



DUGOUT



POWER-UPS



BASE



COLONY



HANGARS

HEAVY STATION KIT

GUIDELINES
2022

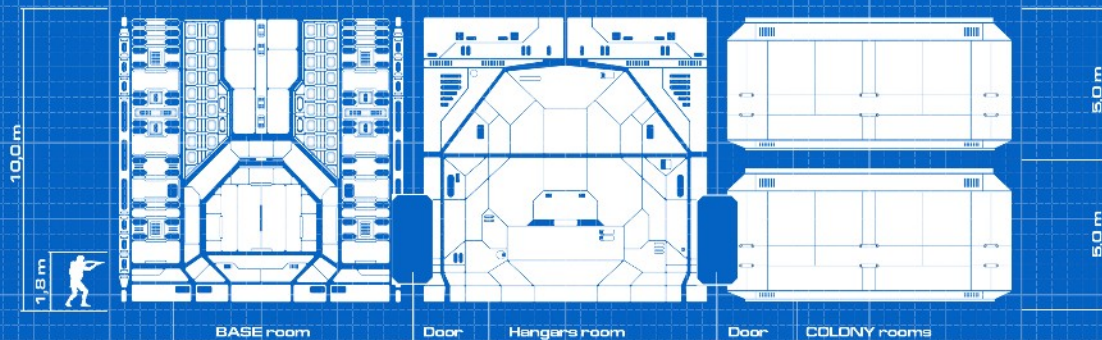
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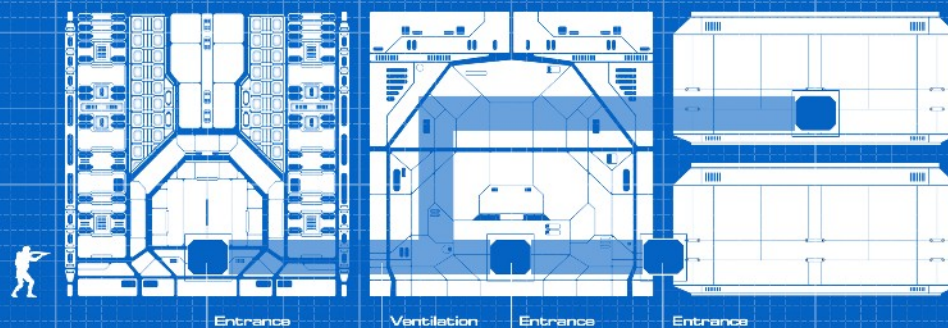
1

Heavy Station Kit - Base, Hangars, Colony Combination

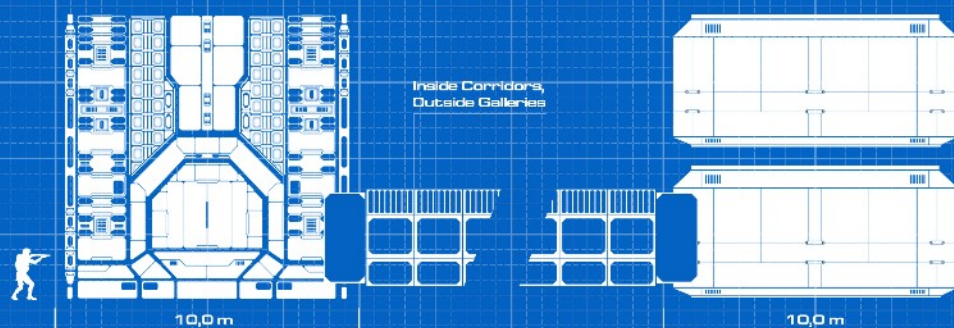
1. AUTOMATIC DOORS (base, hangars, colony)



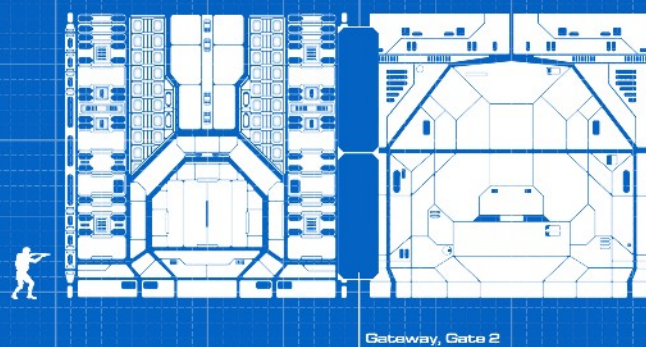
2. VENTILATION SYSTEM (colony)



3. CHANNELS & OUTSIDE GALLERIES (base, colony)



4. INTERACTIVE GATES (hangars)



5. ELEVATORS (colony, hangars)

P1 HSKC-BHC

HEAVY STATION KIT

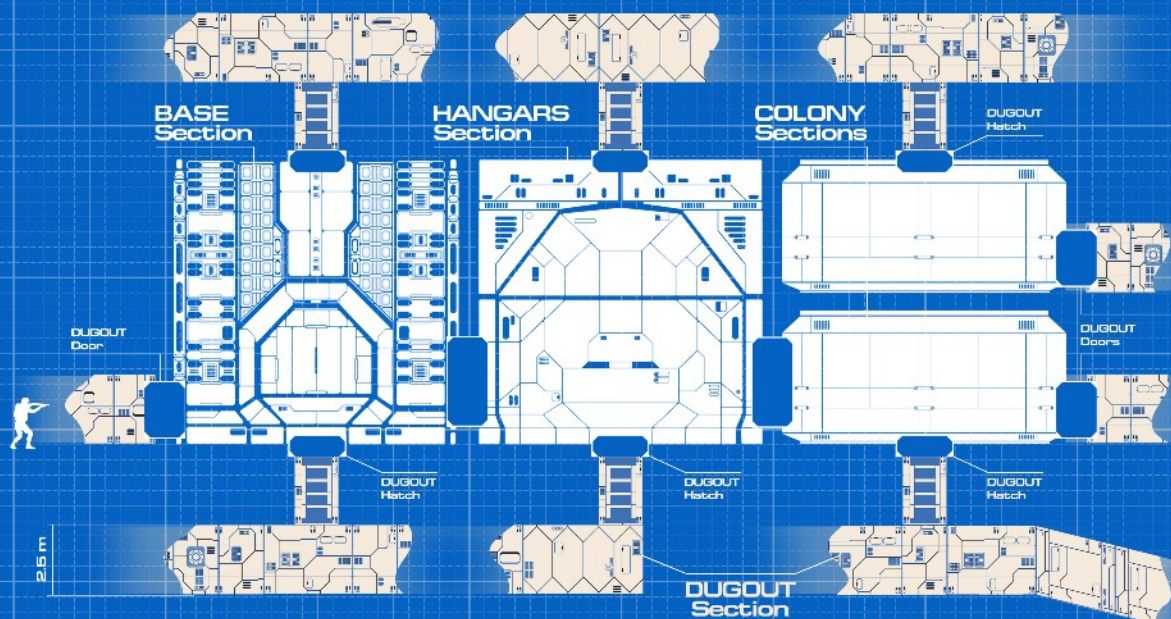
BASE
HANGARS
COLONY
DUGOUT

2.50.R132

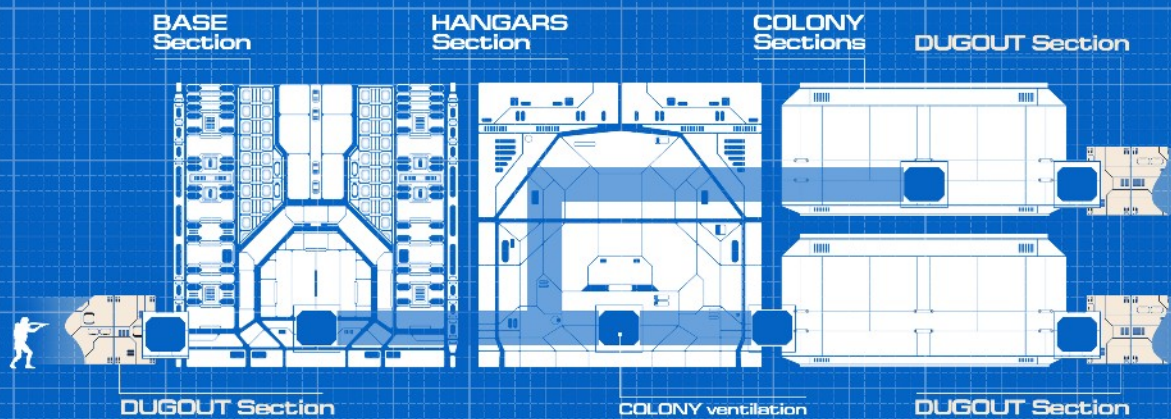
2

Heavy Station Kit BASE - HANGARS - COLONY - DUGOUT Combination

1. DUGOUT Additional Transitions (Base, Hangars, Colony)



2. COLONY VENTILATION SYSTEM (Dugout Supporting)



Base, Hangars, Colony Sections Dugout Sections

P2 HSKC-DGT
**HEAVY
STATION
KIT**
BASE
HANGARS
COLONY
DUGOUT
1.00.R38

Heavy Station Kit PACKAGES COMPARISON

Availability of the unique Elements and Acceptance of the other Packages

CORE CONSTRUCTION

	BASE	HANGARS	COLONY	DUGOUT
Floors	Unique Eligible for Hangars & Colony Accepting Hangars & Colony	Unique Eligible for Base & Colony Accepting Base & Colony	Unique Eligible for Base & Hangars Accepting Base & Hangars	Unique
Walls	Unique Eligible for Hangars Accepting Hangars	Unique Eligible for Base Accepting Base	Unique	Unique
Arches	Unique Eligible for Hangars Accepting Hangars	Unique Eligible for Base Accepting Base	Unique	Unique
Outside walls (top-down theme)	Unique Eligible for Hangars & Colony Accepting Hangars & Colony	Unique Eligible for Base & Colony Accepting Base & Colony	Unique Eligible for Base & Hangars Accepting Base & Hangars	Vacant
Supports	Unique Eligible for Hangars Accepting Hangars	Unique Eligible for Base Accepting Base	Vacant	Unique
Partitions2	Unique Eligible for Hangars	Vacant Accepting Base	Vacant	Vacant
Perimeter Fence	Unique Eligible for Hangars, Colony & Dugout Accepting Hangars & Colony	Unique Eligible for Base, Colony & Dugout Accepting Base & Colony	Unique Eligible for Base, Hangars & Dugout Accepting Base & Hangars	Vacant Accepting Base, Hangars & Colony

TRANSITION FACILITIES

	BASE	HANGARS	COLONY	DUGOUT
Doors	Unique Eligible for Hangars & Colony Accepting Hangars, Colony & Dugout	Unique Eligible for Base & Colony Accepting Base, Colony & Dugout	Unique Eligible for Base & Hangars Accepting Base, Hangars & Dugout	Unique Eligible for Base, Hangars & Colony
Gates	Vacant Accepting Hangars	Unique Eligible for Base	Vacant	Vacant
Gateways	Vacant Accepting Hangars	Unique (10x10 and 20x10 meters) Eligible for Base	Vacant	Vacant
Ventilation	Vacant Accepting Colony	Vacant Accepting Colony	Unique Eligible for Base, Hangars & Dugout	Vacant Accepting Colony
Stairs	Unique (10 meters for Floor) Eligible for Hangars & Colony	Vacant (10 meters for Floor) Accepting Base	Unique (5 meters for Floor) Accepting Base	Unique (2.5 meters for Floor)
Ladders	Unique (10 meters for Floor) Eligible for Hangars & Colony Accepting Hangars, Colony & Dugout	Unique (Small Garage Ladder) Eligible for Base & Colony Accepting Base, Colony & Dugout	Unique (Swimming Pool Ladder) Eligible for Base & Hangars Accepting Base, Hangars & Dugout	Unique (2.5 meters for Floor) Eligible for Base, Hangars & Colony
Elevators	Vacant Accepting Hangars & Colony	Unique (10 meters for Floor) Eligible for Base & Colony Accepting Colony	Unique (5 meters for Floor) Eligible for Base & Hangars Accepting Hangars	Vacant
Channels	Unique Eligible for Hangars & Colony	Vacant Accepting Base	Vacant Accepting Base	Vacant
Galleries	Vacant Accepting Colony	Vacant Accepting Colony	Unique Eligible for Base & Hangars	Vacant
Ceiling & Floor Entrances	Vacant Accepting Dugout	Vacant Accepting Dugout	Vacant Accepting Dugout	Unique Eligible for Base, Hangars & Colony

Other Themes of the Prefabs
(Equipment, Furniture, Decorations, Objects, Props, etc.)
can be used in any of the Packages:
Base, Hangars, Colony and Dugout

PREFABS

General Information

The side and the height of the smallest cell or room possible is 10 metres (only the COLONY has 5m ceiling height).
If the scene is new, for just snapping the prefabs, we do recommend start building at the position $x(0) - y(0) - z(0)$.

When you do this, most of the prefabs will appear right at their place. Some regular edits at the building of the cell:

- Walls and the like may be duplicated and rotated into the desired position
- The arches and doors will require 5m adjustment to the desired direction
- If the Top-Bottom prefab is placed at the ceiling, then it should have 10 metres offset by Y (5 meters for COLONY), 180 rotation by Z or X

At building the second cell there is 10 metres offset, because the side of the cell is 10 metres. So it is possible just duplicating the existing prefabs that are close to the position, and setting the required offset.

The Heavy Station Kit AUGMENTED Packages (Base+Hangars+Colony+Dugout+Power-UPs) has **1790** Prefabs.

The Heavy Station Kit Packages (Base+Hangars+Colony+Dugout) has **1187** Prefabs.

The Heavy Station Kit dugout AUGMENTED comes with **152** Blueprints.

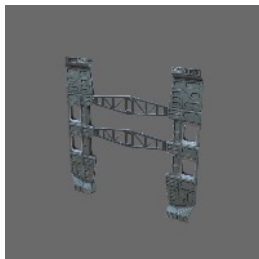
The Heavy Station Kit dugout comes with **110** Blueprints.

Heavy Station Kit BASE Prefabs

The Heavy Station Kit base 2.50 AUGMENTED has **318** Prefabs:

The Heavy Station Kit base 2.50 has **195** Prefabs:

5m Snap Value Overall



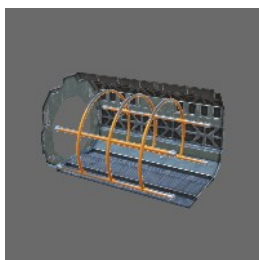
Prefabs	Tris (LOD 0)	Colors	Notes
18 7	450 – 2316	5	<i>Customize the color of the vertical elements.</i>

ARCHES

Position
X 5
y 0
z 5

Offset
X 10
Y 10
Z 10

There are intentional gaps between the walls. Arches do fill these. Also they may work as visual strengthening of the level.



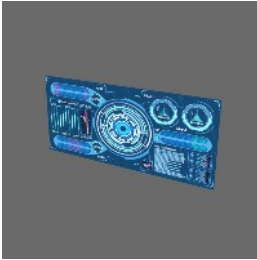
Prefabs	Tris (LOD 0)	Colors	Notes
19 8	660 – 2270	5	<i>Customize the color of the main elements of the walls.</i>

CHANNELS

Position
X 0
y 0
z 0

Offset
X 10
Y 10
Z 10

The corridors between the rooms and/or a web of tunnels.



DISPLAYS

Prefabs	Tris (LOD 0)	Colors	Notes	Position
26 19	2 – 18	1	Each screen has its own independent material. However there are the same in size screens, so You may exchange their materials.	Free

The Displays are possible to place on every appropriate surface, for example the walls. All Displays Prefabs are included in the Equipment Prefabs. The screens are animated.



DOORS

Prefabs	Tris (LOD 0)	Colors	Notes	Position
15 7	4 – 920	1		Position X 5 y 0 z 5 Offset X 10 Y 10 Z 10

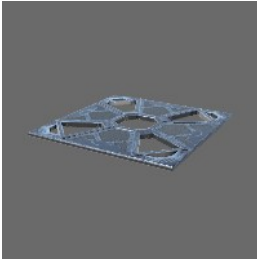
The Doors and Energy Gates for inside and outside. The special floor piece for the transport to move over. The railings are also available for the free positioning.



EQUIPMENT

Prefabs	Tris (LOD 0)	Colors	Notes	Position
29 14	76 – 6160	5	Customize the color of the band of the stands.	Free

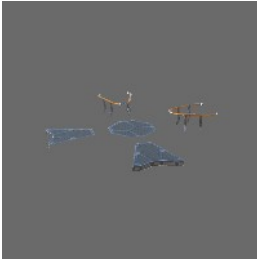
The Digital Equipment – from the little boxes, to the tables and the controlling door consoles – all with the animated displays. On how to setup consoles, please refer to “the Door and Consoles Setup”, in this documentation



FLOORS

Prefabs	Tris (LOD 0)	Colors	Notes	Position
31 19	128 – 592	1		Position X 0 y 0 z 0 Offset X 10 Y 10 Z 10

The different variations of the floors (and ceiling) pieces for small and large rooms. If the building is one-story-tall, pick the one-sided piece to save on triangles.

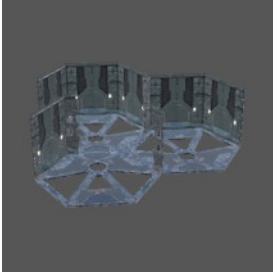


Prefabs	Tris (LOD 0)	Colors	Notes
37 22	6 – 17804	1	

FLOORS FILL

Position
X 0
y 0
z 0
Offset
X 10
Y 10
Z 10

Plan the floors and ceilings in Your scene. Whether it be total fill of the surface, or some clear parts with railings, or the center piece removed for placing the ladder.



Prefabs	Tris (LOD 0)	Colors	Notes
5 0	3240 – 3840	1	

HEXA & PENTA ROOMS

Position
X 0
y 0
z 0
Offset
X 10
Y 10
Z 10

Vertical climbing on the walls outside or the ladder into the storage room. And who know where else these will simplify the way.



Prefabs	Tris (LOD 0)	Colors	Notes
2 1	3240 – 3840	1	

LADDERS

Position
X 0
y 0
z 0
Offset
X 10
Y 10
Z 10

Vertical climbing on the walls outside or the ladder into the storage room. And who know where else these will simplify the way.



Prefabs	Tris (LOD 0)	Colors	Notes
7 7	1420 – 3192	5	Customize the color of the warning stripes.

PARTITIONS

Position
X 0
y 0
z 0
Offset
X 10
Y 10
Z 10
or Free

Made for the visual zoning of the room, Partitions may be placed using the recommended position or freely.



PARTITIONS 2

Prefabs	Tris (LOD 0)	Colors	Notes	Position
15 14	782 – 5526	5	Customize the color of the vertical elements and the pipes itself.	Position X 0 y 0 z 0 Offset X 10 Y 10 Z 10

Many Partitions 2 has horizontal and vertical pipelines. It enhances the industrial or bunker feeling, where appropriate.



PIPELINE

Prefabs	Tris (LOD 0)	Colors	Notes	Position
8 0	1336 – 1696	5	Customize the color of the pipes.	Free

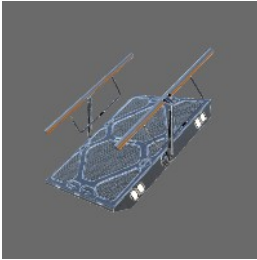
Pipe alone, for making Your own pipelines. So it is possible combining them in length, making the lines of pipes for positioning for example horizontally along the walls.



PROPS

Prefabs	Tris (LOD 0)	Colors	Notes	Position
6 6	1948 – 4340	5	Customize the color of the painted elements of the boxes and barrels.	Free

Boxes, Barrels and Tanks for free positioning.



STAIRS

Prefabs	Tris (LOD 0)	Colors	Notes	Position
42 31	44 – 3146	1		Position X Free Y 0 Z Free Offset X 2 Y Free Z 2

The most hard asset for placing is the Stairs prefab. It require vertical adjustment by Y. But horizontal offset is 2m. With independent pieces of the prefab Stairs, it is possible making not only the way up, but also various platforms and transitions with crossings.



Prefabs	Tris (LOD 0)	Colors	Notes
4 4	656 – 2624	1	

SUPPORT

Position
X 0
y 0
z 0

Offset
X 10
Y 10
Z 10

Made to look strong, they enhance the feel of heaviness and safety of the construction. It is possible not to use Support prefab.



Prefabs	Tris (LOD 0)	Colors	Notes
5 3	3550 – 5472	1	

TOP-BOTTOM

Position
X 0
y 0
z 0

Offset
X 10
Y 10
Z 10

The little details does matter. Placed at the floor/ceiling, Top-Bottom prefab is meant for enhancing the atmosphere, telling the different stories – like the area under maintenance or technical zone.



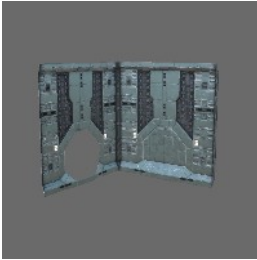
Prefabs	Tris (LOD 0)	Colors	Notes
22 8	68 – 1184	1	

TOP-DOWN

Position
X 0
y 0
z 0

Offset
X 10
Y 10
Z 10

Outside-styled walls and closing elements to make a scene for the Top-Down view.



Prefabs	Tris (LOD 0)	Colors	Notes
26 25	100 – 384	5	Customize the color of the main elements of the walls.

WALLS

Position
X 0
y 0
z 0

Offset
X 10
Y 10
Z 10

The Wall Lights and Walls prefab. With/without the opening for placing the door. From one wall piece to four wall pieces combined.

And one **Zzz Point Light** scripted Prefab (AUGMENTED Version)

Heavy Station Kit HANGARS Prefabs

The Heavy Station Kit hangars 2.50 AUGMENTED has **282** Prefabs:

The Heavy Station Kit hangars 2.50 has **183** Prefabs:

5m Snap Value Overall



Prefabs	Tris (LOD 0)	Colors
25	70 – 18510	6
11		

Notes
Customize colors for some elements

AGGREGATES

Align
for Rails:
Position
X 5
y 0
z 5
Offset
X 10
Y 10
Z 10
for Other:
FREE

Aggregates

Ballons and Cables, Cargocase, Consoles, Rail and Crane modular system, Reactor and Server.



Prefabs	Tris (LOD 0)	Colors
13	958 – 12056	1
0		

Notes

AGGREGATES 2

Align
FREE

Aggregates2

are huge single, dual and trio Pipes, Flat reactor, Huge barrels with various pipes.



Prefabs	Tris (LOD 0)	Colors
26	420 – 716	2
18		

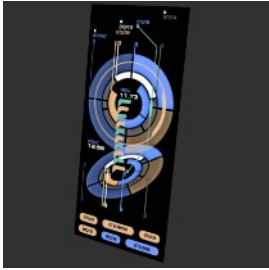
Notes
Customize colors for inside panels

ARCHES

Align
Position
X 5
y 0
z 5
Offset
X 10
Y 10
Z 10

Arches

are three types of L shaped design elements, with customizable solid and/or transparent pieces .



DISPLAYS

Prefabs	Tris	Colors	Notes
7 6	2 – 24	1	

Align
Parent Object



DOORS

Prefabs	Tris	Colors	Notes
5 5	78 – 1236	6	Customize colors for some elements

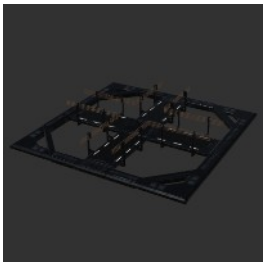
Align
Position
X 5
y 0
z 5
Offset
X 10
Y 10
Z 10



ELEVATORS

Prefabs	Tris	Colors	Notes
1 1	9944	1	

Align
Position
X 0
y 0
z 0
Offset
X 10
Y 10
Z 10



FLOORS

Prefabs	Tris (LOD 0)	Colors	Notes
66 64	28 – 5120	2	Customize colors for fills elements

Align
Position
X 0
y 0
z 0
Offset
X 10
Y 10
Z 10

Floors

come as Floor Frames in sizes of 10 and 5 meters. There are also two types of narrow Transition elements and four types of Hand-rails. To increase visual interest, there are solid and transparent Floor Fill pieces to fit in floor frames.



Prefabs	Tris (LOD 0)	Colors	Notes
8 0	60 – 2374	1	

GARAGE

Align
FREE

Garage

are modular pieces for vehicle with wheels. Around that can be placed special maintenance platforms and with ladder for humans to get up. Also theme has own console and aggregate.



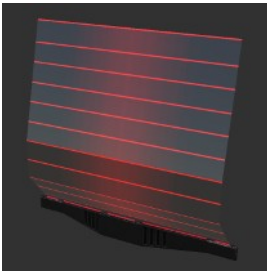
Prefabs	Tris (LOD 0)	Colors	Notes
20 15	44 – 10174	1	

GATEWAY

Align
FREE

Gateway

are room-scaled areas for vehicles, with full-sized animated gates.



Prefabs	Tris (LOD 0)	Colors	Notes
10 4	178 – 15746	1	

OUTSIDE

Align
FREE

Outside

has modular energy barrier with intent for placing around the base. Also huge stairs, animated radar, cone-shaped station.



Prefabs	Tris (LOD 0)	Colors	Notes
5 0	364 – 728	6	

PIPELINE 1

Align
FREE

Pipeline1

are new small modular pipelines.



Pipeline2
looks like ones in Base v2, but now they are modular.

Prefabs	Tris (LOD 0)	Colors	Notes
19 0	928 – 2292	6	

PIPELINE 2

Align
FREE



Props
are small and medium barrels, small battery, small to medium to big boxes, and small but narrow and long box that can be stacked on itself in pyramid form.

Prefabs	Tris (LOD 0)	Colors	Notes
8 6	236 – 3852	6	Customize colors for some elements

PROPS

Align
FREE



Supports
are used to enhance heavy look of the base, and they fit into special slot in Floor Frame pieces.

Prefabs	Tris (LOD 0)	Colors	Notes
19 15	132 – 4336	1	

SUPPORTS

Align
Position
X 0
y 0
z 0
or FREE
Offset
X 10
Y 10
Z 10
and FREE



Top Bottom
are used to increase visual depth of the level when needed, and they come in three different pieces.

Prefabs	Tris (LOD 0)	Colors	Notes
7 7	564 – 574	2	Customize colors for some elements

TOP BOTTOM

Align
Position
X 0
y 0
z 0
Offset
X 10
Y 10
Z 10



Prefabs	Tris (LOD 0)	Colors
15 15	74 – 370	1

Notes

TOP-DOWN

Align

Position
X 0, 5
y 0, 5
z 0, 5

Offset
X 10, 5
Y 10, 5
Z 10, 5

and FREE

Top-Down

has four types of walls for outside, and elements to close gaps for Top-Down use.



Prefabs	Tris (LOD 0)	Colors
9 0	164 – 1852	1

Notes

TOP-DOWN 2

Align

Position
X 0, 5
y 0, 5
z 0, 5

Offset
X 10, 5
Y 10, 5
Z 10, 5

and FREE

Top-Down2

has new supports for outside that strenghten visual look, three additional walls for outside, and pieces for Top-Down use.



Prefabs	Tris (LOD 0)	Colors
18 16	111 – 534	6

Notes

Customize colors for some elements

WALLS

Align

Position
X 0
y 0
z 0

Offset
X 10
Y 10
Z 10

and FREE

Walls has 5 and 10 metres elements, flat and L and C shaped, with openings for doors, gates and windows.

And one **Zzz Point Light** scripted Prefab (AUGMENTED Version)

Heavy Station Kit COLONY Prefabs

The Heavy Station Kit colony 2.50 AUGMENTED has **451** Prefabs:

The Heavy Station Kit colony 2.50 has **291** Prefabs:

5m Snap Value Overall



Prefabs	Tris (LOD 0)	Colors	Notes
36 13	120 – 15000	1	

DECORATIONS

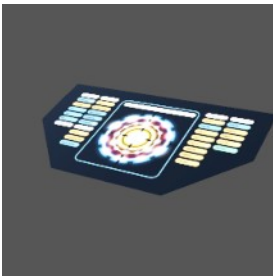
Position
Free



Prefabs	Tris (LOD 0)	Colors	Notes
15 9	46 – 956	6	Customize colors for some elements

DEVICES

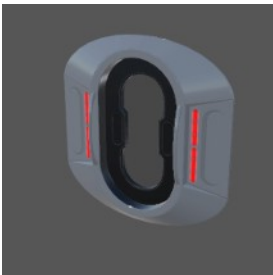
Position
Free



Prefabs	Tris (LOD 0)	Colors	Notes
19 12	2 – 8	1	

DISPLAYS

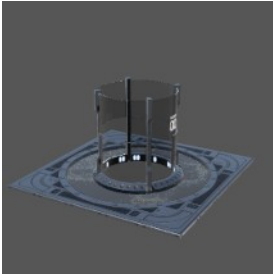
Position
Free



Prefabs	Tris (LOD 0)	Colors	Notes
13 8	302 – 2496	6	Customize colors for Emission Color

DOOR_WINDOW

Position
X 5
y 0
z 5
Offset
X 10
Y 10
Z 10



Prefabs

14
9

Tris (LOD 0)

60 – 5760

Colors

1

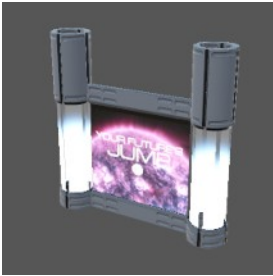
Notes

ELEVATOR

Position

Position
X 0
y 0
z 0

Offset
X 10
Y 10
Z 10



Prefabs

31
20

Tris (LOD 0)

134 – 5800

Colors

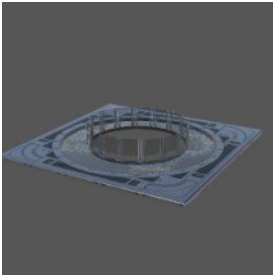
1

Notes

EQUIPMENT

Position

Free



Prefabs

41
34

Tris (LOD 0)

14 – 1042

Colors

1

Notes

FLOORS

Position

Position
X 0
y 0
z 0

Offset
X 10
Y 10
Z 10



Prefabs

43
26

Tris (LOD 0)

76 – 4288

Colors

6

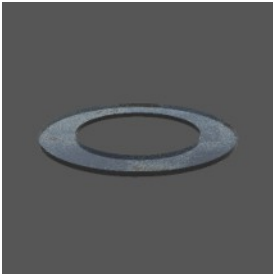
Notes

Customize colors for some elements

FURNITURE

Position

Free



Prefabs

17
17

Tris (LOD 0)

4 – 5600

Colors

1

Notes

GLASS

Position

Free



Prefabs

60
34

Tris (LOD 0)

10 – 2680

Colors

6

Notes

Customize colors for some elements

KITCHEN

Position

Free



Prefabs

22
11

Tris (LOD 0)

80 – 3140

Colors

1

Notes

Customize the color of the vertical elements.

OBJECTS

Position

Free



Prefabs

33
19

Tris (LOD 0)

30 – 3076

Colors

1

Notes

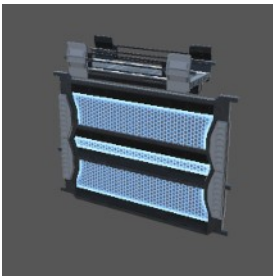
Customize the color of the vertical elements.

OUTSIDE_TOPDN

Position

Position
X 0
y 0
z 0

Offset
X 10
Y 10
Z 10



Prefabs

24
14

Tris (LOD 0)

56 – 3652

Colors

1

Notes

OUTSIDE_TOPDN_2

Position

Position
X 0
y 0
z 0

Offset
X 10
Y 10
Z 10



Prefabs

16
7

Tris (LOD 0)

76 – 11926

Colors

1

Notes

STAIRS

Position

Position
X 0
y 0
z 0

Offset
X 10
Y 10
Z 10



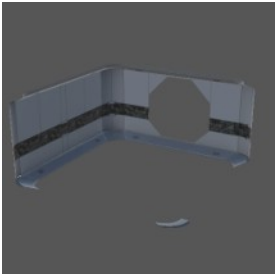
Prefabs	Tris (LOD 0)	Colors
13	2 – 7690	6
12		

Notes
Customize colors for Emission

VENTILATION

Position
X 0
y 0
z 0

Offset
X 1
Y 1
Z 1



Prefabs	Tris (LOD 0)	Colors
53	14 – 576	6
46		

Notes

WALLS

Position
X 0
y 0
z 0

Offset
X 10
Y 10
Z 10

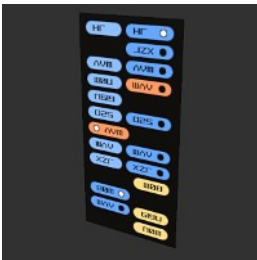
And one **Zzz Point Light** scripted Prefab (AUGMENTED Version)

Heavy Station Kit DUGOUT Prefabs

The Heavy Station Kit dugout AUGMENTED has **697** Prefabs:

The Heavy Station Kit dugout has **489** Prefabs:

0.5m Snap Value Overall



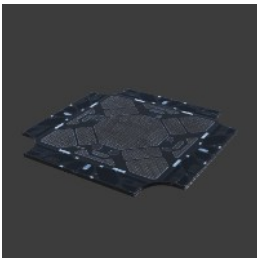
Prefabs	Tris
42	2 – 852
26	

Notes

Materials
Heavy Station Kit / DUGOUT / Materials / N_Screens_A
Heavy Station Kit / DUGOUT / Materials / N_Screens_BC
Heavy Station Kit / DUGOUT / Materials / N_Screens_S **(Augmented only)**
Heavy Station Kit / DUGOUT / Materials / N_Nozzle **(Augmented only)**

DISPLAYS

Animated displays are part of prefabs. Flats can be used apart.



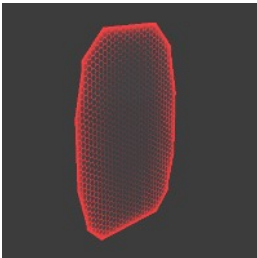
Prefabs	Tris
22	2 – 280
22	

Notes

Materials
Heavy Station Kit / DUGOUT / Materials / N_Gaps
Heavy Station Kit / DUGOUT / Materials / N_A_Out
Heavy Station Kit / DUGOUT / Materials / N_A_In

GAPS

See-through Floor pieces.



Prefabs	Tris
52	2 – 14
0	

Notes

Materials
Heavy Station Kit / DUGOUT / Materials / N_Screens_P **(AUGMENTED ONLY)**

PLATES

Shop signs, Transparent Barriers, etc.



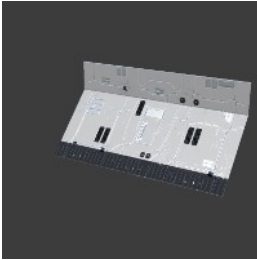
Prefabs	Tris
65	10 – 2852
57	

Notes

Materials
Heavy Station Kit / DUGOUT / Materials / N_A_Out

TYPE A Exterior

Biggest parts. Windows, External props, etc. Core, Transition and Props.



Prefabs	Tris
53	3 – 1712
53	

TYPE A Interior

Notes
Materials
Heavy Station Kit / DUGOUT / Materials / N_A_In

Biggest parts. Windows, big Crossroads, wall hatches, Stairs, etc. Core and Transition.



Prefabs	Tris
35	50 – 4328
35	

TYPE A Props

Notes
Materials
Heavy Station Kit / DUGOUT / Materials / N_A_Props

Interior arches, Engine, Stands, Pipelines, etc. Interior & Exterior Props.



Prefabs	Tris
37	24 – 112
37	

TYPE B Exterior

Notes
Materials
Heavy Station Kit / DUGOUT / Materials / N_BC_Out

B Exterior Unique Windows, Floor Pipeline Socket. Core, Transition, etc.



Prefabs	Tris
45	2 – 508
45	

TYPE B Interior

Notes
Materials
Heavy Station Kit / DUGOUT / Materials / N_BC_In

B Interior Unique Windows, Floor Pipeline Socket. Core and Transition.

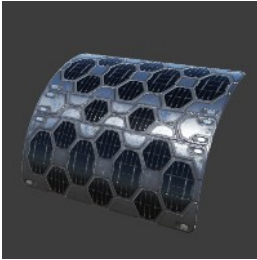


Prefabs	Tris
17	262 – 1984
17	

TYPE B Props

Notes
Materials
Heavy Station Kit / DUGOUT / Materials / N_BC_Props

Wall point devices, pipelines, handrails. Interior Props.



Prefabs	Tris
99 99	1 – 3152

TYPE BC Exterior

Notes
Materials Prefabs/Walls/Meshes/Materials/N_BC_Out

Applies also for B and C. Core, Transition and Props.



Prefabs	Tris
15 15	14 – 1402

TYPE BC Interior

Notes
Materials Heavy Station Kit / DUGOUT / Materials / N_BC_In

B&C joint Pieces, tiny Crossroads, floor hatches. Transition.



Prefabs	Tris
4 4	310 – 2110

TYPE BC Props

Notes
Materials Heavy Station Kit / DUGOUT / Materials / N_BC_Props

Switches, Ladder and Fan. Interior Props.



Prefabs	Tris
24 24	32 – 72

TYPE C Exterior

Notes
Materials Heavy Station Kit / DUGOUT / Materials / N_BC_Out

C Exterior Unique Windows. Core, Transition.



Prefabs	Tris
36 36	2 – 297

TYPE C Interior

Notes
Materials Heavy Station Kit / DUGOUT / Materials / N_BC_In

Core and Transition.



Prefabs

11
11

Tris

288 – 1652

Notes

Materials

Heavy Station Kit / DUGOUT / Materials / N_BC_Props

TYPE C Props

Wall point devices, pipelines, handrails. Interior Props.



Prefabs

41
6

Tris

80 – 1672

Notes

Materials

Heavy Station Kit / DUGOUT / Materials / N_S_Out_In

TYPE S

Cockpit, external equipment, etc. Exterior & Interior Core, Transition and Props.



Prefabs

61
2

Tris

142 – 5592

Notes

Materials

Heavy Station Kit / DUGOUT / Materials / N_S_Props (AUGMENTED ONLY)

TYPE S Props

Living, consoles, etc. Interior props.



Prefabs

38
0

Tris

12 – 6170

Notes

Materials

Heavy Station Kit / DUGOUT / Materials / N_PL (AUGMENTED ONLY)
Heavy Station Kit / DUGOUT / Materials / N_PL_Win (AUGMENTED ONLY)

Platforms

Space open platforms, transitions, and props.

Glass folder in Prefabs is for source meshes only. Complete items are in their appropriate Themes.

Heavy Station Kit POWER-UPs Prefabs

Heavy Station Kit power-ups AUGMENTED has **42** Prefabs:
The Heavy Station Kit power-ups has **29** Prefabs:

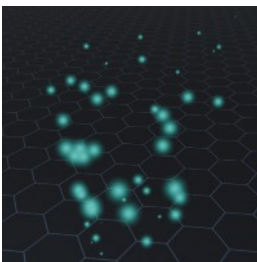


Prefabs	Tris
36	376 - 10634
24	1136 - 5856

POWER-UPs

Materials
Heavy Station Kit / POWER-UPs / Materials / ...

Power-Ups AUGMENTED items with C# Animations. 8 Themes.
Power-Ups items with C# Animations. 4 Themes.



Prefabs	Tris
4	—
4	—

PARTICLES

Materials
—

4 Color Themes.



Prefabs	Tris
2	17118 (LOD 0)
1	... 3423 (LOD 3)

SPAWN

Materials
Heavy Station Kit / POWER-UPs / Materials / ...

Spawns with Animated Material and Audio Source.

Heavy Station Kit DUGOUT Blueprints

The Heavy Station Kit dugout 1.03 AUGMENTED has **152** Blueprints:
The Heavy Station Kit dugout 1.03 has **110** Blueprints:

0.5m Snap Value Overall

Shuttle Systems



Blueprints
15
0

Purpose

Movable and controllable pieces like Engines that come with Scripts



Blueprints
32
27

Purpose

Exterior, interior and props Type A Blueprint pieces.

Type_A



Blueprints
56
52

Purpose

Exterior, interior and props Type B Blueprint pieces.

Type_B



Blueprints
35
31

Purpose

Exterior, interior and props Type C Blueprint pieces.

Type_C



Blueprints
14
0

Purpose

Exterior, interior and props Type S Blueprint pieces.

Type_S

Blueprint setup

Type A Compilation



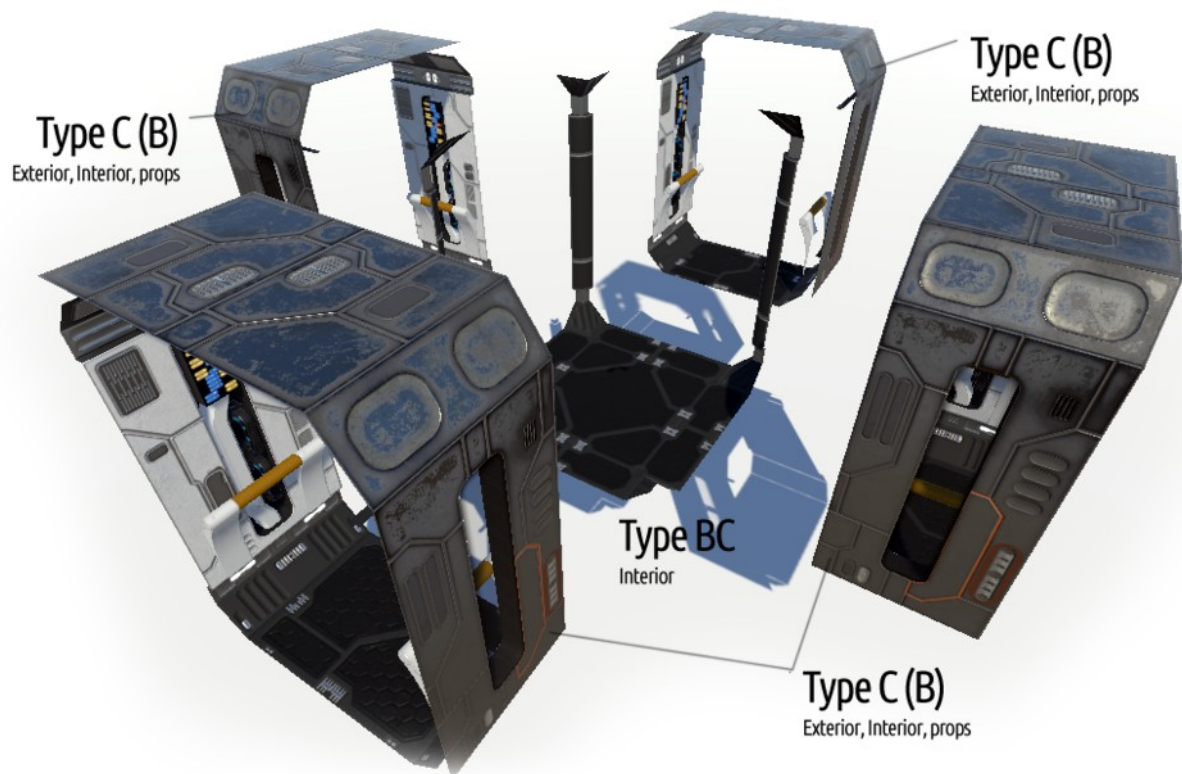
Type A, B, C Compilation



Type B&C Joint



Types B&C Crossroad



Types B&C Z-Fighting Fixed



Z-Fighting

Upper Floor Interior / Lower Floor Exterior

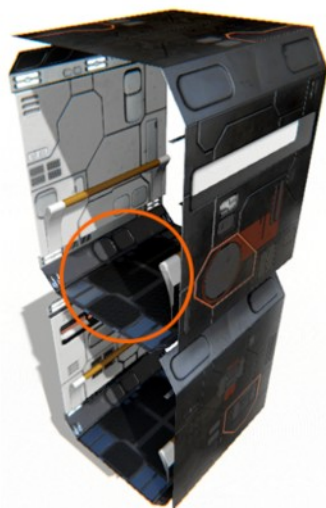
When you are making multi floor section using B or C pieces 'Z-Fighting' will occur, as exterior of lower floor section will creep in.



Fix

Replacing the Exterior Skin

It is easy to solve. Hide this part from Blueprint and add an appropriate piece without exterior to replace it (from Prefab folder).



Voila!

Elimination of the Problem

'Z-Fighting' vanished as error introducing piece got replaced.

Heavy Station Kit BASE Materials

DISPLAYS (Materials)	(Meshes)	DOORS (Materials)	(Meshes)
B2_Eq1	B2_Eq_1	B2_EG_OFF	B2_EG
B2_Eq2	B2_Eq_2	B2_EG_ON	B2_EG
B2_Eq3	B2_Eq_3	Glass_Dark	Door_a_glass
B2_Eq5A1	B2_Eq_5D, B2_Eq_5T	Glass_Green	Door_a_glass
B2_Eq5A2	B2_Eq_5D, B2_Eq_5T	Glass_Red	Door_a_glass
B2_Eq41	B2_Eq_4, B2_Eq_7		
B2_Eq42	B2_Eq_4, B2_Eq_7		
B2_Eq43	B2_Eq_4, B2_Eq_7		
B2_Eq44	B2_Eq_4, B2_Eq_7		
B2_Eq51	B2_Eq_5, B2_Eq_7		
B2_Eq52	B2_Eq_5, B2_Eq_7	B2_Eq_Out	Eq20a, Eq20b, Eq20c, Eq21, Eq23c
B2_Eq_23c	B2_EQ_23c	B2_Eq_Out1	Eq23, Eq23a, Eq23b, Eq23d
B2_TB_Med	B2_TB_M1, B2_TB_M2, B2_TB_M3		
B2_TB_Small	B2_TB_S1, B2_TB_S2, B2_TB_S3		
B2_TD_Part2	B2_TD_PRT2		
Disp_Cons	B2_Disp_Cons		
Disp_Cons_Mode	B2_Disp_Cons		
Disp_Cons_Power	B2_Disp_Cons		
TOP-BOTTOM (Materials)	(Meshes)		
B2_Top_Bottom	TB_(1-3)_F		
B2_TB_PH	TB_Hexa_F, TB_Penta_F	B2_Floors_PH	Floor_Hexa(...), Floor_Penta(...) B2_FFH(...), B2_FFP(...)
TOP-DOWN (Materials)	(Meshes)		
B2_TD_2_RGlass	TD_base2_RGlass_(1-3)		
B2_TD_Roof	TD_base_Roof(1-3)		
B2_TD_Roof1	TD_base2_RoofC_(1-3)		
B2_TopDown	TD_Base2_WE_M, TD_base_part2, TD_base_outwall(...), TD_base_topwall, TD_base_topwall1, TD_base_topwall2, Base2_Egate_0, TD_base_topwall_(2...4), Ladder2, B2_TD_HandRail, B2_TD_HandRail2		
B2_TopDown1	Arches_C_1, TD_base_topwall3, Floor_5_base, Floor_5_base_C, Floor_5_base_F, Floor_5_base_Plate, Floor_5_base_TB, B2_Egate, B2_EGate0, B2_EgateA, B2_EgateB, Base2_EGate_1		
	</		

Heavy Station Kit HANGARS Materials

AGGREGATES (Materials)	(Meshes)	FLOORS (Materials)	(Meshes)
H2_Aggregates_(0-5)	Agg_(...), H2_P1_(1-5), H2_P2_(01-19)	H2_Floors, H2_Floors_NoL	floor_0h(...), floor_1h(...), floor_1h_fill(...), floor_1h_HR, floor_2h(...), floor_2h_fill(...), floor_2h_HR, floor_3h(...), floor_4h(...), floor_5h(...), H2_floor_6(...), handrail_(1-4), transition(1-3)
AGGREGATES2 (Materials)	(Meshes)		floor_1h_Glass, floor_1h_Glass_one, floor_2h_Glass, floor_2h_Glass_one, H2_FF_T
H2_Agg2_Light	H2_Agg_Light1, H2_Agg_Light2		
H2_Aggregates	H2_Agg_(1-13)		
DISPLAYS (Materials)	(Meshes)	H2_Floors_NoL, H2_FloorsGlass	
H2_Dis_Door	H2_Dis_Doors		
H2_Disp_Const1	H2_Const1		
H2_Disp_Const1D	H2_Const1_D		
H2_Disp_Const2	H2_Const2		
H2_Disp_Const4	H2_Const4		
H2_Disp_Const4D	H2_Const4_D		
H2_Disp_Garage	H2_Gar_5_Light		
DOORS (Materials)	(Meshes)	GARAGE (Materials)	(Meshes)
Door2_(Green, Grey, Red)	door_3_glass	H2_Garage	H2_Gar_(1-8)
PROPS (Materials)	(Meshes)	GATEWAY (Materials)	(Meshes)
H2_Props_(0-5)	hangar_barrel(1-2), hangar_battery1, hangar_box(1-5)	H2_Gateway	Brace, Gateway(1-2), Hook, GW_gate(1-2), Ladder
SUPPORTS (Materials)	(Meshes)	H2_Shield	Shield
H2_Supp_Doors_(0-5)	H2_CeL_(02, 04), H2_CeL_(1-8), H2_Sup_(1-4), Mount, SG_2, Support_5(...), Door_(0-3), Gate, Elevator1(...), H2_Elevator, Plate		
WALLS (Materials)	(Meshes)	OUTSIDE (Materials)	(Meshes)
H2_Arches(...)	Glass_Arch_(1-4), Glass_Out(...), Glass_Wall(...)	H2_LightWall, H2_LightWall_2	H2_Out_Ewall(...)
H2_Walls1_(0-5)	Wall_(1-4), arche_(1-3)	H2_Out1_Light	H2_Out_1_Light
H2_Walls2_(0-5)	Wall_(5-7)	H2_Out2_Light	H2_Out_2A_Light
		H2_Out3_Light	H2_Out_3_Light, H2_Out_3A_Light
		H2_Outside	H2_Out_(1-6)
		TOP BOTTOM (Materials)	(Meshes)
		H2_TB, H2_TB_A	H2_TB_Cover, TB_II_(1-3)
		TOP-DOWN (Materials)	(Meshes)
		H2_Top-Down	TD_hangar_ARCH(0-1), TD_hangar_OW(1-4), TD_hangar_TW(0-2)
		TOP-DOWN2 (Materials)	(Meshes)
		H2_TopDown2	H2_Outwall(...), H2_Support(...), H2_Topwall

Heavy Station Kit COLONY Materials

DECORATION (Materials)	(Meshes)	DISPLAYS (Materials)	(Meshes)
C2_Decoration	C2_Dec_PAN(1-3), C_Nat_Fern(...), C_Nat_Flower(...), C_Nat_Grass(...), C_Nat_Ground(...)	C2_ServerL, C_Light, C_Energy_Door C2_ServerS, C_Light, C_Energy_Door C_Control1 C_Control2 C_Control3 C_Displays(1-4) C_ElevDispDn, C_ElevDispMove C_ElevDispUp C_Med C_Monitor C_Netbook C_Pad C_Ray	C_Dis_Stand2 C_Dis_Stand1 C_Dis_Control1 C_Dis_Control2 C_Dis_Control3 C_Dis_Planet, C_Dis_Scr(2-3) C_EL_DisplDn C_EL_DisplUp C_Dis_MConsole C_Dis_Monitor C_Dis_Netbook C_Dis_Pad C_Dis_Scr(...), C_Dis_Ray
C2_Stones	C2_Dec_PAN1_St, C2_Dec_PAN2_St, C_Stone(2-4)		
C_Leaf(1-3)	C_Tree_Leafs1		
C_Tree(1-3)	C_Tree_Tree1		
DEVICES (Materials)	(Meshes)		
C2_Devices_(0-5)	C_Dev_Bidet, C_Dev_Bowl, C_Dev_Button(1-3), C_Dev_Console, C_Dev_Pallet, C_Dev_Pod_Med, C_Dev_Podium(1-3), C_Dev_Sho, C_Dev_Sup_Med, C_Dev_Support, C_Dev_Tap, C_Dev_Taps, C_Dev_Towel, C_Dev_Uri, C_Dev_Washstand, C_Pot(1-3), C_Dev_Washstand1		
FLOORS (Materials)	(Meshes)		
C2_Floors(...)	C_Floor(...), C2_Floor(...) C2_Floor_HR1, C2_Floor_HR1A, C_Stairs3_A1m, C_Stairs3_Am, C_Stairs3_B1m, C_Stairs3_Bm, C_Stairs3_C1m, C_Stairs3_Cm, C_Stairs_1, C_Stairs_2, C_Stairs_2A, C_Stairs_2B, C_Stairs_2C, C_Stairs_2D, C_Stairs_3, C_Stairs_4		
KITCHEN (Materials)	(Meshes)		
C2_Objects2_(0-5), NH	C2_Blender, C2_Bracket(...), C2_CoffeeTable, C2_Container(1-4), C2_Dish(1-5), C2_Drawer(30,60), C2_Fork(1-3), C2_Jalousie(...), C2_Knife(1-4), C2_Label(...), C2_Lamp, C2_Microwave, C2_MicrowaveDoor, C2_Partition_D, C2_Partition_U, C2_Scales(...), C2_Screen, C2_Shelf(...), C2_Sound, C2_Spiracle(...), C2_Table(...), C2_Teapot(...), C2_Toster, C2_WashingMachine, C2_Work(...)		
OBJECTS (Materials)	(Meshes)		
C2_Objects	C_Obj_Bottle, C_Obj_Bottles, C_Obj_Camera, C_Obj_Container, C_Obj_Containers, C_Obj_Cutlery2, C_Obj_Fork, C_Obj_Hold_A, C_Obj_Holder(1-2), C_Obj_Knife, C_Obj_Microscope, C_Obj_Monitor, C_Obj_Microscope1, C_Obj_Netbook, C_Obj_Pad, C_Obj_Pen, C_Obj_Tools, C_Obj_Spoon, C_Obj_Thermos,	C2_ServerL, C_Light, C_Energy_Door C2_ServerS, C_Light, C_Energy_Door C_Control1 C_Control2 C_Control3 C_Displays(1-4) C_ElevDispDn, C_ElevDispMove C_ElevDispUp C_Med C_Monitor C_Netbook C_Pad C_Ray C2_Devices_(0-5) C2_Elevator C2_EL_Cons2, C2_EL_Elevator(...), C2_EL_Tube, C2_EL_Wall, C_EL_Cabine, C_EL_Console, C_EL_Ffloor(...), C_EL_Plate(...), C_EL_Support, C_EL_Tank C2_Furniture_(0-5) C_Fu(...) C_Mirr C_Glass C2_Outside2, C2_Outside2_Z	C_Dis_Stand2 C_Dis_Stand1 C_Dis_Control1 C_Dis_Control2 C_Dis_Control3 C_Dis_Planet, C_Dis_Scr(2-3) C_EL_DisplDn C_EL_DisplUp C_Dis_MConsole C_Dis_Monitor C_Dis_Netbook C_Dis_Pad C_Dis_Scr(...), C_Dis_Ray C2_Devices_(0-5) C2_Elevator C2_EL_Cons2, C2_EL_Elevator(...), C2_EL_Tube, C2_EL_Wall, C_EL_Cabine, C_EL_Console, C_EL_Ffloor(...), C_EL_Plate(...), C_EL_Support, C_EL_Tank C2_Furniture_(0-5) C_Fu(...) C2_Outside2, C2_Outside2_Z
DOOR-WINDOW (Materials)	(Meshes)		
C2_Doors(...)	C_BorderKit, C_Door(...), C_Vent(...), C_Win(...)		
ELEVATOR (Materials)	Meshes		
C2_Elevator	C2_EL_Cons2, C2_EL_Elevator(...), C2_EL_Tube, C2_EL_Wall, C_EL_Cabine, C_EL_Console, C_EL_Ffloor(...), C_EL_Plate(...), C_EL_Support, C_EL_Tank		
FURNITURE (Materials)	(Meshes)		
C2_Furniture_(0-5)	C_Fu(...)		
GLASS (Materials)	(Meshes)		
C_Mirr C_Glass	C_Dis_Mirror C_Glass_HR(...), C_Glass_Sho, C_GlassD&W, C_GlassPano, C_GlassSlider, Glass_Door, Glass_EL_Floor, Glass_EL_FloorH(...), Glass_P1, Glass_R1, Glass_R2, Glass_Stairs(1-3), Glass_StairsB, Glass_StairsC, Glass_StairsD, Glass_Table(1-3), Glass_Trans(2-3), Glass_Wall_2m, Glass_Wall_3m, Glass_Window C_Stairs3_A1g, C_Stairs3_Ag, C_Stairs3_B1g, C_Stairs3_Bg, C_Stairs3_C1g, C_Stairs3_Cg C2_Blender_Glass, C2_Dish3_Glass, C2_Table_Door_Glass, C2_WM_Glass, C2_MicrowaveGlass, C_Obj_Cup, C_Obj_TestTube(...) Glass_Elev, Glass_Elev1 Glass_Elevator		
OUTSIDE-TOPDN-2 (Materials)	(Meshes)		
C2_Outside2, C2_Outside2_Z	C2_Out2(...)		

C_Obj_Thermoses, C_Obj_Tray

		WALLS (Materials)	(Meshes)
OUTSIDE-TOPDN (Materials)	(Meshes)	C2_Walls_ (0-5)	C_1Walls(...), C_2Walls(...), C_3Walls(...), C_4Walls(...), C_Arche_(1-2), C_Walls_1, C_Wall_Part_ (...)
C2_Misc	C_Misk_Aerial, C_Misk_AerialBase, C_Misk_FoSup, C_Misk_SolarHolder, C_Misk_Foundation(...), C_Misk_GlassWallCorner, C_Misk_SolarPanel		
C2_Outside_(1-2)	C_Out_Support, C_Out_TD_(1-4), C_Out_Trans_ (...), C_Out_Wall_ (...)		

Heavy Station Kit DUGOUT Materials

DUGOUT / Materials / ...	DUGOUT / Meshes / Displays / ...	DUGOUT / Materials / ...	DUGOUT / Meshes / Type B Exterior / ...
N_Screens_A	N_Screens_A...	N_BC_Out	N_B...
N_Screens_BC	N_Screens_B..., N_Screens_C...		
N_Nozzle	N_Screens_S_15		DUGOUT / Meshes / Type BC Exterior / ...
N_Screens_S	N_Screens_S...	N_BC_Out	N_BC...
	DUGOUT / Meshes / Gaps / ...		DUGOUT / Meshes / Type C Exterior / ...
N_Gaps	N_Gaps_A..., N_Gaps_B..., N_Gaps_Unit	N_BC_Out	N_C...
N_A_Out	N_Solid_A, N_Solid_A_C, N_Solid_A_F		
N_A_In	N_Solid_A...		DUGOUT / Meshes / Type B Interior / ...
		N_BC_In	N_Bi...
	DUGOUT / Meshes / Glass / ...		DUGOUT / Meshes / Type BC Interior / ...
N_Glass	N_G...	N_BC_In	N_BCI...
	DUGOUT / Meshes / Plates / ...		DUGOUT / Meshes / Type C Interior / ...
N_Screens_P	N_DP...	N_BC_In	N_Ci..., N_C_End_Pipeline
	DUGOUT / Meshes / Type A Exterior / ...		DUGOUT / Meshes / Type B Props / ...
N_A_Out	N_Ae...	N_BC_Props	N_Bo...
	DUGOUT / Meshes / Type A Interior / ...		DUGOUT / Meshes / Type BC Props / ...
N_A_In	N_Ai..., NA_Pipeline...	N_BC_Props	N_BCo...
	DUGOUT / Meshes / Type A Props / ...		DUGOUT / Meshes / Type C Props / ...
N_A_Props	N_Ao..., N_D..., N_Crystal...	N_BC_Props	N_Co
	DUGOUT / Meshes / Platforms / ...		DUGOUT / Meshes / Type S / ...
N_PL_Win	...Win...	N_S_Out_In	N_Sg...
N_PL	All (Except ... Win)		
			DUGOUT / Meshes / Type S Props / ...
		N_S_Props	N_So...

Heavy Station Kit POWER-UPS Materials

POWER-UPS / Materials / ...	POWER-UPS / Meshes / ...
HSK_PU_Items	HSK_PU_11 ... HSK_PU_46
HSK_PU_Spawn	HSK_PU_0, HSK_PU_0_2
HSK_PU_Spawn_0G	HSK_PU_0_1
HSK_PU_Spawn_A	HSK_Spawn
HSK_PU_Spawn_A_E	HSK_Spawn_E, HSK_PU_Plate
HSK_PUA	HSK_PUA_11 ... HSK_PUA_44

SCRIPTS

Customize Prefabs (scripts settings)

General info

All asset classes placed in common namespace **DotTeam.HSK**.

All script files are located in the corresponding subfolders of the **Assets > Heavy Station Kit > _common > Scripts** folder.

Doors & Gate2

Refers to prefabs

HSK Base	B2_Door <i>Assets > Heavy Station Kit > BASE > Prefabs > Doors</i>
HSK Colony	C2_Door <i>Assets > Heavy Station Kit > COLONY > Prefabs > Door_Window</i>
HSK Hangars	H2_Door, H2_Gate2 <i>Assets > Heavy Station Kit > HANGARS > Prefabs > Doors</i>
HSK Dugout	DBC1_IL_Door_HSK <i>Assets > Heavy Station Kit > DUGOUT > Prefabs > Type BC Interior</i>

Door / Gate2 Prefabs allows switching the operating modes of the door/gate in Edit and Game modes via public property **Mode** of **DotHskDoor** Script component attached to top-most Prefab game object, including:

Active	the door/gate is opening and closing automatically, at the approaching of a Player (gates are manually operated using the console). Initially, the door/gate is closed. Sound is being played, and opening and closing sounds of the panel sliding differ
Active Open	before the first pass, the doors/gates remain open (gate initially is open), after which the doors/gates continue to work in the same way as in Active mode
Blocked	the door/gate is closed. Sound of "the closed door" is being played, at approaching of a Player
Inactive Open	the door/gate is disabled, being fully open
Inactive Closed	the door/gate is disabled, being fully closed
Broken Open	the door/gate is disabled, being almost fully open
Broken Closed	the door/gate is disabled, being almost fully closed

Selecting of the door/gate operating mode is instant (happening immediately). In the Game mode the doors are automatically triggered when the character approaches.

Useful public properties of **DotHskDoor** class

dotHskDoorMode mode Allows set/read door operating mode, setting mode is instant - happening the next Update cycle.
Acceptable values are **dotHskDoorMode.{mode_id}**, where **mode_id** is one of following literals: **active**, **blockea**, **inactiveOpen**, **inactiveClosed**, **brokenOpen**, **brokenClosed** (see description of operating modes above).

*Gate2 prefab only: **DotHskDoorHangarsGate2Console** script (attached to Console_Trigger GameObjects, childs of Console1 and Console2 GameObjects)*

Texture Banner On-screen hint image (source file **HSK_Gui.psd** included in *Assets > Heavy Station Kit > _common > Textures > GUI*)

Gate

Refers to prefabs

HSK Hangars	GW_LargeGate, GW_SmallGate <i>Assets > Heavy Station Kit > HANGARS > Prefabs > Gateway</i>
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Gate Prefab allows switching the operating modes of the gate in Edit and Game modes via public property **Mode** of **DotHskGate** Script component attached to the top-most Prefab game object. Gate prefab operates in the same manner as Gate2 prefab (see "Doors & Gate2" section) and its operational modes are including the same values as Gate2.

Useful public properties of **DotHskGate** class

dotHskGateMode mode	Allows set/read gate operating mode, setting mode is instant - happening the next Update cycle. Acceptable values are dotHskGateMode.{mode_id} , where mode_id is one of the following literals: active , blocked , inactiveOpen , inactiveClosed , brokenOpen , brokenClosed (see list of operating modes in "Doors & Gate2" section).
bool isFullyOpen	Equals true if the Gate is completely open at this time, otherwise - false
bool isFullyClosed	Equals true if the Gate is completely closed at this time, otherwise - false
bool isStopped	Equals true if the Gate is not moving at this time, otherwise - false

DotHskGateHangarsConsole script (attached to **Console_Trigger** GameObjects, childs of **Console1** and **Console2**)

Texture OpenTip, CloseTip	On-screen hint images (source file HSK_Gui.psd included in <i>Assets > Heavy Station Kit > _common > Textures > GUI</i>)
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Door's Consoles

Refers to prefabs

HSK Base	B2_Cons_Mode, B2_Cons_Power <i>Assets > Heavy Station Kit > BASE > Prefabs > Equipment</i>
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There are two types of Console prefabs:

Prefab B2_Cons_Power – "the Power console" allows for choosing if the door/gate is either operating properly or inactive;

Prefab B2_Cons_Mode – "the Mode console" allows for choosing if the door/gate is either Active or Blocked.

TIPS

- Consoles can manage all types of HSK Base, Colony, Dugout and Hangars Doors and HSK Hangars Gate2 (**H2_Gate2**) Prefabs simultaneously.
- Both consoles **B2_Cons_Power** and **B2_Cons_Mode** aren't available for manipulation if the first door in their **ControlledDoors** list has mode either **brokenOpen** or **brokenClosed**.
- The Console **B2_Cons_Mode** does not work if the first door in the **ControlledDoors** list has mode either **inactiveOpen** or **inactiveClosed**.

SETTING UP THE CONSOLE

- Attach the script **DotHskDoorControl** (*Assets > Heavy Station Kit > _common > Scripts > Doors > DotHskDoorControl.cs*) to all instances of the door prefab, which you would like to manipulate.
- Set **DotHskDoorControl** script parameters:
 - OpenIfPowerOff** to **true** for the door that you would like automatically opened if the power will go down.
- Specify **PowerOnStatus** so after the Power is restored doors will get:

blocked	the doors will get locked, and the Red light will signalize that
active	the doors will get unlocked, and the Green light will show this
previous	the doors will get into their previous state when the Power went off. If initially inactive, then the value set at BlockedByDefault parameter will be used

- Specify all the doors/gates to be controlled via this particular console, using the **ControlledDoors** parameter (of the **DotHskDoorConsole** script, which is attached at the instance of the console prefab). The same doors/gates can be placed to **ControlledDoors** list of many consoles.
- Check the **ConsoleList** parameter of the **DotHskDoorControl** script, for there should be all the consoles that are controlling this door. Please do not edit this list, because it is automatically made.

TIPS

To set a mode for multiple doors which are handled by single console, specify the mode of the first door in the **ControlledDoors** list. If necessary, multiple consoles can manage one door and a single console can manage many doors. If having such a tricky situation, please keep in mind:

- the mode of the first door in the **ControlledDoors** list is displayed by the console, and only the mode of the first door in that list is taken into account when switching modes;
- all the consoles that handle the same doors are equal in functionality.

Be careful at making complex door control configurations. If set up incorrectly, some doors may get into unexpected modes.

If the doors are operated by console, it is recommended to switch their mode using the following methods of the **DotHskDoorControl** script attached to the first door/gate object in the **ControlledDoors** list:

Useful public methods of **DotHskDoorControl** class

void SetPowerMode(bool isOn)	Allows to switch on/off the Power of the door. For each door, this method saves and restores its stance "active/blocked" and considers the value of the parameter OpenIfPowerOff . Acceptable values for isOn parameter are bool true (for turning the power on) or bool false (for turning the power off).
void SetMode(dotHskDoorMode mode)	Allows doors/gate blocking and unblocking. The method can set off any of the available modes; however, for switching the power on/off, it is recommended using SetPowerMode() method. Acceptable values are dotHskDoorMode.{mode_id} , where mode_id is one of following literals: active , blocked , inactiveOpen , inactiveClosed , brokenOpen , brokenClosed (see list of operating modes above).

DotHskDoorConsoleCollider script (attached to **Console_Trigger** GameObject)

Texture Banner	On-screen hint image (source file HSK_Gui.psd included in Assets > Heavy Station Kit > _common > Textures > GUI)
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Elevator

Refers to prefabs

HSK Colony	C_EL_Platform, C_EL_Platform2 Assets > Heavy Station Kit > COLONY > Prefabs > Elevator
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SETTING UP THE ELEVATOR

1'st Step. Place the Platform (Cabin) of the Elevator in the scene.

TIPS

Two platform types are available and they differ by pre-installed consoles:

- The platform **C_EL_Platform** is using console **C_EL_Console**, which provides keyboard input for selecting specific floor, and for selecting underground level stories an additional modifying button should be used.
- The platform **E_EL_Platform2** is using console **C2_EL_Cons2**, which shows list of the available floors on the graphical panel, and allows selecting of the required floor using mouse button via "touchscreen".
- Tip:** While operating touchscreen elevator console "C2_EL_Cons2" Player may have an item in their hands. Usually, the use of console behaves through pressing the same button, which is binded for use of an item in the hands of the Player - if that is the case, you can add callback-functions (see the "Recommended **Specific solutions**" Easy FPS section below)

2'nd Step. Place Consoles of the Elevator on all floors and at the Platform of the Elevator.

TIPS

Coordinate at Y axis of the Console's origin point is used for positioning Platform of the Elevator on according floor.

3'rd Step. Script setup

A. Main settings (script DotHskElevator2, assigned as child component to Platform Object):

1) Optional, only for custom (non C_EL_Platform or C_EL_Platform2) platforms:

- Assign to property "Platform" - Platform object.
- Attach Platform Console:
 - for C_EL_Console - assign to property "Platform Console" of DotHskElevator2 script Console object that is placed at the Platform of the Elevator.
 - for C2_EL_Cons2 - assign Platform object (C_EL_platform2) to property "Elevator 2" of DotFPCElevator2ConControl script attached to C2_EL_Cons2 prefab.

2) Set number of Floors of Elevator at property "Size" of list "Floors" and to each element of the list:

- Assign appropriate Console objects to property "Console"
- At "Elevator Label" property set a symbolic ID code of Elevator title for displaying on digital panel (only for C_EL_Platform2)

TIPS

At Console assignment, readonly "Floor Height" property of an appropriate element of list "Floors" shows the height of the floor (Y-axis).

- Using slider bar "Floor Number" for each element set hotkey for selecting Floor number at Console of Elevator.

TIPS

At configuring script while in Edit Mode, numbers of floors are automatically modified, so they stay unique;

Supported range of the number of floors is from "-9" to "9". While in game, hold modifier key (by default "Shift", can be changed via DotControlCenter prefab) to type in Negative, or in other words, Underground floor number.

- At the "Floor title" property set floor title for displaying on a digital panel (only for C_EL_Platform2).

3) At the "Current floor" property set floor, on which Platform of Elevator will be at start of the game. So the platform should move to such floor.

TIPS

At this property should be assigned an index of the appropriate element from the "Floors" list. This differs from the actual floor number.

4) Set platform movement speed at the property "Platform Speed".

B. Optional - customize movement sounds (script DotHskElevator2, assigned as child component to Platform object of the Elevator):

1) Assign to property "Platform Sound Source" AudioSource object, attached at Platform of the Elevator.

2) Assign at "Start Sound", "Motion Sound" and "Stop Sound" properties AudioClip with corresponding sounds, such as starting, movement and stop.

TIPS

Duration of AudioClip "Start Sound" defines the amount of time that takes Elevator to accelerate, and "Stop Sound" - braking of Elevator till stopping.

C. Optional - customize Displays of Consoles (script DotHskElevator2Events, assigned as child component to Platform object of the Elevator)

1) Assign to property "Display Up Mat" material for the upper display of the console, which shows the number of the current floor at standby mode as well as at movement of the Platform.

2) Assign to property "Display Dn Mat" material for the bottom display of the Console at Floors, which shows the state of the Elevator - "Movement up", "Movement down" or "Standby".

3) Assign to property "Display Dn Platform Mat" material for the bottom display of the Console at Platform, which shows the number of the desired floor while Elevator is running.

TIPS

Every elevator that is placed within the scene, **must use a separate set of materials for displays**. Because for showing identical information at Consoles script is modifying property *sharedMaterial* of *Renderer* object. Detailed information on preparing materials for Displays and configuring the **DotAnimatedTexture** script can be found in the "Displays" section below.

Useful public properties & methods of **DotHskElevator2** class

int currentFloor	The Property contains the internal number of the current floor, to move the elevator platform use the method call()
bool call(int floor)	"Call" elevator platform to specified floor , the method will return false if action can't perform
Texture CallElevatorTip, EnterFloorTip	On-screen hint images (source file HSK_Gui.psd included in <i>Assets > Heavy Station Kit > _common > Textures > GUI</i>)

D. Optional – attach callback routines

Attach callback routines for events, arising when graphical panel (*console C2_El_Cons2*) activated when the player approaches the console and deactivated when the player moves away from the console (script **DotHskElevator2ConControlCol**, assigned as child component to **C_El_Collider** - child of graphical panel console **C2_El_Cons2**), see example in chapter "Third-party Character Controller Requirements" below

Useful public properties & methods of **DotHskElevator2ConControlCol** class

UnityEvent OnDisplayActivated	The property contains callback procedures that are called when the graphic panel is activated*
UnityEvent OnDisplayDeactivated	The property contains callback procedures that are called when the graphic panel is deactivated*

* Create callback procedures as script methods attached to some **GameObject** in the scene and assign them to the specified properties

Shuttle

HSK Dugout kit contains a set of prefabs that implement the functionality of character-controlled shuttles of various designs, including:

Refers to prefabs (HSK Dugout kit only)

Shuttle <i>Assets > Heavy Station Kit > DUGOUT > Blueprints > Shuttle Systems</i>	Shuttle frame <i>Base shuttle prefab - contains the shuttle frame with connected main control scripts</i>
DBPS_II_Cons_0, DBPS_II_Cons_1, DBPS_II_Cons_2, DBPS_II_Cons_3 <i>Assets > Heavy Station Kit > DUGOUT > Blueprints > Shuttle Systems</i>	Console <i>Control console for activating the shuttle control mode</i>
DBPS_EE_Turb_L, DBPS_EE_Turb_Left, DBPS_EE_Turb_Left1, DBPS_EE_Turb_Right, DBPS_EE_Turb_Right1, DBPS_EE_Turb_S <i>Assets > Heavy Station Kit > DUGOUT > Blueprints > Shuttle Systems</i>	Turbine <i>Several variants of animated jet turbines working in conjunction with the shuttle controller</i>
DBPS_EE_Chass_0, DBPS_EE_Chass_1, DBPS_EE_Chass_2 <i>Assets > Heavy Station Kit > DUGOUT > Blueprints > Shuttle Systems</i>	Chassis <i>Several variants of animated chassis</i>
Follow Camera <i>Assets > Heavy Station Kit > DUGOUT > Blueprints > Shuttle Systems</i>	Follow Camera <i>Follow camera for organizing the user interface when controlling the shuttle</i>

SETTING UP THE SHUTTLE

1'st Step. Place the prefab **Shuttle** in the scene and build the shuttle body from the components of the DUGOUT and other HSK packages, place the interior elements, install the landing chassis, turbines and control consoles, adhering to the following rules:

1) all elements of the shuttle structure, including turbines, chassis and static cameras, should be placed in the **Shuttle Model** container, and it is desirable to place static cameras in the **Static Cameras** folder.

2) all **Follow Cameras** must be placed outside the **Shuttle Model** container, it is recommended to place them in the **Follow Cameras** container.

3) If it is necessary to organize remote control of an unmanned shuttle from the ground, the corresponding control console should be located outside the **Shuttle Model** container.

2'nd Step. Add to the **Flight Colliders** object the minimum number of **Sphere**, **Capsule** or **Box** Colliders needed to roughly represent the fuselage shape. These colliders are necessary for physical interaction with other objects in the scene at the time of flight, since at this time all other colliders attached to **Objects** in the **Shuttle** container are disabled.

3'rd Step. Script settings

1) DotHskShuttleSupports (attached to **Shuttle Model** object in **Shuttle** prefab)

- Attach first person controller (**FPC_Player** prefab) to **Person Controller** property
- Attach shuttle turbines to array **Turbines** property

- Attach shuttle chassis to array **Chassis** property
- Attach all (static and follow) cameras to array property **Cameras**:
 - to item **Camera** attach object with **Camera** component
 - to item **Listener** attach object with **AudioListener** component
 - in the **Hot Key** item set a hotkey that will activate the corresponding camera

2) DotHskShuttleFollowCamera (attached to **Follow Camera** prefab)

- Attach **Shuttle Model** object (**Shuttle** prefab) to property **Target**

3) DotHskShuttleTurbine (attached to turbine prefab)

- Adjust (if necessary) the **Place** and **Location** properties, see the **DotHskShuttleTurbine** script below for details.

4) DotHskShuttleCollider (attached to **Trigger** object of **DBPS_II_Cons_{N}** prefab)

- Attach topmost **Shuttle** container object (with **DotHskShuttleController** script attached) to **Shuttle Controller** property.

5) FPC_Shuttle (*Assets > Heavy Station Kit > _common > Scripts > FPC > FPC_Shuttle.cs*)

- Attach **FPC_Shuttle** script to **FPC_Player** object.

Shuttle scripts overview

A) **DotHskShuttleController** class provides the main shuttle functionality - handling user input and flight control

DotHskShuttleController class

General settings Section

<i>Rigidbody</i> Model	Reference to Shuttle Model object with Rigidbody attached
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Hot Keys Section

<i>KeyCode</i> SwitchEngine (Z)	Hot key to turn on / off jet turbines
<i>KeyCode</i> Quit (X)	Hot key to exit flight control mode
<i>KeyCode</i> Forward (W)	Hot key for moving forward
<i>KeyCode</i> TurnLeft (A)	Hot key for turning left
<i>KeyCode</i> Backward (S)	Hot key for backward movement
<i>KeyCode</i> TurnRight (D)	Hot key for turning right
<i>KeyCode</i> StrafeLeft (Q)	Hot key to strafe to the left
<i>KeyCode</i> StrafeRight (E)	Hot key to strafe to the right
<i>KeyCode</i> Upward (Space)	Hot key for takeoff up
<i>KeyCode</i> Downward (Left Ctrl)	Hot key hotkey for going down
<i>float</i> TurnForce	The force applied to the model when turning

Forces Section

<i>float</i> ForwardForce	The force applied to the model when moving forward (backward)
<i>float</i> ForwardTiltForce	Force of downward tilt of the shuttle bow when moving forward
<i>float</i> TurnTiltForce	Lateral tilt force of the shuttle when turning and / or strafe
<i>float</i> StrafeForce	The force applied to the model when strafe
<i>float</i> LiftForce	Force applied to the model when going up and / or going down
<i>float</i> FreeFallForce	The force of “gravity” applied to the model in free fall when the engines are turned off
<i>float</i> TurnTiltForcePercent	Percentage of tilt power when turning

Wiggling Section

<i>float</i> WiggleAmplitude	The angular amplitude of the shuttle tilts when wiggling. The shuttle tilts between 50% and 100% of the specified amplitude
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<i>float</i> WiggleDuration	Oscillation period of wiggling, sec
<i>float</i> WiggleDelay	Delay from the last press of any control key until the shuttle enters wiggle mode, sec
<i>float</i> WiggleMinHeight	The minimum height of the shuttle hovering above the surface, starting from which the wiggling mode can be activated

Miscellaneous Section

<i>float</i> FreeFallHeight	The height of the shuttle above the surface during downward movement, below which the descent speed begins to be limited. This prevents the shuttle structural elements from falling under the surface upon landing
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Other public properties and methods

<i>bool</i> Operate	R/W Property. Activates (true) or deactivates (false) shuttle control mode. When the shuttle control mode is activated, the character controller is disabled and the shuttle control interface is activated
<i>bool</i> EngineAct	R/o property. Contains "true" if engines are activated and "false" otherwise
<i>bool</i> OnGround	R/o property. Contains "true" if the shuttle is on the surface (on ground) and "false" otherwise
<i>OnChangeStatus</i> changeStatus	R/W Property. Callback (delegate) that is activated when the shuttle status changes, declared as <i>public delegate void OnChangeStatus(Rigidbody rb, HSKShuttleStatus param, Vector4 control)</i> , where <ul style="list-style-type: none"> • rb – Ridgitbody of shuttle • param – type of event (<i>enum HSKShuttleStatus</i>): <ul style="list-style-type: none"> ◦ stNone – no events ◦ stBegin – activate shuttle control interface ◦ stEnd – deactivate shuttle control interface ◦ stStart – start engine ◦ stStop – stop engine ◦ stControl – user input received • control – array (Vector4) of user input: <ul style="list-style-type: none"> ◦ item 0 / x – Turn Left / Right ◦ item 1 / y – Forward / Backward ◦ item 2 / z – Upward / Downward ◦ item 3 / w – Strafe Left / Strafe Right

B) **DotHskShuttleCollider** class provides operation of shuttle console (activation of the shuttle control mode) and displaying the GUI prompts

<i>DotHskShuttleCollider</i> class	
<i>DotHskShuttleController</i> ShuttleController	Reference to the topmost shuttle container object with an attached DotHskShuttleController
<i>KeyCode</i> Interact	Hotkey to activate the shuttle control mode
<i>Texture2D</i> shuttleControlStartTip, shuttleEngineOnTip, shuttleFlightModeTip	Images for corresponded GUI prompts
<i>bool</i> DisplayGUIMenu	If true, then GUI prompts are displayed, does not apply to the shuttleControlStartTip prompt, which is displayed when the character interacts with the control console

C) **DotHskShuttleSupports** class, provides control of turbines, chassis and cameras, and is also responsible for interacting with the character controller

<i>DotHskShuttleSupports</i> class	
<i>DotHskShuttleController</i> ShuttleController	Reference to Shuttle container object with DotHskShuttleController script attached
<i>GameObject</i> PersonController	Reference to FPC_Player object (first person controller)
<i>KeyCode</i> ToggleChasis (C)	Hotkey for opening / closing the chassis
<i>List<DotHskShuttleTurbine></i> Turbines	List of references to Turbine objects with DotHskShuttleTurbine script attached
<i>List<DotHskMov></i> Chasis	List of references to Chassis container object with DotHskMov script attached
<i>List<DotHskShuttleCamera></i> Cameras	List of references to Camera game object with Camera component attached

D) **DotHskShuttleTurbine** class provides control over the audio-visual effects of the turbine operation – rotation, humming and flame display

<i>DotHskShuttleTurbine</i> class	
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<i>Transform</i> Item	Reference to the Transform component of the rotating part of a jet turbine
<i>Renderer</i> NozzleRenderer	Reference to game object with Renderer of turbine Nozzle attached
<i>AudioSource</i> SoundSource	Reference to game object with attached Turbine AudioSource
<i>AudioClip</i> StartSound, MoveSound, StopSound	Audio clips for, respectively, starting, working and stopping noise of the turbine
<i>Light</i> NozzleLight	Reference to Nozzle light source
DotHskTurbinePlace Place DotHskTurbineLocation Location	Place of the turbine on the shuttle fuselage, affects the tilt of the turbine in the process of changing the direction of flight, allowable values: Place – <i>static, left, right</i> Location – <i>middle, front, rear</i> Turbine with Place set to “static” remains stationary. In general, the Place value affects all types of movement, and Location value affects the strafe
bool PlaySounds	If true , turbine noise will be reproduced
float BackwardAngle, ForwardAngle, VerticalAngle, MiddleAngle	Boundary rotations of the turbine in appropriate situations
float Responsivity	Turbine rotation speed

Note. The source file **HSK_DUGOUT_FONT.psd** with sample font for the shuttle displays and source file **HSK_Shuttle_GUI.psd** with on-screen hints with shuttle modes are included in the *Assets > Heavy Station Kit > _common > Textures > GUI* folder.

Ladder

SETTING UP THE LADDER*

1. Attach control script (**FPC_Ladder** class) to **FPC_Player** GameObject.
2. Assign tag **Ladder2** to all GameObjects that have Ladder Colliders attached to.

Refers to prefabs

HSK Base	Ladder1, Ladder2 <i>Assets > Heavy Station Kit > BASE > Prefabs > Ladders</i>
HSK Hangars	GW_Ladder <i>Assets > Heavy Station Kit > HANGARS > Prefabs > Gateway</i>
HSK Colony	C_Basin_Ladder <i>Assets > Heavy Station Kit > COLONY > Prefabs > Floors</i> C_Vent_4m, C_Vent_9m <i>Assets > Heavy Station Kit > COLONY > Prefabs > Ventilation</i>
HSK Dugout	DAI_EE_Ladder_0, DAI_EE_Ladder_1 <i>Assets > Heavy Station Kit > DUGOUT > Prefabs > Type A Interior</i> DBCP_II_Ladder <i>Assets > Heavy Station Kit > DUGOUT > Prefabs > Type BC Props</i> DSP_II_Ladder <i>Assets > Heavy Station Kit > DUGOUT > Prefabs > Type S Props</i>

Useful public properties of *FPC_Ladder* class

Texture **tipOnLadder**,
tipOffLadder

On-screen hint images (source file **HSK_Gui.psd** included in *Assets > Heavy Station Kit > _common > Textures > GUI*)

*Settings mentioned above allow for a link between Ladders and class **FPC**, which are part of **Heavy Station Kit Asset**.

Other animated prefabs

Refers to prefabs

HSK Dugout kit

<i>DAI_II_Stairs_Uni</i>	Swivel gangway	<i>Assets > Heavy Station Kit > DUGOUT > Prefabs > Type A Interior</i>
<i>DAI_II_End_Vent_Door</i> , <i>DAI_II_End_Vents_Dn</i> , <i>DAI_II_End_Vents_Up</i>	Ventilation grill	
<i>DBI_II_End_Vent</i>	Ventilation grill	<i>Assets > Heavy Station Kit > DUGOUT > Prefabs > type B Interior</i>
<i>DCI_II_End_Vent</i>	Ventilation grill	<i>Assets > Heavy Station Kit > DUGOUT > Prefabs > type C Interior</i>
<i>DAP_EE_Radar</i>	Rotating radar	<i>Assets > Heavy Station Kit > DUGOUT > Prefabs > Type A Props</i>
<i>DBCII_Hatch_HSK</i>	Sliding hatch	<i>Assets > Heavy Station Kit > DUGOUT > Prefabs > Type BC Interior</i>
<i>DBCP_II_Fan</i>	Industrial fan	<i>Assets > Heavy Station Kit > DUGOUT > Prefabs > Type BC Props</i>
<i>DBCP_II_Switch1</i> , <i>DBCP_II_Switch2</i>	Switches	
<i>DS_Door</i>	Doors with folding ladder	<i>Assets > Heavy Station Kit > DUGOUT > Prefabs > Type S Props</i>
<i>DSP_II_Capsule_1</i> , <i>DSP_II_Door_Left</i> , <i>DSP_II_Door_Right</i> , <i>DSP_II_Storage_x</i> , <i>DSP_II_WC</i> , <i>DSP_II_WC&Shower</i> etc	Animated furniture and plumbing fixtures	
<i>DBPS_EE_Chass_0..2</i>	Shuttle Chassis	<i>Assets > Heavy Station Kit > DUGOUT > Blueprints > Shuttle Systems</i>

HSK Colony kit

<i>C_Vent_Grid</i>	Ventilation grill	<i>Assets > Heavy Station Kit > COLONY > Prefabs > Ventilation</i>
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The prefabs listed above are controlled by the universal **DotHskMov** script

Public properties of *DotHskShuttleSupports* class

<i>dotHskDoorMode</i> mode	Operating mode (see list of operating modes in "Doors & Gate2" section)
<i>int</i> repeatMotion	If 0 – movements are automatically repeated in an endless loop, if 1 or more – the movements are initiated by script and repeated the specified number of times
<i>bool</i> reverseOddCycles	If true – movement performed in the opposite direction in every odd cycle
<i>float</i> delay	Pause between movement cycles, sec
<i>float</i> motionTime	Duration of one cycle of movement (excluding the pause)
<i>List<dotHskMovFlap></i> movFlaps	List of animated object elements
<i>float</i> almostOpenPosition	Flaps position in "Broken open" state (0 – fully closed, 1 – fully open)
<i>float</i> almostClosedPosition	Flaps position in "Broken closed" state (0 – fully closed, 1 – fully open)

A helper class that implements the functionality of a separate moving element

Public properties of *dotHskMovFlap* class

<i>Transform</i> flap	Refer to Transform component of Flap object
<i>Vector3</i> openPosition , openRotation	Position and rotation of Flap in "Open" state

<i>Vector3</i> closedPosition, closedRotation	Position and rotation of Flap in "Close" state
<i>Int</i> turnStep	Angle of rotation for one phase of rotation. If the specified angle is less than 10 degrees, the number of rotation phases is calculated automatically. Phase breakdown of the rotation cycle is performed to ensure smooth rotation.

First Person Character Controller

Refers to prefabs

ALL Kits	FPC <i>Assets > Heavy Station Kit > _common > Prefabs</i>
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FPC class is a simple First Person Character Controller class. **FPC** class is independent from deprecated Unity Standard Assets and provides support for all the original functionality implemented in the **Heavy Station Kit** assets.

Useful public properties of FPC class

"Speed" section

<i>float</i> walkingSpeed	Regular rate of horizontal movement
<i>float</i> runningSpeed	Increased rate of horizontal movement (hold "Shift" by default); has impact on crouch movements
<i>float</i> climbingSpeed	Ladder movement rate
<i>float</i> jumpSpeed	Jumping rate of movement; has impact on crouch movements

"Look" section

<i>float</i> lookSpeed	Rate of Camera rotation
<i>float</i> lookXLimit	Scope of Camera rotation

"Features" section

<i>float</i> crouchSpeedRatio	relation of crouching speed to regular
<i>float</i> crouchHeightRatio	relation of crouched Character Controller height to regular

"Climbing" section

<i>bool</i> climbingAutoStart	If True, allows to climb once in Ladder Collider area; else interaction starts by a key ("E" by default)
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Other Settings

<i>bool</i> canMove	If False (default True), Player can only sit, look and to be subjected under the effects of gravity.
<i>float</i> gravity	Gravitational Force
<i>Camera</i> playerCamera	Player Camera

Dot Control Center

Refers to prefabs

ALL Kits	DotControlCenter <i>Assets > Heavy Station Kit > _common > Prefabs</i>
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The *DotControlCenter* prefab is made to be a convenient center for centralized control of the general settings of other prefabs from **Heavy Station Kit** set either in an active scene or in the entire application.

Place *DotControlCenter* prefabs in every scene, if it is necessary to control settings of the prefabs individually. On the other hand, to control settings in the entire application place *DotControlCenter* prefab in the starting scene of the project and tick checkbox "Use in Other Scenes".

List of parameters available for setup:

Shortcuts

InteractShortcut*	"One-buttoned" interaction (default - "E" key)
CrouchShortcut	Toogling character mode to Crouch/Walk (default - "C" key), applied for <i>FPC</i> prefab
FlashlightShortcut	Turning flashlight either ON or OFF (default - "L" key), applied for <i>FPC</i> prefab

Shortcut modifiers	
Basement Floors ModifierKey 1, Basement Floors ModifierKey 2	Modifier buttons to input negative floor number on floor selection console of the Elevator, and is used in conjunction with keys "1".."9" to form an appropriate negative variant "-1".."9" (default -"Left shift" and "Right shift" keys), applied for C_EL_Platform
Settings	
Use In Other Scenes	If the check mark is set, the DotControlCenter object will not be destroyed when a new scene is loaded
Track Changes Settings	If the check mark is set, the settings changes will be tracked and applied in each update application cycle
*) With the modification of <i>InteractShortcut</i> it would be obvious to update corresponding on-screen hints. Graphical source file HSK_Gui.psd included in <i>Assets > Heavy Station Kit > _common > Textures > GUI</i>	

Displays

Refers to prefabs

ALL Kits *Assets > Heavy Station Kit > BASE / HANGARS / COLONY / DUGOUT > Prefabs > Displays*

Displays use **DotAnimatedTexture** Script, designed for cycled playback of single or multiple frame sequences assigned to the material.

Prepare material

Recommendations for material creating and setup:

1. Frame sequences must be inside textures. And then you put the textures in the **Main Maps** section of the Material.
2. The size of the texture should provide optimal space for all of the frame sequences.
3. Positioning of frame sequences on the texture map is done in the following order - from left to right and from top to bottom. So at first, the row is being made, then other rows add, filling texture map to the bottom.
4. Setup for parameter **Tiling** for **Main Maps**:

$X = 1.0f / \{columns_count\}$, where {columns_count} is a number of frames that are placed horizontally;

$Y = 1.0f / \{rows_count\}$, where {rows_count} is a number of frames that are placed vertically.

SETTING UP THE SCRIPT

1. After the material was assembled, assign it to the desired object.
2. To the same object, script **DotAnimatedTexture** is being attached. Script's parameter **Material Total Frames** is set automatically for a maximum number of frames that can be in the material. The chosen number of frames depends on the values of the **Tiling** parameter for **Main Maps**.
3. General script configuring:
 - Active Sequence** – the number of current sequence for playback (zero-based);
 - Size in Sequences** tab – total number of frame sequences in the animated material;
 - FPS** – number of frames per second on playback;
 - Show warnings** – allows for displaying errors in Console if configuring the script in EditMode (Disabled by default)
4. Individual setup of single or multiple frame sequences, on tab "Element N" of the "Sequences" tab.
 - Total Frames** – total number of frames of this particular frame sequence;
 - First Frame** – first frame number, of this particular frame sequence element, in relation to the first frame number on the Material (zero-based);
 - Starting Frame** – sequence playback starts with this frame (zero-based);
 - Randomly** – if checked, frames to playback will be chosen on random.

Notes

1. At script setup in EditMode, animated material shows the starting frame (parameter **Starting Frame**) of selected sequence (parameter **Active Sequence**). This allows for a visual preview of animated material. Frame sequence cannot be run in EditMode, for this select GameMode.
2. For switching between frame sequences inside of Script in GameMode it is necessary to assign sequence number (zero-based) to public property **activeSequence** of an appropriate DotAnimatedTexture script component.
3. Please keep in mind that, if making a Prefab from an Object with the already attached script, then assigned material will drop out of Prefab. Restoring material is possible within the Inspector, selecting Prefab in Project window and assigning material manually. Then, for preview picture of Prefab to display correctly, it is advised performing Reimport.

Recommended

General settings for 3rd party FPC

to work with Heavy Station Kit

(For Opsive UFPS 2.0 and Easy FPS see the Specific solutions below)

1. Character collider should not exceed **1.8m** in height and **0.7m** in diameter.
2. For **most scripts** to respond (interaction with the elements of Heavy Station Kit Asset like Doors, Consoles, etc), tag **Player** must be set either in Character Controller collider or in any of its parent Game Objects.
3. **Elevator display console C2_EL_Cons2** (included in Heavy Station Kit colony asset) requires tag **MainCamera** set in player camera.
4. To use **Ventilation** 3rd party FPC must support **crawling** or **crouching**. Additional requirements are height of player collider **<0.8m**, height of player camera **<0.65**. Size of vent unit is **1m x 1m**.
5. To use **Ladders** (including ventilation ladders) 3rd party FPC must support that.
6. To avoid falling through in narrow space parameter **Clipping plane: Near** must be set at lowest point **0.01m**.

Recommended

Specific solutions

for Heavy Station Kit to work with Opsive UFPS 2.0 and Easy FPS

Opsive UFPS 2.0

<https://assetstore.unity.com/packages/templates/systems/ufps-ultimate-fps-106748>

Issue: All UI elements of UFPS got added to console display C2_EL_Cons2 instead of main screen, after adding UFPS UI to scene which has console display.

Solution: It happens because C2_EL_Cons2 has CANVAS and UFPS2 script applies UI to first CANVAS it can find. Simply **temporarily disable** all Elevators which has C2_EL_Cons2 *mounted on E_EL_Platform2* **before** adding UI (*Tools → Opsive → Ultimate Character Controller → Main Manager → Setup → UI Setup → Add UI*). Don't forget to **enable all Elevators back** when UI was added.

TIP: Out of the box UFPS doesn't support **Crawling** (*Ventilation*) and **Climbing** (*Ladder*). Yet you can use their documentation to implement that features yourself at:

<https://opsive.com/support/documentation/ultimate-character-controller/character/abilities/new-ability/>

Easy FPS

<https://assetstore.unity.com/packages/3d/characters/humanoids/easy-fps-73776>

Issue: While operating touchscreen elevator console "C2_EL_Cons2" Player may have an item in their hands. Usually, the use of console behaves through pressing the same button, which is binded for use of an item in the hands of the Player - the possible solution to add a script and to attach methods:

Solution Step 1

Attaching **script**. Simply add script listed below to any GameObject within scene, *(or include the code to existing script)*:

```
using UnityEngine;
class ElevatorDisplayToggle : MonoBehaviour {
    public GameObject playerObject = null;
    private GunInventory playerScript = null;
    private bool currentGunState = true;
    public void Start() {
        if( playerObject != null ) { playerScript = playerObject.GetComponent<GunInventory>(); }
    }
    public void OnDisplayActivated() {
        // Some code that is executed when the character approaches the display console
        if( (playerScript != null) && (playerScript.currentGun != null) ) {
            currentGunState = playerScript.currentGun.activeSelf;
            playerScript.currentGun.SetActive(false);
        }
    }
    public void OnDisplayDeactivated() {
        // Some code used when moving a character away from the display console
        if( (playerScript != null) && (playerScript.currentGun != null) ) {
            playerScript.currentGun.SetActive(currentGunState);
        }
    }
}
```

Solution Step 2

Attach **methods** OnDisplayActivated() / OnDisplayDeactivated() to graphic display console collider (ELEVATOR game object → C_EL_Platform2 game object → C_EL_Collider game object → DotHskElevator2ConControlCol Script component → On Display Activated () / On Display Deactivated properties)

Installation Guidelines

Step 1. Create clean 3D Project / Color Space – Linear (*Recommended*).

Step 2. Install Unity Post Processing Package (*Window – Package Manager – Post Processing – Install*).

Step 3. Download and install Heavy Station Kit Asset.

Current version of this documentation can be downloaded from
https://dotteam.xyz/pdf/Heavy_Station_Kit_2022.pdf



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