

NavalArt Modding Tutorial

(For version 0.971 and above,By Zig)

=====ChangeLog=====

-----28th November 2023

Added [video tutorial link](#) and [flag tutorial](#)

-----1th September,2023

[Added Localization support](#)

-----6th August,2022

[Added Weapon sound effect replacement support](#)

Added CIWS support for anti-air guns(New toggle in the anti-air gun script)

Added Outline,summary and links for the tutorial doc

[Added Missile modding support](#)

[Added In-game inventory weapon type sorting support for mods](#)

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-----19th December,2021

[Added Color Mask Support Script](#)

[Added Telescope Modding Support](#)

[Added Uploading mods to Steam Workshop support](#)

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For newest modding manual , please check our discord : (<https://discord.gg/TbFPPsH>) or the link below:

(https://docs.google.com/document/d/1OOrE84_RiVGDMkColl-2rf8Zv6YnENAX-bp2_idyDgc/edit?usp=sharing)

Tools needed:

A 64bit PC with Windows

Unity3D 2019.4.15f1 (Generally 2019.x would be fine)

NavalArt ModTool

Optional:

Blender 2.8 (*If you want to open example mods, then you need to install Blender for importing models.*)

Preperations

To begin with, I want to thank you for buying NavalArt, this game won't come to today without a nice, supportive community. For version 0.7, mod tool supports parts modding, including hulls, engines, propellers, turrets, torpedo launchers, decorations, and radar, the tool itself is still under development and more features will be implemented in the future.

To get started with modding, you will need a decent pc that could run Unity3d, which is the game engine of NavalArt, and it's free for non-profit uses. You may want to download Unity first on their website: <https://store.unity.com/download> , since we are only using Unity for modding, just click the Accept term button simply.

If you prefer video tutorials, check the youtube channel below, not all of the below content in the doc has been included in the video tutorial series.

(<https://www.youtube.com/channel/UCd17L0ML6l6VAu1hpg8FC4g>)

Installation

The version we need to use is 2019.4.15f1 (The previous one we used for modding is 2019.3.1f1, but it has some bugs so I updated the engine), generally you need to download and install Unity Hub first, which is the new platform of Unity. After installation, you need to download the right version in the installation page of Unity Hub, make sure the version is

2019.4.15f1, versions near that should be fine in theory , but I suggest you download that certain version, or the mod you built might be incompatible with the game.
(Added above comment at the end of 2023 ,since you may find it hard to download unity version 2019, you could try a different version, take the tiny risk yourself.)

However, since Unity updates their engine frequently, you might can't find the correct version in Unity Hub, so please click the link inside the red rectangle, download and install the right version on their website. The link is below, on the other hand you could install the engine

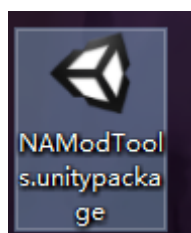


without installing Unity Hub through this link, however you will not be able to access Unity's asset store.

After installation, simply create a new project, choose 3D in modules, and open the project. When Unity is full opened, you need to find the NavalArt mod tool, which is under the game's folder, you could open it manually or through Steam.

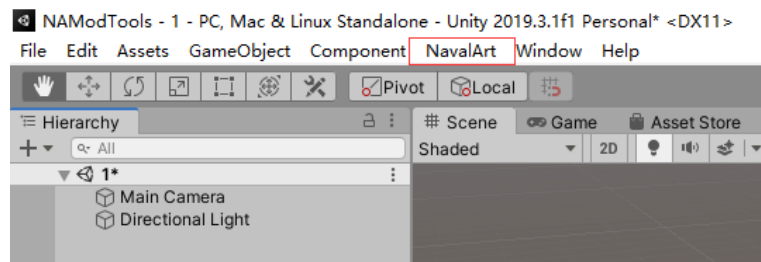
名称	修改日期	类型	大小
ModTool	2020/2/26 18:26	文件夹	
Mono	2019/11/19 15:53	文件夹	
MonoBleedingEdge	2019/12/1 23:02	文件夹	
NavalArt_Data	2020/2/24 17:42	文件夹	
NavalArt.exe	2020/2/19 23:00	应用程序	636 KB
UnityCrashHandler64.exe	2020/2/8 23:14	应用程序	1,069 KB
UnityPlayer.dll	2020/2/8 23:14	应用程序扩展	25,144 KB

Double click on the mod tools , and then import it into Unity.



How To Use the Mod Tool

When import is done, you should see a new tab which is called **NavalArt** on the top-right of the Editor

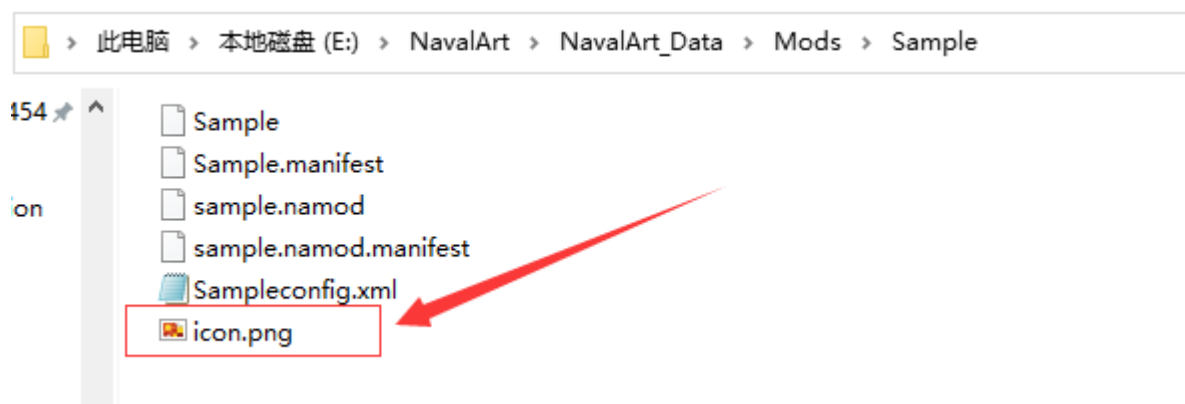


Click On it and click on the tab “Mod Builder”, then you will open the **NA Mod Window**, you can adjust its size, or append the window to the layout for better looking.



Mod Name is the name will show in the game, assign your name in the **Mod Author**, fill in **version** code and **description** freely.

The icon part below has been **outdated**, to create icon for your mod, just place a png file in the mod folder after you saved the mod.

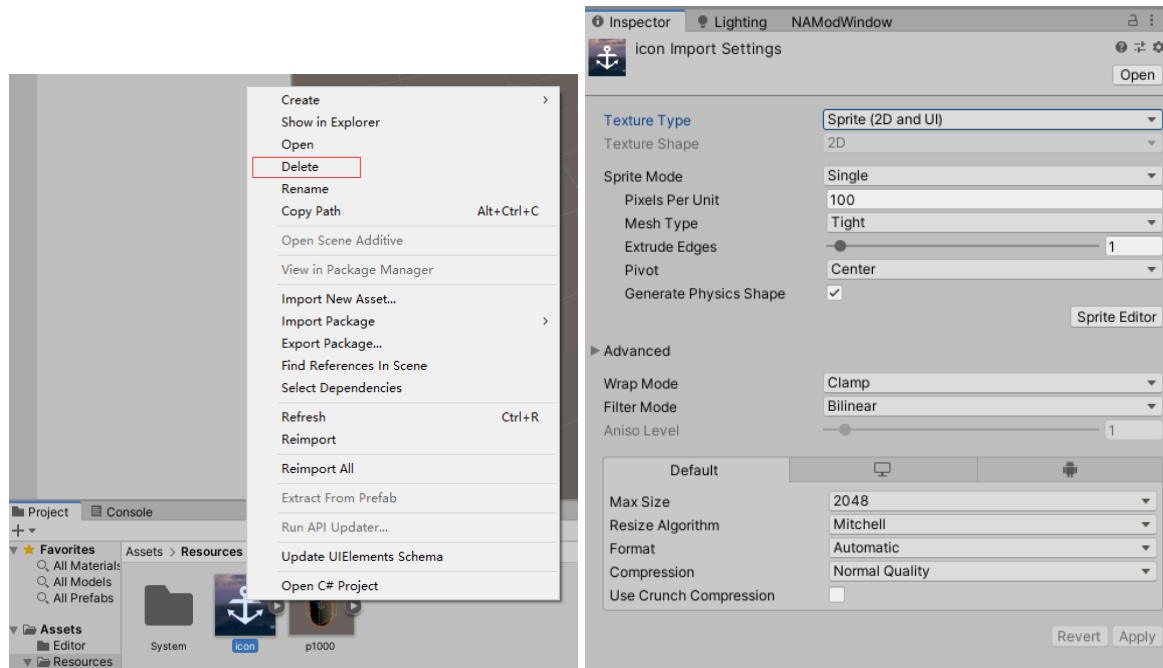


–You could see the default icon at the bottom of the window, in the **Check Icon** tab. To change the icon to yours, you need to delete the default icon in the Project Window, it's

located in the Resources folder, to delete it, Right Click on it and then choose **Delete**. To import your own icon you could see there is a **Import New Asset** tab, click on it and import your image.

Notice: your icon must be a png file or it may won't load correctly in the game

Meanwhile,After importing is done, select the icon and switch **Texture Type** on the **Inspector** panel from **Default** to **Sprite(2D and UI)**. It's also important or the icon won't load in the game.



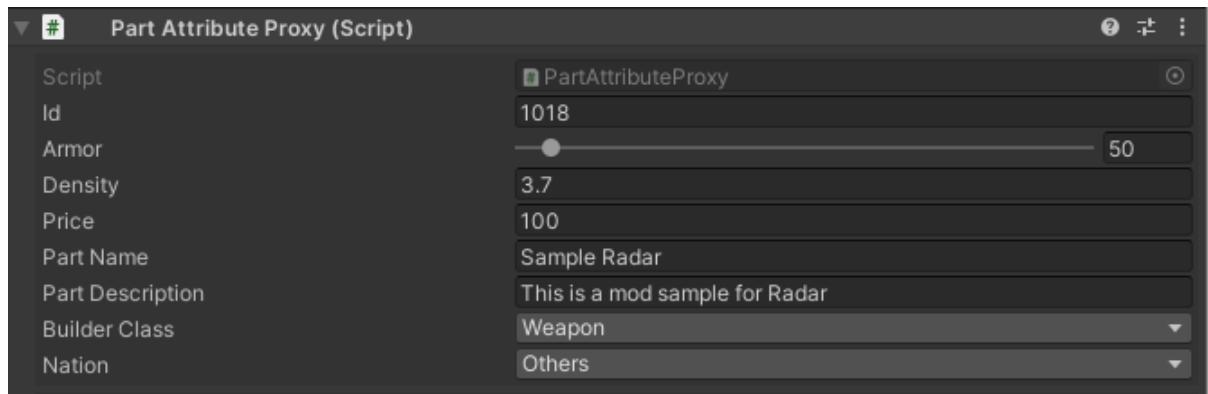
You should now see the photo under **Check Icon** has changed which means you could export it correctly.

To create a mod, choose a tab in the **Part Type** dropdown, and then click create.

How To Modding

Basic concept/ Hull /Decoration

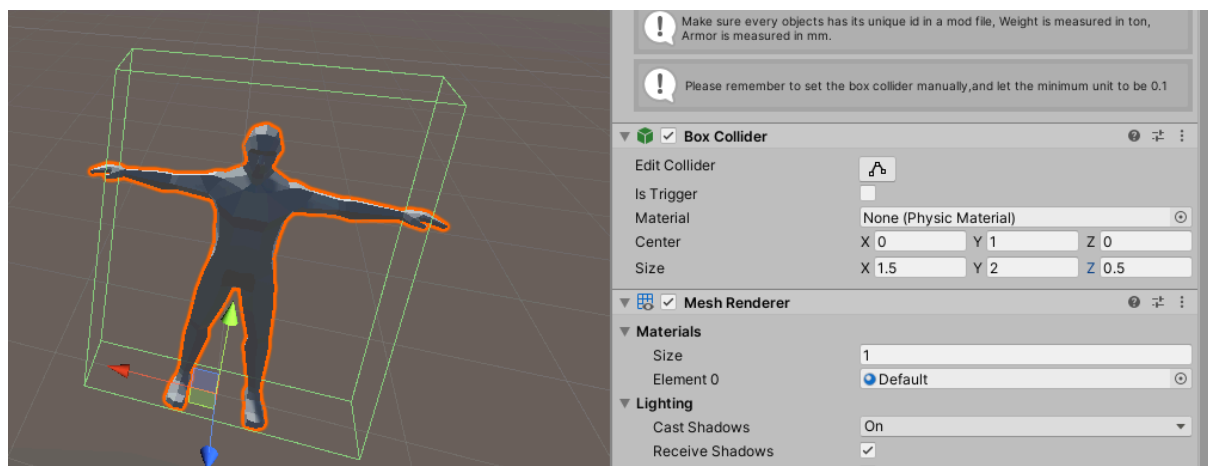
When you created a Hull/Decoration mod, you could see a new **GameObject** appeared in the scene, choose it and check the **Inspector** on the right, you will see it has some components:



Make sure every objects has its unique **id** in a mod file. Now you could Adjust its properties. **Armor** is measured in mm, the default value is 50mm. **Weight** is measured in ton(Weight has already been removed, you could calculate the weight by multiply volume & density).

Price is not implemented in the game yet but you could fill it first. **Part Name** and **Part Description** is the name& description that will showing in the game, **Builder class** is the classification will be used in the game. **Nation** is the mark which will be used for classification in the inventory panel.

The next is the **Box Collider**, you should adjust its size manually to fit the size of your mod, to name a few, center (0,1,0) and size (1.5,2,0.5) is set for this low poly man.



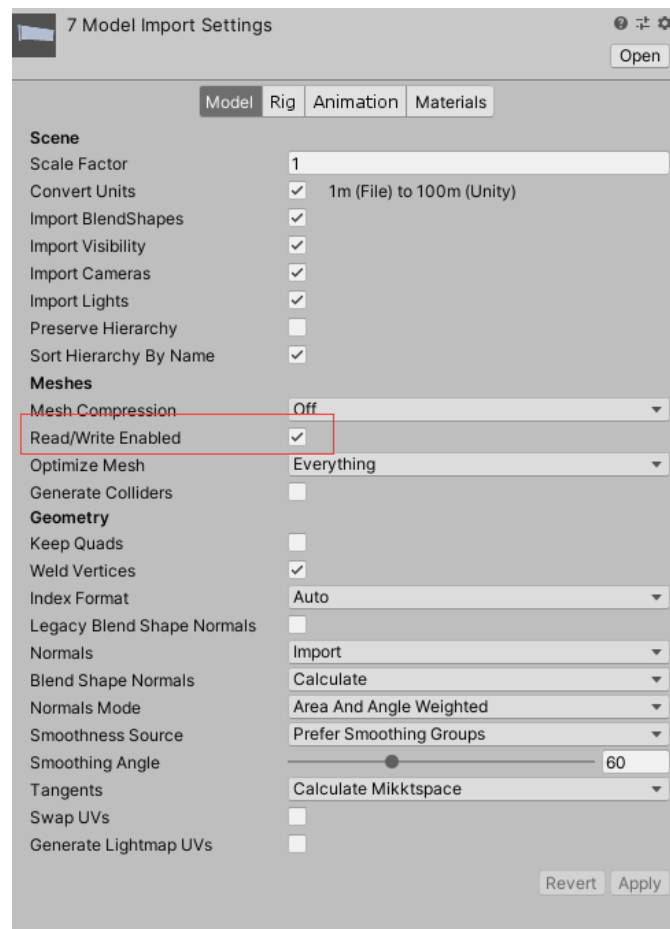
(Notice: the minimum unit for collider should be 0.1, or it may broken the snap system in the game)

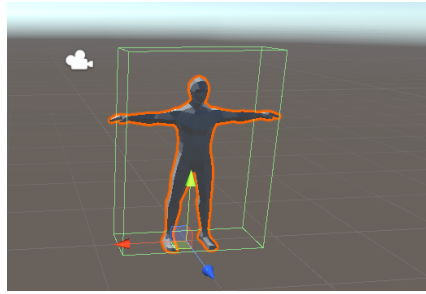
The next is **Mesh Renderer** and **Mesh Filter**, you could importing your models to unity use the similar approach as importing photos, when importing is done, you will see it under the Project window:



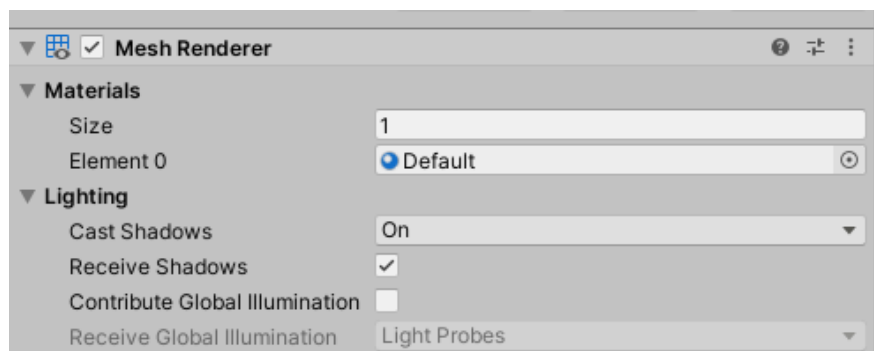
Click and drag the wireframe model(In this case is the rightmost object) to the **Mesh** tab of the **Mesh Filter**, now you should see your model lying in the scene.

(VERY IMPORTANT:Make sure to enable “Read/Write Enabled” for every model you imported,or the game will crash!!!)

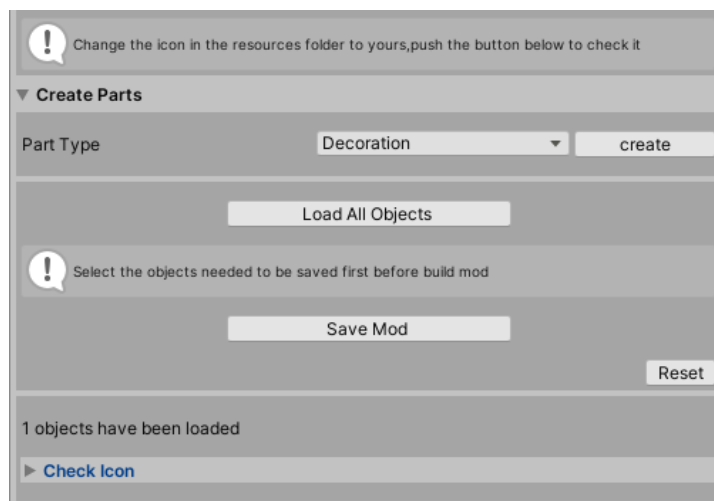




You could see the material under the **Materials** tab of the **Mesh Render** is named Default, this means your mods are using the game's material and will share the optimization of the game, hence will have a nice loading speed in the game and won't cause much framerate drop. However, you could also use your own material, using whatever material you want, to have advanced looking, but it will not be optimized by the game.



For **Hulls/Decorations** your work has been done, now back to the **NA mod window**, first select your object in the scene, which is click on the object's name in the Hierarchy panel on the left (Multiselect by hold control/ Shift), and then click the button **Load All Objects**, you will see it says 1 object has been loaded, and your selected object has been renamed to it's id.



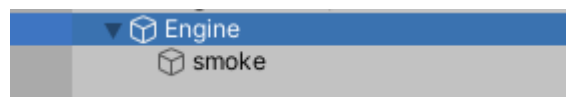
Make sure you have a preview image with your part, and filled in all information of your mod, then click **Save Mod**, choose the path you want to save the mod , and wait until the exporting is done.

When the mod is correctly exported you could see a new backup folder, you could delete it as soon as you want

Now you should see your mod folder is under the path you choose, copy and pasted it to the **Mods** folder under the path of the game, for more instructions please check the **How to Install Mods** chapter below.

Engine

The process of adding an Engine is similar to the content above, but it has a child object which is smoke:



it stands for the position where smoke generate in the game, change it position to fit your requirement, simply delete it to close the smoke effect, or duplicate it (Ctrl + D) to make more smoke.

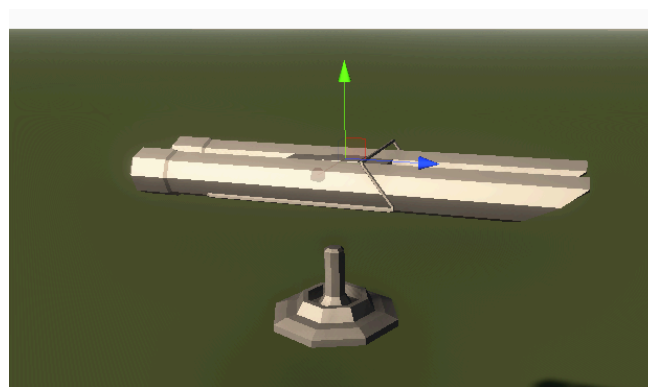
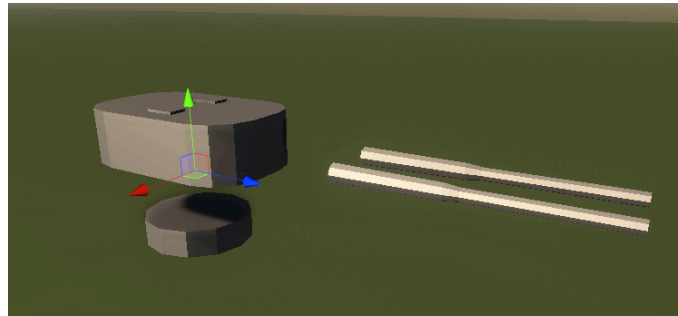
Rudder/Thruster/Radar

For those parts and along with the Turret or Torpedo Launcher, the model is not on the first object, they should be located in the child objects for rotating or other purposes.

To set their model you need to open their child objects on the right **Hierarchy** panel, and do the similar process as for Hull/Decoration. Config their parameters freely to create a mod.

Turret/Torpedo Launcher

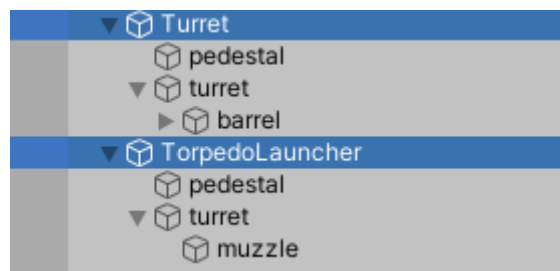
Firstly, on the modeling side, you should use 3 models for a turret (pedestal, turret, barrel) and 2 models for a torpedo launcher (pedestal, turret), and the rotation axis is the local center of each model, you should set it in modeling software.



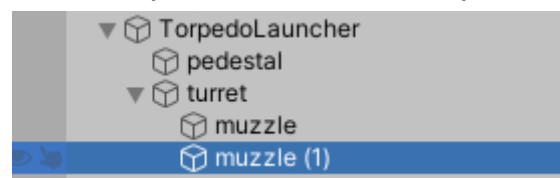
Part Turret Proxy (Script)	
Script	PartTurretProxy
Caliber in mm	
Caliber	600
Rotate Speed in degrees/s	
Rotate Speed	20
Range in m	
Range	4000
Bullet Speed in m/s	
Bullet Speed	700
Load Time	7
Max Shoot Angle	10
Spread in m/km	
Horizontal Spread	10
Vertical Spread	10
Muzzles	
Barrel	barrel
Turret	turret
Pedestal	pedestal
HE shell	
He Max Damage	1000
He Penetration Rate	1
He Start Ricochet Angle	85
He Ricochet Angle Limit	89
AP shell	
Ap Max Damage	1500
Ap Penetration Rate	1
Ap Start Ricochet Angle	45
Ap Ricochet Angle Limit	60

Part Torpedo Launcher Proxy (Script)	
Script	PartTorpedoLauncherProxy
caliber in mm	
Caliber	600
Rotate Speed in degrees/s	
Rotate Speed	20
Range in m	
Range	4000
Torpedo Speed in knots/s	
Torpedo Speed	80
Load Time	7
Can Launch Underwater	<input type="checkbox"/>
Muzzles	
Turret	turret
Pedestal	pedestal
Torpedo Properties	
Cruise Height	-2
Max Damage	8000
Penetration Index	1

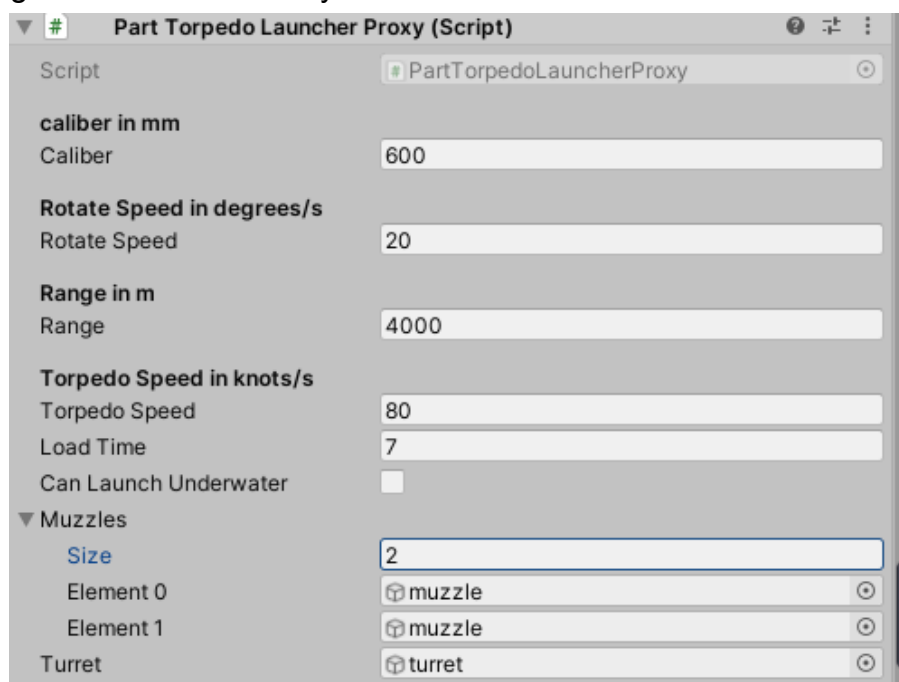
For Turret and Torpedo launcher, adjust its parameter under the components above, check its structure in the **Hierarchy**,



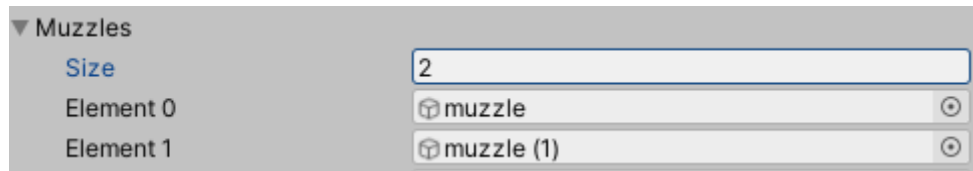
You could duplicate the muzzle object to make a second muzzle, muzzle is where the shell/ torpedo generate, however, remember to change the size of the **Muzzles** in the component, for example, first Ctrl + D to duplicate the muzzle object,



Then change the size of the array to 2:



adjust the new muzzle object to a suitable position and drag the **Muzzle(1)** to **Element1** of the **Muzzles** :

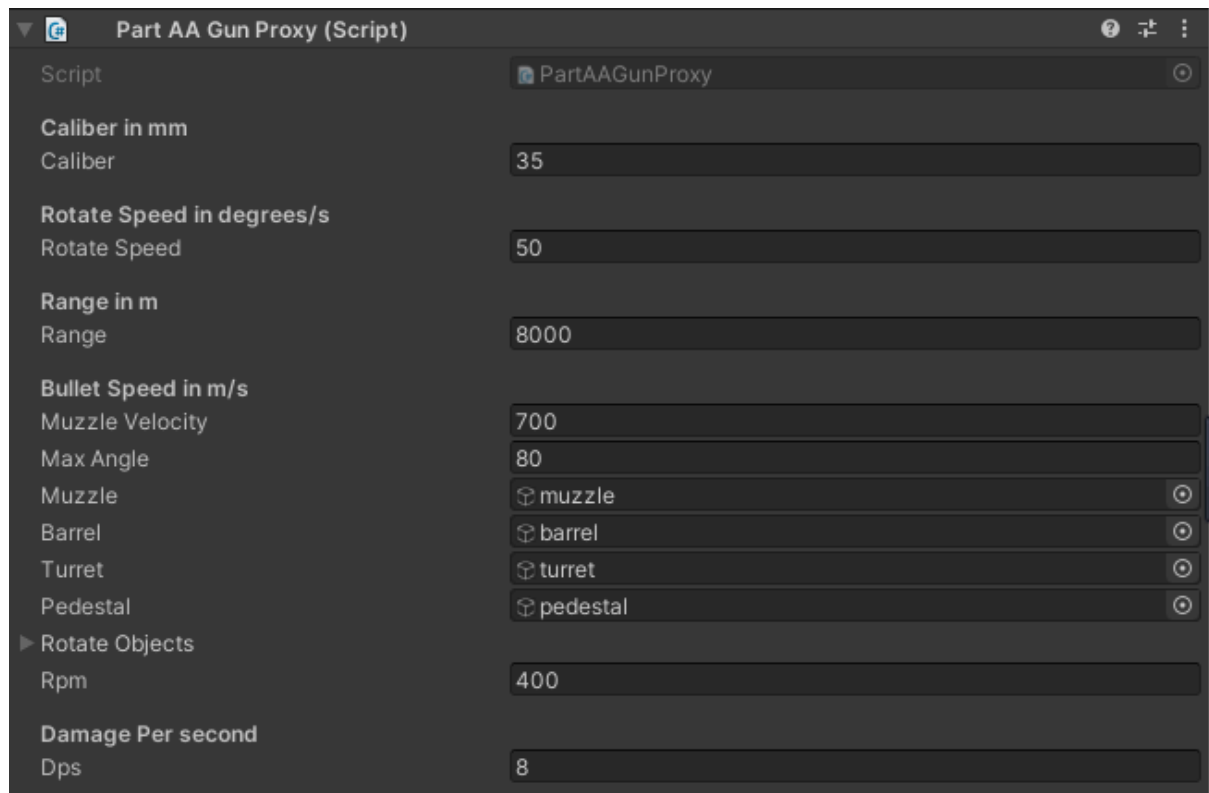


Also Remember to set the collider after your configuration is done.



AA guns

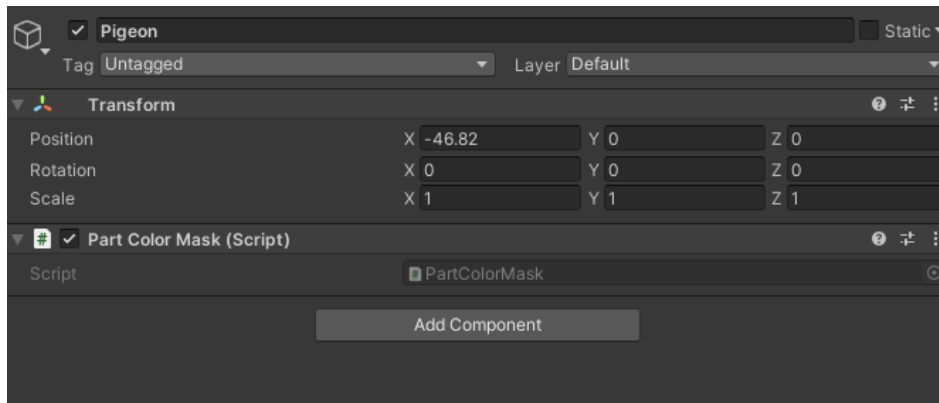
Adding aa guns is similar to the process above. Firstly you need to assign a barrel & turret. The difference is that there is only **one muzzle** allowed for AA guns for optimization, consequently you may need to place it in the middle point of your model's muzzles.



Textured Mods

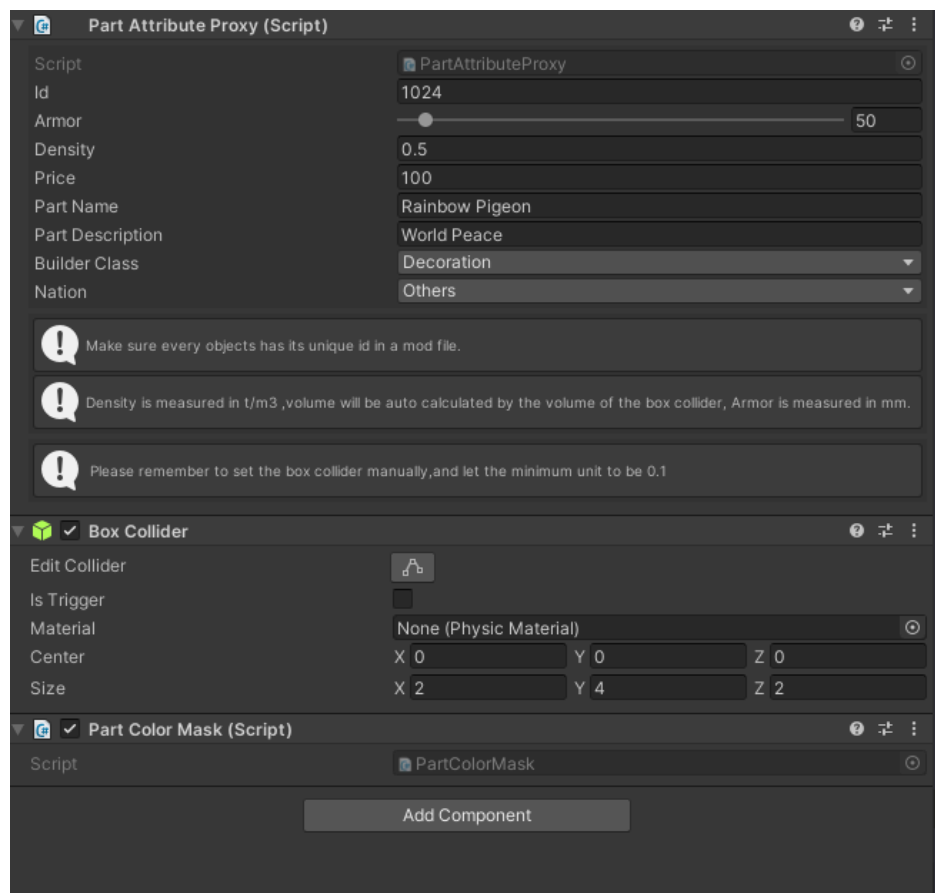
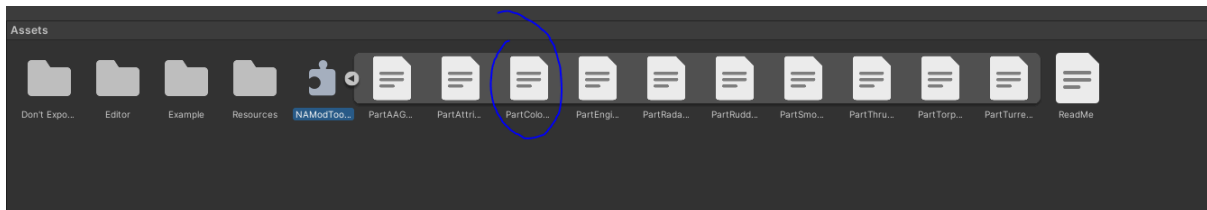
So As the Author I see a lot of players trying to add textures to their mods, which gives players more freedom to create their own designs, like rainbow deck, crew models, even anime characters, which barely work in the previous modding tool. So I added this function, simply add the script to the part you want, the game won't replace the texture of it, which means it won't have any damage effect, however, it will keep the material & texture on it, theoretically you can even make a glass screen, and since the part won't be processed, it will load faster, I suggest models have high poly count also should be added with this script mask.

To Add mask, select the part - drag the script Part Color Mask to the inspector of the object.



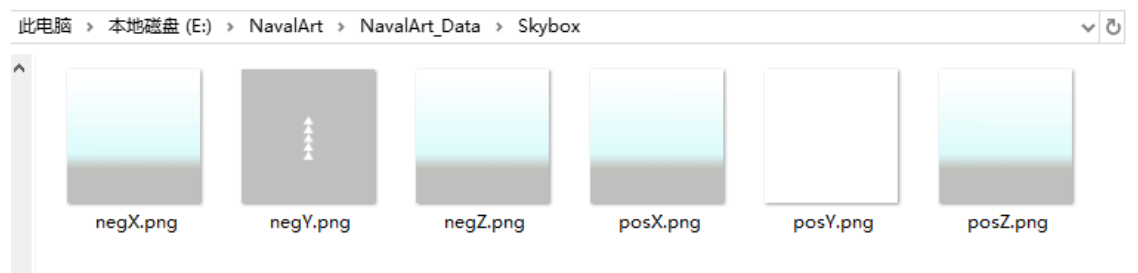
There is an example in the newest mod tools' [ExampleScene](#), shown as the model below, it tells you how to import models with textures or custom materials.

To Add script, you could open the [NAModToolCore](#) located in the Assets folder, simply drag the [PartColorMask](#) script to the inspector of the object.



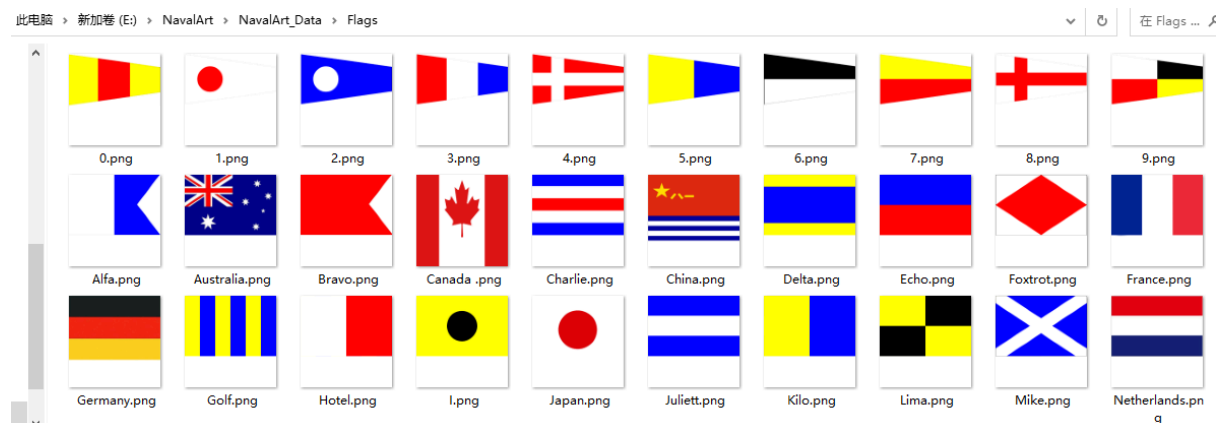
Skyboxes for builder

It doesn't need mod tool package to do this. Just replace the textures inside the game's file path.



Flags

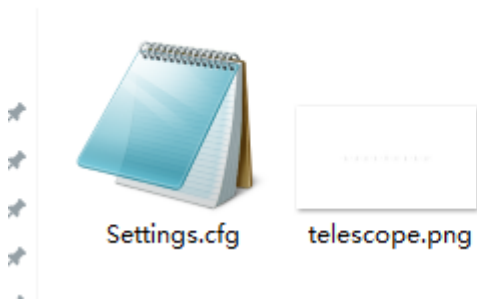
Same as above, put your flags in the NavalArt_Data folder, you could use existing flags as a template.



Telescope Modding

Same as above, in the game's file path, which is NavalArt - NavalArt_Data -Telescope , you can edit the Settings.cfg File, to adjust font size and position, or you could replace the telescope.png to use be your custom made.

此电脑 > 本地磁盘 (E:) > NavalArt > NavalArt_Data > Telescope



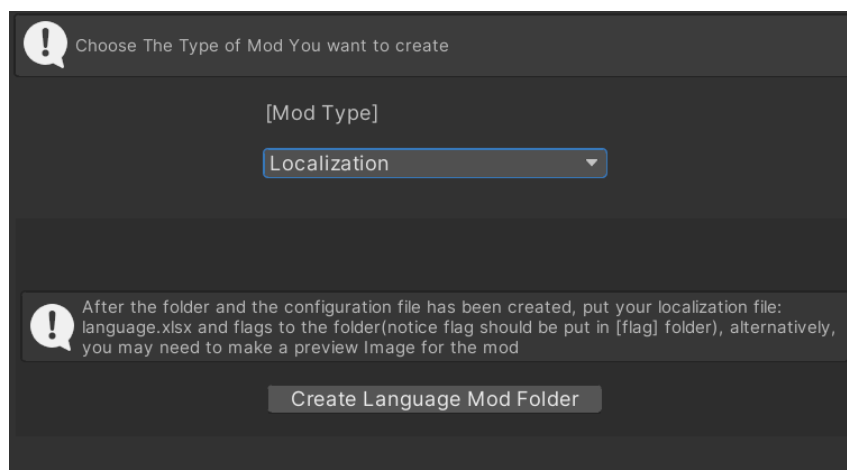
(Note: For modding skyboxes and telescope locally on your pc and use them personally, you could just follow the process above, if you want to upload your mod to Steam Workshop, please check the [How to upload mods to Steam workshop](#) chapter below)

Further More, in version 0.9, since now players could upload their mods to Steam workshop, to let the game identify your mod type, and upload Telescope mod or Skybox mod to Steam workshop, you need to create the mod folder from NA MODTools, after the folder has been created, it will be opened automatically, then you will need to copy& paste all the files into the folder, in order to upload it later. To be more detailed, visit the chapter **How to Upload Mods To Steam Workshop** below.

Localization Modding

(Optional : Check the Example Language Mod in the Steam Workshop:
<https://steamcommunity.com/sharedfiles/filedetails/?id=3029168019>)

Firstly create your mod folder using the mod tool by select localization item in the mod tool window:



It is suggested to move the folder and test your mod locally in NavalArt - NavalArt_Data - Mods - [YOUR MOD FOLDER], (If you don't have "Mods" folder, create one) the folder structure should be like what has been shown below:

此电脑 > 新加卷 (E:) > NavalArt > NavalArt_Data > Mods > test language mod

名称	修改日期	类型	大小
test language modconfig.xml	9/1/2023 9:58 PM	XML 文件	1 KB

Alternatively, we should add files in the folder.

> 此电脑 > 新加卷 (E:) > NavalArt > NavalArt_Data > Mods > test language mod >

名称	修改日期	类型	大小
test language modconfig.xml	9/1/2023 9:58 PM	XML 文件	1 KB
Flags	8/31/2023 10:34 PM	文件夹	
languages.csv	8/31/2023 9:04 PM	Microsoft Excel Co...	22 KB
languages.xlsx	8/31/2023 8:45 PM	Microsoft Excel Wo...	42 KB

languages.xlsx : NOT NECESSARY, game will only using one .csv file, which is languages.csv, I suggest you put it in here for easier modification if you are using Microsoft Excel as editor.

languages.csv: NECESSARY, you should only have one languages.csv file in the folder as the game won't read a second one.

You should notice the format of the csv file:

File name:	languages.csv
Save as type:	CSV UTF-8 (Comma delimited) (*.csv)

The data structure should be similar to the content below:

A	B
	Language1
StartGame	Test Message I
Dock	Test Message I
Battle	Test Message I
Editor	Test Message I
Option	Test Message I
Credits	Test Message I
Quit	Test Message I
Forum	Test Message I
Graphics	Test Message I
Full Screen	Test Message I
Language	Test Message I
VSync	Test Message I
Texture Quality	Test Message I
Anti Aliasing	Test Message I
Shadow Quality	Test Message I
Sound Volume	Test Message I
Close	Test Message I
Open	Test Message I
High	Test Message I
Middle	Test Message I
Low	Test Message I
Ultra Low	Test Message I

Left Column: Keys, you can find them in the game's data folder: NavalArt - NavalArt_Data-Localization. You could copy-paste all of the keys in one language.xlsx file , but leave the translation be blank will lead to errors, you could also translate a part of all the keys with no blank translation, but the text in the game will be blank if you don't have the keys added in your language.xlsx file.

脑 > 新加卷 (E:) > NavalArt > NavalArt_Data > Localization

名称	修改日期	类型	大小
Flags	9/11/2022 11:18 PM	文件夹	
aircraftweapons.csv	8/24/2021 12:24 AM	Microsoft Excel Co...	1 KB
aircraftweapons.xlsx	8/24/2021 12:24 AM	Microsoft Excel Wo...	10 KB
aircraftweaponsDes.csv	7/16/2021 1:33 PM	Microsoft Excel Co...	1 KB
aircraftweaponsDes.xlsx	7/16/2021 1:33 PM	Microsoft Excel Wo...	10 KB
descriptions.csv	6/27/2023 11:29 PM	Microsoft Excel Co...	92 KB
descriptions.xlsx	6/27/2023 11:29 PM	Microsoft Excel Wo...	51 KB
languages.csv	8/29/2023 9:02 PM	Microsoft Excel Co...	32 KB
languages.xlsx	8/29/2023 9:02 PM	Microsoft Excel Wo...	42 KB
mission.csv	2/10/2021 10:06 AM	Microsoft Excel Co...	1 KB
mission.xlsx	2/10/2021 10:06 AM	Microsoft Excel Wo...	11 KB
parts.csv	6/27/2023 11:29 PM	Microsoft Excel Co...	27 KB
parts.xlsx	6/27/2023 11:29 PM	Microsoft Excel Wo...	28 KB
tips.csv	4/29/2023 2:50 PM	Microsoft Excel Co...	4 KB
tips.xlsx	4/29/2023 2:50 PM	Microsoft Excel Wo...	14 KB
tutorials.csv	6/22/2023 4:20 PM	Microsoft Excel Co...	53 KB
tutorials.xlsx	6/22/2023 4:20 PM	Microsoft Excel Wo...	36 KB

Second Column: Translations, notice you should leave the first row for language name, in this case “Language1” , or “English-US” if you are trying to add an English translation mod.

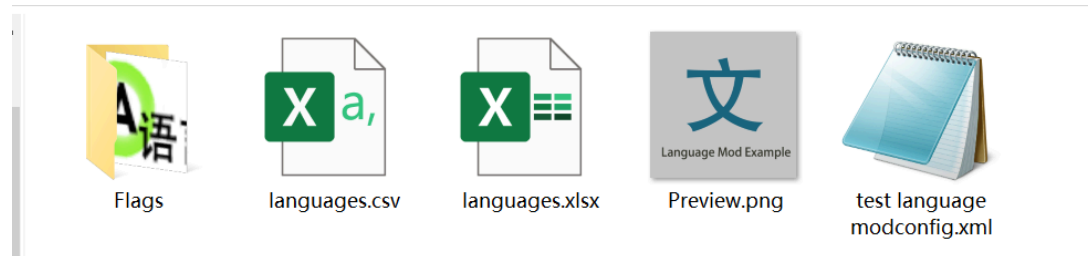
Furthermore, if you wish to have two languages in one mod, just add another column in the csv file.

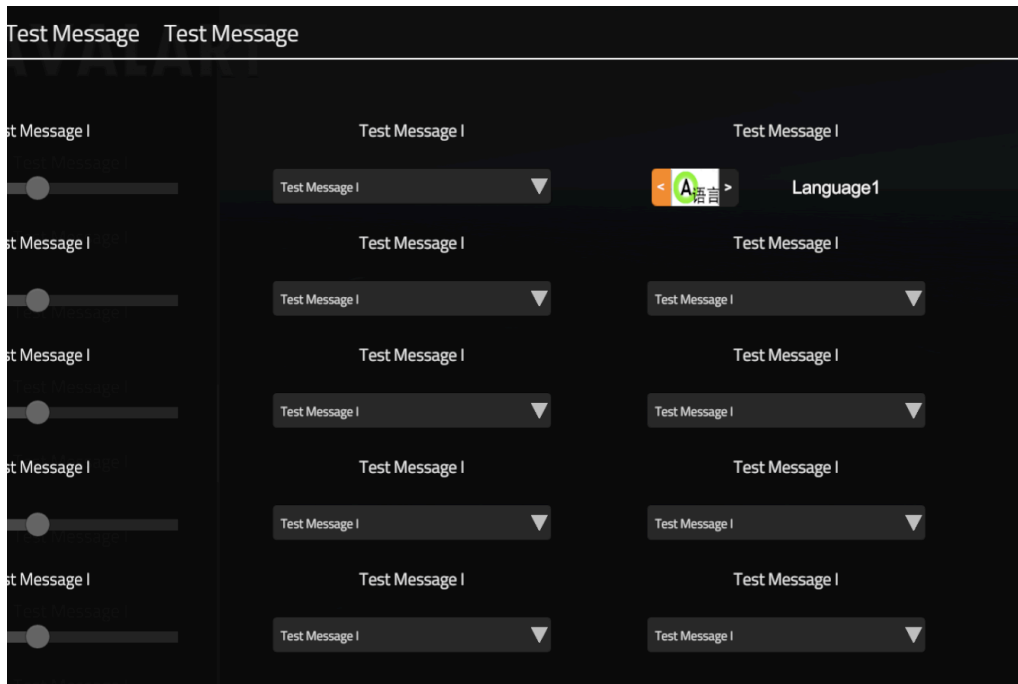
A	B	C	D
	Language1	Language2	
StartGame	Test Message I	Test Message II	
Dock	Test Message I	Test Message II	
Battle	Test Message I	Test Message II	
Editor	Test Message I	Test Message II	
Option	Test Message I	Test Message II	
Credits	Test Message I	Test Message II	
Quit	Test Message I	Test Message II	
Forum	Test Message I	Test Message II	
Graphics	Test Message I	Test Message II	
Full Screen	Test Message I	Test Message II	
Language	Test Message I	Test Message II	
VSync	Test Message I	Test Message II	
Texture Quality	Test Message I	Test Message II	
Anti Aliasing	Test Message I	Test Message II	
Shadow Quality	Test Message I	Test Message II	
Sound Volume	Test Message I	Test Message II	
Close	Test Message I	Test Message II	
Open	Test Message I	Test Message II	
High	Test Message I	Test Message II	
Middle	Test Message I	Test Message II	
Low	Test Message I	Test Message II	
Ultra Low	Test Message I	Test Message II	

After finished the translation, don't forget to create a "**Flags**" folder and put a picture in it, the image should be .png file and the same name as your language code in the first row, resolution should be 80*48

Open the game, if it works locally, then you should upload it to the workshop, don't forget to add a thumbnail for your mod. Check [Preview Image](#) and [Uploading Tutorial](#)

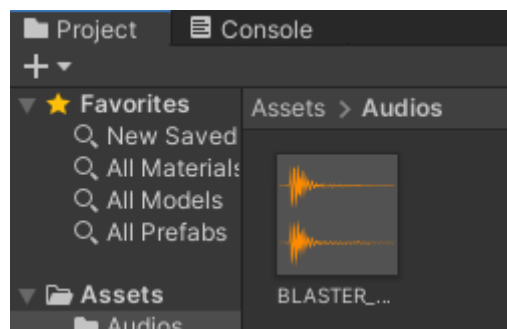
新加卷 (E:) > NavalArt > NavalArt_Data > Mods > test language mod >



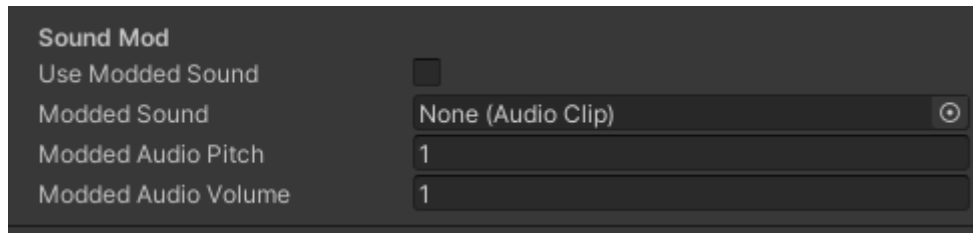


Replace Weapon(turret, torpedo,aa gun, missile...) Firing Sound

To begin with, it is recommend to create a “Audios” Folder, it’s not necessary but it will help you classify audio files hence making the asset hierarchy keep organized.



To replace vanilla sound of the turret, first make sure you are using the newest mod tools and upgraded your project (**please always remember to backup your project before upgrade!**), you will find a Sound Mod title in the bottom of the inspector of the turret script.



Properties:

- **Use Modded Sound** : set to true to use your modded sound clip
- **Modded Sound**: Assign your modded sound clip here, please notice aa gun's audio clip should be a **looping** sound
- **Modded Audio Pitch**: Change the audio pitch here, for example, you can use one clip resource and change the pitch to simulate different calibers.
- **Modded Audio Volume**: 1 equals to 100%, adjust it with caution.

Check the example turret with id : **1001** in the example mods, it has been replaced with a **blaster** sound.

Missiles

Missiles take the step of modding further by having more properties and independent material & textures, even with launch animations, so it's only recommended for experienced modders to create a missile mod.

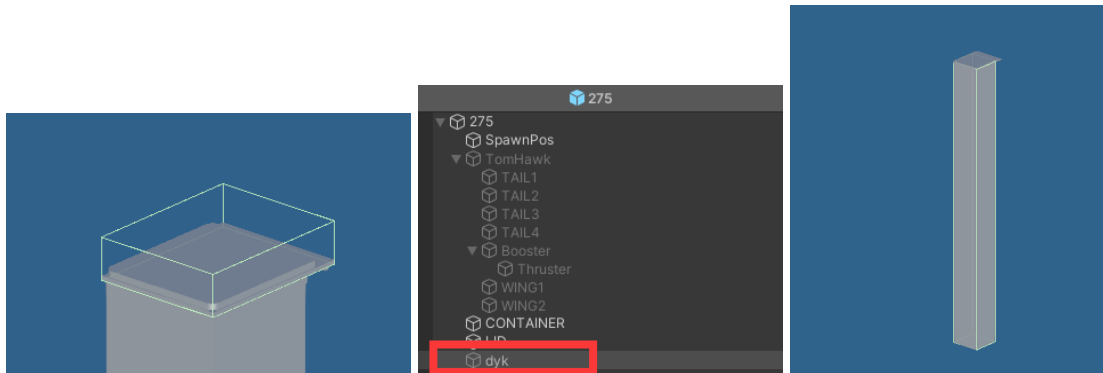
You will find two ways to create a missile, select Missile in the Part Type menu, and click create, an empty object with **PartAttributeProxy**, **Box Collider** and **PartMissileProxy** components will appear in the scene.

Or you could drag your missile launcher model in the scene directly , and copy & paste these components to your model.



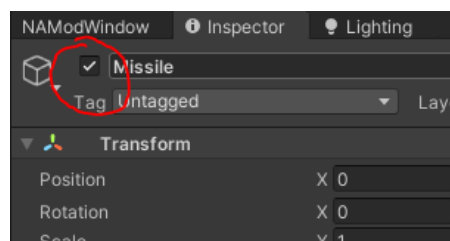
Check the example missile launcher in the example scene, notice the hierarchy and manage yours carefully. (If you can't load the models, please download blender since the example models are blender files.) Meanwhile, don't forget to create an empty object for assign missile spawn position.

If you want to create VLS, since the box collider is very thin and only set to the surface of the VLS for better placing you need to have a magazine object, it could be an empty gameobject but with a box collider, the game will switch to the magazine box collider when you enter scenes with physical simulations as long as you registered the magazine object as be shown in the next steps.



(1.Thin box collider of the “275” VLS 2.”dyk” object as the child of “275”, it should be disabled like missile 3.”dyk”’s actual box collider)

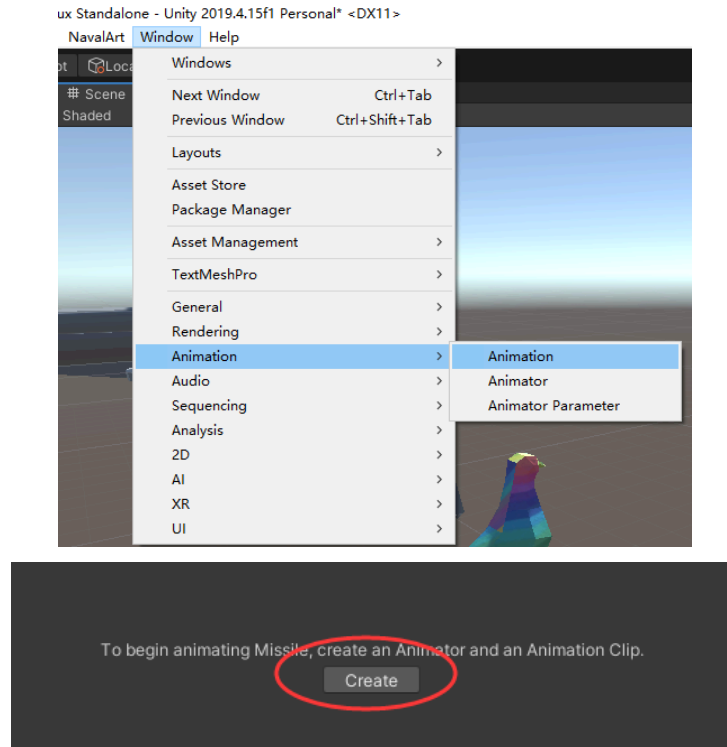
Generally speaking missile and its components as its children should be a seperate object located as a child of the missile launcher. Before exporting the mod you should **disable** the missile gameobject by click the toggle in the red circle below, it is not disabled but shown here for demonstration.



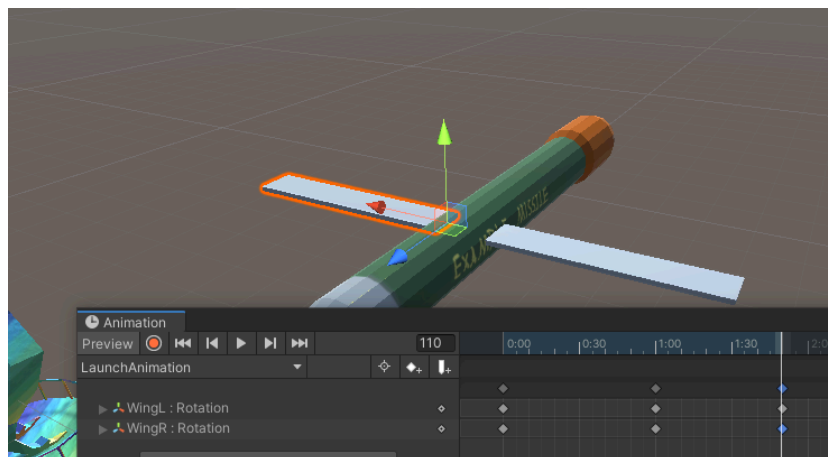
Very important: Please notice two gameobject inside the Missile object, they need to always have certain names (The game auto detect them by searching names, so wrong spelling will cause errors) exist inside the missile object the first one is “**Booster**”, it stands for booster models for missile which has an actual booster, or it should be set to an empty gameobject as child of the missile gameobject, “Booster” will be separated from missile at certain time. The other one is “**Thruster**”, it stands for the location of rocket trails (tail flame) , “**Thruster**” **must be a child object of “Booster”**. (Tip: If you want to create a mod missile with more than 2 stages, check the YJ-18 missile in the game, it has 3 stages, one is “Booster” and another one is achieved by adding an seperate-drop-disable animation to the second stage.)

Meanwhile, if you want to use your custom afterburner effect, you can add a “**Booster**” only, then put your own afterburner particle effect on your missile, you could also forget about “**Booster**” if you don’t want a program generated stage split animation. (you can adjust the **Booster Split Time** to let the missile never stop the afterburner sound effect)

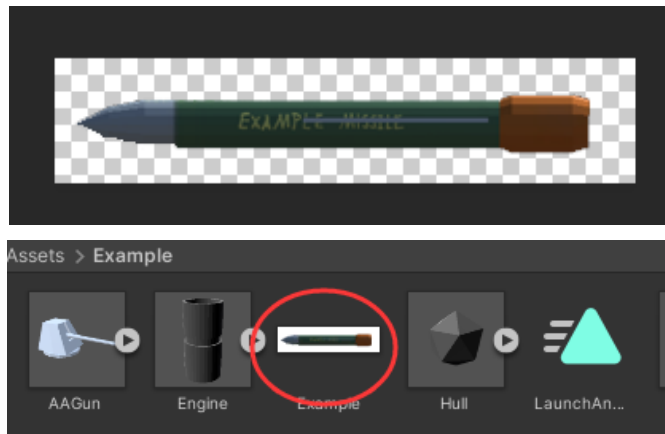
For launching animations like unfolding wings, first select the missile and make sure it has wings and booster set as its child object, then open the unity **Animation** window , click **create animation**, if you don't know how to create an animation in Unity3d, find a tutorial online or ask modders in the community about that, it's quite neat and simple.



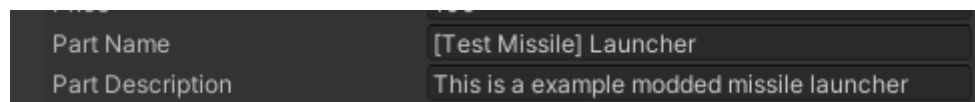
In the example, an unfolding animation has been added to the missile, since missiles are disabled(hided) before launch and activated as long as they have been launched, animations will start playing automatically.



You also need to create a thumbnail for your missile with **transparent** background, it should be a **png** file, size is recommend to be **256 * 64** , check the example missile icon inside the Example folder



Please notice your missile launcher's name too, it must have a pair of “[” “]”, the game will read the string between those two characters to parse the missile name which shown in the in-game missile panel.



Properties:

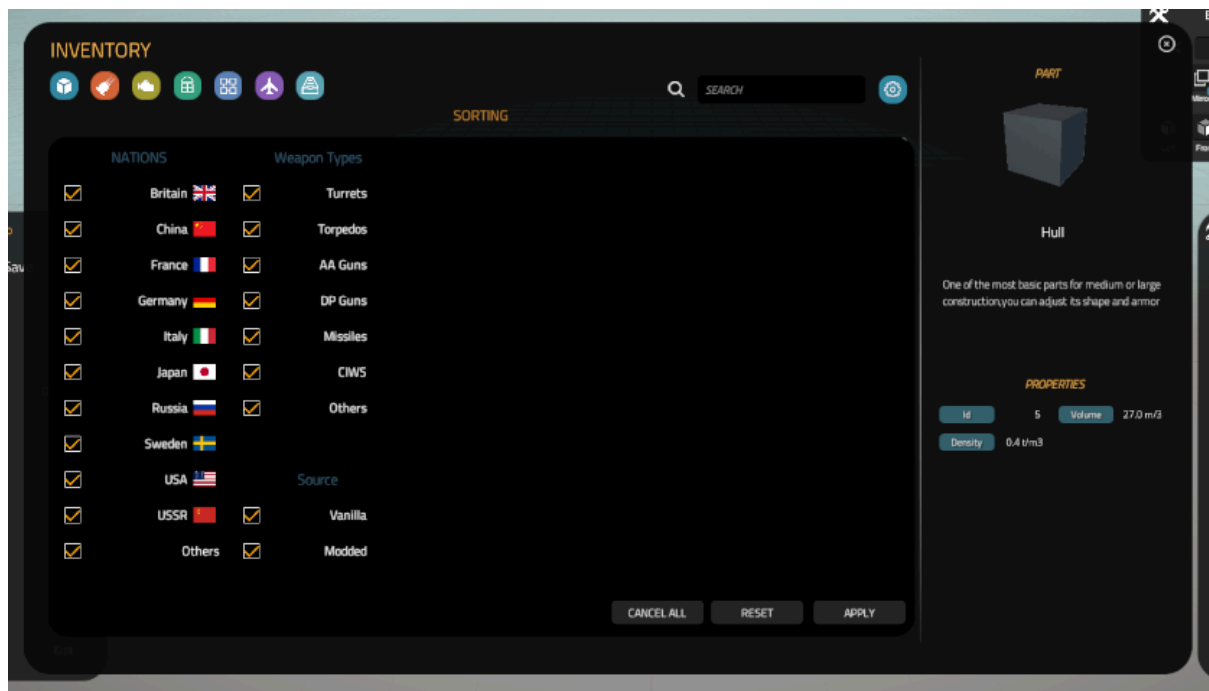
Anim Target	If you want to let your launcher's barrel rotate to a certain angle or the cover of your VLS opened first before launching the missile, assign this to the target
Target Final Rotation	The final rotation of the Anim Target will rotate to
Anim Time	The time it will take for Anim Target to finish the animation
Magazine	The collider for VLS or other purposes, if is not null, the game will switch the missile launcher's collider to this item's collider
Missile Res	The resource object to duplicate when firing missiles, the resource missile should be disabled before exporting mod
Missile Tex	The texture file of the missile in the panel(256 * 64, png)
Tubes	Set the size of Tubes according to your mod, see the explanation below in the properties of tube section
Missile Jet Speed	(m/s)The jet speed of the missile
Booster Split Time	(Seconds) Split time of the “Booster” and “Thruster” gameobject, if you want to make the rocket trail exist before hit the target, use animation to make a dummy booster
Start Maneuver Time	(Seconds)After certain seconds the missile will maneuver at max acceleration
Missile Max Speed	(m/s)Terminal speed of the Missile

Missile Acceleration	(m/s ²) Time to reach terminal speed = MaxSpeed/Acceleration
Missile Max Range	(KM)Max range of the missile
Max G Force	Max maneuvering acceleration of the missile
Cruise Height	(m)Cruise Height(AA missiles do not accept this parameter)
Damage	Missile Damage(AA missiles do not accept this parameter)
Explosion Radius	(m)Explosion Radius(AA missiles do not accept this parameter)
Eq. Penetration Depth	(mm)Penetration Depth only effective for Semi-Ap warhead
Warhead Type	Warhead type, high explosion, semi-armour penetration, Anti-Air
Interception Rate	0-100, when warhead type is AA, it stands for interception rate, otherwise, total interception rate = AAMissileIntpRate * TargetMissileIntpRate (Will be implemented soon, in v0.9 the formula is rate = AAMissileIntpRate * 1)

Properties of Tube

Cover	The cover of the missile launch tube, can be left as blank if you don't need it
SpawnPos	Spawn position of the missile which is an empty object
Prewarmed	For missile launcher which exposed missiles outside like the in-game m-11 or mk-26 launcher, set the value to true
Prewarmed Missile	When the above value is set to true, drag the corresponding missile gameobject into this section, or select it. Prewarmed missiles should be different gameobjects of Missile Res, or it will cause bugs such as texture loss.
Missile Count	Should be not less than 1
Reload Time	Reload Time of the launcher
Detect Collision Delay	The missile will only detect collision after certain seconds of delay, useful for VLS
End Rot	If is not (0,0,0), the cover will not be hidden but rotate to this angle after launch, useful for VLS

Upgrade Your Mods for new weapon type sorting panel in 0.9

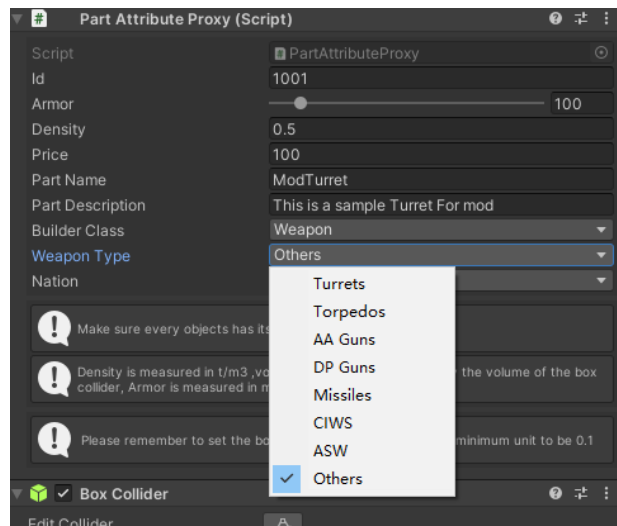


For those who may noticed your weapon mods **can not be sorted** using the in-game sorting panel in the inventory, this is because **Weapon Type** is a new property added in version 0.9, by default your weapon type is set to “**Others**”

To make it take effect, firstly please make sure you are using the newest mod tool, and upgrade your project (**please always remember to backup your project before upgrade!**)

You will notice a new **Weapon Type** property shows like the photo below, simply choose the correct type for your weapon mod, save the project and export your mod, then you should find the sorting panel sorts your weapon mod by its weapon type property now.

ASW stands for Anti Submarine Weapons, it has not been implemented in the game for now.

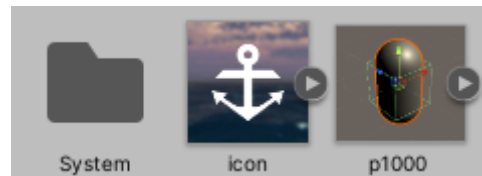


Modding Rules

To all modders, I highly recommend you to pack separate mods into one big package, it has a lot of advantages rather than put one part in one mod, to name a few, the system reads one big file much faster than several small files. And it's also more convenient for you and others, both for finding mod and updating mods. To import all parts in one mod, you need to create mods in one Unity project, and in one Unity scene, select them all and export.

Please check this chapter carefully in order to make the mod running without any problems.

For every part it needs a thumbnail in the game. In the process of modding you should have a **png** file located under the **Resources** folder, and its name should be "p + id of the part", for example, if there is a part with id 1000, then you should import a png file and rename its name to **p1000** (notice: the p must be in lowercase, and make sure the image is set to sprite rather than Texture2D or it may not be loaded in the game) .



Another thing should be noticed is that, it is better to export your mod as a whole package rather than many small folders. To be more detailed, assuming you have made two mods, one decoration and one turret, there are two choices for you, the first is export them as two different packages, another one is to export them as a package, for example: “WWII weapon mods”. It’s always a superior solution to choose the second solution. Since personal computers read big files much faster than many small files.

You should always pay attention to the “Read Write Enabled” toggle in the model import settings. Be sure to remember that since it’s critical to making mods in this game.

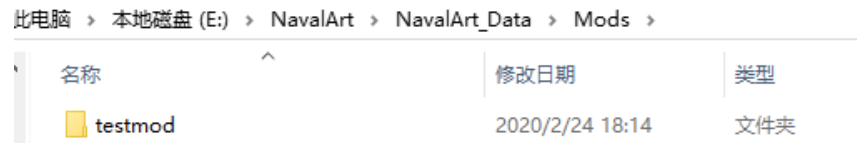
How To Install Mods Manually

Open the folder where NavalArt is installed, normally its under Steam library, my path for the game is E:\NavalArt\NavalArt_Data, the folder structure will looks similar as the picture shown below:

Localization	2020/2/19 23:00	文件夹	
Managed	2020/2/19 23:00	文件夹	
Missions	2020/2/19 23:00	文件夹	
Mods	2020/2/24 18:14	文件夹	
NAModManager	2019/10/20 15:45	文件夹	
OST	2020/2/19 23:00	文件夹	
Plugins	2020/2/19 23:00	文件夹	
Resources	2020/2/19 23:00	文件夹	
Skybox	2020/2/19 23:00	文件夹	
app.info	2020/2/19 23:00	INFO 文件	1 KB
boot.config	2020/2/19 23:00	XML Configurati...	1 KB
globalgamemangers	2020/2/19 22:56	文件	400 KB
globalgamemangers.assets	2020/2/19 22:56	ASSETS 文件	191 KB
level0	2020/2/19 22:56	文件	7 KB

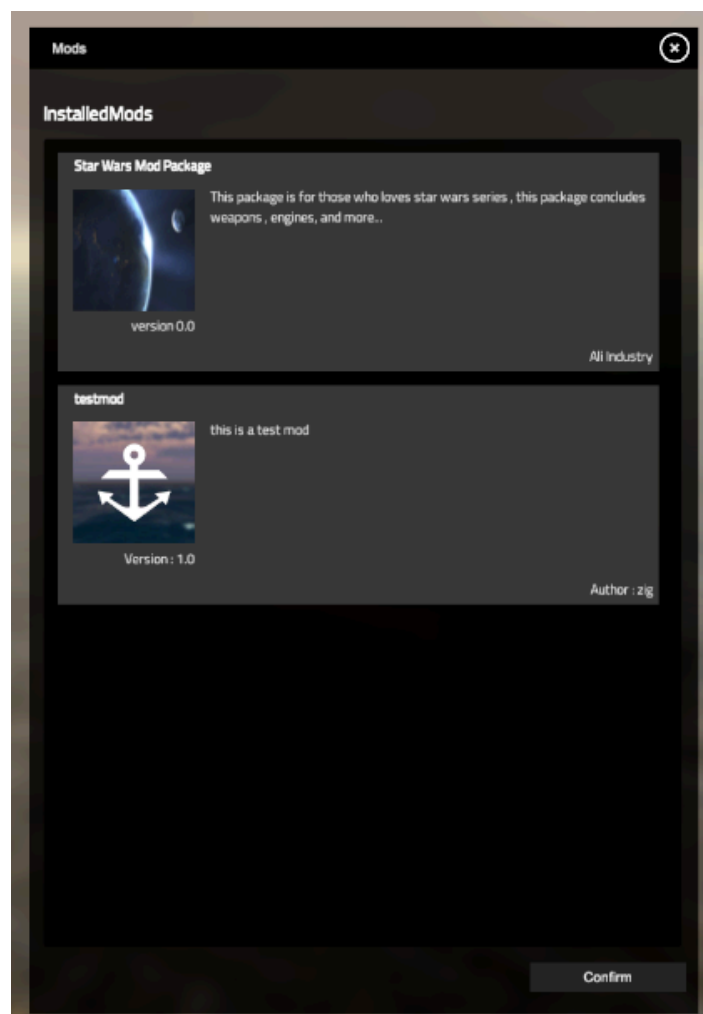
If you don’t have the Mods folder under the folder, simply create one, but please notice the spelling, mod won’t load with the wrong word!

Then put the mod folder you just created with the mod tools under the Mods folder, then it's done. Your mod has been installed.



Open the game (Actually it's fine to install the mod even when the game is running, but you may need to exit and enter the Menu again to let the game load your mod), then you should see your mod in the mod manager window.

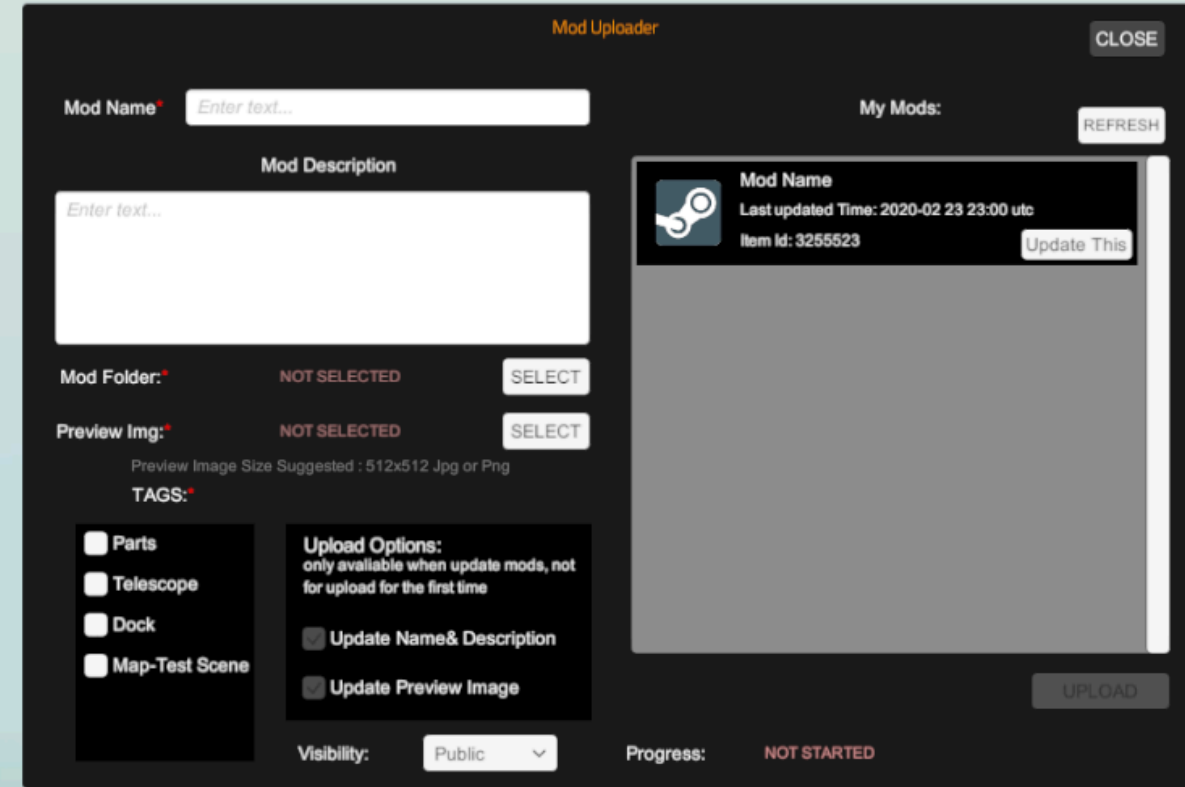
Then the job is done, it's simple, right? Open the Mod tab or Inventory panel in the game to check whether you have installed the mod.



How to Upload Mods To Steam Workshop

For version 0.9 and above, now players could upload mods to Steam Workshop (finally!)

To upload mods to Steam Workshop, firstly, you need to enable **Developer Mode** in game's setting panel, then a menu will appear in the top of the game window. Click the button : “**Mod Uploader**” , the upload panel will be enabled.



The screenshot shows the 'Mod Uploader' window with a dark theme. At the top, there's a title bar with 'Mod Uploader' and a 'CLOSE' button. The main area is divided into two columns. The left column contains input fields for 'Mod Name*' (with a placeholder 'Enter text...'), 'Mod Description' (with a placeholder 'Enter text...'), 'Mod Folder:*' (showing 'NOT SELECTED' and a 'SELECT' button), and 'Preview Img:*' (showing 'NOT SELECTED' and a 'SELECT' button). Below these is a note 'Preview Image Size Suggested : 512x512 Jpg or Png'. Under the 'TAGS:*' section, there are four checkboxes: 'Parts', 'Telescope', 'Dock', and 'Map-Test Scene'. To the right of these is an 'Upload Options' box with the text 'only available when update mods, not for upload for the first time' and two checked options: 'Update Name& Description' and 'Update Preview Image'. At the bottom left, there's a 'Visibility:' dropdown set to 'Public'. The right column has a 'My Mods:' section with a 'REFRESH' button. Below it is a list of mods, with one visible showing a Steam icon, 'Mod Name', 'Last updated Time: 2020-02 23 23:00 utc', 'Item Id: 3255523', and an 'Update This' button. At the bottom right of the main area is a large 'UPLOAD' button. The bottom status bar shows 'Progress: NOT STARTED'.

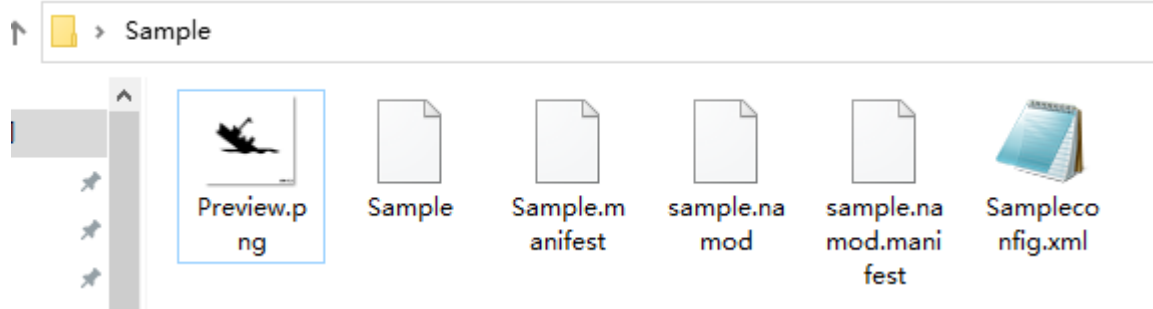
Be aware, all the elements with * must be filled or selected in order to upload mod to Steam Workshop, or the **UPLOAD** button won't be interactable.

Preview Image

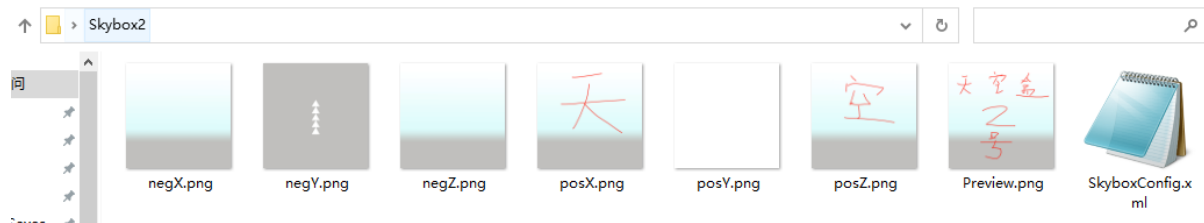
Attention, although you could select the Preview Image in the uploader panel, always remember the preview image should be .png format, and named as “Preview.png” in the folder, or the file won't load in the Mod Management panel in the game.

Preview Image Size suggested: 512x512 JPG or PNG, too big file will cause the upload process to fail

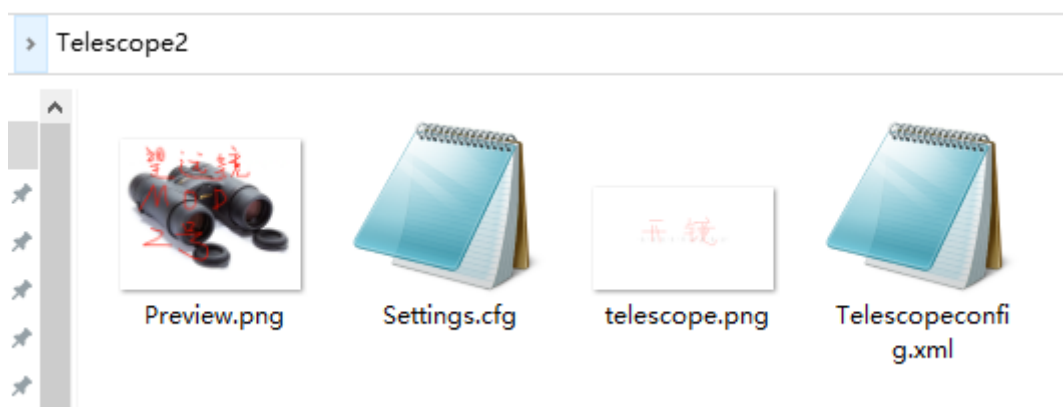
Examples:



(Part Mod folder structure)



(Dock Mod(skybox mod) folder structure)



(Telescope Mod folder structure)

Upgrade Guide

Simply import the new **NAModTools.Unitypackage**

Q&A

Q: Can I add textures to my parts?

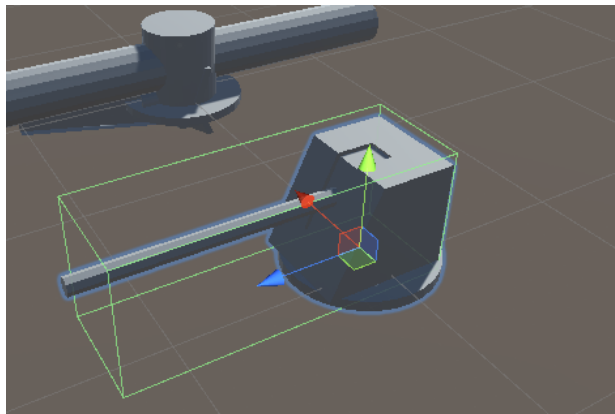
A: Yes, but to ensure max compatibility and optimization, please only use the default material in the game. The performance will drop dramatically when there are too many parts with its own textures, however if you have a fast computer and won't provide mod to others who might use an old pc then its fine.

Q:Unity says AssetBundle name ".namod" is not valid or NullReferenceException: Object reference not set to an instance of an object

A: Make sure all information of your mod has been filled.

Q:My turret shoots when it is not pointing to the target?

A: Make sure the forward direction for the turret in unity is the z axis.(The Blue Axis)



Q: Unity says “You are trying to replace or create a Prefab from the instance '1000' that references a missing script. This is not allowed.”

A: Make sure every object has its unique id

Q:My game camera is not focusing on my ship in the game after I installed my mods.

A:You need to enable “Read Write Enabled” in the model import settings. Be sure to remember that since it's critical to making mods in this game.

Q:The object's name always reset to “1000”

A:Please remember to change the id in the “Part Attribute Proxy” panel.

Q:My Mods always shows a pigeon with “No Preview” at the mod manage panel

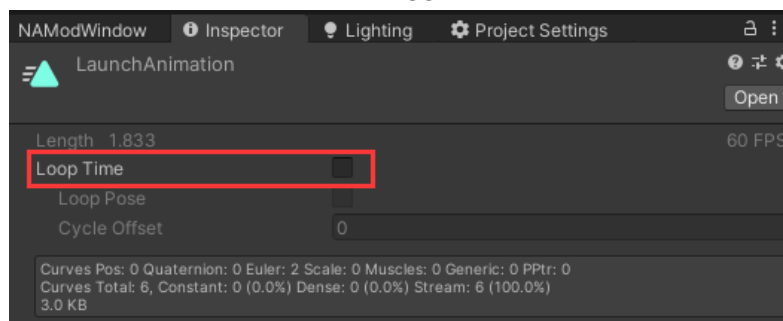
A: At version 0.9, the preview image file location has been changed, please check the icon part above to modify your mod.

Q:My parts in my mod always shows a pigeon with “No Preview” at the inventory panel

A: First make sure your preview image has the right name and also located inside the “Resources” folder, then make sure the Texture Type in your image has been set to “**Sprite(2D and UI)**” rather than **Default**.

Q:My Animation Keeps looping on the missile

A: Be sure to check disable the “Loop Time” toggle in the animation



Q:There is a gap between my turret’s feeder and the pedestal

A: Be sure to make pedestal’s rotation to be (0,0,0)

