THIRD PERSON SYSTEM

User's guide

Content

1.	INTRODUCTION	4
2.	QUICK START	4
3.	WORKING WITH CAMERAS	6
4.	ABILITY SYSTEM	6
5.	CREATING NEW ABILITIES	7
6.	EVENTS AND OBJECT POOLING	9
7.	SUPPORT	9
8.	InControl INTEGRATION	10

1. INTRODUCTION

This document will guide you through the essentials of Third Person System. Third Person System is a package to help you create Third Person games, with fluid and smooth gameplay. It was developed to be easy to setup and work with.

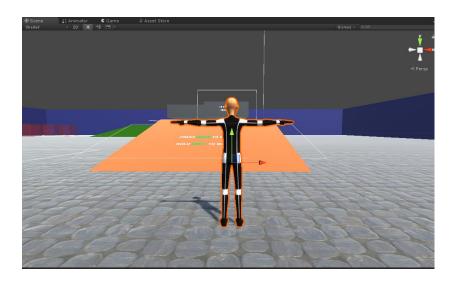
2. QUICK START

Third Person system was designed to be fast to setup a new scene. Remember that your character model must be setup as Humanoid.

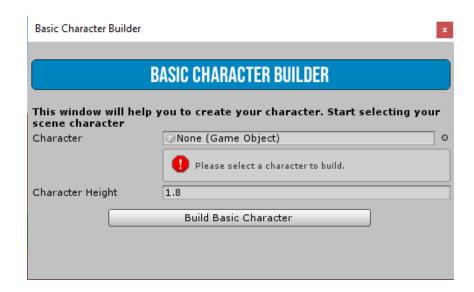
Watch this video showing how to quick setup your scene: https://youtu.be/KfqHBxIkx88

Follow the steps:

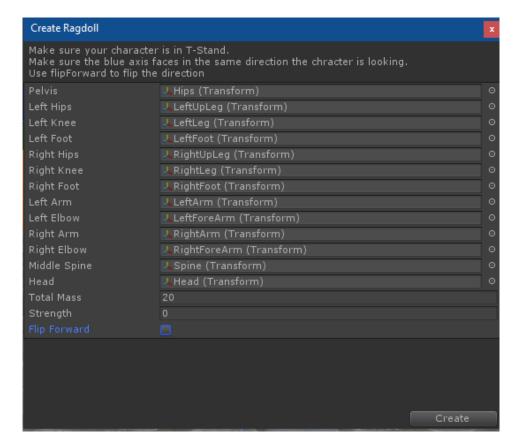
1. Drag your character model to your scene.



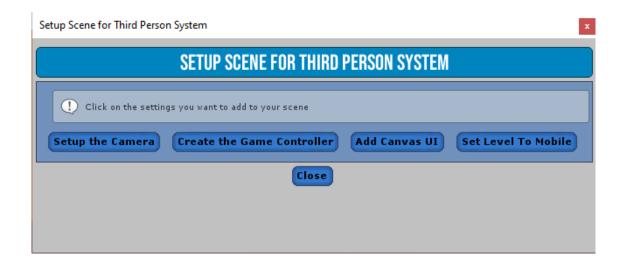
- 2. Go to: Dias Games -> Third Person System -> Build Basic Character
- 3. Drag your character to the field and press Build Basic Character.
- 4. Set your character height to auto fill Capsule Collider parameters.



5. A Ragdoll window will open. Change settings that you want and press Create. (Create button will be enabled only after change something. You can check and uncheck Flip forward to enable the button)



- 6. Now you need to setup your scene. Be sure that there is at least one Camera attached to your scene tagged as MainCamera.
- 7. Go to: Dias Games -> Third Person System -> Setup Scene for Third Person System



8. Click on buttons you want to setup in your scene. Only click Set Level to Mobile if you want to convert gampelay for mobile touchs. (Only click on Setup the Camera if you already imported Cinemachine to your project)

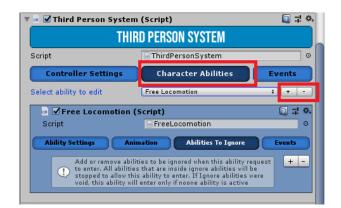
3. WORKING WITH CAMERAS

Third Person System works with Cinemachine. You need to import this package to your project to be able to control cameras. Import it via Package Manager.

4. ABILITY SYSTEM

Third Person System allows you to create new abilities easily. To understand how the system works, you can watch this quick video tutorial: https://www.youtube.com/watch?v=25rsKlb4sKg

Any ability has common parameters to be used. These parameters are divided in sections: **Ability settings** (for specific parameters for that ability), **Animation**, **Abilities to ignore** and **Events**. You can edit and add abilities in the Third Person system script, int the Character Abilities tab:



All common parameters are listed below:

Ability Physic Material: this parameter overrides Capsule Collider material when the ability is running. You can find situations that you want your character use different friction properties.

Enter State: the name of the animator state that must be used when this ability enters the system.

Transition Duration: time that system uses to make transition between the current animation and the desired animation. Higher values results in smoother transitions.

Finish On Animation End: when this parameter is checked, this ability will exits the system when the animation finishes.

Use Root Motion: tells the system if that ability should move with animation root motion. If you checked this parameter, some options will be enabled:

Use Vertical Root Motion: check this box if you want to update Y position with animation root motion (not recommended for the most of abilities).

Use Rotation Root Motion: check this box to allow system update character rotation with animation root motion.

Root motion multiplier: used to multiply the built in root motion from animation.

Allow Camera Zoom: check this box to allow player zoom camera when this ability is running.

Abilities to ignore: use this section to add abilities that must be ignored to allow this ability to run. To understand how it works, watch this video: https://www.youtube.com/watch?v=25rsKIb4sKg

Events: any ability has two events, when ability enters the system and when ability exits. Here you can set events like: play a sound, play a particle effect, send event and anything you want.

5. CREATING NEW ABILITIES

This video explains how to create new abilities using the system: https://www.youtube.com/watch?v=E_0Xe4JFECQ

All ability must be inherited from DiasGames. ThirdPersonSystem. ThirdPersonAbility.

All new abilities must start with this:

TryEnterAbility()

This method must return true if you want that ability enters. Everytime this method returns true, a request is sent to main controller to check if this ability can enter.

All ability has a list called IgnoreAbilities. If you want this ability to stop some ability running, as Jump, Fall, or Roll for example, you have to add these abilities to the list.

After send a request to enter, controller will check what ability is running, if this

ability is in the IgnoreAbilities list of the new ability, controller will stop the ability

running and starts this new ability. If the ability running is not in the list, controller will

ignore the new ability request. Keep it in mind when you create a new ability.

TryExitAbility()

Works with the same concept of TryEnterAbility. Return true if you want stop

this ability. It will not check any ability running or requesting to enter. It will simply

stop the current ability. If you check Finish On Animation End, ability will be stopped at

the end of the animation.

All abilities has two UnityEvent: OnEnterAbilityEvent and OnExitAbilityEvent.

These two events can be useful when you want to execute simple functions. You can

just add this function in the Inspector of the ability. They are called once.

EVENTS AND OBJECT POOLING 6.

To learn how to use Events and Object Pooling in Third Person System, watch the

videos below:

Object Pooling: https://youtu.be/5N91zdP4ras

Global Events: https://www.youtube.com/watch?v=W loTWWVWlc&t

7. SUPPORT

To receive some support or ask for help, send an e-mail to:

rodrigoaadias@hotmail.com

8. InControl INTEGRATION

Send your **invoice number** to support e-mail to get InControl integration script: rodrigoaadias@hotmail.com