

MODULAR



ULTIMATE SPACESHIPS
C R E A T O R

Please check the up-to-date online version of this documentation here:

<https://ebal-studios.gitbook.io/usc>

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Introduction

The Ultimate Spaceships Creator (USC) is a modular spaceship kit with 386 spaceship examples ready for your game, you can use the included examples, easily modify them or build your own using modules.

The massive number of modules and textures available mean you can effortlessly build an infinite number of spaceships that will enrich your game or give you the ability to design any concept you have in mind.

This collection started off with the now quite popular [Star Sparrow](#) spaceship set. We wanted to come up with an efficient way to have multiple ships for a game we were making, thus we have taken a modular approach. The game at the time never materialized, and we ended up posting the Star Sparrow on the Asset Store. After its huge appeal came to our attention; we started adding more spaceship sets and creating this collection.

This collection has grown into what it is today, with the spaceship sets having different styles and standards as we continued to develop over time and work on the feedback we received from developers. The form and layout it is currently in is the result of incessant refinement.

A team of artists worked on this pack, but if we add up all the time they worked on it with all the updates and improvements. That added time would be more than 2 years of a single artist's time! This means by purchasing this collection you have saved yourself a 3D artist salary of 2 years!

As with anything, this collection may not be perfect, but it is an absolute certainty that you are getting an incredibly tremendous amount of content with the USC! We hope that you appreciate all the effort that was put into it and if so, that you would be kind enough to leave us a review. Positive reviews mean that we will be able to hopefully achieve more sales and have an incentive to further update this collection and add content to it.

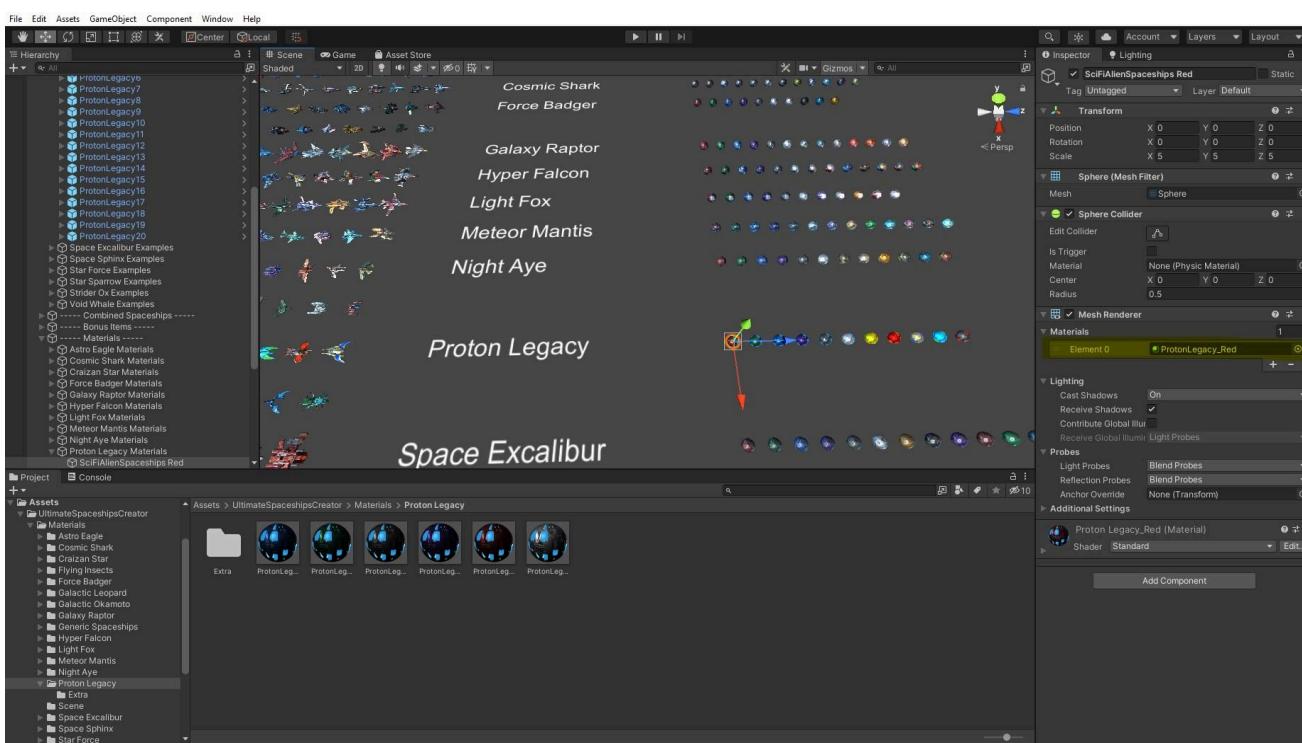
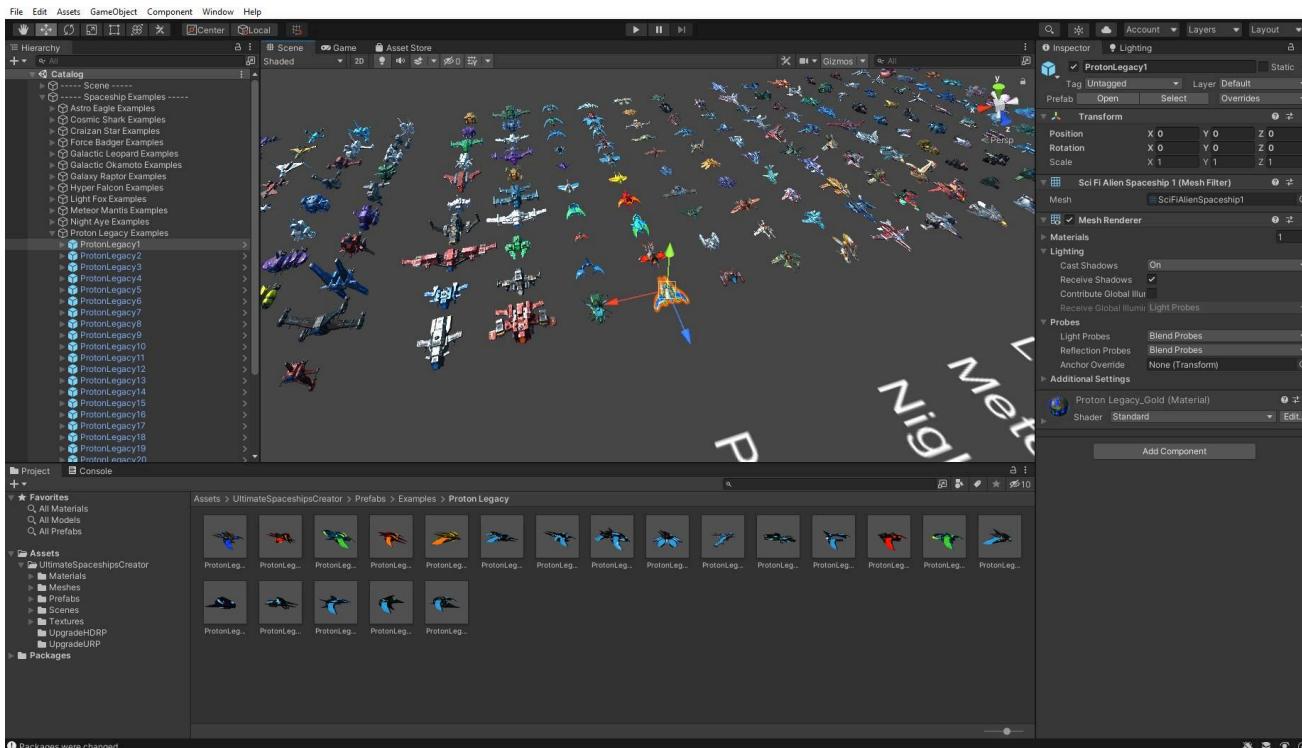
Features

- URP & HDRP compatible.
- 18 different Modular Spaceship sets.
- 386 Spaceship examples.
- 10 color variations for each spaceship.
- 2K Albedo, Metallic/Smoothness, Normal and Emission maps for all spaceship sets. (Capital ships have 4K maps.)
- Bonus items included in this collection: Arcade Style Spaceships and Flying Insects for use in any arcade style games.
- [Access More 4K Textures, color masks and PSD files.](#)

Once you purchase the USC, you will be able to get the Bonus files containing additional 4K textures, color masks and PSD files for free here: <http://u3d.as/2Abs>

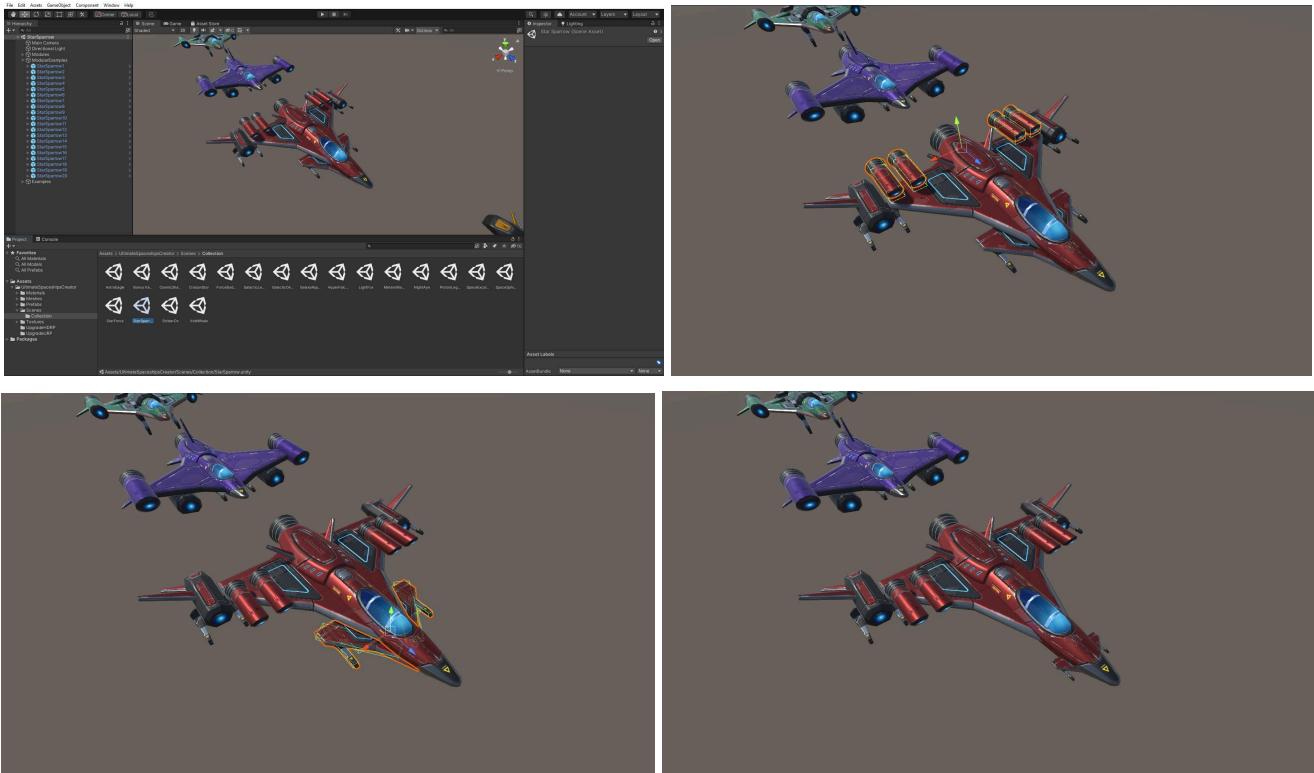
Getting Started

To start, simply open up the spaceships or capital spaceships scenes and have a look at all the available ships, and make your pick of any spaceship that you feel will suit the style of your game. You can also easily see all possible colors to pick from which you can assign to your selected example.

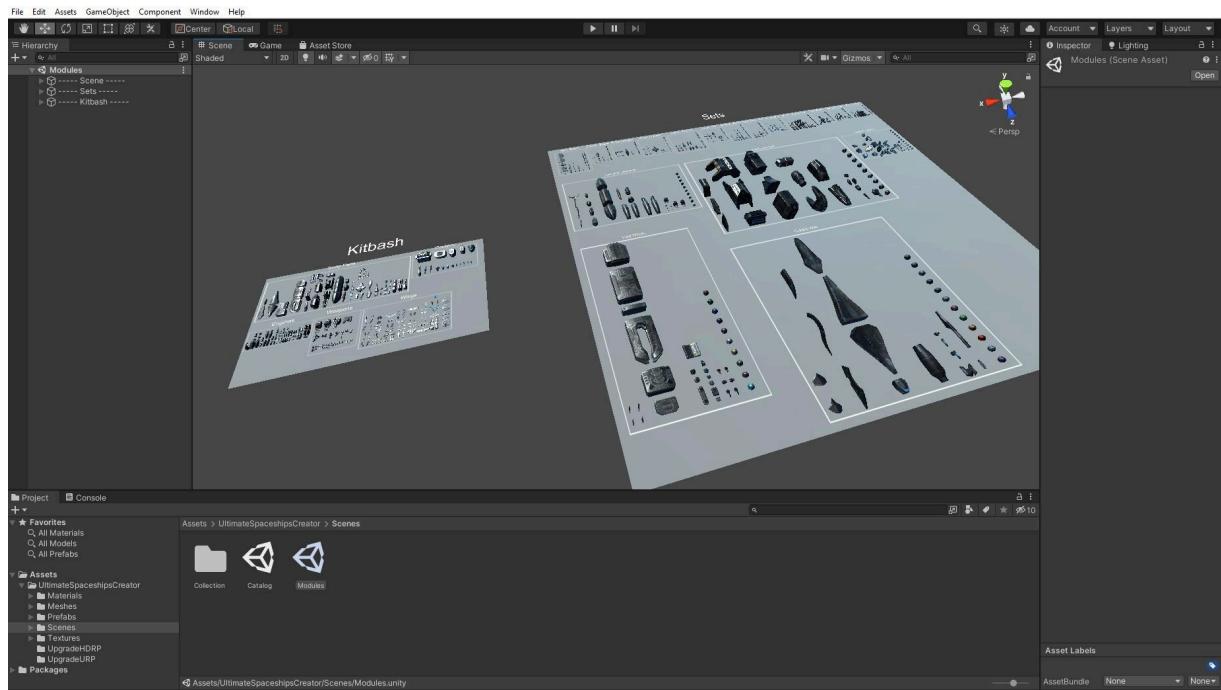


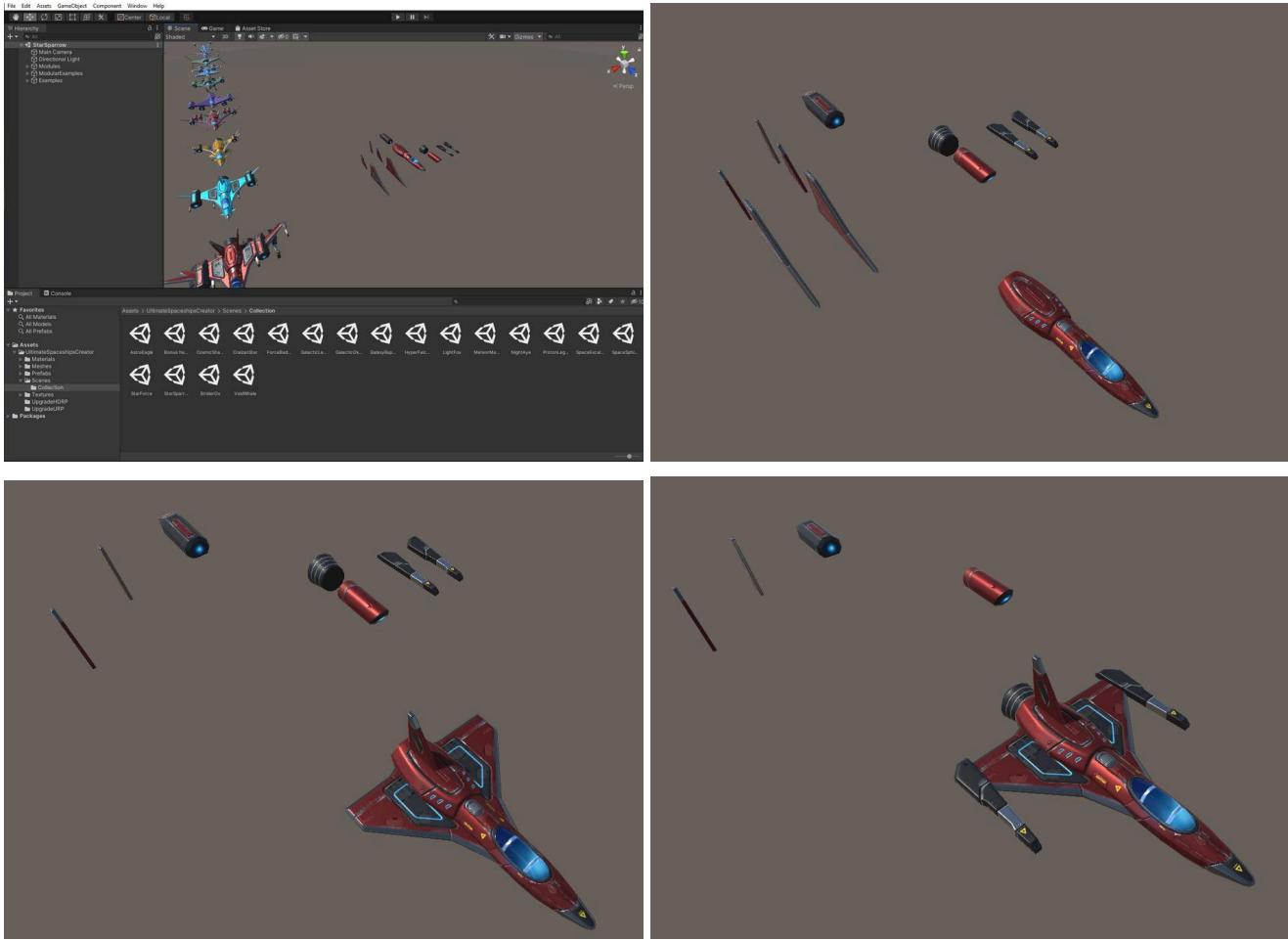
Build Your Spaceships

You can build your own spaceships by quickly modifying the modular examples located in each spaceship set scene.



In Addition, you can also assemble your own spaceship from scratch by opening up the modules scene or the scene for each spaceship and move/rotate/scale and duplicate the modules until you have something you are happy with.





Of course it helps if you already know how the spaceship you want to build looks like or if you have previously studied many concept designs of spaceships, but in practice you really do not have to be exact or have a plan when creating your very own spaceship! The beauty about our modular approach is that you can randomly move, rotate and scale parts and get something that looks as if it was intentional! After all it's a futuristic spaceship, who knows what it's supposed to look like!

For practical example on how to build a spaceship, including how to improve performance by assembling one in Blender and exporting as a single mesh you can check the USC Overview Video here:

<https://youtu.be/QIfcGT34oec&t=197>

Contents

Folder Structure

The folder structure is simple and straightforward, the main folders are:

- Materials
- Meshes
- Prefabs
- Scenes
- SRP
- Textures

One thing to note though, because there are 18 spaceship sets, each spaceship set content has its own sub-folder, otherwise you will have 300 spaceship prefabs all lumped in the same prefabs folder! But this means it's always better to first open up the spaceships or capital spaceships scenes to know the name of the spaceship set you want to work with, then open up its scene inside the collection folder or use its prefabs after learning its name.

Prefabs

The prefabs folder contains: Examples, Modular Examples, Modules and Bonus Items.

The modules located inside the Modules folder are the parts you can use to build your own spaceship, you can drag and drop these into a new scene or simply access them from the modules scene or each spaceship set scene from the collection folder.

Examples vs Modular Examples

The examples and the modular examples may look the same but they have a very important distinction, namely an example is made up of a single joined mesh while a modular example is made up from prefab modules.

The examples are more performant than the modular examples because they are a single mesh, while the modular examples are made up of many modules which will cost more draw calls. But the modular examples have the advantage of giving you the ability to move the modules around and effortlessly change how your spaceship looks like.

SRP

This collection, like all of our assets, can be easily upgraded into URP or HDRP by importing the pack into a URP or HDRP project and upgrading the materials using Unity's standard material upgrade button.

To make it easier, we have also added pre-made upgrade options that in the case of URP simply upgrades the materials, and in HDRP will upgrade the materials and change the scenes to adjust the lighting settings.

Materials & Textures

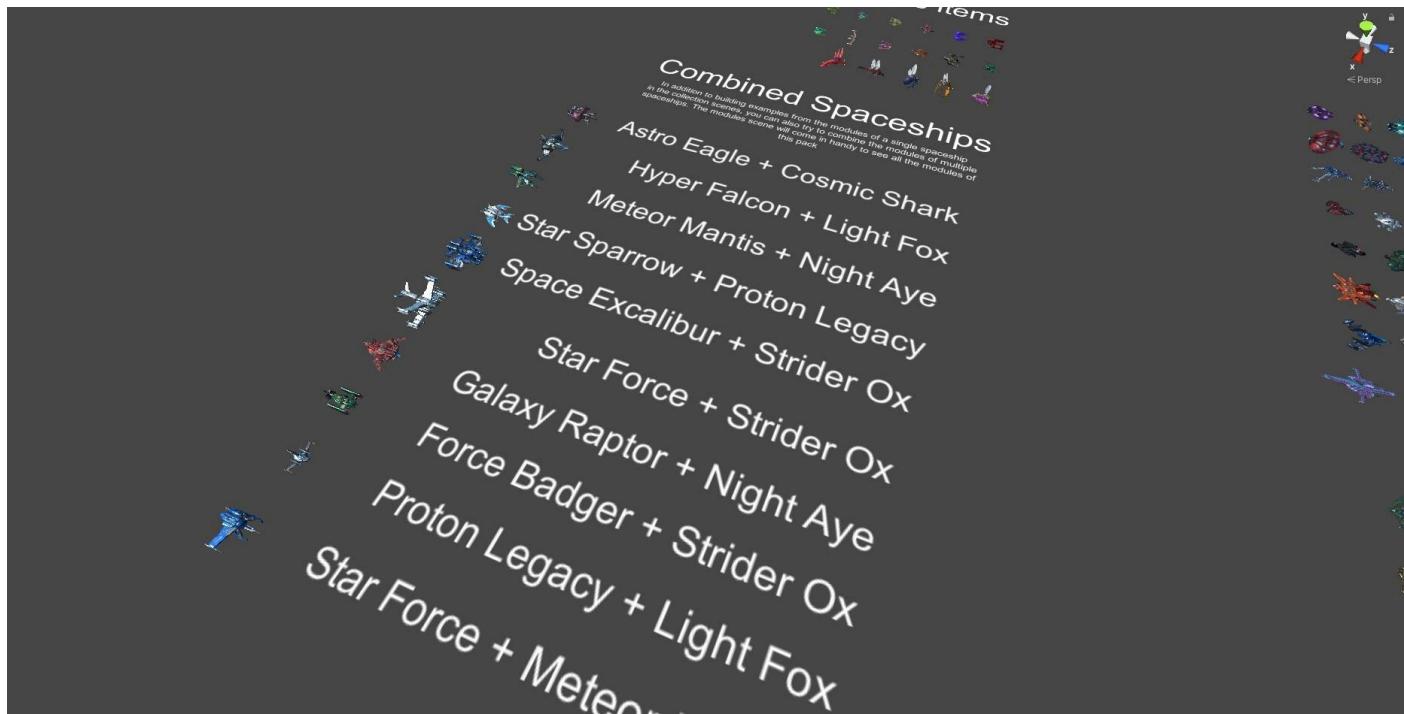
Inside every materials folder, you will find that you always have 6 core materials in the base folder and more inside a folder called "Extra".

The first 6 core materials (red, green, blue, purple, grey and white), are compatible and have the exact color tone throughout this collection and also with some of our other assets namely:

- [Space Stations Creator](#)
- [Modular Weapons and Turrets](#)
- [Alien Modular Space Stations](#)
- [Modular Warp Gates](#)
- [Ground Units and Tanks Creator](#)

Note: Our other packs: the [Hi-Rez Spaceships Creator](#) and [Hover Racers](#) have unique material colors that do not match with anything else.

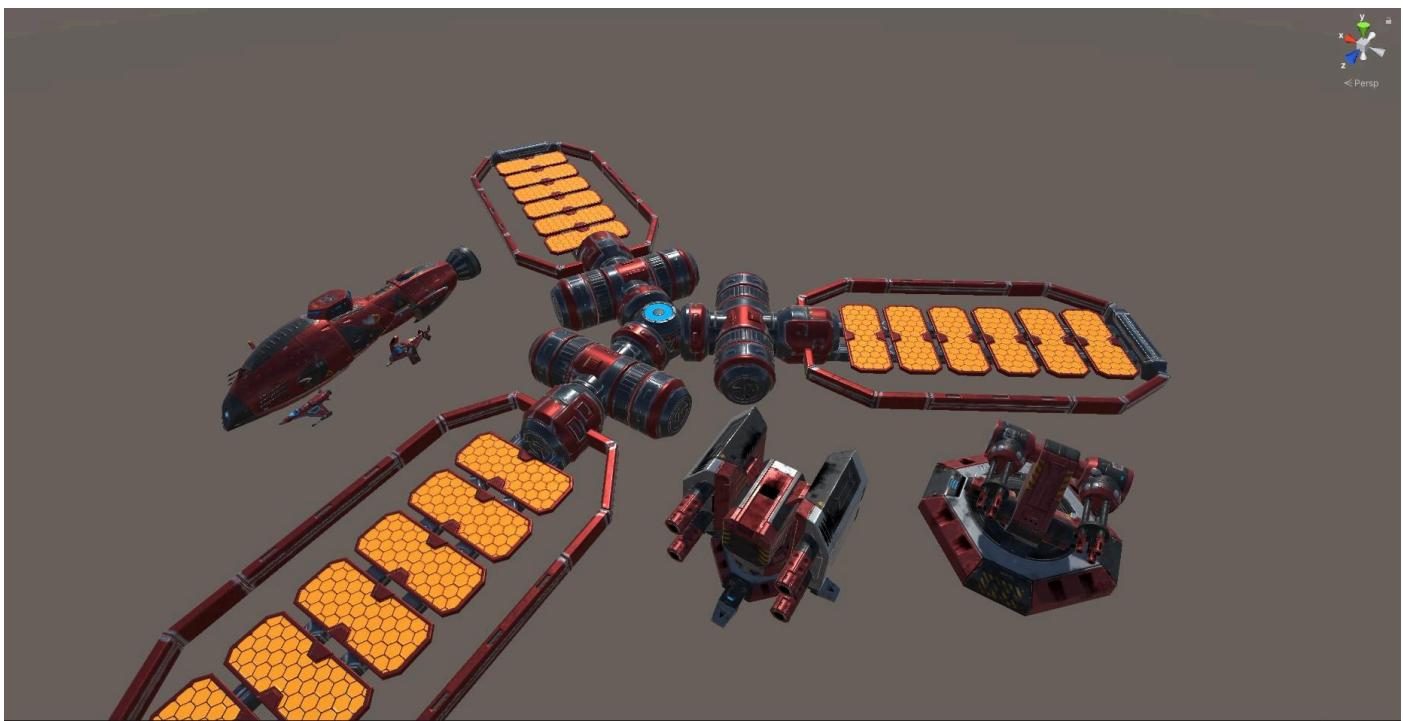
Compatible core colors are perfect for using modules from different spaceship sets and combining them together to make an example similar to the combined spaceships in the catalog.



This also means that you can for example use a red Star Sparrow with a red Force Badge with a red Galactic Okamoto and they will all appear as if they are from the same faction.



And if you buy some of our other packs, you could add a red Space Station and red modular sci-fi weapons and it will all match perfectly!



Extra colors are unique colors that give extra variety for each spaceship set.

Bonus Files Pack

After you have purchased the Ultimate Spaceships Creator, you will get free access to its accompanying **Bonus Files Pack**: <http://u3d.as/2Abs>

The Bonus Files Pack contain three types of files:

- Additional 4K textures.
- Texture color masks.
- PSD files.

These files have been separated from the Ultimate Spaceships Creator (USC) to save size, make it easier and faster to import the USC and improve overall performance.

Additional 4K Textures

These are the 4K textures for the smaller spaceships which are at 2K in the USC collection. The capital ships (Galactic Leopard, Galactic Okamoto, Craizan Star and Void Whale) are already at 4K resolution in the USC.

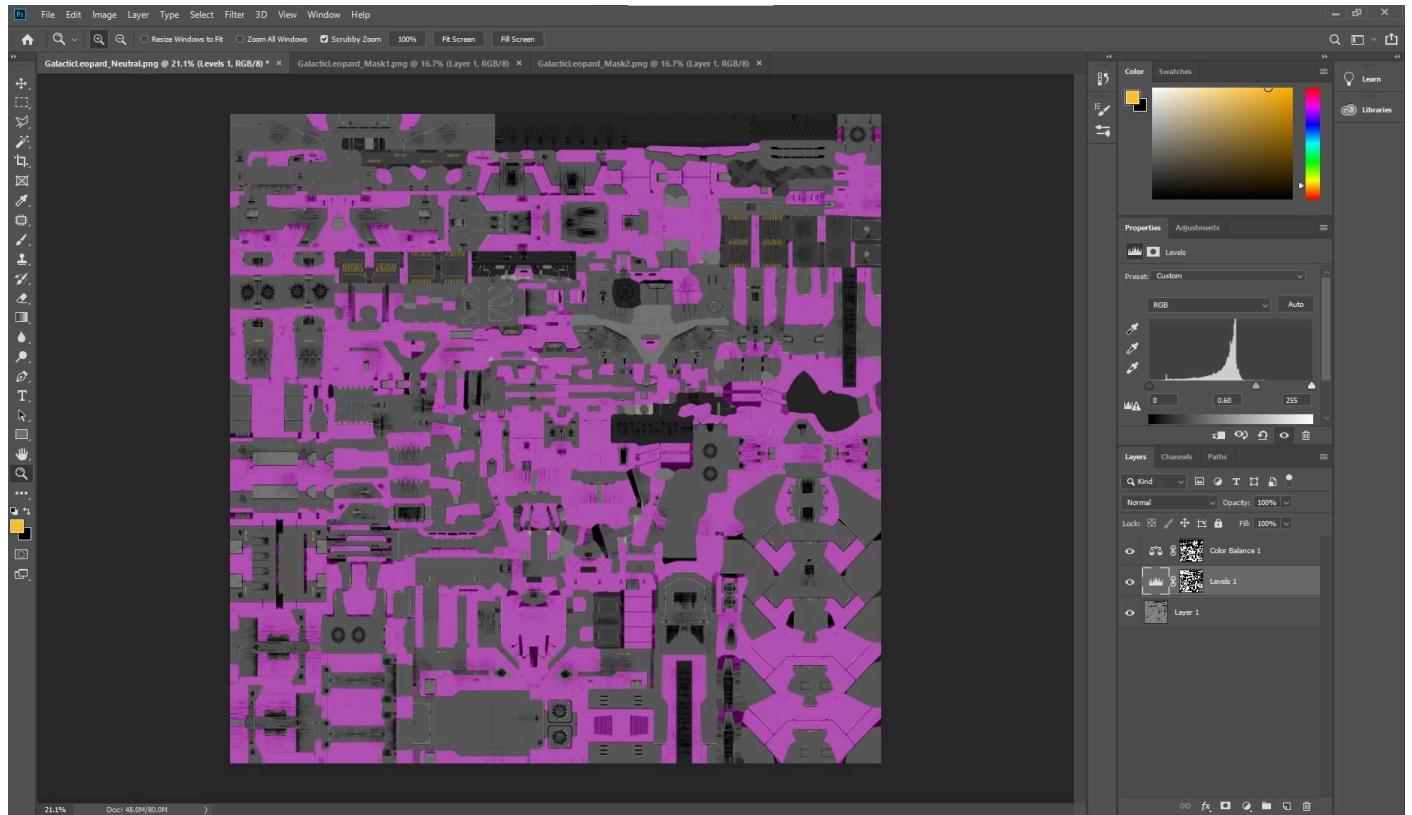
You can copy those textures and replace the existing 2K ones in the Ultimate Spaceships Creator textures folder. After you replace the files, please make sure that the "Max Size" is set to 4096 (which you can find by clicking on any texture)

Please note that depending on your game graphics and gameplay resolution, it might not be necessary to use these 4K textures, the existing 2K ones are most likely to be sufficient. All the smaller spaceships have been designed to be at a 2K resolution.

Using 4K textures for all spaceships and having them in your project files throughout your build will make everything slower. Alternatively you can copy only the textures you need for your hero spaceships for example.

Texture Color Masks

If all the provided materials are not enough and you wish to create your own colors; we have also included texture masks. These can be used in Photoshop, your favorite photo editing software or using shader graphs or scripting.



A Photoshop tutorial is beyond the scope of this documentation but if you are new to this you can always look up Photoshop tutorials on how to use masks or change colors. Simply put, you can just copy and paste the mask into the channel of your color adjustment filter or layer.

A very quick example of modifying the textures using masks in Photoshop can be viewed in the USC Overview video here: <https://youtu.be/jp8MoHkCFHg?t=87>

If you are a developer and you create your own custom tools or scripts to change colors interactively, these masks can also be used in that capacity to perhaps allow the player in your game to pick his/her own spaceship color.

PSD Files

Pre-prepared PSD files have also been provided to give an easy way to change colors or show an example of how to use masks.

Spaceship Sets

If you have already tried the Star Sparrow spaceship then you are familiar with one spaceship set, this collection is made up of 18 different spaceship sets.

Each spaceship set is basically a group of modules which use the same texture and demonstrate a different design concept.

Style and in some instances quality may differ from one spaceship set to the next, this is caused by the fact that different artists worked on this collection and due to our improvement after creating several sets and getting feedback from the user base. Our latest spaceship sets are the Galactic Leopard, Star Force and the Galactic Okamoto. We tried to push the limits in terms of quality in our latest content.

You can view further details and images of these spaceship sets in [our Unity Asset Store's page](#).

1-Astro Eagle

The Astro Eagle is an alien styled spaceship with saucer like wings, it comes with 2 completely different materials, one is alien sci-fi themed, and the other with a close resemblance of the collection spaceships so you can easily use its parts with the other spaceship sets if need be. The fact that 2 different material styles are provided means you get to choose from a total of 25 materials!! This spaceship is also compatible with the alien modular space stations pack.

20 examples, 18 modules and 25 materials.

2-Cosmic Shark

Named after its shark-like gills, the Cosmic Shark is a spaceship inspired by fighter jets with reverse wing designs. This had a complete remake in version 3.6

20 examples, 9 modules and 11 materials.

3-Craizn Star

An Alien styled capital ship which can also be used as a corvette sized spaceship, A unique design direction inspired by insect forms. The material is compatible with the alien modular space stations pack.

20 examples, 15 modules and 12 materials.

4-Force Badger

Wingless design influenced by attack helicopters. This was completely remade in V3.9 and has good resolution and modules layout and design.

20 examples, 9 modules and 9 materials.

5-Galactic Leopard

A large capital ship with high quality texturing, the design also allows for building transport ships. The module includes a bridge, what looks like a futuristic container and a turret. This is the only spaceship which uses 2 texture sets in order to increase the resolution (Main and Parts).

40 examples, 20 modules and 9 materials.

6-Galactic Okamoto

Created for version' 3 update. Design took its reference from large submarines and Japanese sci-fi anime. This comes with a turret. Texturing is optimized and uses mirrored UVs whenever possible to increase texture quality along with a unique plated appearance across the texture.

20 examples, 15 modules and 10 materials.

7-Galaxy Raptor

The Galaxy Raptor has had a complete remake in version 3.1, every modular part was redesigned to make it easier to build examples and to raise the quality of the textures, it's currently one of our best small fighter spaceships, it also uses a subtle gradient effect in its texture to increase variety.

20 examples, 19 modules and 10 materials.

8-Hyper Falcon

The Hyper Falcon and Light Fox share similar characteristics in regards to design approach and are themed after futuristic fighter jet styles. Complete remake in Version 3.5

20 examples, 10 modules and 11 materials.

9-Light Fox

Inspired by Formula 1 racing cars, the recent remake of this spaceship in Version 3.2 has improved the quality considerably making it suitable as a hero spaceship.

20 examples, 10 modules and 10 materials.

10-Meteor Mantis

Completely remade in Version 3.3, this spaceship has a wingless design approach making good use of mirrored UVs to increase the texture resolution.

20 examples, 10 modules and 10 materials.

11-Night Aye

The Night Aye is a highly modular spaceship, its modules have basic forms which make them quite easy to use and reuse in different designs. Its texture painting style is reminiscent of army camouflage paint.

20 examples, 10 modules and 11 materials.

12-Proton Legacy

An alien fighter spaceship that has materials which are compatible with the alien modular space stations pack with very unique organic depiction. Complete remake in Version 3.8 which made this spaceship a much higher resolution spaceship with much more modularity.

20 examples, 9 modules and 11 materials.

13-Space Excalibur

A very rugged and blocky configuration are the main characteristics of the Space Excalibur. Comes with plenty of modules to pick from, a gatling gun and a rocket launcher.

20 examples, 21 modules and 12 materials

14-Space Sphinx

The Space Sphinx is quite different from the other sets and which is now included as a bonus content. This was designed mainly for shmup/arcade games where you see things from top view or as a boss in a shmup/arcade game and would not function very well up close in other types of games.

8 examples, 17 modules and 11 materials.

15-Star Force

Star Force was added in version 3.0, a small fighter spaceship. The design was mainly intended for non atmospheric flight and its examples are unequaled in the rest of the sets. The modules layout is very efficient and texture space has been optimized to the maximum limits possible.

20 examples, 8 modules and 10 materials.

16-Star Sparrow

This remains to be one of our most favorites, this was the set that started the whole collection going. A simple and straightforward design that will work with most people's game concepts.

20 examples, 8 modules and 10 materials.

17-Strider Ox

The Strider Ox is a wingless small spaceship that offers a new variety to the collection.

11 examples, 8 modules and 10 materials.

18-Void Whale

This ship was also updated in version 3.1, it was actually a complete remake with new UVs and baked normal maps but we kept the original modules design to the original. This capital ship design is somewhat angular and based on large modular sections, reminiscent of carrier ships. Our most favorite capital ships are still the Galactic Okamoto and the Galactic Leopard, but this design can still add an interesting twist to your game.

9 examples, 21 modules and 10 materials.

If you are interested in carriers you might want to check out our latest [Space Stations Creator](#) which has parts and an example which may double as a crude carrier spaceship.

Bonus Content

14 Generic spaceships and 5 insects, this has been added as an aid for anyone who might be building an arcade or shoot 'em up game. These are not modular and the texture resolution and polycount have been optimized for their simple use.

Update History

Version 4.0

- Complete Galactic Leopard remake to improve texture quality and modularity. The Galactic Leopard spaceship now uses 2 texture sets instead of one and has 40 examples instead of 20.
- Scenes reorganization. The "Catalog" scene is now split into "Spaceships" and "Capital Spaceships" to facilitate navigation. "Modules" scene has been reorganized.

Version 3.11

- Complete Strider Ox remake to improve modularity and texture quality.

Version 3.10

- Complete Night Aye remake to improve texture quality.

Version 3.9

- Complete Force Badger remake to improve texture quality and modularity.

Version 3.8.1

- Increased the mesh resolution of the Galactic Okamoto and improved its examples' colliders.
- Bonus files now have all masks possibly needed and pre-prepared PSD files.
- Complete Proton Legacy remake to improve texture quality and modularity.

Version 3.7

- Complete Star Sparrow remake to improve texture quality.

Version 3.6

- Complete Cosmic Shark remake to improve texture quality.

Version 3.5

- Complete Hyper Falcon remake to improve texture quality and modularity.

Version 3.4

- Added and moved non capital ships 4K textures and the color masks into the Bonus Files pack.
- Version 3.3
- Complete Meteor Mantis remake to improve texture quality and modularity.

Version 3.2

- Complete Light Fox remake to improve texture quality and modularity.
- Combined spaceship examples are now made from prefab instances.

Version 3.1

- Complete Galaxy Raptor remake to improve texture quality and modularity.
- Improved Void Whale textures quality.
- Modular examples are now made from prefab instances.
- Removed any negative scale values used in the modular examples to improve collision performance.
- Improved some of the colliders for the spaceships.

Version 3.0

- Added 2 spaceship sets: The Galactic Okamoto and Star Force.
- Improved the textures to be more compatible with URP and HDRP.
- Added HDRP upgrade option
- Added one more unified color to all spaceship sets. (All unified colors are now inside the standard materials folder and non unified colors are under the extra materials folder)
- Added pre-mirrored ship modules.
- Added examples.
- Added 6 more bonus generic spaceships.
- Every example is now a single FBX file.
- Reorganized the collection and modules kitbash.
- Increased Craizan Star Textures to 4K.

Version 2.6

- Increased the resolution of spaceship textures from 1K to 2K and from 2K to 4K.
- Added URP upgrade option.

Version 2.5

- Rebuilt all the modular examples from modules to improve performance.
- Closed gaps in the modules to give bigger flexibility in the way you assemble your spaceship.
- Optimized the package size.
- Added colliders to the modules and modular examples.

Version 2.1

- Added texture colors masks to easily change colors inside Photoshop or script.
- Changed the albedo maps of the Light Fox, Space Excalibur and Astro Eagle to enable changing the emission color.

- Bonus flying insects now have separate wing meshes to enable animation.

Version 2.0

- Added Astro Eagle, Galactic Leopard and Craizan Star spaceship sets. (Capital ships and alien spaceships based on developers' requests.)
- Added unified materials for all spaceships to enable different spaceships combinations or unified faction colors.
- Increased spaceship examples to 226!
- Added spaceship colors.
- Improved the catalog and modules scene to better navigate through the different spaceships.
- Added simple colliders to the examples.
- Recreated the Alien Sci-Fi spaceship substance painter file to be able to include it with the pack.
- Changed the scale to real world scale.
- Added 2 space backgrounds for previewing the spaceships.

Version 1.6

- Added Substance Painter files.
- Changed modular examples pivot point.

Version 1.5

- More than doubled the number of example ships!
- Added 2 different colors per spaceship.
- Added Sci-Fi Alien spaceships to the collection.
- Added 2 Bonus items: arcade generic spaceships and flying insects. (Note: flying insects are only added as a free bonus to use inside an arcade themed space shooter game, the wings are not rigged for animation!).
- Improved textures: the textures are now much more unified and of a higher quality. WE HAVE COMPLETELY RE-TEXTURED ALL OF THE SHIPS adding details in the process. we hope you can notice the quality improvement.
- Unified all metallic/smoothness values for all of the textures so that the assets are more unified inside your game.
- Added text next to each spaceship so you can easily know the spaceship's name and look it up in the folders.
- Changed naming conventions and folder organization. Now it's easier to know which material belongs to which asset and you can grab the spaceship's example prefabs more quickly, the modules prefabs are named after the spaceship's title.
- All albedo textures are now viewable inside Photoshop.
- Updated the FBX files inside the meshes folder.
- Added all of the spaceships examples in modular form as well as the single GameObject form.

Need Help?

You can send an E-mail to: info@ebalstudios.com or if you have Discord you can also join our servers here:
<https://discord.gg/G9HW7tst7x>

Need more 3D art for your awesome sci-fi game?

- Space Stations Creator (*A GREAT MATCH FOR THE ULTIMATE SPACESHIPS CREATOR!*)
- Polygon Spaceships Creator
- Warp Gates
- Weapons and Turrets
- Ground Units and Tanks Creator
- Hover Racers
- Pickup Items
- Planets

Or higher resolution spaceships with cockpits?

- High-Rez Spaceships Creator



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Thank you for your purchase!