Map Making for Sector's edge

This guide is more complementary to Caspooky's guide which has some outdated information and only covers magicavoxel surface rather than a full guide that could stand by itself.

Capsooky's guide : Making a map for Sector's Edge

Please note that this guide does not contain all information, i won't cover :

- Full list of textures (Ask Vercidium to get it, I don't have it either)
- How to use json, useful links at the end

1) Before the first blocks :

Some useful information with files

- Having your map inside the game :

To get your map in the game and to be able to travel to it you need to add a folder for each different map at this path :

```
C:\Program Files (x86)\Steam\steamapps\common\SectorsEdge\workshop\maps
```

steamapps > common > Sectors	sEdge > workshop > maps	ٽ ~	,⊂ Reche
Nom	Modifié le	Туре	Taille
🔄 Wildlands	15/04/2021 14:28	Dossier de fichiers	
	18/02/2021 13:16	Dossier de fichiers	
🔄 Static Coliseum	10/04/2021 14:17	Dossier de fichiers	
🔄 Sniper outpost	09/04/2021 20:00	Dossier de fichiers	
🔄 Shooting range	26/02/2021 12:13	Dossier de fichiers	
	30/03/2021 14:17	Dossier de fichiers	
Microworld	16/04/2021 19:10	Dossier de fichiers	
🔒 Laser Tag	05/04/2021 16:06	Dossier de fichiers	
	18/02/2021 13:16	Dossier de fichiers	
Colony	05/03/2021 18:06	Dossier de fichiers	
📊 Coliseum	25/02/2021 16:41	Dossier de fichiers	
🔒 Cave Temple	10/03/2021 10:33	Dossier de fichiers	
📊 Aegis Spaceship	18/02/2021 13:16	Dossier de fichiers	
📄 sh.json	15/04/2021 16:44	Fichier JSON	11 Ko

Each folder corresponds to one map

Inside each folder you will add one **vox** and one **json** file with the same name.

	r	NEWS	STORE	PLAY	CAREER	CUSTOMISE	
	SHIP	LOADOUTS	WEAPONS	CHARACTER	KILLCAM	BLOCKS	MAPPING
Colicour icon	Tin dia	MAP LIST	LOCA	L SUBSCRI			
Coliseum.json		Aegis Spaceshi map VOX JSON JPC S	atter	S.A.	▶ 🗄 ,		0

maps will show here (will show red if either vox, json or preview image is missing, orange/yellow if you have errors in your json)

- About Static arena template :

As you may already know, to create a static map you need to have a special json condition, to fulfil these, I highly recommend taking Vercidium's template in the workshop for the vox and json. The path to it is :

C:\Program Files (x86)\Steam\steamapps\workshop\content\1024890\2358065412

📙 « steamapps > workshop > co	ontent > 1024890 > 2358065412	~	ට 🔎 Reche
Nom	Modifié le	Туре	Taille
📄 arena.id	10/04/2021 13:45	Fichier ID	1 Ko
📄 arena.json	16/04/2021 10:04	Fichier JSON	3 Ko
📄 arena.vox	10/04/2021 13:45	Fichier VOX	4,747 Ko
📄 preview.jpg	10/04/2021 13:45	Fichier JPG	379 Ko

here what you will get if you subscribed to it in the workshop

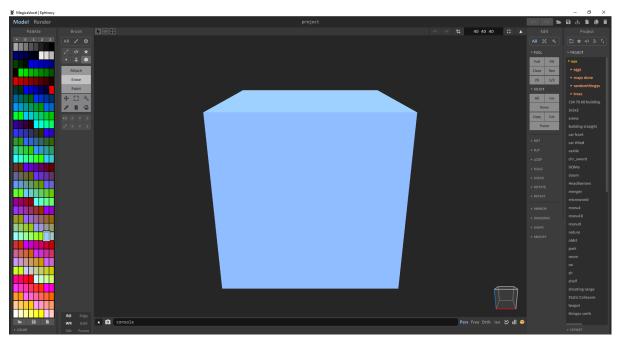
- Modifying vox with magicavoxel :

The Vox files that you will be able to access inside of magicavoxel need to be here : MagicaVoxel-0.99.6.2-win64\vox

		,		
eggs	18/02/2021 12:31	Dossier de fichiers		
naps done	11/02/2021 16:45	Dossier de fichiers		
randomthingys	15/04/2021 15:08	Dossier de fichiers		
r trees	17/02/2021 17:31	Dossier de fichiers		
3x3x3.vox	11/03/2018 19:45	Fichier VOX	29 Ko	
📄 134 70 60 building.v	15/04/2021 15:51	Fichier VOX	433 Ko	
arena.vox	10/04/2021 13:59	Fichier VOX	5,362 Ko	
building straight.vox	20/11/2020 11:19	Fichier VOX	54 Ko	
📄 car front.vox	26/01/2021 14:57	Fichier VOX	24 Ko	
car tilted.vox	31/01/2021 14:30	Fichier VOX	24 Ko	▼ PROJECT
castle.vox	11/03/2018 19:45	Fichier VOX	40 Ko	
chr_sword.vox	11/03/2018 19:45	Fichier VOX	31 Ko	▼ vox
DOMe.vox	15/02/2021 10:46	Fichier VOX	2,539 Ko	
📄 doom.vox	11/03/2018 19:45	Fichier VOX	44 Ko	► eggs
Headhunters.vox	11/03/2021 15:11	Fichier VOX	8,932 Ko	5
menger.vox	11/03/2018 19:45	Fichier VOX	654 Ko	maps done
microworld.vox	31/03/2021 11:31	Fichier VOX	3,144 Ko	► randomthingys
monu1.vox	11/03/2018 19:45	Fichier VOX	642 Ko	
📄 monu9.vox	11/03/2018 19:45	Fichier VOX	157 Ko	► trees
📄 monu10.vox	11/03/2018 19:45	Fichier VOX	618 Ko	424.70.001-011
nature.vox	11/03/2018 19:45	Fichier VOX	325 Ko	134 70 60 building

you can even create folders to separate WIPs, unrelated, and prefabs you will get them on the right panel in the app

As you're not modifying the vox inside the map folder directly you will have to copy the file after each modification to the folder



2) Onto Magicavoxel :

this is what you get when launching magicavoxel

- Palette :

The far left panel "palette" is for everything about what index you use when placing blocks, the color itself isn't important for Sector's Edge but its still nice to have the same color as the texture in game.

For optimisation Vercidium limited the amount of indexes for maps, as such you will be able to use only 64 indexes (1 to 64) which correspond to the lower part of the panel.

Caspooky's "pal_SETutorial" palette because it stops at index 64 and, while using his example json, all textures and indexes have similar colors



Note that the two lowest lines have special effect in game

Note that 10-16 textures can't be changed (some have even been used for players paid blocks textures)



You can modify each index color by selecting it and messing with the 3 values inside the color tab under the palette. It will update in real time.



invincible
 invisible
 glass

reinforcedreserved

10-16 - reserved

- player built blocks

- magma

floating (e.g. IS icebergs)explosive (soltrium canisters)

- Size :



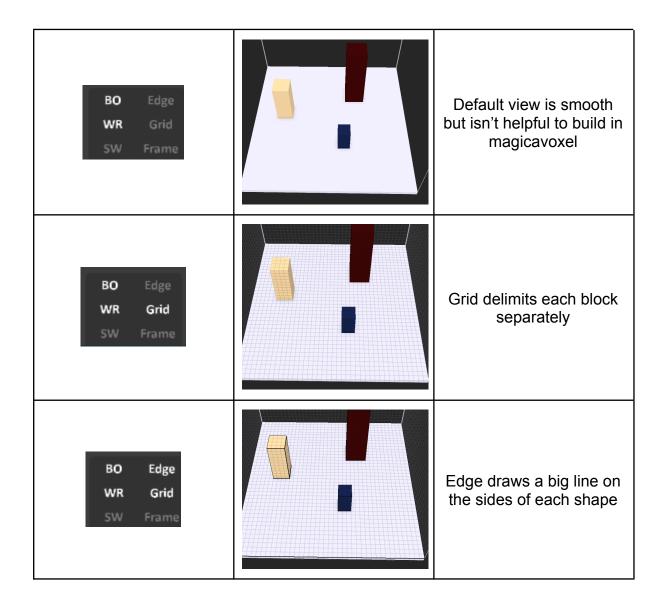
-Resize it manually 4, and undo/redo these modifications

-Enter all coordinates 40 40 40

-Make it so the object fits perfectly inside

Max size for an object is 256x256x256

- the cool panel :



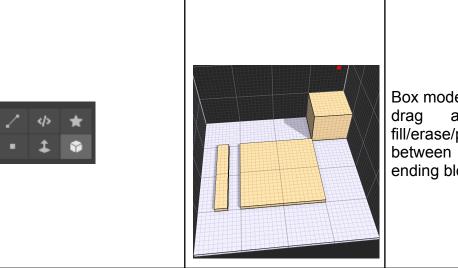
BO Edge WR Grid SW Frame	Not very useful to build but ultra bright blocks are less bright :p
BO Edge WR Grid SW Frame	Frame does a 10x10 delimitation which depends on the object not on the blocks

- Placing Blocks, brush panel !

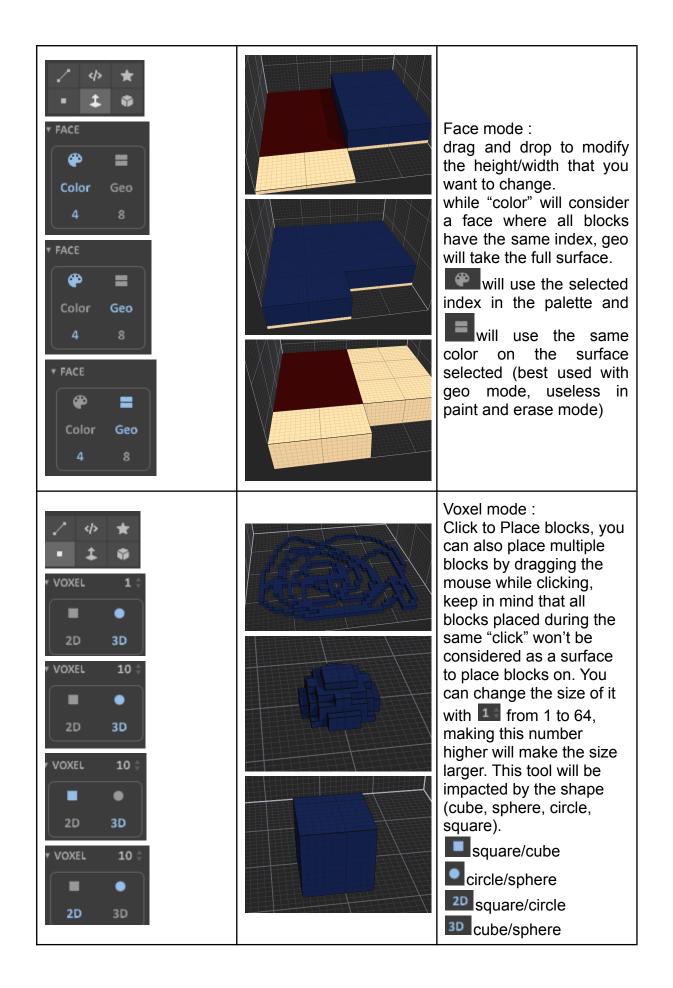


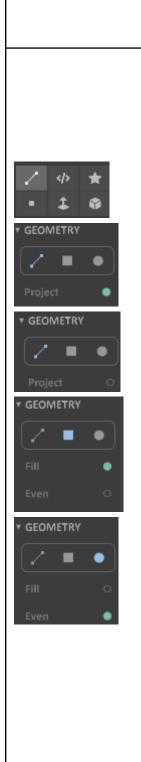
Place blocks Erase blocks Paint blocks (*These 3 should be self-explanatory*)

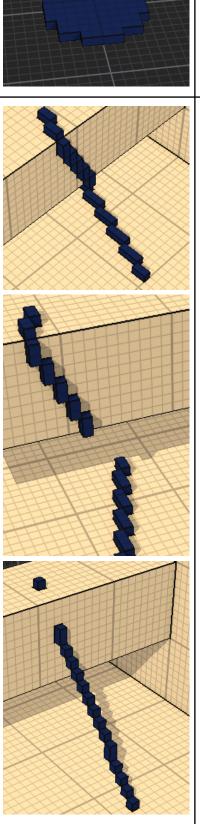




Box mode : drag and drop to fill/erase/paint the space between the starting and ending block







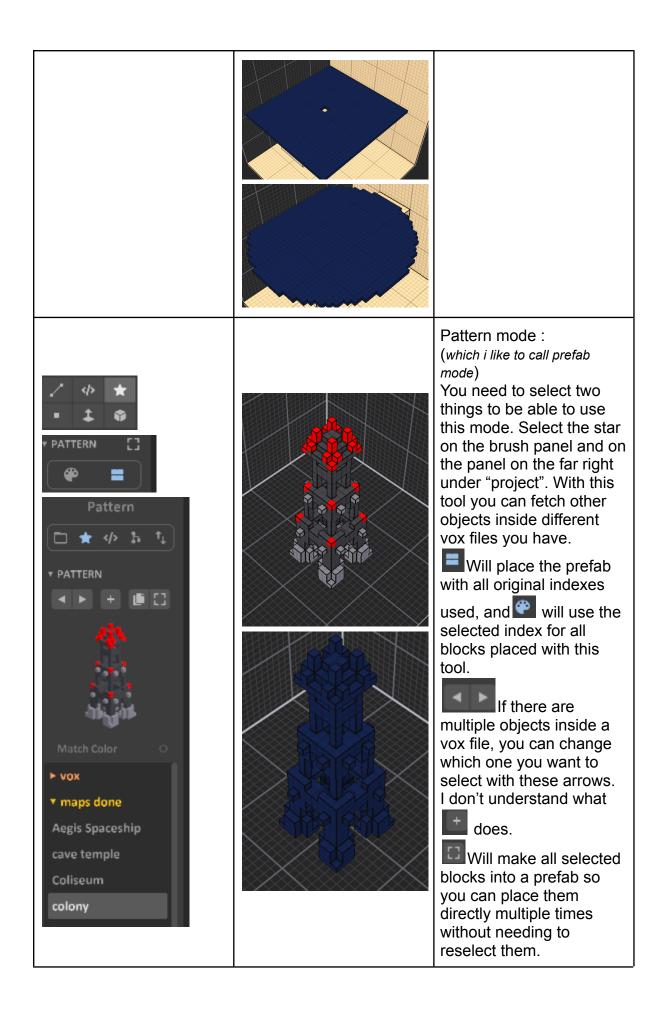
Geometry mode : Drag and drop Geometry mode has 3 inner modes, line, square, and circle. (*Although line is the only one I use I will still explain*).

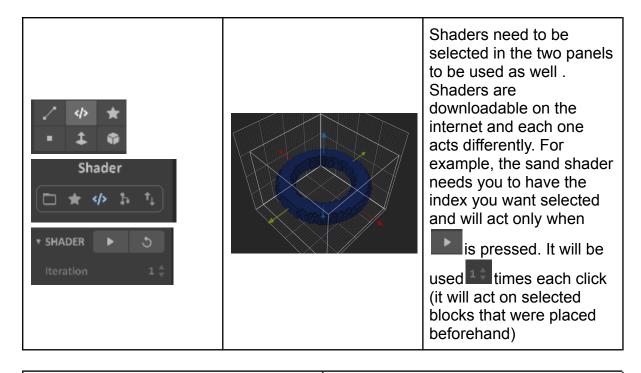
Line will do a direct line from the first point to the last point with a twist,

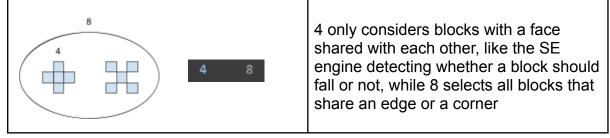
, if enabled, will glue the line between the two points onto surfaces, if both surfaces are separated so will the line. Disable it and it will be the most direct line possible between the two points. Square/circle will draw a square/circle using the first selected block as the center and and dragging to create the width.

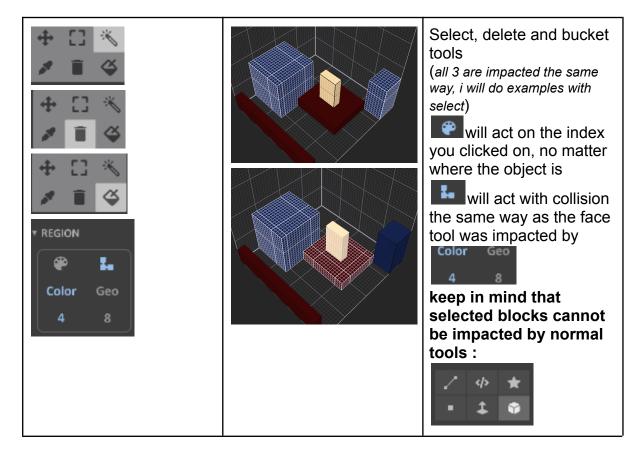
Even Causes the square/circle to have a 2x2 center instead of a 1x1 center when enabled.

Fill Fills the center of the shape when enabled (will leave only the first point empty)









 ▼ REGION Color Geo 4 8 ▼ REGION Color Geo 4 8 	
	Pick color will change the selected index in the palette depending on the index of the block you clicked on
MARQUEE MARQUEE MARQUEE MARQUEE MARQUEE MARQUEE Arrow in red string in orange	Marquee mode : a way to select blocks based on their location and not their index. draws a square on your screen and every block within, no matter if they are hidden behind another block or not, will be selected. Will select with a shape depending on the normal tool you selected (here: box mode) create an area which can be fully modified (<i>size</i> <i>with the strings, position with</i> <i>the arrows</i>), every block inside this area is selected.

TRANSFORM TRANSFORM	Modification tool : this tool will work on the selected blocks, if there are no selected blocks then it will act on the whole object. depending on the surface you click on, you will be able to move that surface in two directions, but only one at a time (<i>if</i> <i>you click on the side and move</i> <i>up you won't be able to move</i> <i>to the sides</i>), when moving blocks outside the object, the blocks will not disappear but will be moved on the opposite side of the object will show a similar area as but when moving the arrow/pulling the strings will act on the blocks inside too you can set it so every X blocks (<i>here 10 in all</i> <i>direction</i>) it will repeat the selection when pulling the strings Rotation, blue is z axis, green is x axis, and red is y axis. The grey circle axis is from the camera center
▶ 4 X Y Z	Mirror mode : every block placed/deleted/painted will be the same on the other side of the axis selected to deselect any mirror mode but you can click the axis again to deselect

	x and y at the same time	it
.≯ X Y Z	clicked once with x activated	Axis mode : everything done somewhere will be made across the whole selected axis (<i>like placing a block</i> <i>makes a complete line</i>)

- The edit panel :

- Full will make the entire object filled with the selected index.

- Fill will change every selected block index to the selected one.

(if no block selected then it will apply to the whole object)

- Clear will delete the selected blocks.

(if no blocks are selected then it will apply to the whole object)

- Rev will reverse the state depending on the selected index and blocks, empty will be filled with selected index and selected will be emptied.

(if no blocks are selected then it will apply to the whole object)

- 2x and $\frac{1}{2}$ modify the size of the selection, if there is no selection the

object itself will be scaled **80 80 80** (2x on a 40 cubed object will double the coordinates, since an object max size is 256 cubed, any object bigger than 128 cubed will not get an exact 2x scale).

- All will select all blocks inside the object.
- Inv will inverse selection

- None deselects any blocks, if no new selection is done anything working on selection will act on the whole object.

- Copy copies the selection.

(if no blocks are selected then it will apply to the whole object)

- Cut copies and deletes the selected blocks.

(if no blocks are selected then it will apply to the whole object)

- Paste pastes what you copied or cutted, i recommend using to select where it was pasted and be able to move it (*it will be pasted in the exact location it was copied*).

- Rot, same as 🖆 but only by 90° counterclockwise turns, works on the selection

(no selection = whole object)



- Flip, like a mirror but ain't keeping the original (*no selection = whole object*)

Edit				
All 🏼 🤰	<u> ২</u>			
* TOOL				
Full	Fill			
Clear	Rev			
2X	1/2			
▼ SELECT				
All	lnv			
No	ne			
Сору	Cut			
Paste				
► ROT				
► FLIP				
► LOOP				
► SCALE				
► SHEAR				
► ROTAT	E			
► REPEAT				
► DIAGO	NAL			
► SHAPE				
► MODIFY				



- Scale scales the selection based on the axis written, the number is the multiplicator

(no selection = whole object)

xyz 2

-Shear <u>_(ソ)_</u>/ (no selection = whole object)

y 0.2 0.2

- Rotate is the same as the same as but you can set which axis it will turn around and by how much in °.

(no selection = whole object)

z 45

- Repeat will copy and paste the selection on the axis you set and how much. (*no selection = whole object*)

xy 2

(with this you get 4 times the selection)

- mirror the selection based on the side closer to the 0, Diagonal is similar. Don't recommend using them.

(no selection = whole object)

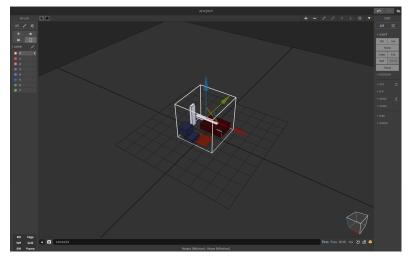


- Shape will shape everything inside the object and place one of the shapes available scaled to fit inside. (*Funny but not useful*). -Modify 「_(ツ)_/

Elli	Cyli	
Pyra	Cone	
Maze	Perlin	
Fractal		

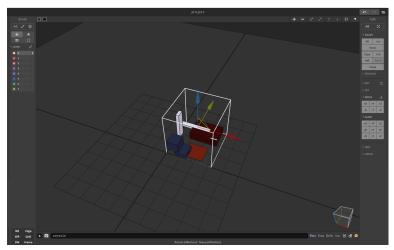
- Press Tab to get a new world :

Pressing tab brings you to the world screen, here you can move, add delete objects



here 3/4th of the object won't be visible

The most important thing to remember : everything in negative coordinates won't show in game.



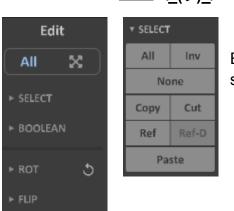
This is what you want to have everything ingame



Will allow you to move the object by dragging your mouse around

Is the same as normal but it will place the prefabs as new objects which is useful to have builds through two bigs prefabs

Is the same selection tool as in normal mode, each object completely inside the rectangle will be selected



₩ [¬]_(ツ)_/¯

Everything inside the select sub-panel is basically the same as normal :

select all, inverse selection, unselect all, copy, cut, paste (idk about ref/ref-D)



If you got multiple objects inside each other you can select them and press Union, it will merge them intersection will take only the part present in both (*i don't understand about inter/sub/rep/operand*)

As object rotation is simply ignored in SE its best to not use ROT, same

thing with flip

Move allow you to move the selected object block by block which is extremely useful

Hide and Order are useless for SE mapping and Align seems like a bad idea to me (*don't know how it works too*)

3) About Json

I won't cover all json details in this guide, you will get plenty other places and i'm bad with it anyway but here's some links that will help you greatly :

The page verc had to do to be allowed workshop in steam : https://sectorsedge.com/workshop Caspooky's guide [some things are outdated] : Making a map for Sector's Edge Some things are also posted in the map making channel and server for SE

preview.jpg needs to be tinier than 1 Mo