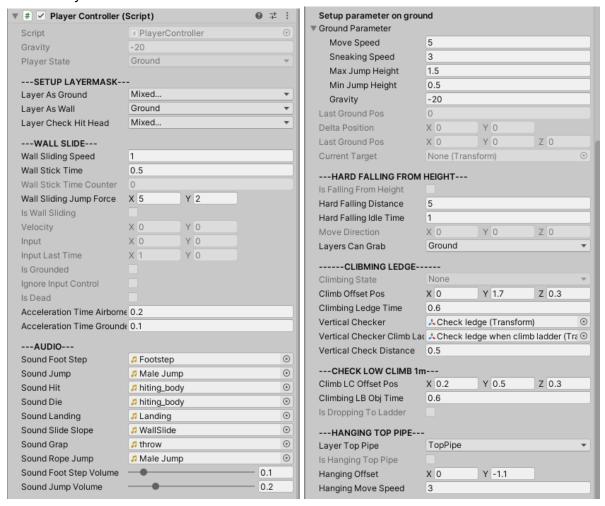
- Adjust the limit up and below position
- Set offset position to player

 <b>VIDEO</b>	<b>TUTORIAL</b>	
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https://youtube.com/playlist?list=PLHuyOBWrU-Q1gMJfyjuMVSR8XxjFkdjcW

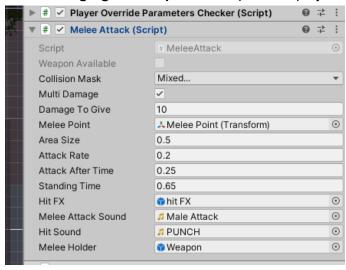
#### II. GAMEPLAY

#### a. Player

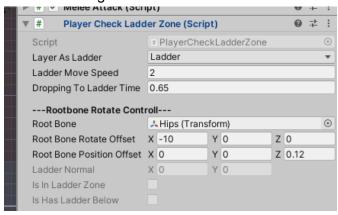


- Wall Sliding Speed: when stick on wall, player will move down with this value speed
- Wall Sliding Jump Force: the jump force value applied when jump when stick on wall
- **Acceleration Time...**: the response time to the speed, try to change this value when run, jump to know more
- Ground Parameter:
  - Move Speed: moving speed
  - Sneaking Speed: the speed that player can move when hidden behind the wall
  - Max Jump Height: the highest Y value that player can reach if hold the Jump button
  - Min Jump Height: the lowest Y value that player reach to if user release the Jump button very fast
  - Gravity: set the gravity for the player depend on Ground or Water
- Hard Falling Distance: when player jump from the height, active the landing action if the height > this distance value
- Hard Falling Idle Time: the landing time that player must idle before keep moving

- Climb Offset Pos: the offset value when grab and climb ledge, depend on the different height of the character, adjust this value to see the better result when the player climb on ledge
- **Climbing Ledge Time:** the time to finish climbing animation, must be adjust depend on the length of the animation clip
- Climb LC Offset Pos: read "Climb Offset Pos"
- Climbing LC Obj Time: read "Climbing Ledge Time"
- Hanging Offset: change this value depend on player model for best look
- Hanging Move Speed: set speed for player to move horizontal when hanging



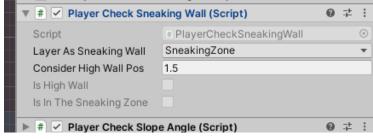
- Multi Damage: can attack more than 1 enemy in 1 hit
- Damage To Give: deal the damage to the enemy
- Area Size: enemy in this zone will get the damage
- Attack Rate: the delay between 2 attacks
- Attack After Time: To sync with the attack animation
- Standing Time: because player must standing when attack, set the time value for standing



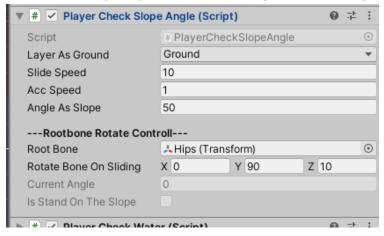
- Ladder Move Speed: the climbing speed up and down
- **Dropping To Ladder Time**: sync with the Dropping to Ladder animation
- Rootbone Rotate Control: you might need to change this value if you use another dropping animation to sync



- Check Distance: the distance to detect the rope
- Rope Move Up Speed: the moving speed up down
- Offset Player: change this value if you replace the player model to make it look like hold the rope
- **Swing Force**: the swing speed Left-Right
- Jump Out Force: jump out speed from the Rope



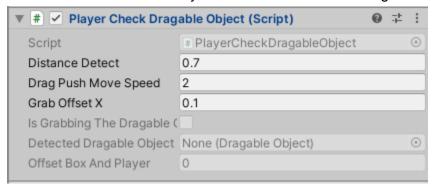
- **Consider High Wall Pos**: if the wall higher than this value, it is the High Wall, when sneaking, player have 2 sneaking animation (High and Low)



- **Slide Speed:** the sliding speed of the Player
- **Angle As Slope:** if the Slope with the angle larger than this value -> it is slope and player will do this action



- Offset Player With Surface: the distance of the root position with the surface of the water
- **Low Speed Percent**: when player walk in the water, the speed will be reduce this value (0.5 mean 50%)
- **Low Speed Height**: if the distance of the player's position and the water's surface lower than this value -> Player will walk instead swimming



- **Distance Detect**: the distance detect the pushable object
- **Drag Push Move Speed**: the dragging/push speed
- Grab Offset X: sysn with the holding animation to make player look like grab the object

# b. GameManager and SoundManager



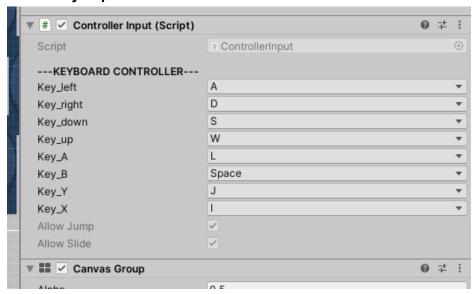
Sound Manager: place game music and sound

## c. Keyboard Control

- Move: A/D/S/W - Arrow keys

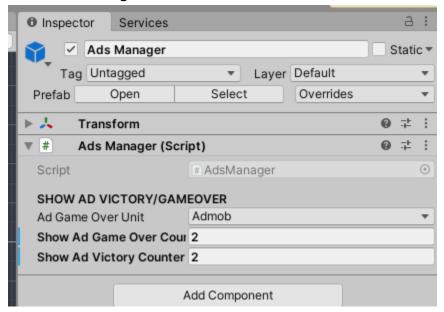
Jump: SpaceAction: LMelee: J

## d. Keymap



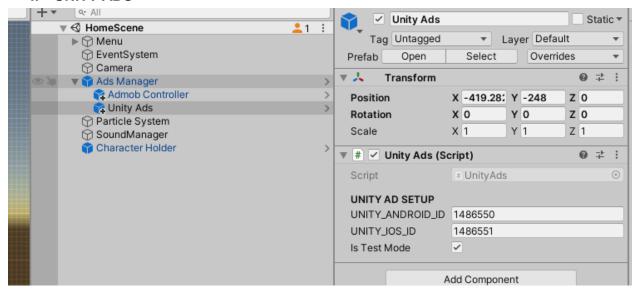
Set the Keyboard key to control the Player

## e. AdsManager



Set the Ads type (Admob & UnityAd) to show

# f. UNITY ADS



#### g. ADMOB

For more information about setup admob:

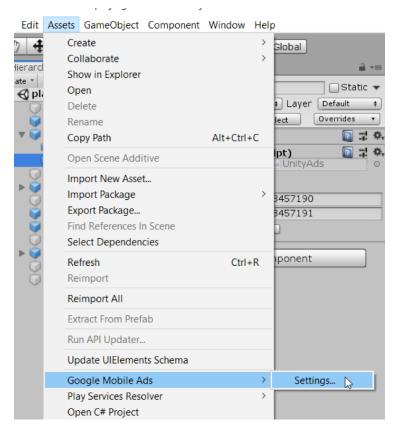
https://developers.google.com/admob/unity/quick-start?hl=vi

# Install the admob package:

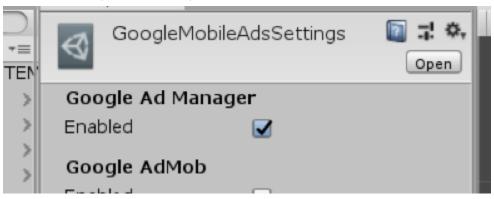
https://github.com/googleads/googleads-mobile-unity/releases/tag/v5.4.0



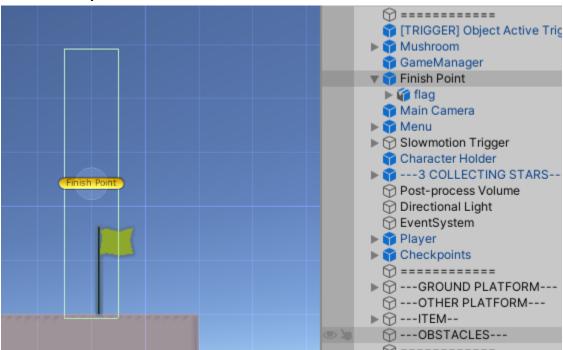
- Fill the Admob IDs here
  - Go to Settings... (if you can't find Google Mobile Ads settings then you didn't install the Admob package, so please read the Readme first.txt file to know more



- Then tick Google Ad Manager enable

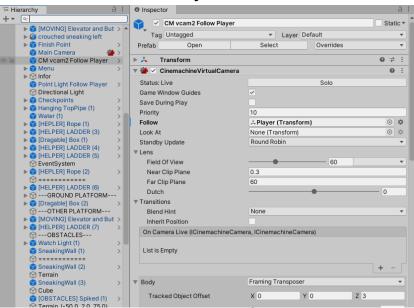


# h. Finishpoint



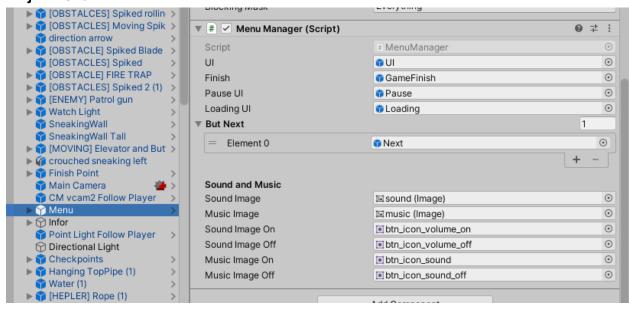
Place finish point to the correct position

i. CM vcam2 Follow Player



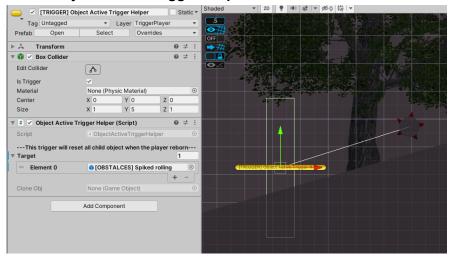
 This camera virtual will control the Main Camera follow the player, you can change the camera settings here

#### j. Menu



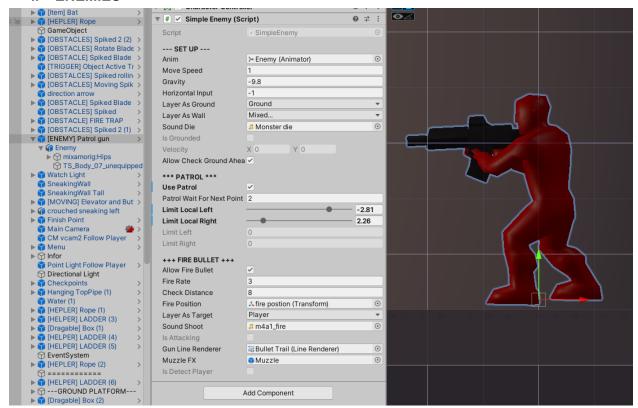
- Handle text/button/image

#### k. Object Active Trigger Helper



Place the object/objects wanna show it when player contact this trigger

#### I. ENEMIES



- Horizontal Input: -1 mean facing Left, 1 mean facing right on the begin
- **Use Patrol**: set the Limit Local Left/Right for the enemy
- Allow Fire Bullet: allow this enemy shoot the player in range
- Fire Rate: the delay between 2 shots
- Check Distance: the distance that this player can detect the player and shoot

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