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## 

## General tips

* Leave version, and last edit tips when rewriting e.g. //1.13.1.4 extension made, surfaces can now move too

Tsc –watch in command prompt for it to watch the TS files and convert them to JS on save

## Level loading, with CSV

In General

- The index field is used to match to that ID, it must be unique

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Surface

DESIGN

start|endFrame what?

0 start block

1 connector | standalone

2 fan animation [width 128]

4 end block

5 welcome start [width 128]

7 cracking floor

8 hurting floor

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Caves

- uniqueIdenitifer must be different, or it isn't shown

- All images will be flipped to the inside automatically so be wary of startFrame

- Entrance as a boolean means "if I press 'up' here, I go into the cave", which logically only makes sense if the UI shows that. There could be some experimentation here with switches and jumping in later levels

- xMove and yMove tell the design where to go [see below] and oves the image from the start point e.g. a xMove of 2 is down 2 from the original startFrame setting

- caveWall and caveCeiling declare if you can be shot and | or if you can jump to this object. If you try to jump at a wall, you can't, bullets die.

o They can walk until they encounter one, so declare it around the cave or they'll be able to die out of bad design

DESIGN

[entrance]

- The door on its own is declared as heiggtY of 2 and xMove 0 for the right side, xMove is 2 for the left side.

- To make the door bigger you can add as many 0.5 height elements with a startFrame of 0 and an xMove of 2 [as default size is smaller than 0]

- This will automatically change to the inside of the door on "up"

- entrance should be true

[Wall]

- widthX is always 0.5 - due to the cave design

- an xMove of 1.5 states that this is the circuit walls [height of 2] which is a thicker circuit line

- Height of 0.5 and yMove of 3 will allow you to extend the wall down [lowest part of the wall above repeated]

- If you want a nice consistent wall, you should use widthX of 0.5, heightY of 1.5, yMove of 0.5 and xMove of 1.5 which will give you the "trunk" of the door. Just repeat this for the main cave structure

[Rugged Roof]

- x 0.5 to the right [or left], and an xMove of 1.5 [or 0] width of 1.25, height 0.5

[Cascading wall]

- yMove of .5 and xMove of 2. With is 1 and heightY is 0.5. That's for the hanging being on the right

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background [checkpoints]

- If you specify both a "checkpoint" of a negative number and "newLevel" with the name of the level it is a teleport to that

- If you specify a "message", that is a key which is used in the downloaded game. Enter will download it

DESIGN

start|endFrame what?

0 standard

2 Finish point

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Extra notes

CaveName, states what cave it appears in. inCave needs to be true too

## Level Loader, post CSV creation

General

Within services.levelServicesDefined, there is a method which loops over the files for the level, and as part of the websockets functionality, it calls the JS function

followMe.levelServicesDefined.client.addImageFromServer

followMe.addImage2 being the general end-point for the images and objects being loaded into the client’s game

Caves

Animating objects

if ((serveranimation.xend > 0 || serveranimation.yend > 0) && serveranimation.type != "caves")

then it calls

followMe.animateObject

which is part of the same file, and is in control of physical, and object-based movement.

**Usages**?

* General functionality
  + Xend declares how far x moves (multiple of 64px)
  + Yend declares how far y moves (multiple of 64px)
  + backToStartPoint declares if the object goes back around, or just stops. This would draw an oblong if the yend and xend were set
* Currently enemies can fly
  + Yend movement Based off “fly” attribute being true
* As part of <https://venoir.visualstudio.com/DefaultCollection/Venoir_Git/_workitems/edit/381>, surfaces will move too