

How to Spawn Player

We recommend you to use "SpawnPlayer" Script to spawn Player First create Empty GameObject(Or any GameObject) and attach use "SpawnPlayer" Script from Script folder to it and assign Your Player's prefab to the Player Variable.

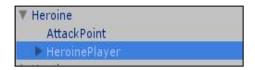
When you start the game Your Player will spawn at the Spawn Point. It can work well althought your player come from the other scene.



How to Create Player

Easy Tip:

The fastest way to create player. You can use the example character(Heroine) from Prefab folder then replace "HerionePlayer" Model in the prefab with your character Model



After that Assign your character model to the "Main Model" Variable in Attack Trigger script



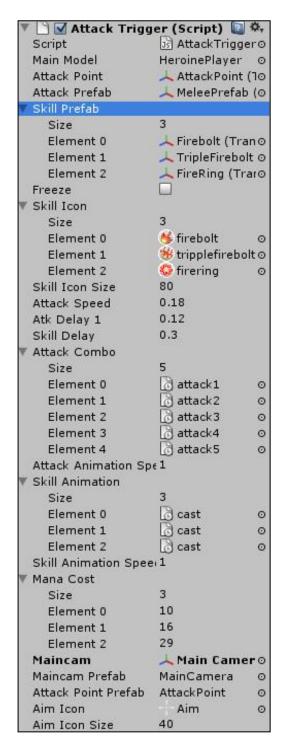
Now your character will ready to use.

However if you really want to create the new one you can follow this step.

First import your character and set tag to "Player" as picture below.



After that, Attach the Attack Trigger, drag the script in to character. This script will add all components that is needed to setup the player. The variable's configurations are following.



Main Model - Character's Main Model Attack Point - The bullet's start point

Attack Prefab - Store the bullet's variable from "normal attack" in this example, we use MeleePrefab (It locate in Prefab/Skill) which the in fight attack

Skill Prefab - Store the bullet's variable from "skill"

Freeze - If you mark on this, the character will freeze

Skill Icon - The skill icon's graphic

Skill Icon Size - The skill icon's graphic the show in the screen

Attack Speed - The normal attack's speed Attack Delay - The normal attack's delay

Skill Delay - The skill's delay

Attack Animation - The normal attack animation name. Max

Combo depend on Size of Attack Animation

Skill Animation - The skill animation's name
Mana Cost - The MP's require for skill

Maincam - Use as camera's reference. If you weren't set

this, the system will find it from Tag

MainCamera.

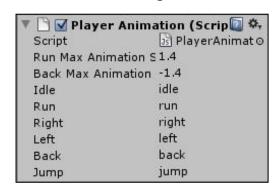
Aim Icon - Target Icon

Aim Icon Size - Target Icon's size

While Attack - MeleeFwd = Move forward a little when attack

Immobile = Can't move while attackingWalkFree = Can walk freely while attacking

Now, you can move your character as you like. Next, we will set the character animation in the "PlayerAnimation" script to your character (Your model must split animation first before start this step)



The details are following

Run Max Animation – The animation's speed when character run

Back Max Animation – The animation's speed when character backward

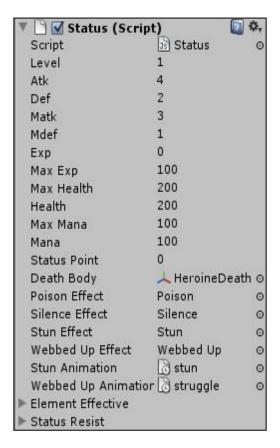
Idle - The animation's name when character is within Idle pose

Run
 The animation's name when character run forward
 The animation's name when character run right side
 The animation's name when character run left side
 Back
 The animation's name when character run backward

Jump - The animation's name when character jump

Now, test the project to see your character various pose while it moves. Next is the heart of our tutorial "The Status system"

First, drag "status's script" to the character. This script will store all of player's basic data such as Level, HP, MP, EXP, Attack and Defend

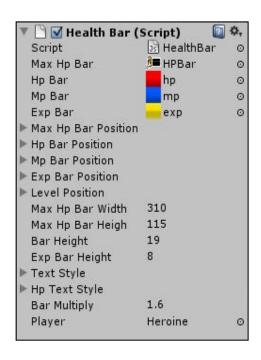


These variable's names are self explanation. However, the Death body's variable is different. When the character is dead, the system will spawn this prefab. So, you have to create the prefab that shows your character's death pose and put in the death body variable. Now, the script can work perfectly.

- Poison Effect , Silence Effect and Stun Effect is the prefab Use when character suffer by those status ailment.
- Elemental Effective use to make elemental defence more value more damage you take from that element
 - Status Resist is the resistance of status ailment.

Next, drag "Status Window's script" into your character. This script can show the character's status by press the C button. In addition, you can upgrade your character's status when your character is level up. This script have a variables name "Text style" and "Text Style 2". Its use for set the font.

The next important one is HP. Drag it to your character. The configurations are following.



Max HP Bar - The Max HP gauge bar graphic

HP Bar - The HP bar graphic
MP Bar - The MP bar graphic
EXP Bar - The EXP bar graphic

Max HP Bar Position - The Max HP gauge bar's position

HP Bar Position - The HP bar's position
MP Bar Position - The MP bar's position
EXP Bar Position - The EXP bar's position
Level Position - The Level's position
Max HP BarWidth - The HP bar's width
Max HP BarHeight - The HP bar's height

Bar Height - The HP and MP bar's height

EXP Bar Height - The EXP bar's height

Text Style - The level number's text style HP Text Style - The HP and MP's text style

Bar Multiply - The HP bar's width when the character's

hp is 100% by multiple with 100. For example, if the gauge width is 160 pixel. You have to multiple by 1.6. if the gauge width is 300 pixel. You have to

multiple by 3.

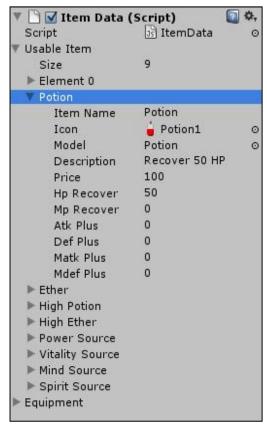
Player - Incase that you didn't set this, the system will

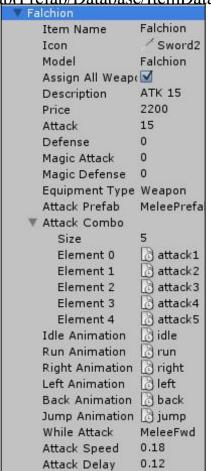
automatically find the object from "Player" Tag

Items and Inventory

You can use "ItemDatabase" prefab(Prefab/Database/ItemDatabase)

As a Database





You can add new item data by edit Size in "Usable Item" and "Equipment"

The Element number is an ID of your item. It very important to use with the Shop and Inventory

Equipment

Assign All Weapons – If your character carry more than 1 weapon

(ex. Dual sword). When you swap weapon

It will swap all weapon mesh.

Attack Combo - Change Player Attack Animation when equip

this weapon

Idle , Run , Right , Left , Jump Animation - Change Player movement animation when equip this weapon

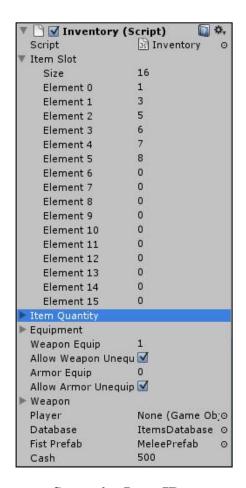
While Attack - MeleeFwd = Move forward a little when attack

- Immobile = Can't move while attacking

- WalkFree = Can walk freely while attacking

Inventory

The Inventory script will attach to the player character. This script Contain variable of Item ID. The reference of the item ID is from ItemDatabase



Item Slot - Store the Item ID

Item Quantity - Store quantity of the items Equipment - Store the Equipment ID

Weapon Equip - ID of your equipped weapon

Allow Weapon Unequip - If uncheck this You cannot unequip your

weapon

Armor Equip - ID of your equipped armor

Allow Armor Unequip - If uncheck this You cannot unequip your

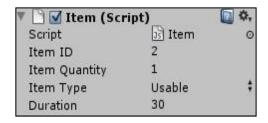
Armor

Database - Reference of ItemData

(Prefab/Database/ItemDatabase) is the default

Pickup Items

You can add the item to your Inventory by create new game Object And then attach "Item" Script mark on the "Is Trigger" in Collider



Item ID - ID of item

Item Quantity - Quantity of the item

Item Type - Type of the item(Usable and Equipment)

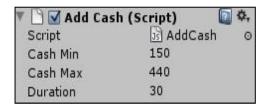
Duration - Duration of this object to stay in the world

If = 0 the object will not destroy until player

Pick it up

Add Cash

You can add the cash to your Inventory by create new game Object And then attach "Add Cash" Script mark on the "Is Trigger" in Collider (same as Item)



Cash Min - Minimum of cash to add
Cash Max - Maximum of cash to add

Duration - Duration of this object to stay in the world

If = 0 the object will not destroy until player

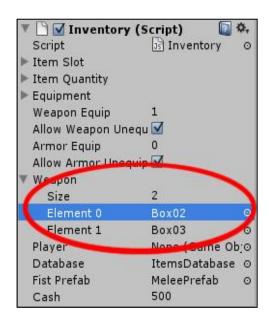
Pick it up

This Script will calculate random range of "Cash Min" and "Cash Max" To add

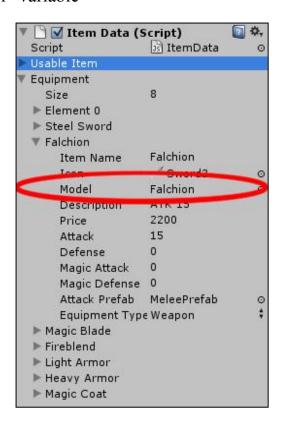
How to Swap Weapon's Model with this kit



First Assign the main weapon's model in the characters to Weapon Variable in Inventory Script (If your character have more than 1 weapon (Ex. Twin Swords) you should assign all of them too)



Then in the "ItemDatabase" of the weapon Assign weapon model To the "Model" variable

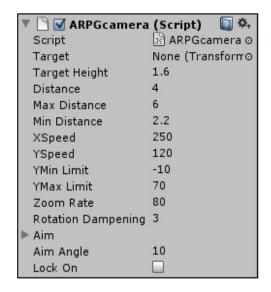


When you equip the weapon. If you do both step collectly. The system will swap Weapon Model.



Main Camera

Every time when create new scene. The system will create the Main Camera. If you want to make a new camera, make it by select GameObject/Create Other/Camera and set Tag to MainCamera. After that, drag ARPGcamera's script into the camera.



Target - The camera's target. If it don't have any target,

the system will find it from Tag Player.

Target Height - The camera's height from the target

Distance - The camera's length

Max Distance - The farthest camera's length
Min Distance - The shortage camera's length
Xspeed - The camera's speed in X axis
Yspeed - The camera's speed in X axis
Ymin Limit - The lowest camera's angle
Ymax Limit - The highest camera's angle

Zoom Rate - The Zoom's speed

Rotation Dampening - The camera's delay

Aim Angle - Set the aim to the target by reference from

AttackTrigger

Lock On - If you mark on this, the character will always

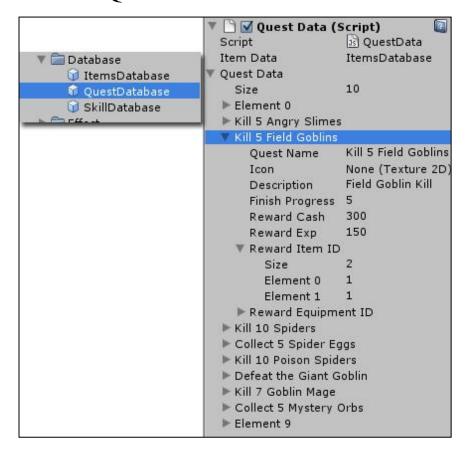
head toward the camera

In addition, you can use LockMouse script into anyplace on the stage to hide the mouse cursor. The list of camera's components are following.

- ARPGcamera
- LockMouse

How to Create Quests

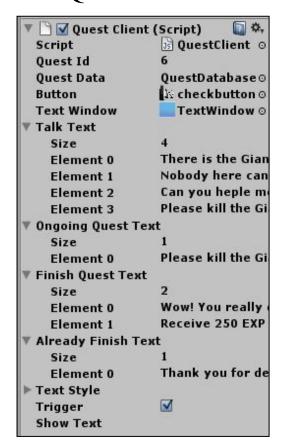
Quest Data



You can add new quest in Database folder (Prefab/Database /QuestDatabase)

-Finish Progress ex. If your quest is kill 5 Goblins you should set Finish Progress to 5

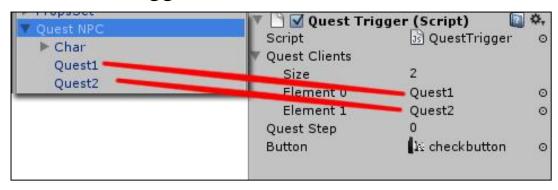
Quest Client



Quest Client script is for Quest NPC

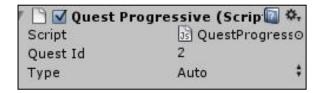
- Quest ID = ID of quest (match to the QuestData)
- Quest Data = Database of the quest

Quest Trigger



Quest Trigger Script is for NPC who have more than 1 quest. For example it will start with quest in Element0. When you finish the quest it will activate new quest until all of quest you Assign to the "QuestClients" variable.

Quest will be the GameObject and must contain the "Quest Client" script



Quest Progressive

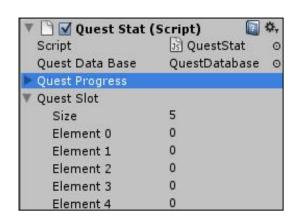
This script use for increase the progress of your quest status. For example you can assign it to the Monster's Death Prefab or Item

Quest ID - ID of the quest you want to increase.

Type - Auto = Automatic increase your quest stat

- Trigger = You must collide the object to increase quest stat

Quest Stat

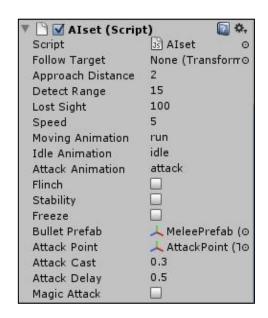


Attach to the player for save variable of The quests.

How to Create Monster

After we import the monster's model and split the animation. Set the tag to Enemy and drag script CharacterController and Status as same as Player. In addition, The CharacterMotor will help you for calculate the gravity's motion suitable for the monster that walk on the ground.

The main point that make the monster attack the player is Aiset script. Drag this script into the monster to use it.



The enemy's target. If it doesn't have, the Follow Target enemy will aim the Player Tag. The closest distance between enemy and target Approach Distance -Detect Range The enemy's detect range Lost Sight The length that enemy will stop to follow the target Enemy's speed movement Speed Moving Animation -The Enemy walking animation's name Idle Animation The Enemy idle pose animation's name Attack Animation The Enemy attack animation's name If you mark on this, The enemy will not flinch Stability by the attack from character If you mark on this, the enemy will freeze Freeze Bullet Prefab Store the enemy bullet's variable Attack Point The enemy bullet's starting point Attack Cast The time before enemy attack Attack Delay The delay after enemy attack

Magic Attack - If you mark on this, the enemy will attack by magic instead of physical attack. (The magic damage depend on matk)

From now on, we can create monster. The main components that use for monster are below.

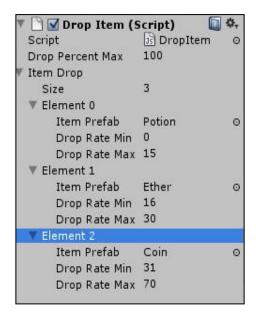
- CharacterController
- CharacterMotor (Optional)
- Status
- Aiset

When enemy dead. Status Script will spawn it's Death Body Prefab
In the Death Body Prefab you should attach the "GainEXP" Script to it.
The Player will gain EXP when monster's death prefab is spawn

Enemy Drop Items

When enemy dead. Status Script will spawn it's Death Body Prefab In the Death Body Prefab you should attach the "GainEXP" Script to it. The Player will gain EXP when monster's death prefab is spawn

Attach the "DropItem" Script to the monster's death prefab when monster's death prefab is spawn. It will be random Drop the item from the script



Enemy Respawn



Attach to the enemy's death prefab like "DropItem" script

Enemy - Prefab of the Enemy to respawn

Point Name - Name of all respawn point the monster will random

Respawn at the position of object with the same name

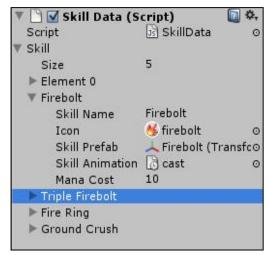
As this variable

Delay - Delay after enemy death until it respawn

Random Point - Random variance of the respawn position a little

How to Create Skill(Database)

You can use "SkillDatabase"prefab(Prefab/Database/SkillDatabase) As a Database

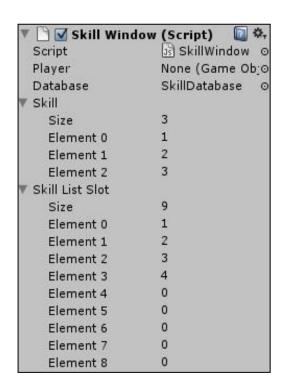


You can add new skill data by edit Size in "Skill" variable

The Element number is an ID of your skill. It very important to use with the Skill Window

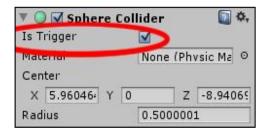
Skill Window

The Skill Window script will attach to the player character. This script Contain variable of Skill ID. The reference of the skill ID is from SkillDatabase

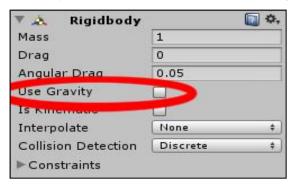


How to Create Skill(Bullet)

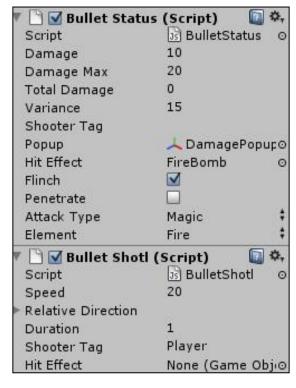
Now we can make both player and monster. Let's create the attack skill for them. In this example we will make a bullet. After you make a bullet model for use in this skill, mark on the Is Trigger



After that, mark on Rigidbody at Component/Physics/Rigidbody and mark Use Gravity off for doesn't calculate the gravity.



Then, drag the Bullet Shotl script and BulletStatus script into the bullet. In BulletStatus, you can set the impact and damage of the bullet



Damage - The bullet's lowest Damage
Damage Max - The bullet's highest Damage

Variance - The damage variance

Popup - Store Prefab for show the damage on screen. In this

example, we use DamagePopup from Prefab folder

Hit Effect - The Bullet hit effect

Flinch - If you mark on this, when the target will flinch after

impact with bullet

Penetrate - Bullet will not destroyed when hit the enemy

Attack Type - Physic = Physic Attack

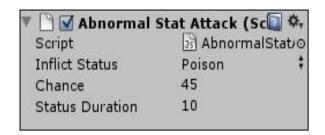
Magic = Magic Attack

Element - Element of this bullet

In the BulletShotl script, there are only 2 main variable. The speed and duration for setting the bullet speed and the bullet's remain time. When the bullet were shoot from Tag Player. The target will become Tag Enemy. In contrast, if the bullet were shoot from the enemy. The player will become the target. When the bullet hit the object with "Wall" tag, the bullet will disappear. The components that use for skill are below.

- BulletStatus
- BulletShotl
- Collider / Is Trigger
- Rigid Body / uncheck Use Gravity

Abnormal Status



Attach to the Skill Prefab or Attack Prefab.

Inflict Status - What kind of Status to inflict to target

Chance - Chance of success rate

Status Duration - Duration of abnormal status



Advance Status

In status script, you can modify various functions such "How much the skill point and max HP will increase when the character level up". Looking in the example below.

function LevelUp

```
statusPoint += 5;
```

You can set 5 to other number as you want, when your character is level up, it will get the skill point same as the setting variable.

```
maxExp = 1.25 * maxExp;
```

When Level up, character max EXP will extend by 25%

```
maxHealth += 20;
maxMana += 10;
```

Same as above, you can set them as you want.

function OnDamage and OnMagicDamage

When the damage occur, this function will be called. You can adjust the status calculate formula as much as you want