PIXEL ART MONSTER - DUNGEON

Thank you for purchasing this asset pack. For any question, please email to support@cainos.net

QUICK GUIDE

First, just play around in the demo scene to see each monster and their skin variations.

Drag and drop one of the monster prefabs in Cainos\Pixel Art Monster - Dungeon\Prefab into your scene and then you can control it with your mouse and keyboard.

For every monster prefab, there are 3 scripts attached to it:

Pixel Monster	Controlling the appearance and animation of the monster.
Monster Controller	Controlling the movement of the monster.
Monster Input Mouse and Keyboard	Reading mouse and keyboard input and feed into the Monster Controller script

Generally, you would let an AI rather than players to control the monsters. In this case, delete the **Monster Input Mouse and Keyboard** script and let your AI to feed in the input values to the controller script, or you can only keep the **Pixel Monster** script and take full control of the monster's movement by yourself.

MONSTER SCRIPTS

Pixel Monster

Script for controlling the appearance and animation of the monster.

Properties in the **Runtime** foldout should only be modified in the runtime except Facing.

Some properties in the **Runtime** foldout will be modified by **Monster Controller** script.

Renderers	Reference to all the renderers inside the monster prefab.
Animator	Reference to the animator object inside the monster prefab.
Fx	Reference to the object that contain special effects inside the monster prefab. Can be left empty.
Die Fx Prefab	The special effects object to instantiate when the monster dies. Can be left empty.
Alpha	Controls the transparency of the entire monster.
Facing	The monster's facing. Can be changed in editor to set the character's initial facing.
Is Hiding	Is the monster hiding. Only works for Mimic.
Is Grounded	Is the monster on ground.
Is Dead	Is the monster dead? Turn this on will only let the monster play the die animation. If you also want to stop the monster's movement. Turn on the [Is Dead] property of the controller script.
Moving Blend	Moving animation blend. 0.0: Idle 0.5: Walk 1.0: Run
Attack	Play attack animation.
Injured Front	Play [Injured Front] animation.
Injured Back	Play [Injured Back] animation.

Monster Controller

Script for controlling the monster's movement.

It will modify some of the parameters in the [Pixel Character] script to control animation.

Default Movement	Default movement type, walk or run.
Walks Speed Max	Max walking speed.
Walks Acc	Walking Acceleration.
Run Speed Max	Max running speed.
Run Acc	Running Acceleration.

Air Speed Max	Max move speed while in air.
Air Acc	Air acceleration.
Ground Brake Acc	Braking acceleration while on ground. Applied when there is no movement input.
Air Brake Acc	Braking acceleration while in air. Applied when there is no movement input.
Jump Speed	Speed applied to the character when jump.
Jump Cooldown	Time needed to be able to jump again after landing.
Jump Delay	Time it takes from the moment the jump input is fired to the moment the monster actually jumps. During this time, the jump prepare animation will be played to achieve a more realistic jump behavior, and you will need to press the key for a little while until the monster actually jump. If you do not need this, you can set it to 0.
Jump Gravity Multiplier	Gravity multiplier when the monster is jumping. Set it to lower value so that the longer you press the jump button, the higher the monster can jump.
Fall Gravity Multiplier	Gravity multiplier when monster is falling.
Moving Blend Transition Speed	The transition speed when modifying the [Moving Blend] property in [Pixel Monster] script.
Ground Check Size	Size of the box on character's bottom to determine whether the character is on ground.
Can Attack in Air	Can the monster perform attack action while in air.
Can Attack When Moving	Can the monster perform attack action while moving. When turned off, it also forbids the monster to move while in attack animation.
Input Move	Movement input, x for horizontal, y for vertical, x and y should be in [-1.0, 1.0].
Input Move Modifier	Input to switch between walk and run.
Input Jump	Jump input.
Input Attack	Attack input.
Is Dead	Is the monster dead? When turned on, it will also turn on the [Is Dead] property on [Pixel Monster] script and stop the monster's movement.

Monster Flying Controller

Same as [Monster Controller] script, but for monsters that can fly.

Speed Max	Max moving speed.
Acc	Moving Acceleration.
Brake Acc	Braking acceleration Applied when there is no movement input.
Ground Check Size	Size of the box on character's bottom to determine whether the character is on ground.
Moving Blend Transition Speed	The transition speed when modifying the [Moving Blend] property in [Pixel Monster] script.
Dead Gravity Scale	Gravity scale when the character is dead. Flying monsters will have their gravity scale set to 0 when there are alive. So, this parameter actually controls whether the flying monster should fall to the ground when it is dead.
Input Move	Movement input, x for horizontal, y for vertical, x and y should be in [-1.0, 1.0].
Input Attack	Attack input.
Is Dead	Is the monster dead? When turned on, it will also turn on the [Is Dead] property on [Pixel Monster] script and stop the monster's movement.

Monster Input Mouse and Keyboard

Script for feeding player inputs to **Monster Controller** script using mouse and keyboard.

LIGHTING SUPPORT

Import files from Patch - URP 2D Lit located at the root folder of the asset.

It will replace current monster shaders and some materials with URP 2D Lighting supported version.

Make sure your 2D lighting is properly set up so the character can be displayed correctly.

Universal Render Pipeline 3D Lighting

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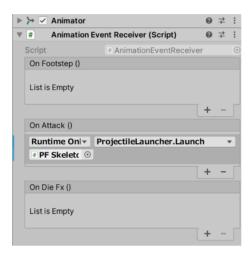
OTHER

Animation Event and Event Receiver

There are animation events already set up as On Footstep and On Attack at the monster's animation files.

At the **Animator** object inside a monster prefab, there is a **Animation Event Receiver** script attached to it, which will receive these events and can be used to trigger some functions when the event is fired.

For example, in the **PF Skeleton – Archer** prefab, the **On Attack** event is used to trigger the **Launch** function of the **Projectile Launcher** script, so the archer skeleton can actually shoot an arrow.

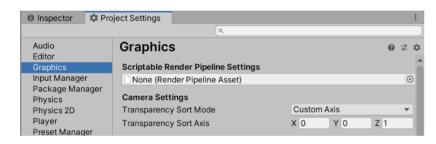


About Monster Prefabs

For every kind of monster, there is only one original prefab, and the skin variations are set up as prefab variant of that original prefab.

Custom Sort Axis

It is recommended that you set Transparency Sort Mode to Custom Axis and Transparency Sort Axis to (0,0,1) at the graphics settings.



Sorting Order Glitch with Multiple Monster

You may see some glitch when two monsters are too close. It happens when the two monsters take up the same z space. Give them different z position value will solve the problem.

You can set the monster's z scale to a smaller value like 0.1 (but avoid setting it to 0), so that it takes up less z space.



When the two monster are too close and their position.z values are all at 0.0
You can see their sprites got mixed together



Give them different position.z values
Displayed in 3D view



Now they are properly displayed

Skin Weights

For best animation quality, in **Project Settings/Quality**, **Skin Weights** should be set to at least **2 Bones**.

