Airplane race Creator

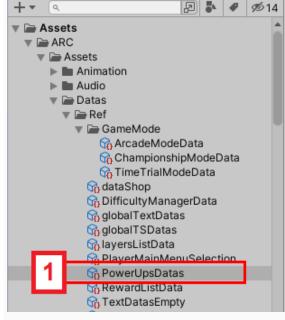
Link

How to: Create a custom Power-up

This section describes the process to create a custom Power-up.

In the Project Tab select PowerUpsDatas (spot 1)

 $(Project\ tab: Assets \rightarrow Datas \rightarrow Ref \rightarrow PowerUpsDatas)$



Project

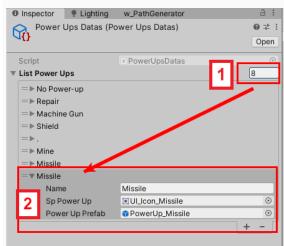
In the Inspector increase by 1 the size of the list (spot 1).

For example if the list size = 7 choose size = 8.

The last slot of the list is duplicated (spot 2).

In that case Missile slot is duplicated.

We are going to setup the new slot but before we need to create a new Icon for our new power-up.



In Project tab duplicate PowerUp_Shield (Crtl+D) (spot 1)

(Project tab: Assets \rightarrow Prefabs \rightarrow TS \rightarrow PowerUps \rightarrow Basics \rightarrow PowerUp_Shield)

▼ ARC ▶ **■** Animation ▶ **■** Audio ▶ ■ Datas ▶ Light Settings Materials ▶ ■ Models ▶ 🖿 Post Fx ▶ **■** PostProcessPofile Prefabs ▼ AS ► Env ▶ Im UI ▶ ■ Vehicles ▶ ■ Other ▼ 🗁 TS ▶ Im Countdown ▶ **Layer** ▶ 🖿 Limit ▶ LimitZone ▶ LoadingScreen ▶ ■ Minimap ▶ ■ Monetization ▶ ■ Particles Path ▼ PowerUps ▼ 🗁 Basic Mine 🎁 Missile 🍞 PowerUp_Booster_Ring PowerUp_MachineGun PowerUp_Mine PowerUp_Missile PowerUp_Repair PowerUp_Shield Grp_Power_Up Trigger_AlBooster Track Assets/ARC/Assets/Prefabs/TS/Path/PowerUp_zExamp

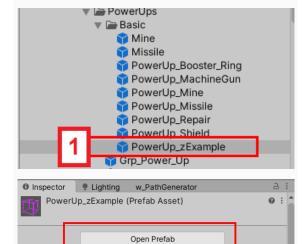
Project

This new prefab will be used as the power-up displayed in the scene

For this example select and rename the new prefab PowerUp_zExample (spot 1)

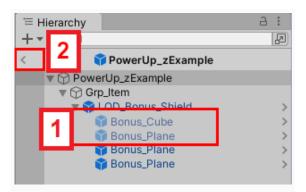
(Project tab: Assets \rightarrow Prefabs \rightarrow TS \rightarrow PowerUps \rightarrow Basics \rightarrow PowerUp_zExample)

In the Inspector press Open Prefab button.



In the Hierarchy disabled the two objects spot 1.

Then close the prefab by pressing the arrow (spot 2)



In Project tab duplicate UI_Icon_Missile (CrtI+D) (spot 1)

(Project tab: Assets → Textures → Sprites → inGame → Interface → UI_Icon_Missile)



This new sprite will be used as the power-up sprite displayed in the UI.

For this example select and rename the new prefab PowerUp zExample (spot 1)

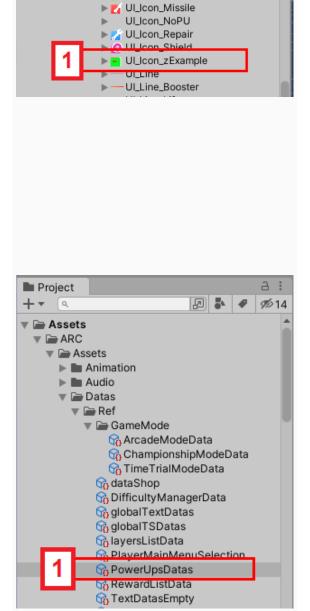
(Project tab: Assets \rightarrow Prefabs \rightarrow TS \rightarrow PowerUps \rightarrow PowerUp_zExample)

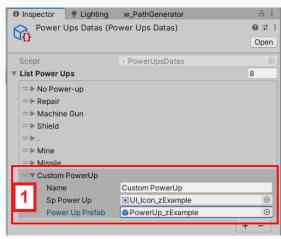
Note: If you want you can modify the sprite in your drawing software.

In the Project Tab select PowerUpsDatas (spot 1) (Project tab: Assets → Datas → Ref → PowerUpsDatas)

In the Inspector:

- -Rename the new slot. For this example rename it Custom PowerUp
- -In slot Sp Power Up drag and drop the sprite nammed Ul_lcon_zExample we have created previously.
- -In slot Power Up Prefab drag and drop the prefab PowerUp zExample we have created previously.





In Project tab select PowerUp_zExample prefab (spot 1)

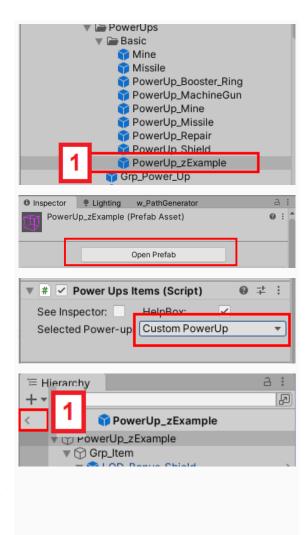
(Project tab: Assets → Prefabs → TS → PowerUps → Basics → PowerUp_zExample)

In the Inspector press Open Prefab button.

In the Inspector go to script Power Up Items and select the new power-up. In our example select Custom PowerUp

Close the prefab by pressing the arrow (spot 1)

The new power-up is setup. Now we are going to setup the vehicle to be able to use the new Power-Up.



In Project Tab duplicate the script NewPUExample

(Project Tab: Assets \rightarrow Scripts \rightarrow TS \rightarrow PowerUps \rightarrow NewPUExample)

Rename it CustomPU

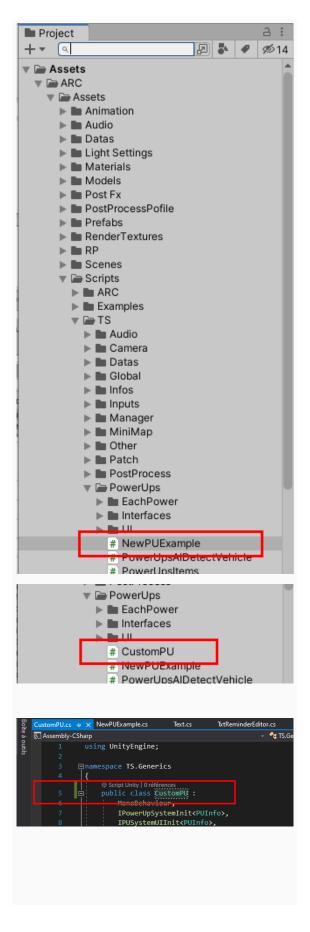
Open the script in your script editor

Change line 5 to:

public class CustomPU :

Save the script (Ctrl+S) Go back to Unity.

Scripts are recompiled.



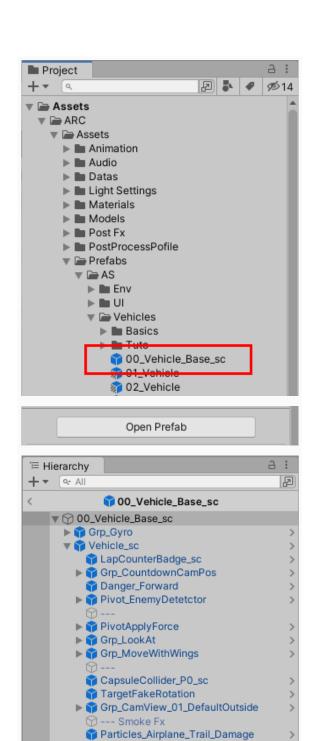
In the Project Tab select 00_Vehicle_Base_sc

(Project tab: Assets → Prefabs → Vehicles → 00_Vehicle_Base_sc)

In the Inspector press Open Prefab.

In the Hierarchy create inside Vehicle_sc a new empty object.

For this Example rename it NewPU.



 Select NewPU in the Hierarchy.

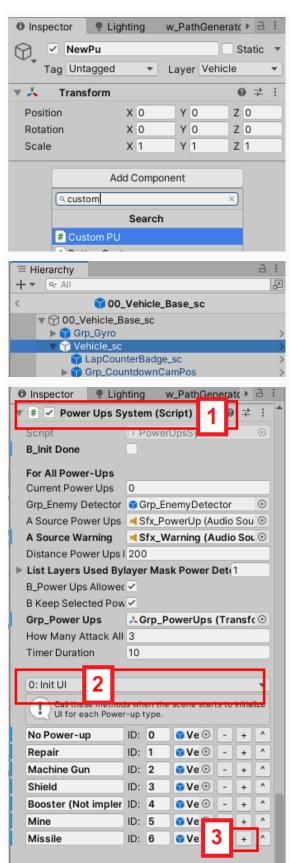
Then in the Inspector add the component Custom PU.

In the Hierarchy select Vehicle_sc (00_Vehicle_Base_sc → Vehicle_sc)

In the Inspector go to Power Ups System script section (spot 1)

In the drop down menu select 0: Init U (spot 2).

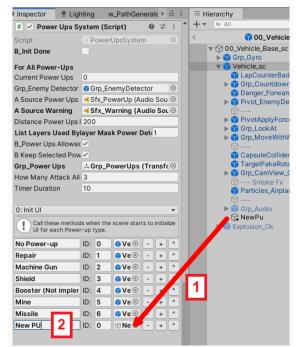
Press + button at the end of the list to create a new slot (spot 3)



A new slot is created.

Drag and drop NewPU object from the Hierarchy to the empty slot (spot 1)

Choose a name for the slot (spot 2). For the example choose New PU.



Repeat the process for each dropdown menu section:

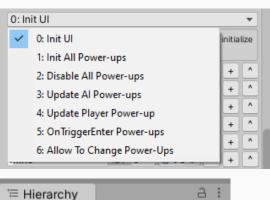
- 1: Init All Power-ups
- 2: Disable All Power-ups
- 3: Update Al Power-ups
- 4: Update Player Power-up
- 5: OnTrigger Power-ups
- 6: Allow To Change Power-ups

Close the prefab by pressing the arrow.

Now you are able to drag and drop in your scene the power-up prefab PowerUp_zExample (spot 1) (Project tab: Assets \rightarrow Prefabs \rightarrow TS \rightarrow PowerUps \rightarrow PowerUp_zExample)

It is also possible to create a new group of power_up using this new power-up.

If you start the scene, vehicle are able to grab and use the power-up.



Q+ All

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Scripting the Power-up behavior

Now you have to code your needed methods for your new Power-up.

Each Power-up is different. So you have to code it by yourself.

To help you, it is possible to have look to the methods created for the other Power-ups.

You will find examples for each methods in script

PowerUPSystemAssistant.cs.

(Project tab: Assets -> Scripts -> TS -> PowerUps -> PowerUPSystemAssistant.cs)

For example if you want an example for InitPowerUpUI go to script PowerUPSystemAssistant.cs and search the method using the same name.

You will find all the default Power-up cases.