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DevLUp FSU



GBM #7



Intro to Stencyl



March 20th, 2025

Meeting Schedule

Date	GBM #	GBM Title	Secondary Event	Presenter
9 Jan		(No Meeting)	(oops, no involvement fair!)	
16 Jan	1	Introductions and Design Activity		All
23 Jan		(No Meeting)	SNOW!!!	
30 Jan	2	Intro to Godot (Orbital Odyssey Minigame)		Dion
6 Feb	3	Intro to Game Design	ASLC Showcase	Jake
13 Feb	4	Accessibility in Games		Ares
20 Feb	5	Art Fundamentals (for artists and non-artists)		Parker
27 Feb		FIEA Speaker Event with ACM		
6 Mar	6	Godot Tidbits		Dion
13 Mar		(No Meeting)	Spring Break	
20 Mar	7	Intro to Stencyl (Point & Click)		Whalen
27 Mar	8	1 Hour Game Jam (or Design Sprint)		Whalen
3 Apr	9	Game Jam Fundamentals	Game Jam?	Dion
10 Apr	10	Intro to Unity		Jake
17 Apr	11	Scope and Style	Innovators Showcase	Marsh
24 Apr	12			
1 May		(No Meeting)	Finals	

#👁👁showoff

Download Stencyl

stencyl.com/download -- it'll bug you for an account, but you don't need one today

Download Stencyl 4.0.4

November 14th, 2020

Mac



DMG (RECOMMENDED)

ZIP

Windows



(64-BIT)

(32-BIT)

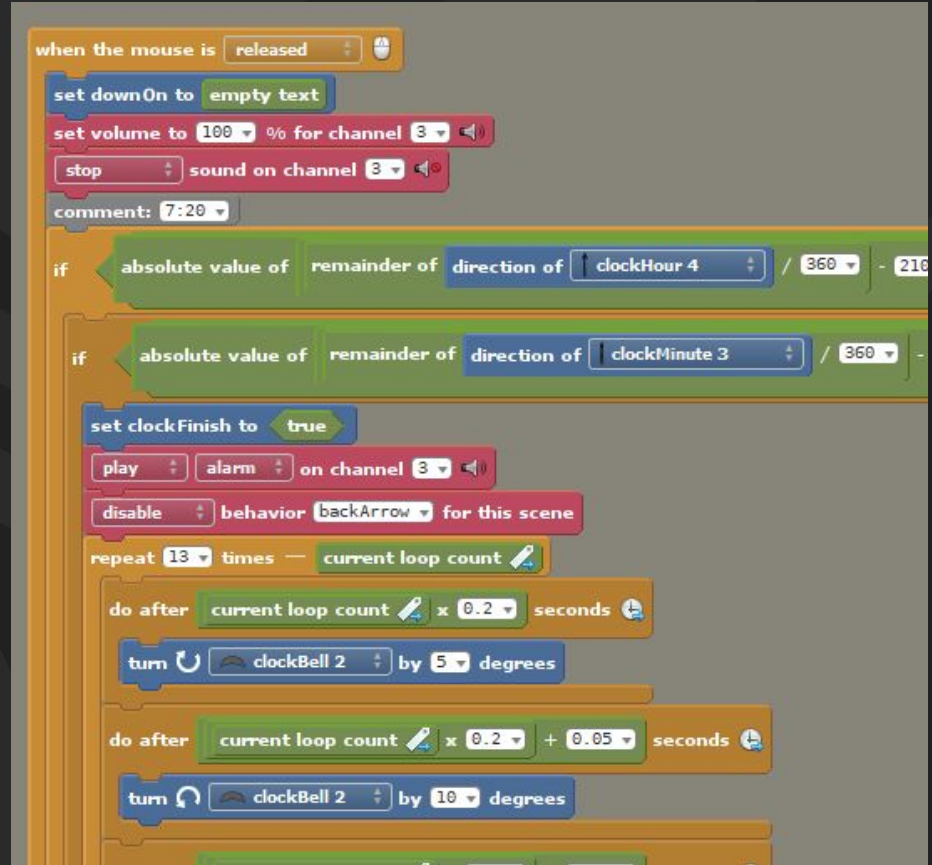
Linux (How to Install)



DOWNLOAD

What is Stencyl?

- Block-based game development engine
- Like Scratch or Code.org
- More railroaded--less freedom, but you'll get where you want to go faster

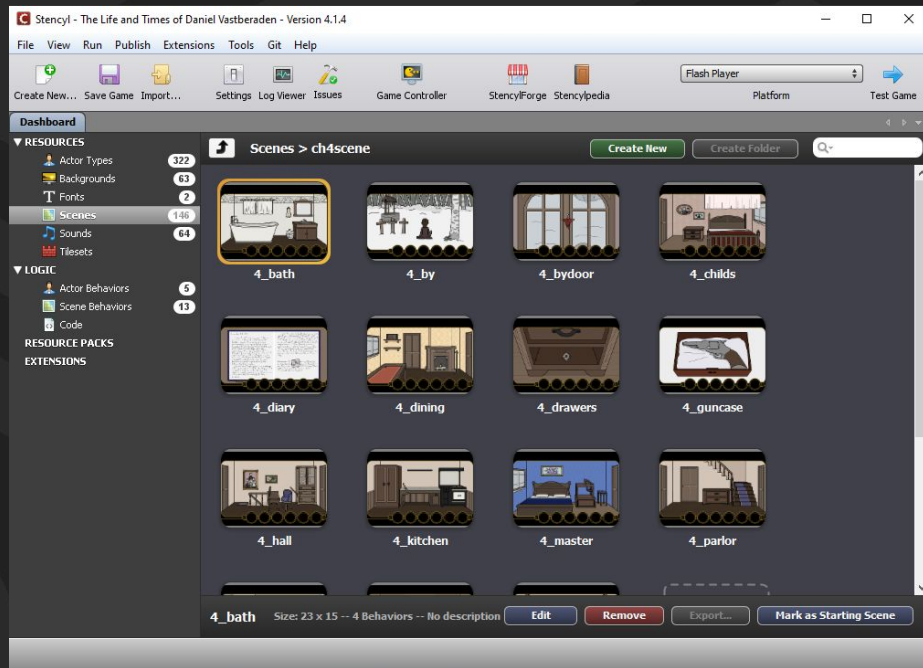


Why use Stencyl?

- Easier to think visually
- Engine UI distinguishes object types
- Less stuff to worry about for a basic game

Personally,

- Regions and mouse controls are easily definable
- Animations, scales, etc. made more sense for nebulous reasons
- I got to Steam with it, so it's not just for babies

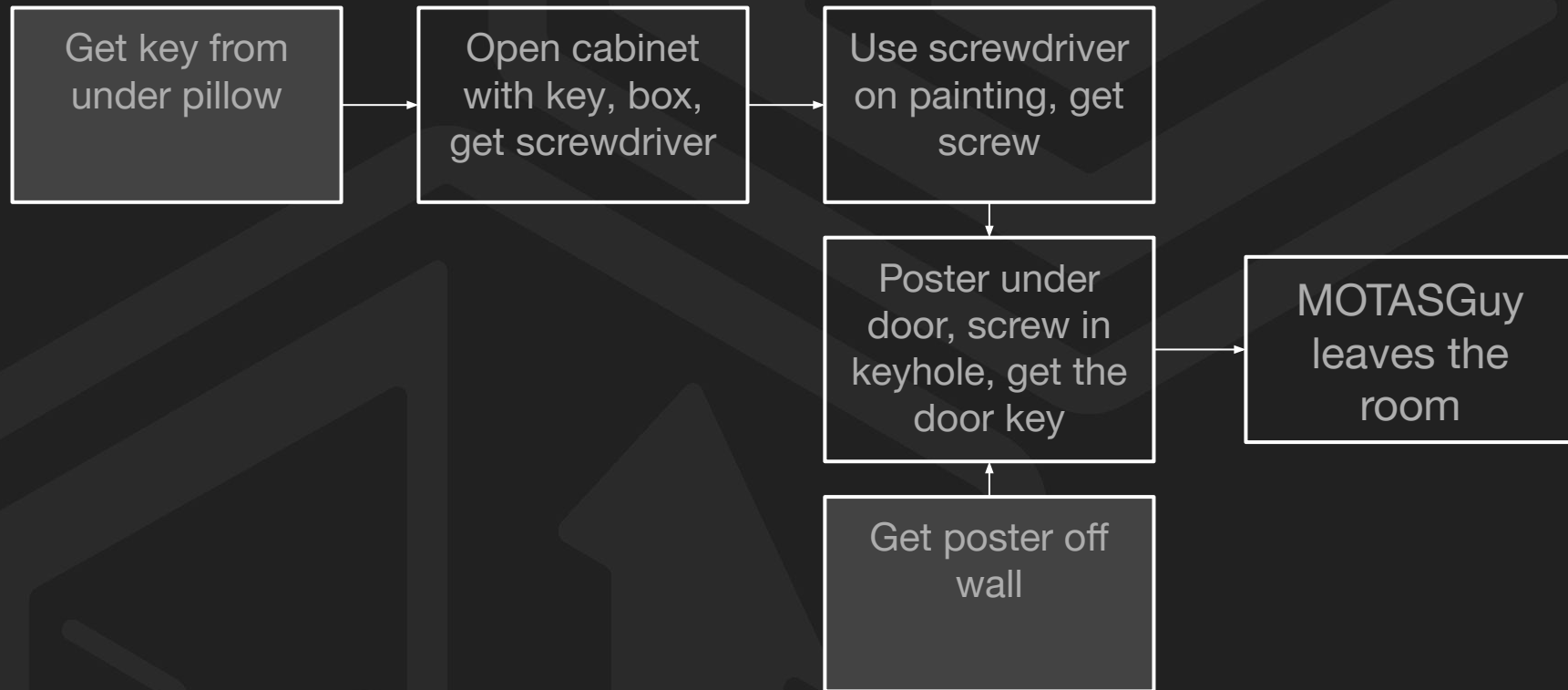


Today, we're recreating a room from MOTAS



Fig 4.1. If the embed doesn't work, stop the video before he enters the next room. The suspense!

First, we plan:



Make the game file

- Create a New Game...
- Title it whatever you want

Game Based On: Blank Game

(Step 2 of 2)

Basic Info

Name

MOTAS Clone

 OK

Only use letters, numbers and spaces.

Screen Size

Width

640

px

Height

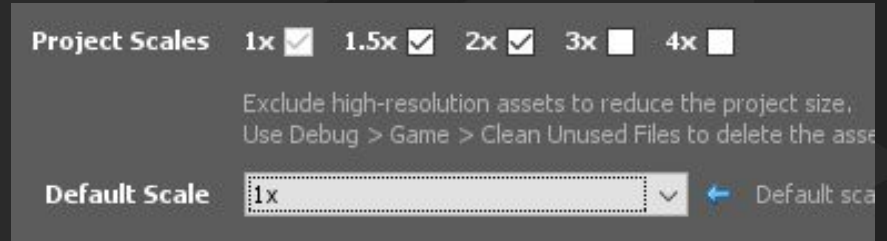
480

px

 Making a mobile game? Use 320 x 480 (or 480 x 320).

Settings for Point'n'Click

- Settings -> Advanced -> Project scales -> Uncheck 4x and 3x
- Groups -> Uncheck all 'collides with' boxes
- Groups -> Create new -> name 'Items'




Scenes

Where the 'game' of the game happens

- Scenes
- Create New...
- Name it 'room'

Basics

Name  OK

Size

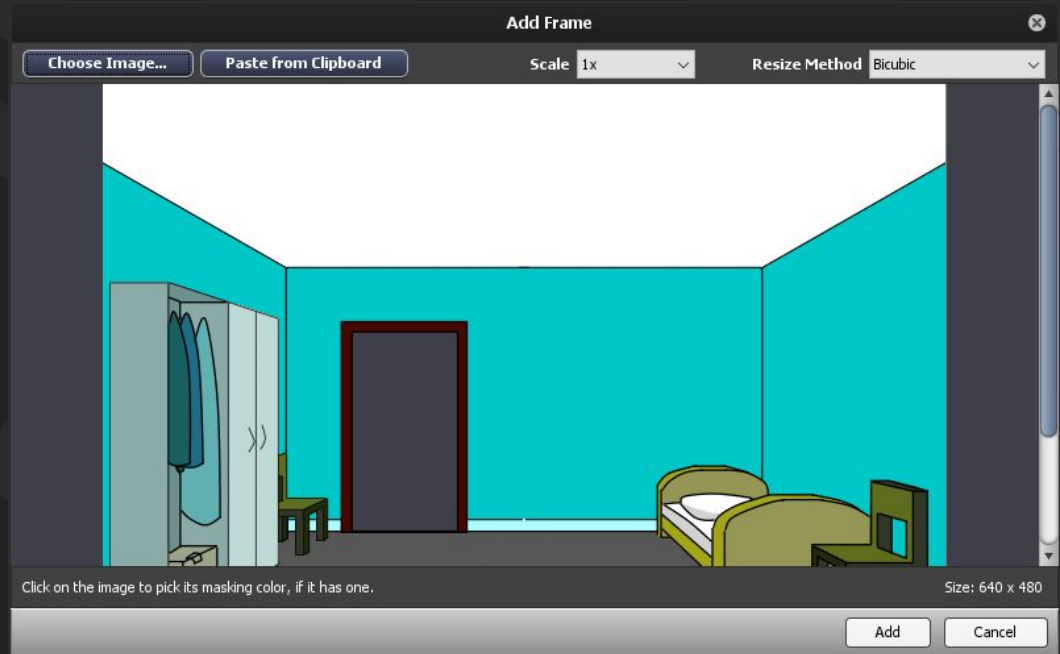
Width

Height

Backgrounds

Static images that usually fill the screen

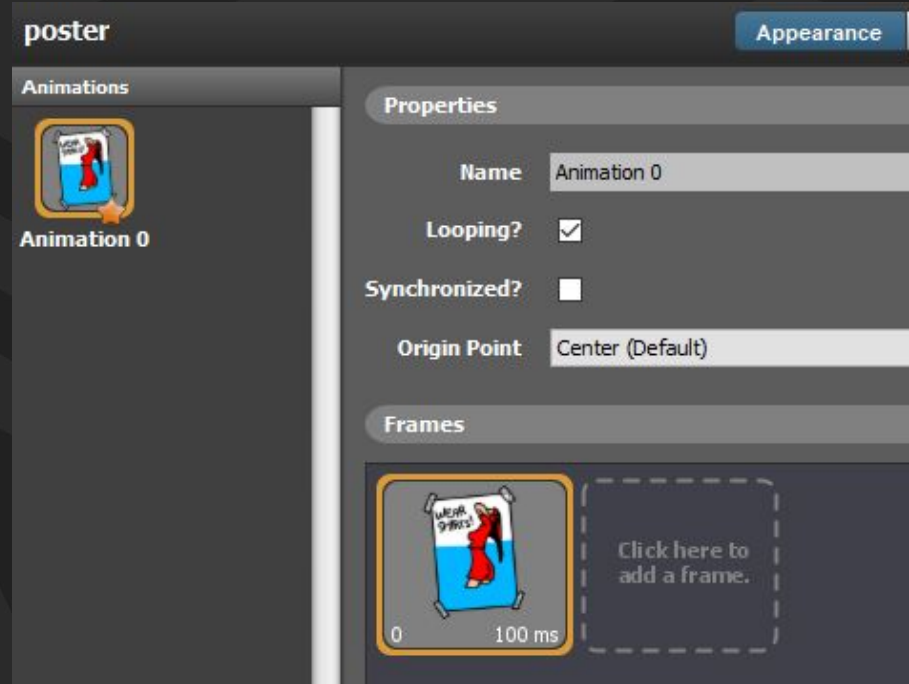
- Backgrounds
- Create New...
- Name it 'background'
- Add a frame...
- Select 'background.png'



Actors

Things that move (and you can click on)

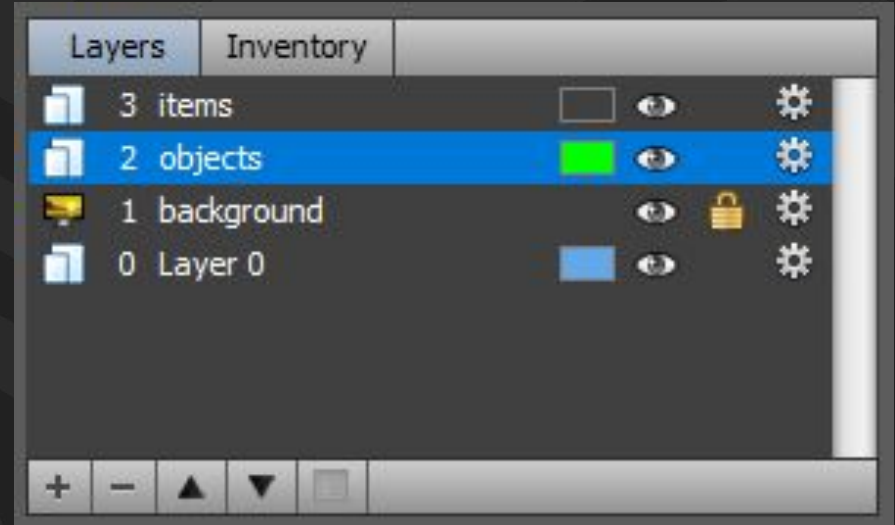
- Actors
- Create New...
- Name it 'poster'
- Add a frame...
- Select 'poster.png'
- Repeat for posterground.png, cabinetdoor-L.png, cabinetdoor-R.png, exitdoor.png, and painting.png



Build the Scene

See 'layers' in the corner? That's the magic.

- Add 'background' as new background layer
- Add 'objects' as new tile layer
- Add 'items' as new tile layer
- Select the 'objects' layer
- Go to 'Palette' -> 'Actors'
- Select each actor from earlier and place them accordingly



Let's click on stuff!

Finally, some code. I thought this was art class for a minute.

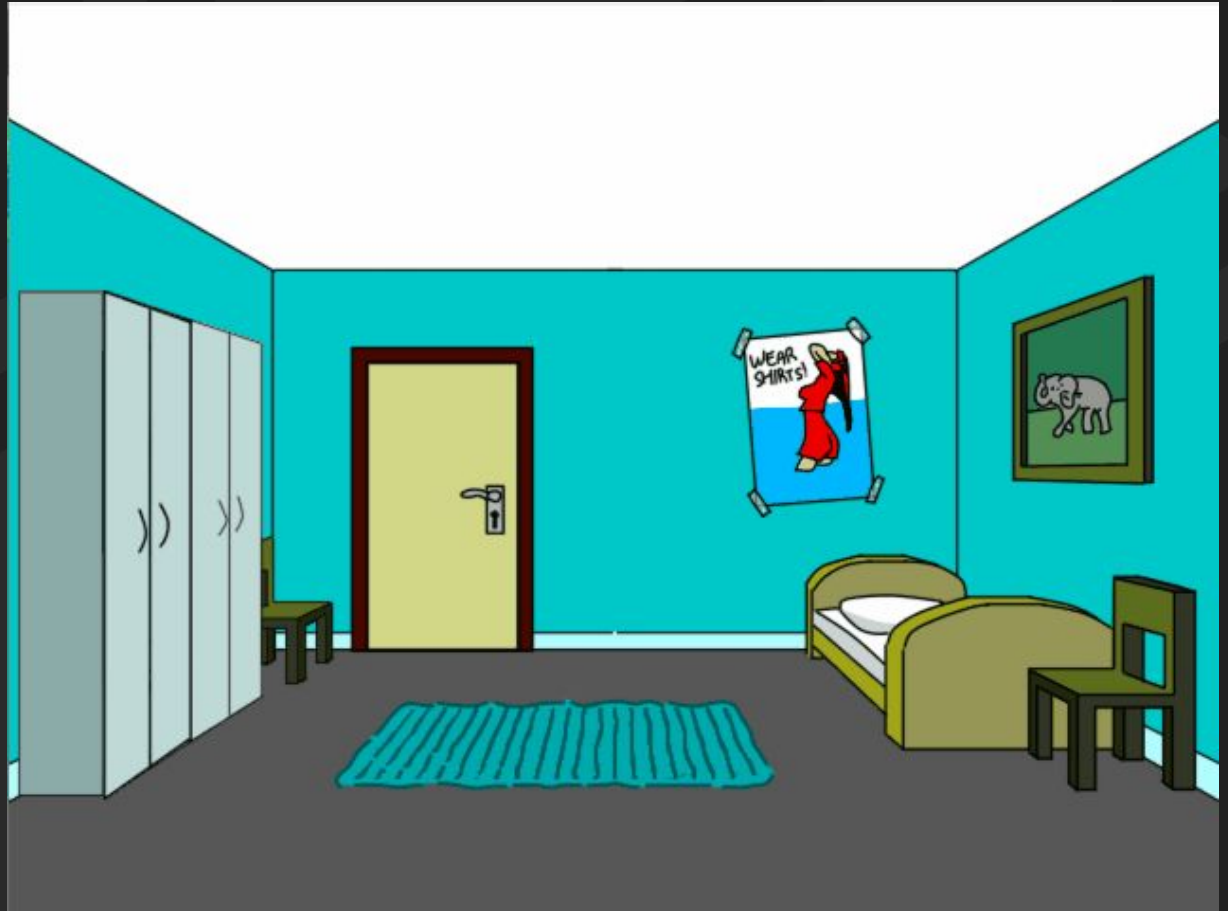
- Go to 'Events' in 'room'
- Add event -> Input -> On actor
- Change 'entered' to 'is pressed on'
- Change 'actor' to 'choose actor' -> click on the poster
- Add block Actors -> Properties -> Kill actor -> click on the poster again



Run the game

(Click on the poster and it vanishes!)

(But we didn't pick it up yet.)



Game Attributes

Basically global variables.

- Add block Game Attributes -> Create new game attribute
- Name it 'inventory' and make it a list

Attributes

Create NewRemoveWhat are Game Attributes?

Nameinventory

CategoryDefaultApply New Category

Choose an existing category, or type in a new one and click Apply.

TypeList

Initial Value

+

-

↕

↕

Index

Value

▼ DEFAULT

inventory

Custom Blocks

Global functions! Yippee!



Custom Block Editor Interface:

Basics

Name: OK

Description:

Block Details

Name	Type	Reference for Block Spec Field
itemname	Text	%0

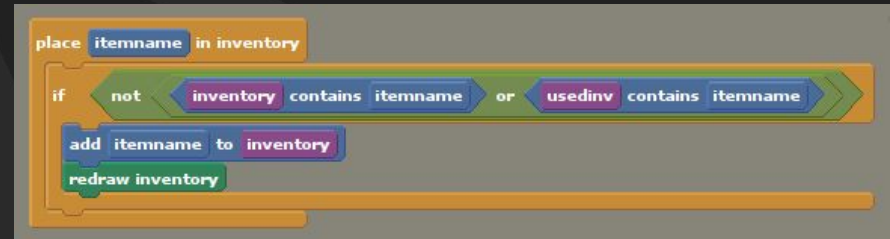
Block Fields

Block Spec: OK

How the block will look. Sample: heal %0 by %1

Return Type:

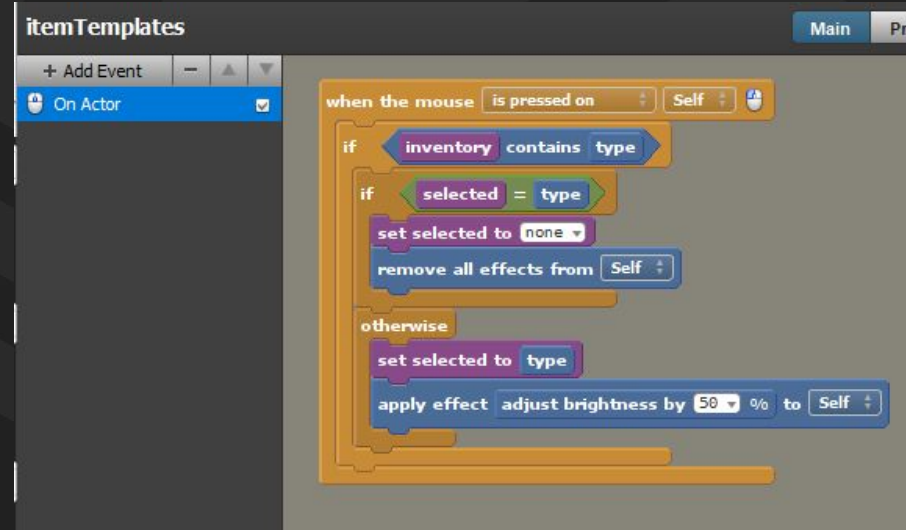
The type of this block



Behaviors

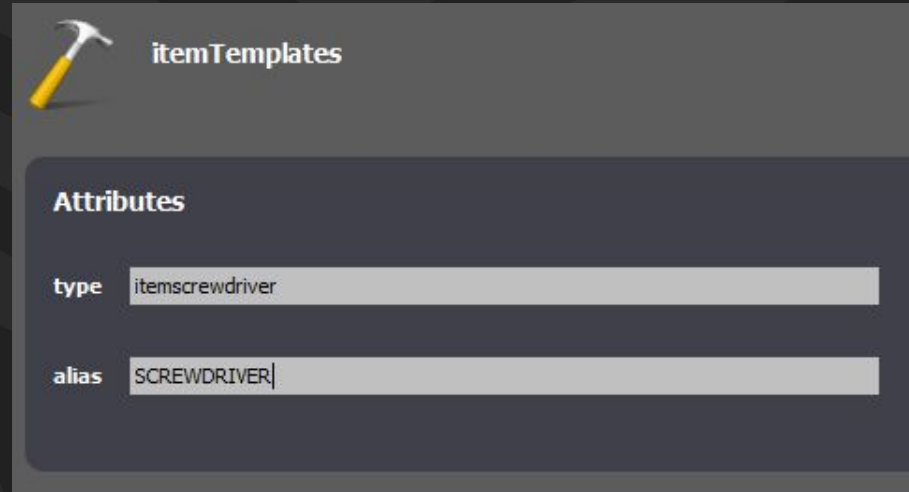
Also kinda global functions, but you attach these to actors and scenes specifically.

- Actor Behaviors
- Create new - 'itemTemplates'
- More selection code yay
- Create two attributes - 'type' and 'alias'
- We'll only use 'type' today -- 'alias' is for later if we want to write the items' names on screen



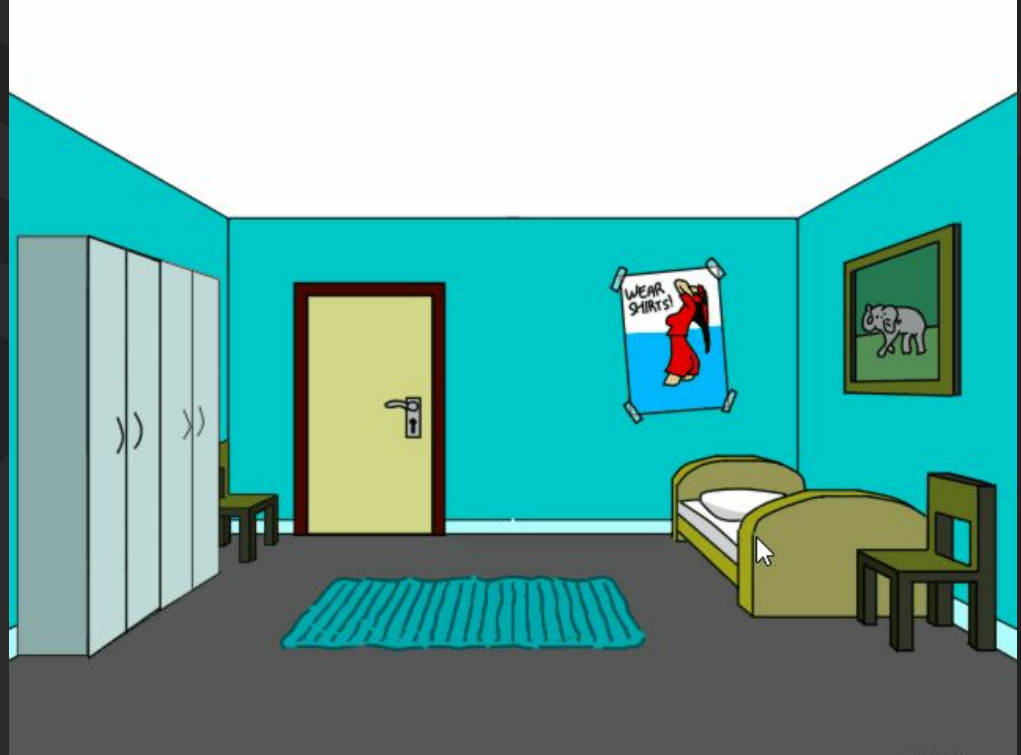
Actors, p.2

- Make an actor named 'item-poster'
- Give it the frame 'item-poster.png'
- Go to Behaviors and attach itemTemplates
- Make its type 'item-poster' and its alias 'POSTER'
- Go to Properties and put it in the Items group
- Repeat for item-cabinetkey, item-screwdriver, item-screw, and item-exitkey.



Update that poster code

- Add custom block -> place 'poster' in inventory
- Run the game! It definitely works!
- (editor's note: make sure it works)



Regions

Stuff you can click on that's not an actor

- Go to Scene in room
- Click that blue rectangle with the plus
- Drag to make a rectangle on your screen--that's a region!
- Put regions on the pillow, rug, box, cabinet doors, and both chairs

Now we can go back and copy the poster code for the pillow, making it give us the key



Tweening

Slide stuff around on the screen -- animation on the cheap

- New event, Input -> On region, select the cabinet doors
- Flow -> if selected = itemcabinetkey
- Custom -> Use itemcabinetkey
- Actors -> slide
- (Slide the left door left and grow it, slide the right door right and shrink it. Give them numbers)



Used Inventory

So we can keep track of where we are on that map

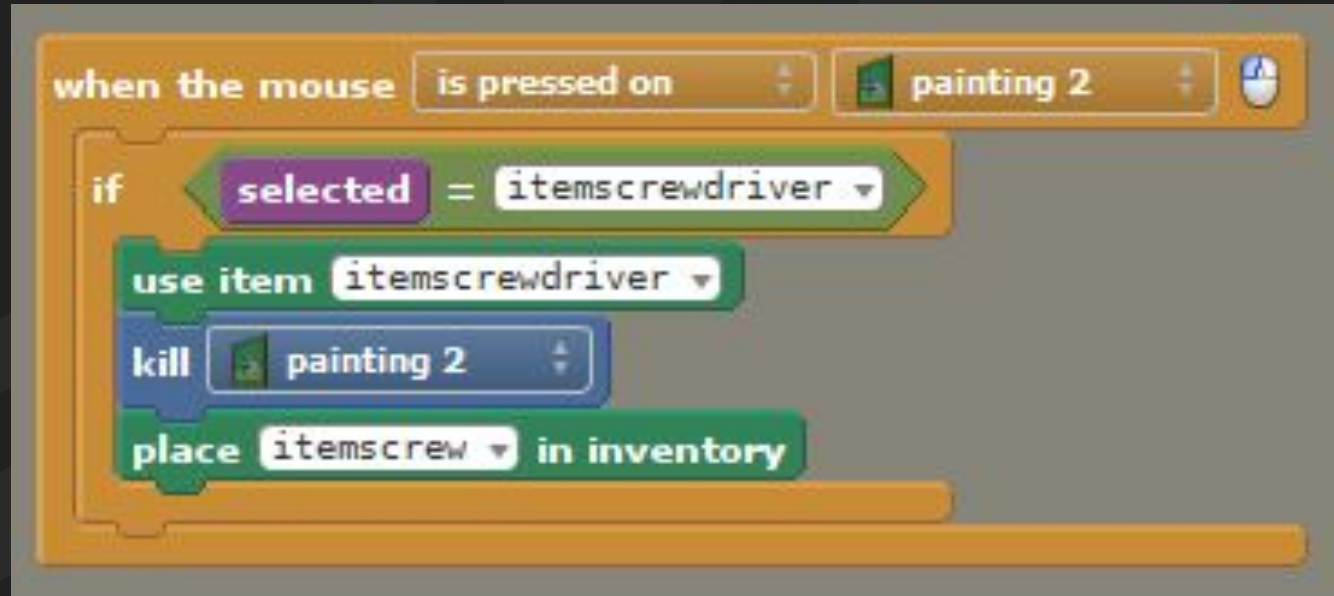
- Add new game attribute, 'usedinv'
- Make it a list
- Go back to the 'use' code
- Add block Attributes -> Lists -> Add 'type' to 'usedinv'



Getting the Screwdriver



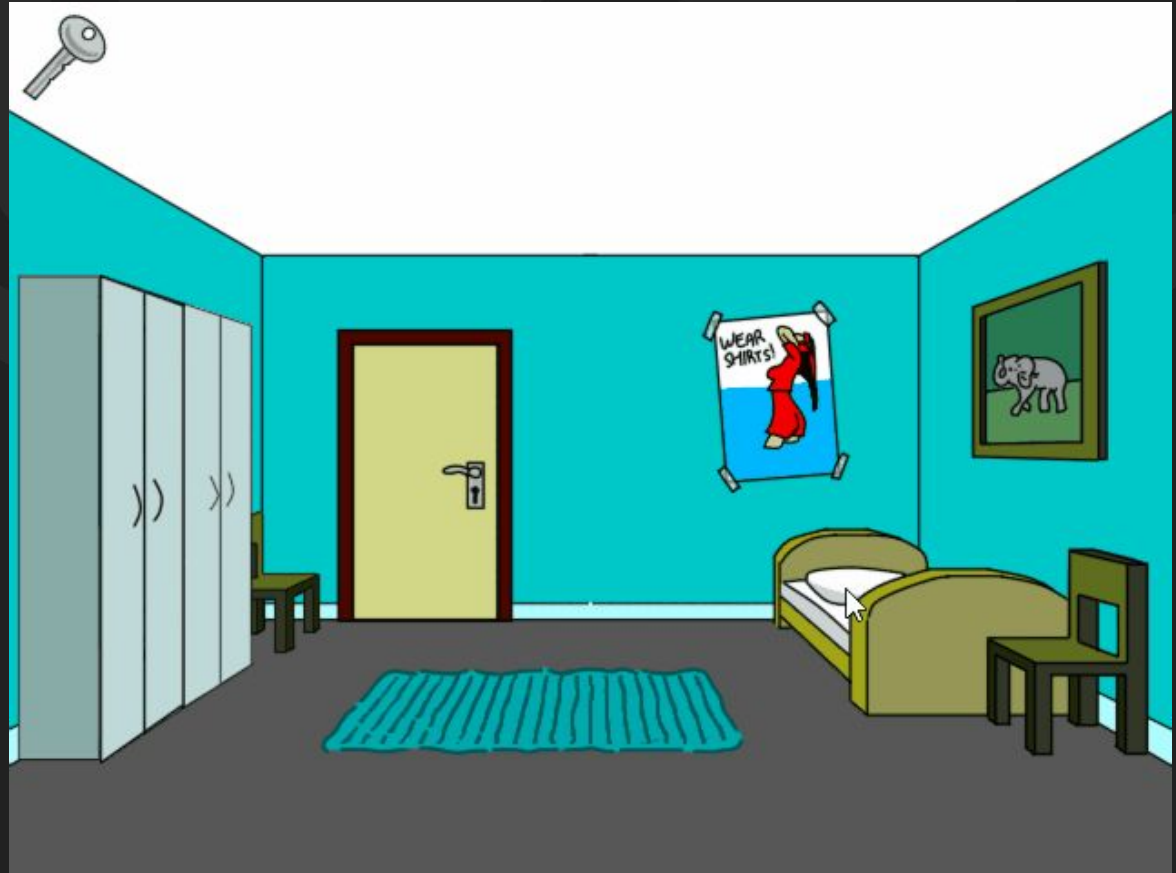
Use the Screwdriver



Run the game

(Now we can get the poster, get the cabinet key, and open the cabinet)

(There's a problem--we can get multiple screwdrivers)



Getting Only One Screwdriver



usedinv checks if we've ever had the item in our inventory, so we can only pick it up once

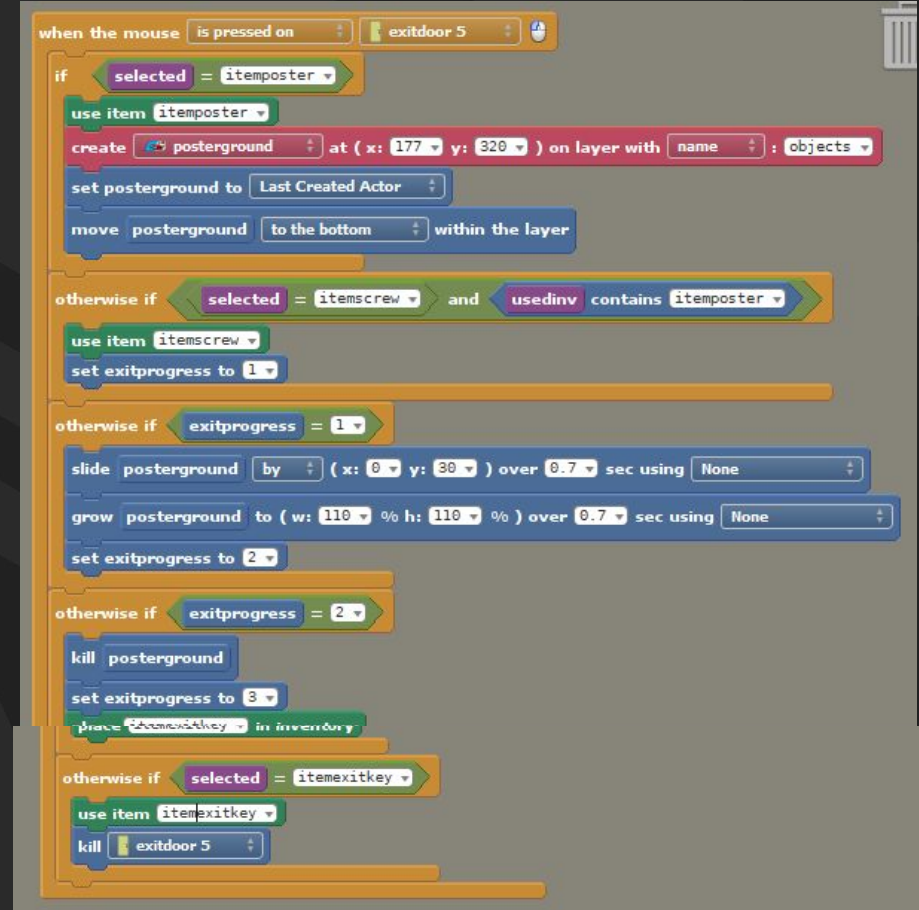
THE DOOR

(Use the screw and poster on the door)

(Gotta figure something out for the sliding)

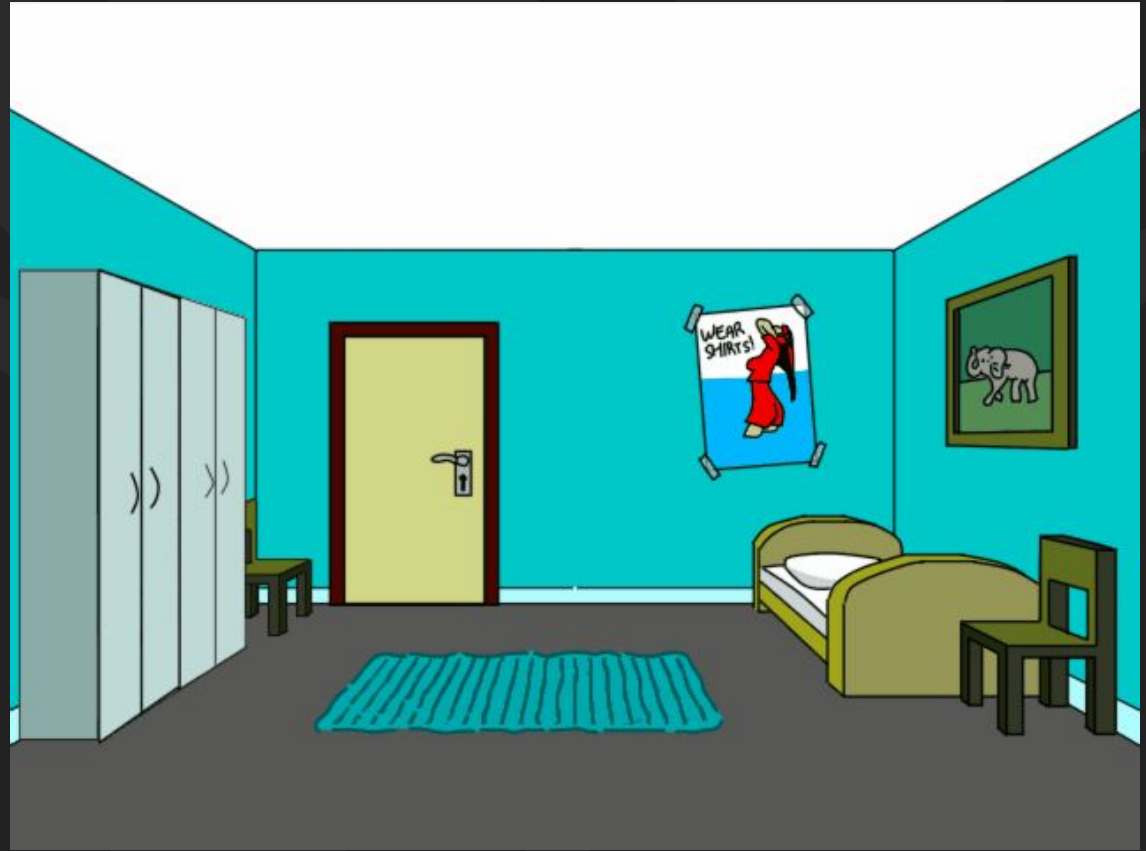
(MAKE SURE TO CHECK ORDER--poster first)

(get key, use key, yippee)



Run The Game

- (Should be fully functional by now, if a bit boring)



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