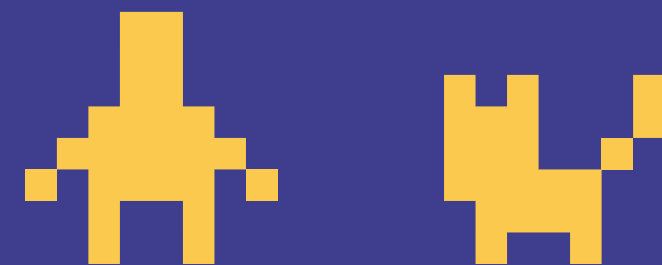


bitsy tutorial

by cecile richard @haraiiva



→ [bit.ly/BitsyWorkshop](https://bit.ly/BitsyWorkshop)

who am i? x

hello i'm **cecile**

i'm a melbourne-based **graphic designer/illustrator/zine-maker/comics artist/tiny game dev.**

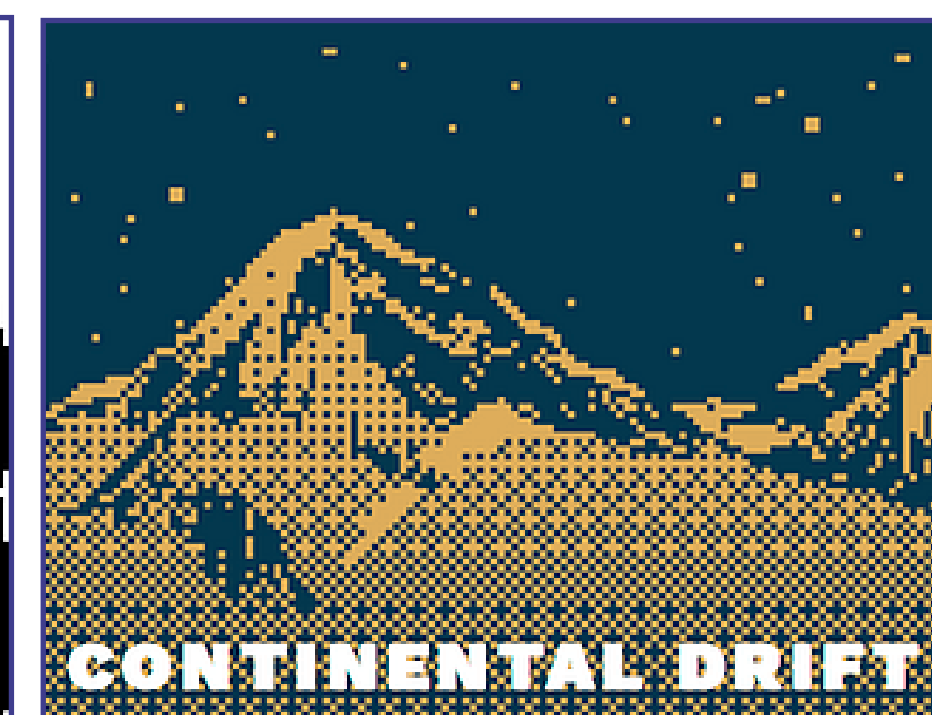
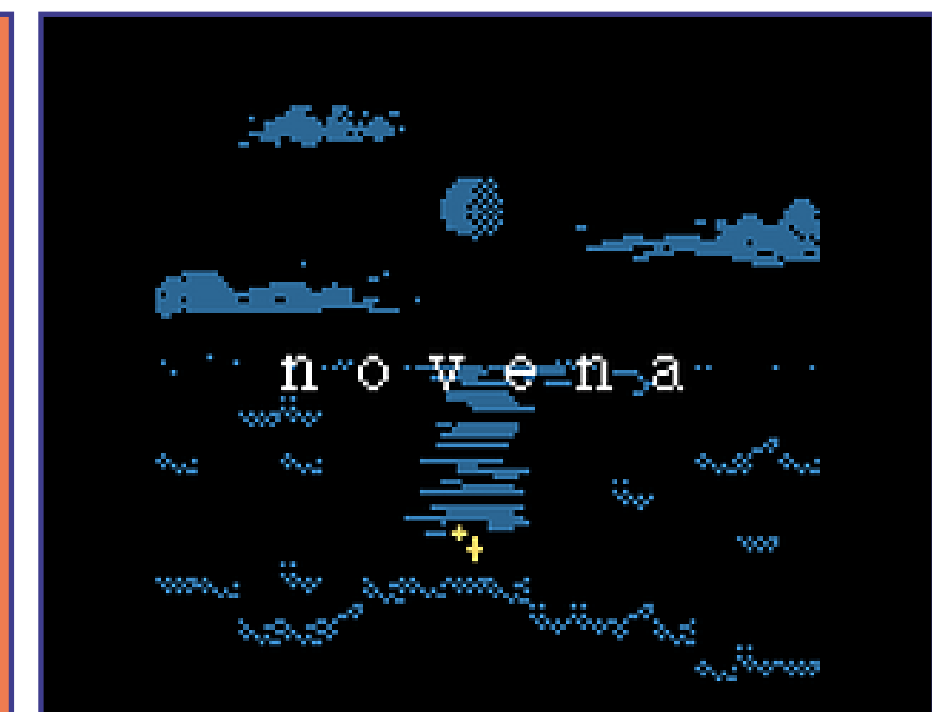
i make a lot of short, personal games using bitsy and i even won awards for some of them :o

where you can find me x

portfolio  
bitsy stuff  
twitter  
games

[cecile-richard.com](http://cecile-richard.com)  
[haraiva.neocities.org](http://haraiva.neocities.org)  
[@haraiva](https://twitter.com/haraiva)  
[haraiva.itch.io](http://haraiva.itch.io)

games i made x



## what's in this guide?



introduction to bitsy:

- what's bitsy? why use bitsy? what should i make in bitsy?

how to...

- bitsy basics: getting familiar with the editor
- drawing in bitsy
- room design
- exits & endings
- dialog & advanced dialog options
- colour palette, game data, settings, inventory, download game.

useful tools, tips, tutorials, bitsy game recommendations and more

how to share your bitsy game on itch.io

## what's bitsy?

×

“bitsy is a little editor for little games or worlds. the goal is to make it easy to make games where you can walk around and talk to people and be somewhere.”

– **adam le doux,**  
**creator of bitsy**

## i like bitsy because

×

- it's easy and satisfying to use.
- pixel art is (mostly) accessible and fun.
- it's versatile while also having constraints.
- the community is cool
- there's a bitsy jam every month!

## what should i make?

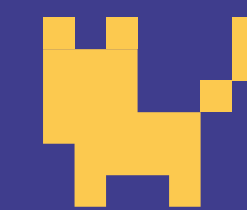
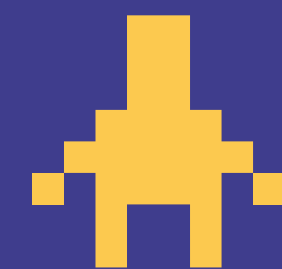
×

you can make (almost) anything! short narrative games are the most common, but you could also make a vignette game, or a tiny adventure. some people even made a bitsy mmo!

for inspiration, you can take a look at the [bitsy pieces twitter](#) or [claire morley's](#) cool examples of cool games at the bottom of [her tutorial](#).

bitsy has a growing, diverse, extremely supportive community, and is a genuinely exciting tool because of its versatility.

→ [ledoux.io/bitsy/editor.html](http://ledoux.io/bitsy/editor.html)



## bitsy basics



let's start with the basics.

once you have the editor open you can take a look at the various tools/panels. toggle your toolbar by clicking on the tools button next to the title field.

a **room** is a place or scene in your game world.

you can make multiple rooms that you connect with each other using **exits**.

a **tile** is a piece of scenery in your room. you can make your tile into a **wall**, making it impassable.

the **avatar** is the player character, which you control using the arrow keys, and you can interact with **sprites** by walking up to them.

an **item** is a sprite you can pick up. you can assign **variables** to your items if you want, but you don't have to.

an **ending** is an exit that ends the game. you can have multiple endings.

## buttons



navigate  
rooms/tiles/sprites



find specific  
room/tile/sprite



create new  
room/sprite



duplicate  
room/tile/sprite



duplicate  
room/tile/sprite/exit



toggle grid/  
walls/exits  
& endings view



toggle to make your  
tile a wall



toggle to make  
a 2-frame  
animation



add exits & endings in the room

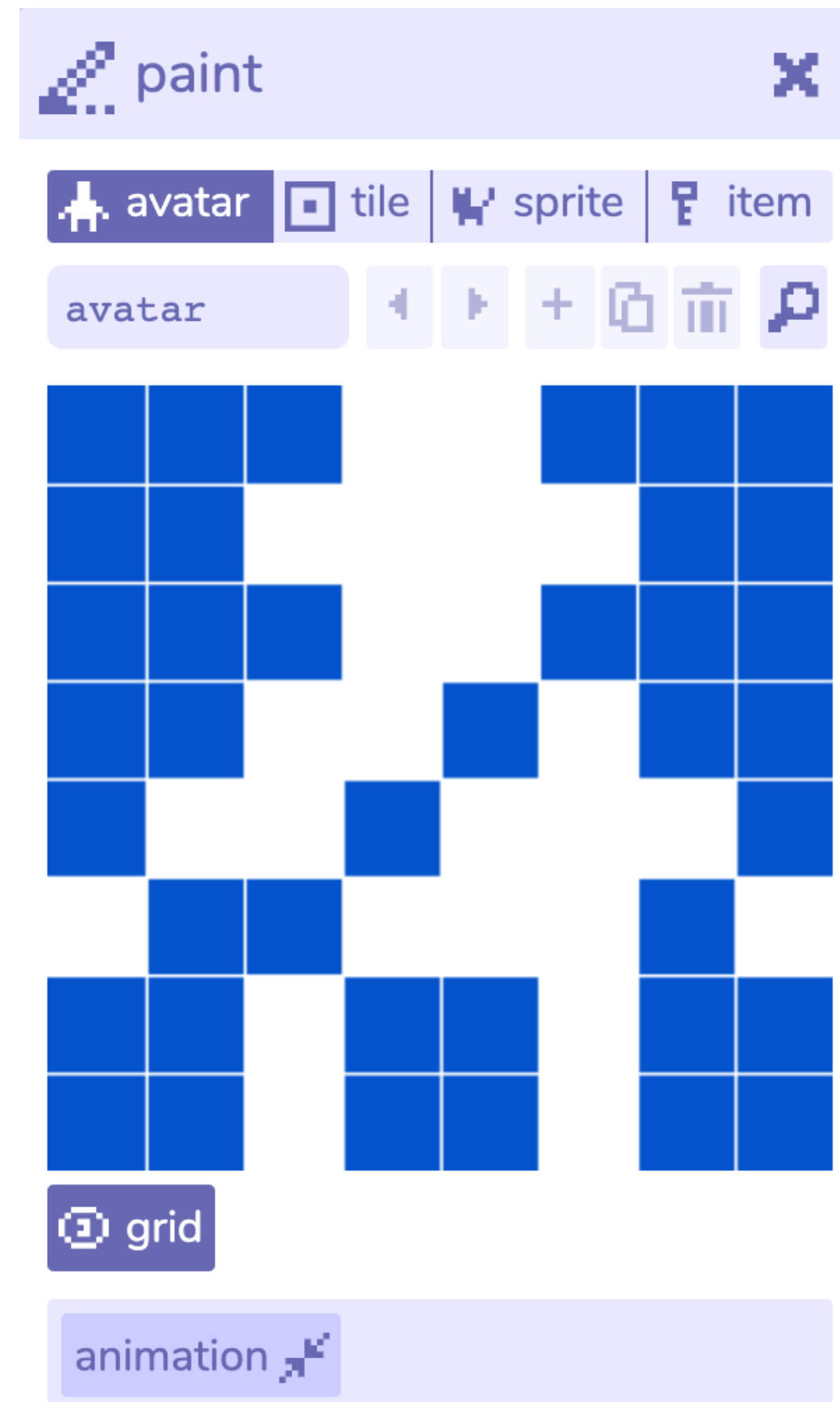
# drawing in bitsy

each tile and sprite's canvas is a **8×8 grid**.

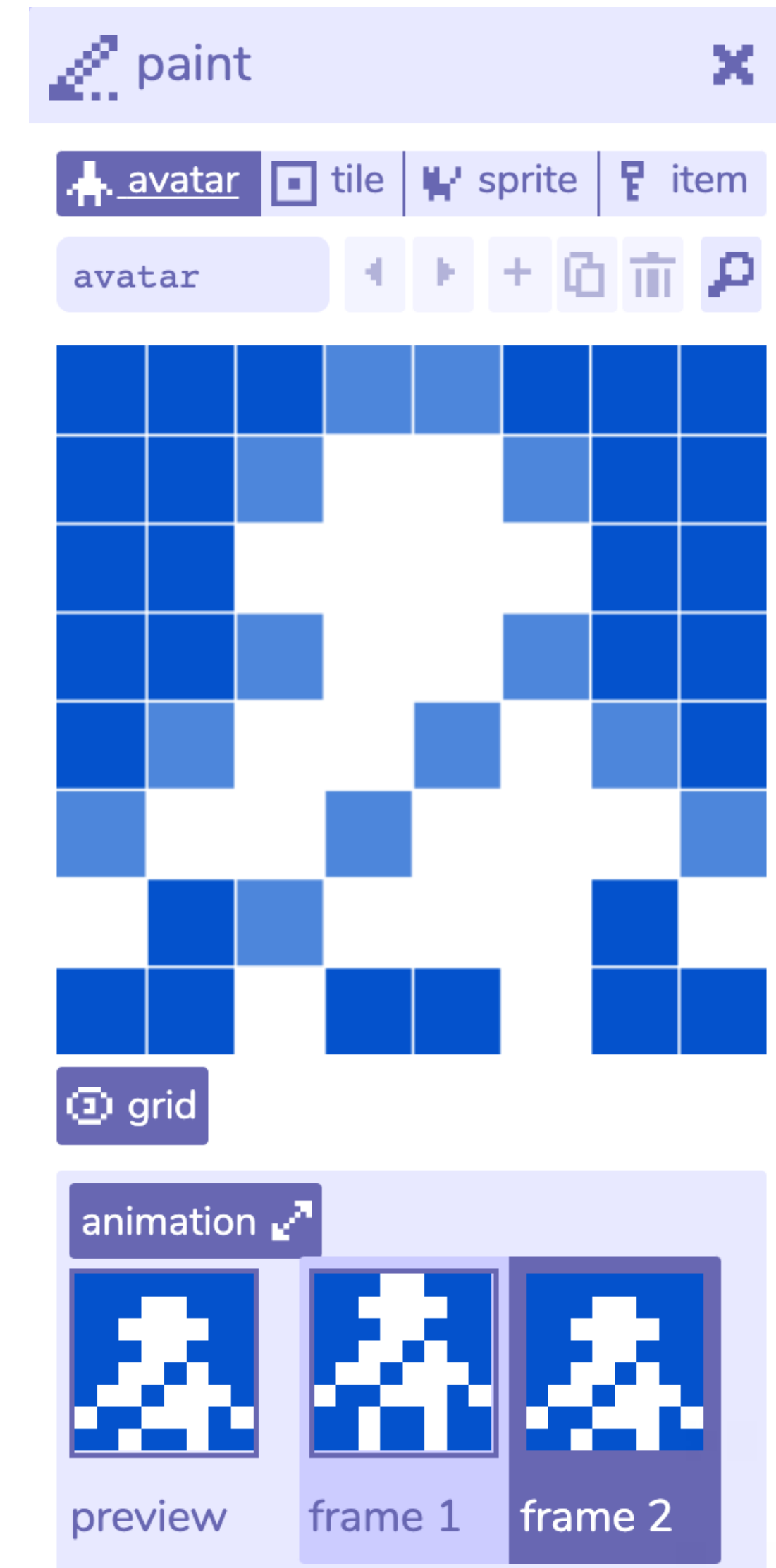
you can draw in the paint panel by clicking on the squares.

once you're done making your avatar, you can click **on animation** to make a **two-frame animation**. edit your second frame and now your avatar is moving!

this process is the same for tiles and sprites.



toggle for this for 2 frame animation





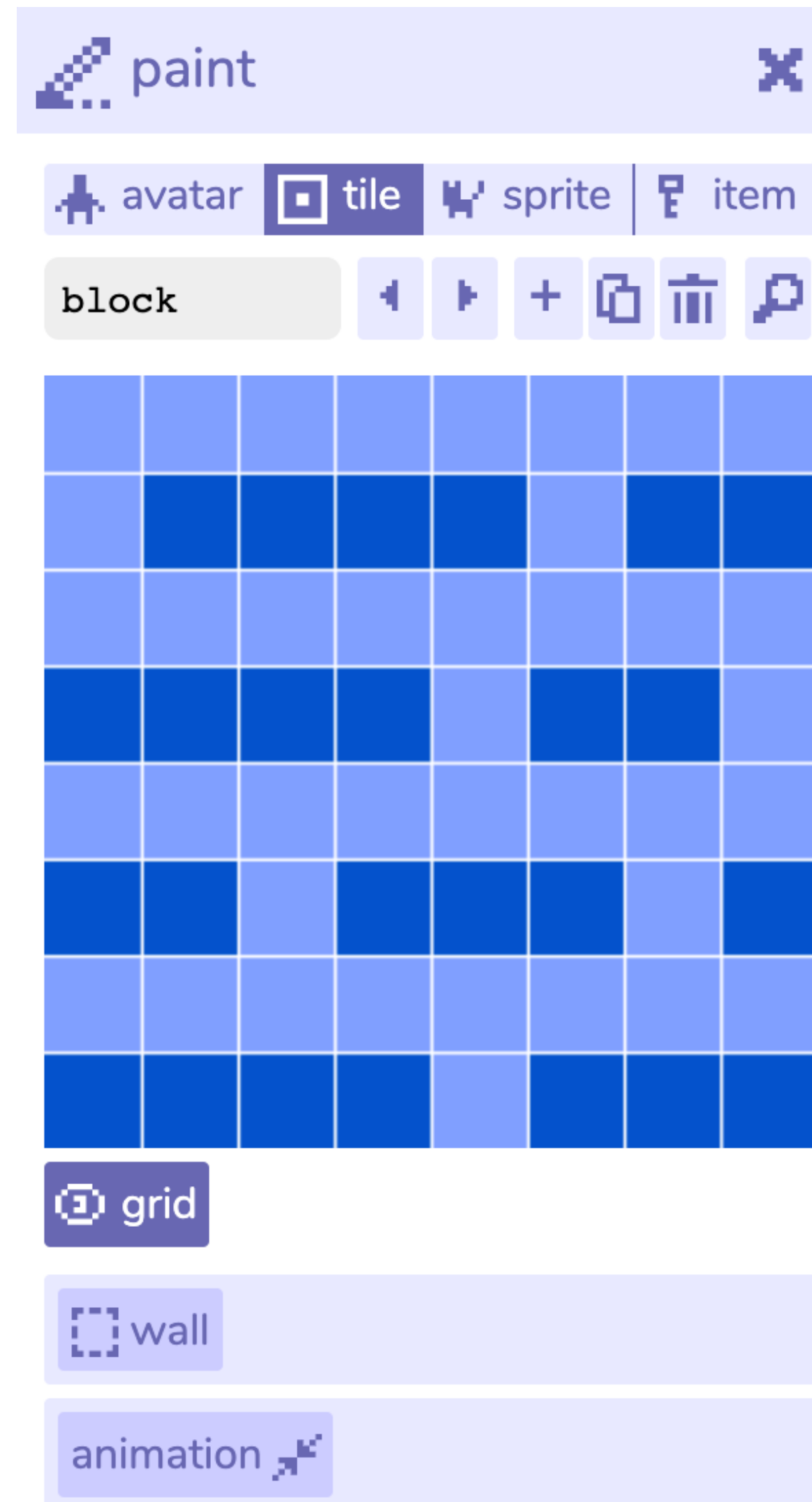
# drawing in bitsy

the one thing that's different in tiles is the `wall` button.

you can toggle this to make your tile **impassable**, which means your avatar can't go through, or on it.

**you can make as many tiles as you want.**

also, you can only have one iteration of a given non-item sprite in a game, so if you want multiples of the same sprite, you have to duplicate **them**.



# tips

**don't overthink your drawings!** in pixel art it's important to get across the essence of whatever you're drawing, but it's also okay to keep it vague. vagueness can bring interesting results.

**don't forget to name your tiles and sprites!** it's helpful when you end up having a lot of them and you can easily search them using the **find button**.

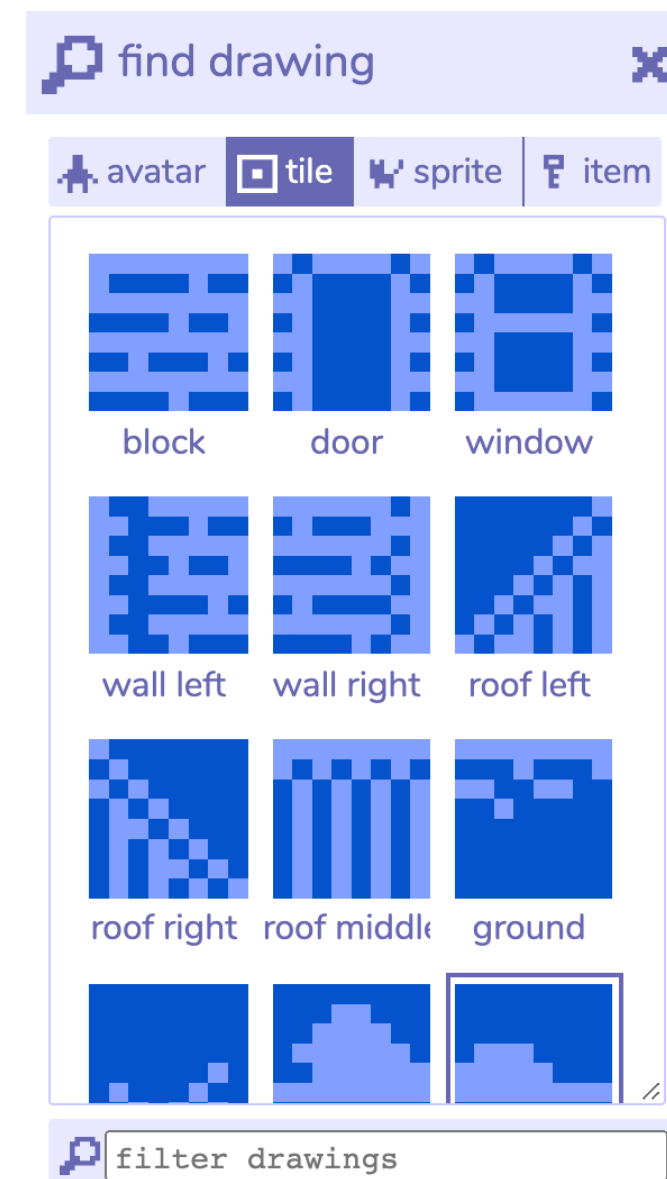


# room design

now that you have some sprites and tiles set up, it's time for some interior design. let's put the tiles in your **room**!

you can **find** your tiles and sprites easily in the find drawing panel.

place your tiles in your room. **click and drag** on the room if you want to place a tile multiple times quickly.



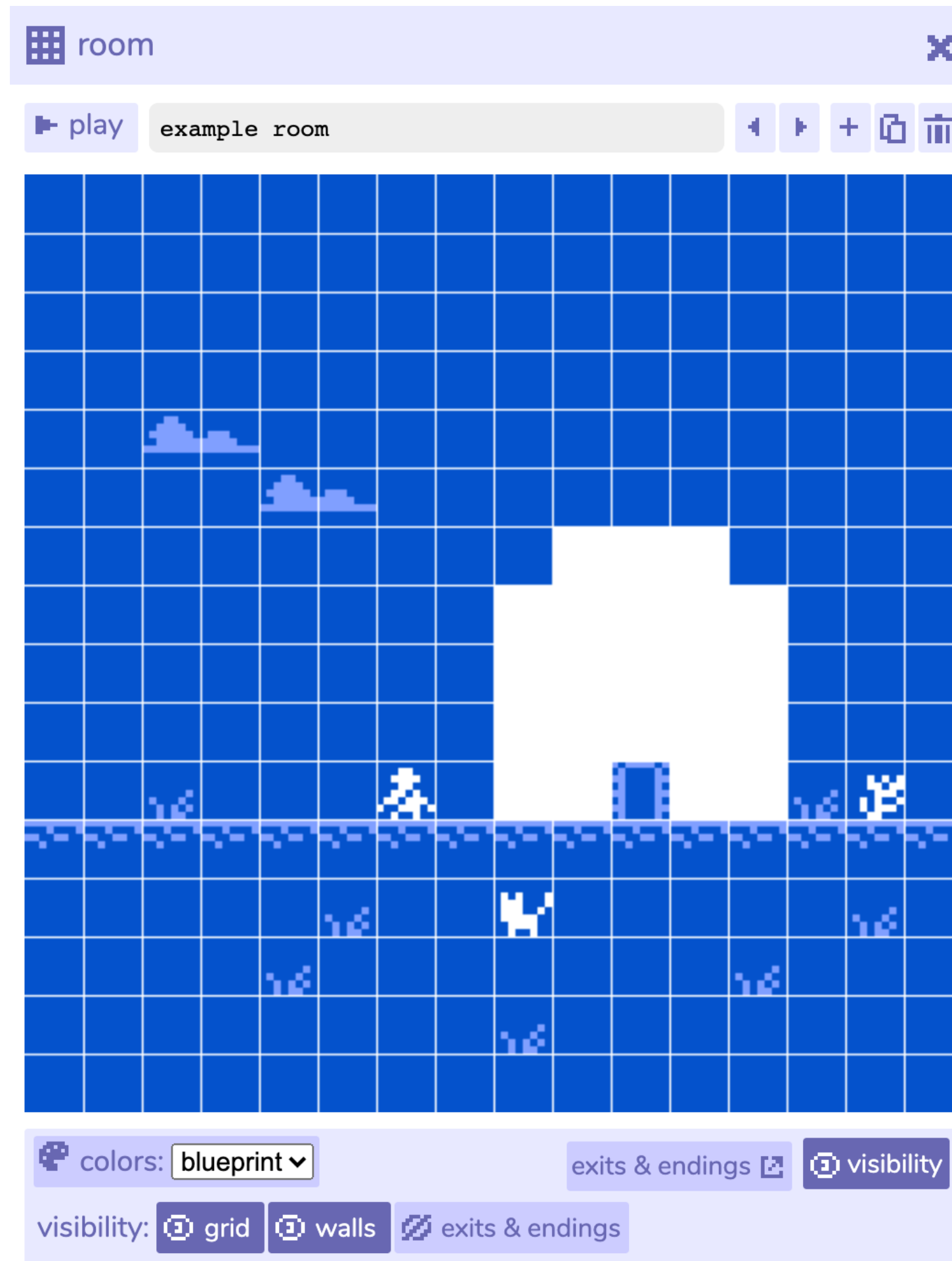
# room design



toggle the wall button in the room panel to see where your walls are.

click the play button to, well, play your game. that way you can check if your walls work, and you can also just get a feel of how to navigate your game.

once you have at least two rooms, you can connect them using exits.



# tips



i generally roughly plan out my rooms on paper, then create them, adding placeholder tiles where i want my walls and exits to be.

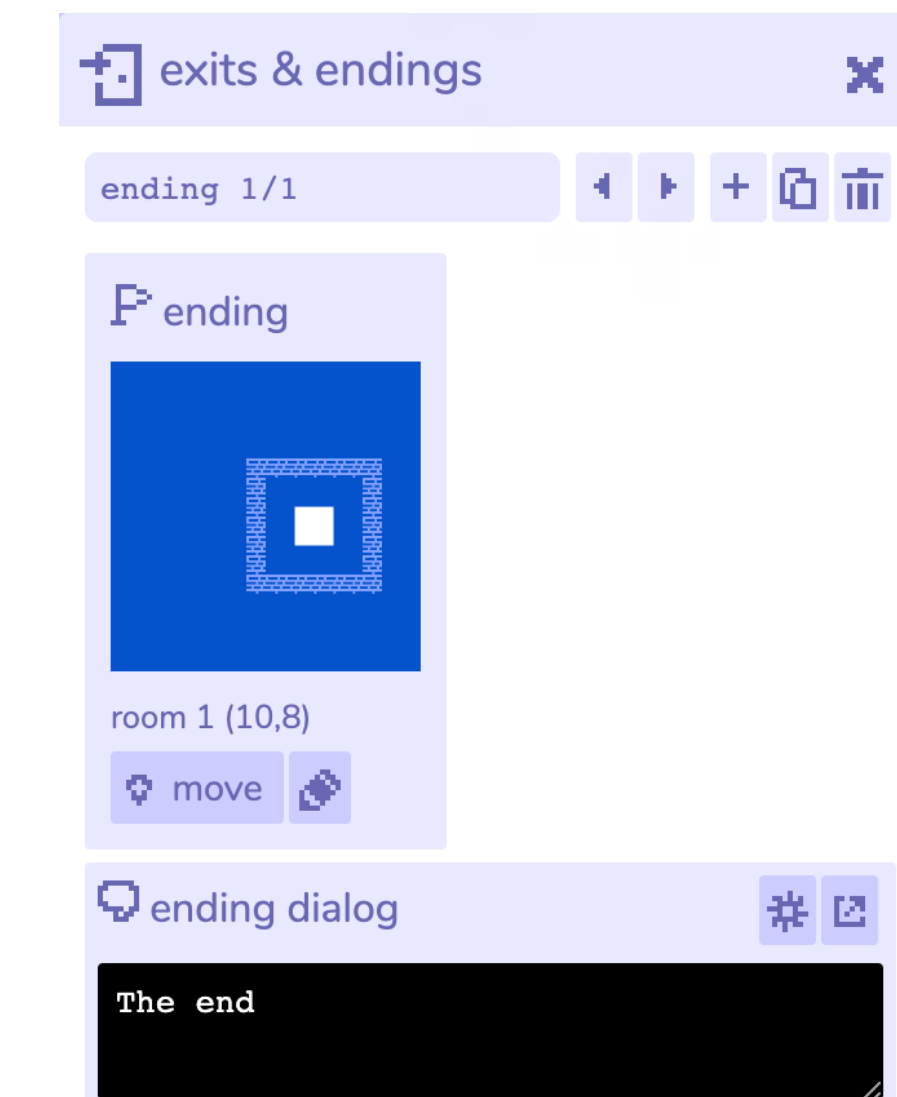
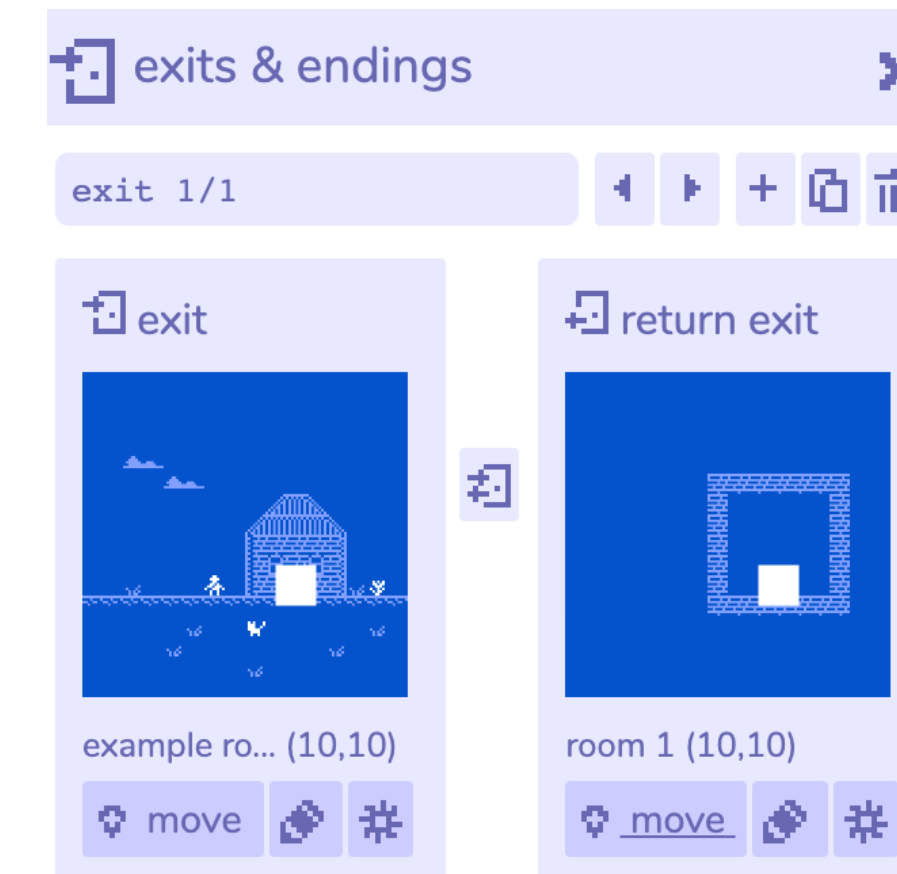
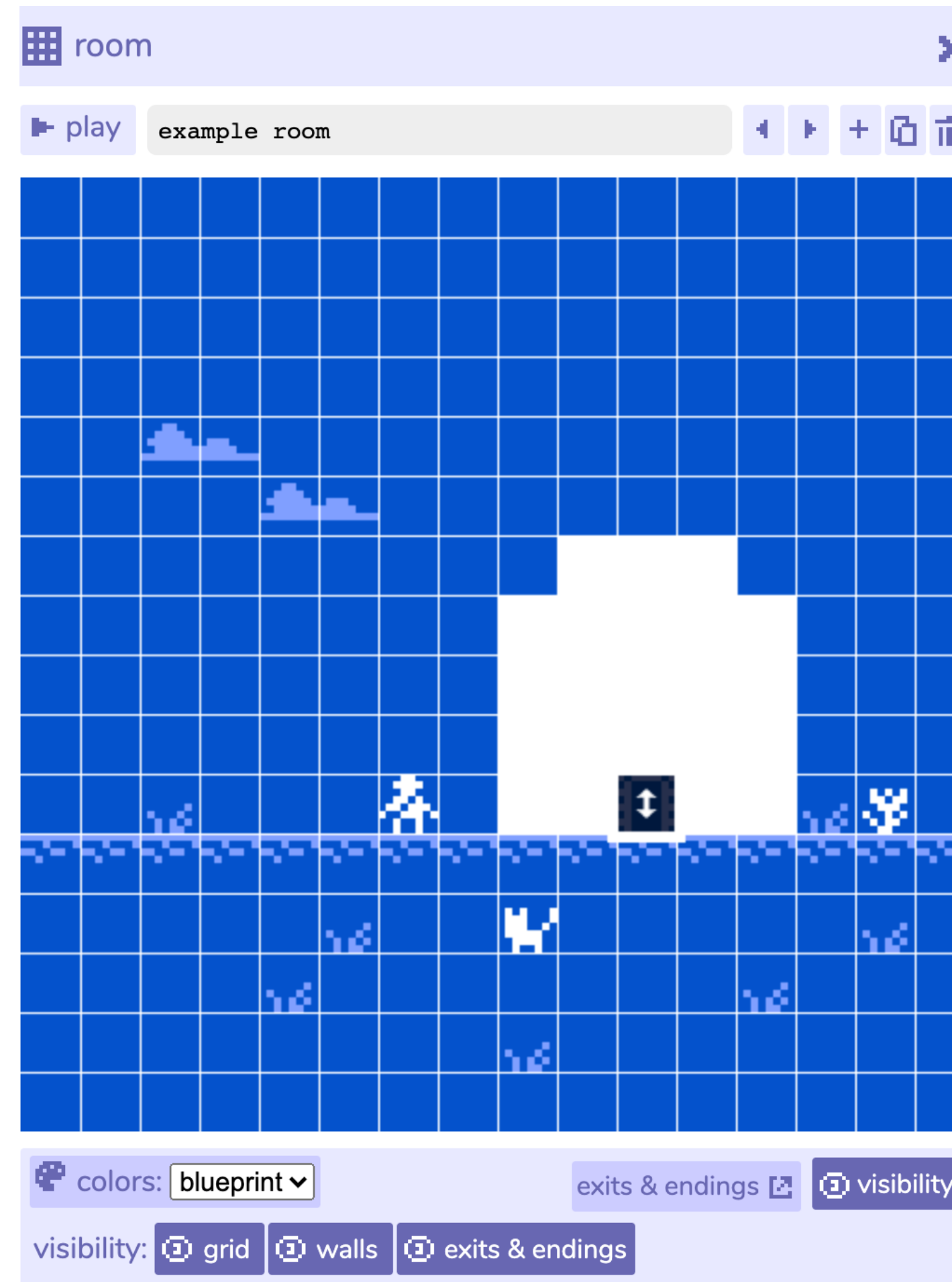
there are some bitsy pieces that take place only in one room, but you can add as many rooms as you want, so you can go wild with them as well.

# exits & endings

you've heard of "making an entrance", let's make an **exit**.

click + in the exits & endings panel and then choose if you want to make a two-way exit, a one-way exit or an ending.  
you can add transition effects to your exits by clicking exit options

endings work just like exits do except they mark an ending to your game.  
you can make as many endings as you want.



## editing an exit



exits & endings **should be toggled in your room panel.** **open the exits & endings panel, and click the + exit button.** **click** move **to place your exit in your room.** you can also drag the black square to move the exit around in your room.

## thinking about exits



exits are commonly used as **doors between rooms**, but i've seen them being used to make animations, show the passing of time, or making sprites appear out of nowhere.

if you're placing them as doors, it's important to keep **continuity** in mind, as to not confuse the player (unless that's your aim). for example, it makes sense for the character to exit at the right-side and enter a new room from its left side.

## tips



generally, you want to make it obvious **where the exits in a room are**, unless it's part of your game to make it confusing.

there was a paragraph here with some other tips but they were made obsolete by the new version of bitsy... it really did make exits better i love 6.0 thank you very much

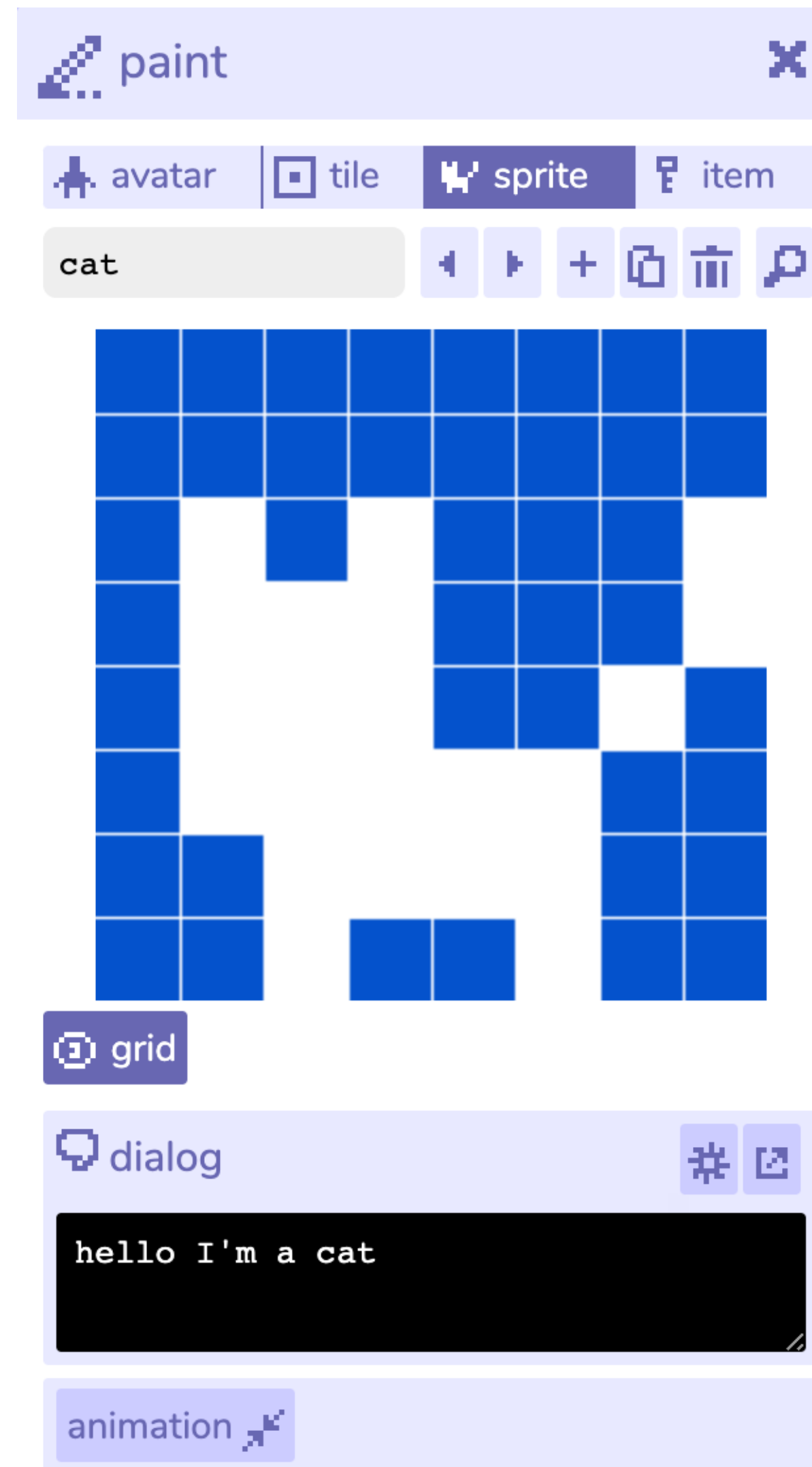
# dialog

now that we have most of the basics covered, let's talk about **dialog**.

sprites and items are the only elements to which you can add dialog.

to edit dialog for each sprite you make, go to the paint panel and type into the dialog field.

now click play and walk up to the sprite and it will talk to you!



# tips

dialog is usually one of the last things i add to my game.

what i do is write down all of my dialog in a text editor and then copy/paste and edit that dialog in bitsy for each of my sprites.

i think you should have fun with the dialog!



# advanced dialog



with your paint panel still open, click on the dialog tool to open the advanced dialog panel.

there you can find different kinds of **dialog sections** and **functions** in the +add option.

and **text effects**! you can change colours of your text or make it wavy, or shaky, or rainbow, or all of them at the same time!



# memo



**lists** are used if you want your sprite to say a lines in a **sequence** (say the lines only once), a **cycle** (say the lines once then repeat from the first line), and **shuffle** (say lines in a random order).

**branching list** is used in association with item variables. for example a sprite will say a line only once you have picked up a specific item.

## colour palettes ×

set **colour palettes** for your game in the `colors` panel. you can make multiple colour palettes and apply them to different rooms by selecting the one you want in the dropdown menu in the `room` tools.

## game data ×

in the `game data` panel, you can find the text version of the game itself. you could tweak it in the editor, but i recommend pasting it in a text editor like sublimetext for that. this is also the data you need to use with hacks like borksy.

## settings ×

in the `settings` panel you can change the **background colour** of the html file of the game (so that it matches the background colour of your room), set the **game window size** and change **dialog fonts**.

## inventory ×

the `inventory` panel is the one you use for setting variables. check out the **tutorials** if you want to know more about them.

## download game ×

in this panel you download your **game's html file**. that's the file you need for uploading to itch.io. you can also **import** a game from its html here.



# useful tools, tips and tutorials, and more

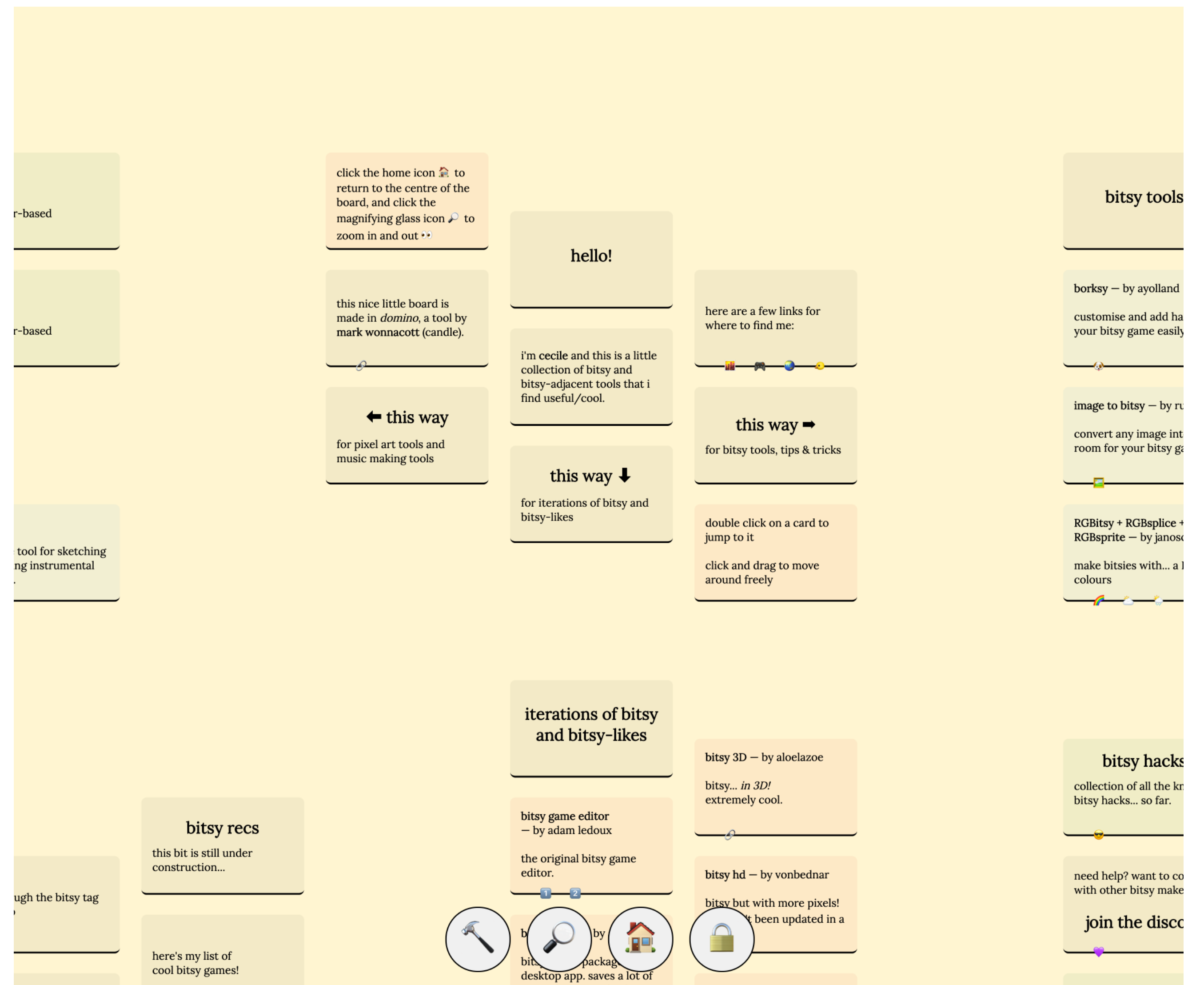


i have compiled resources that are helpful when making a game in bitsy!

➔ [bit.ly/BitsyTools](https://bit.ly/BitsyTools)

you can find:

- tools to make your bitsy game more versatile and/or complicated,
- tutorials, tips and tricks,
- game recommendations for inspiration,
- tools for making pixel art and music for your game,
- different kinds of bitsy (bitsy in 3D, bitsy in HD...)



## sharing games ×

if you've finished making your game and want to share it with people, you have a few options but most people share their bitsies on the website **itch.io**.

**itch.io** is a platform where people share video games, board games, zines, etc.

it's known for being more community-oriented than commercial games platforms like **steam** or the **epic games store**.

## uploading your game on itch.io ×

in order to share your games on itch.io, you have to **create an account**. there's an [extensive guide](#) for how to upload HTML5 games to itch.io, but simply put:

1. from your **dashboard**, click create new project title your project, and add a cover image to it.
2. in **kind of project**, select HTML.
3. in **uploads**, upload your game packaged in a .zip file. your game has to be titled `index.html` for it to be playable on itch.io. **this is important!**
4. in **embed options**, you can change the viewport dimensions to whatever you want, but most people upload their bitsy games at 512 x 512 px.
5. when you're ready to launch, set your **visibility** to public and click save. your game is now live!

thanks

@haraiya



cecile-richard.com

thanks