HOW TEACHING KIDS TO CODE CAN MAKE YOU A BETTER DEVELOPER



Ramón Huidobro

@senorhuidobro

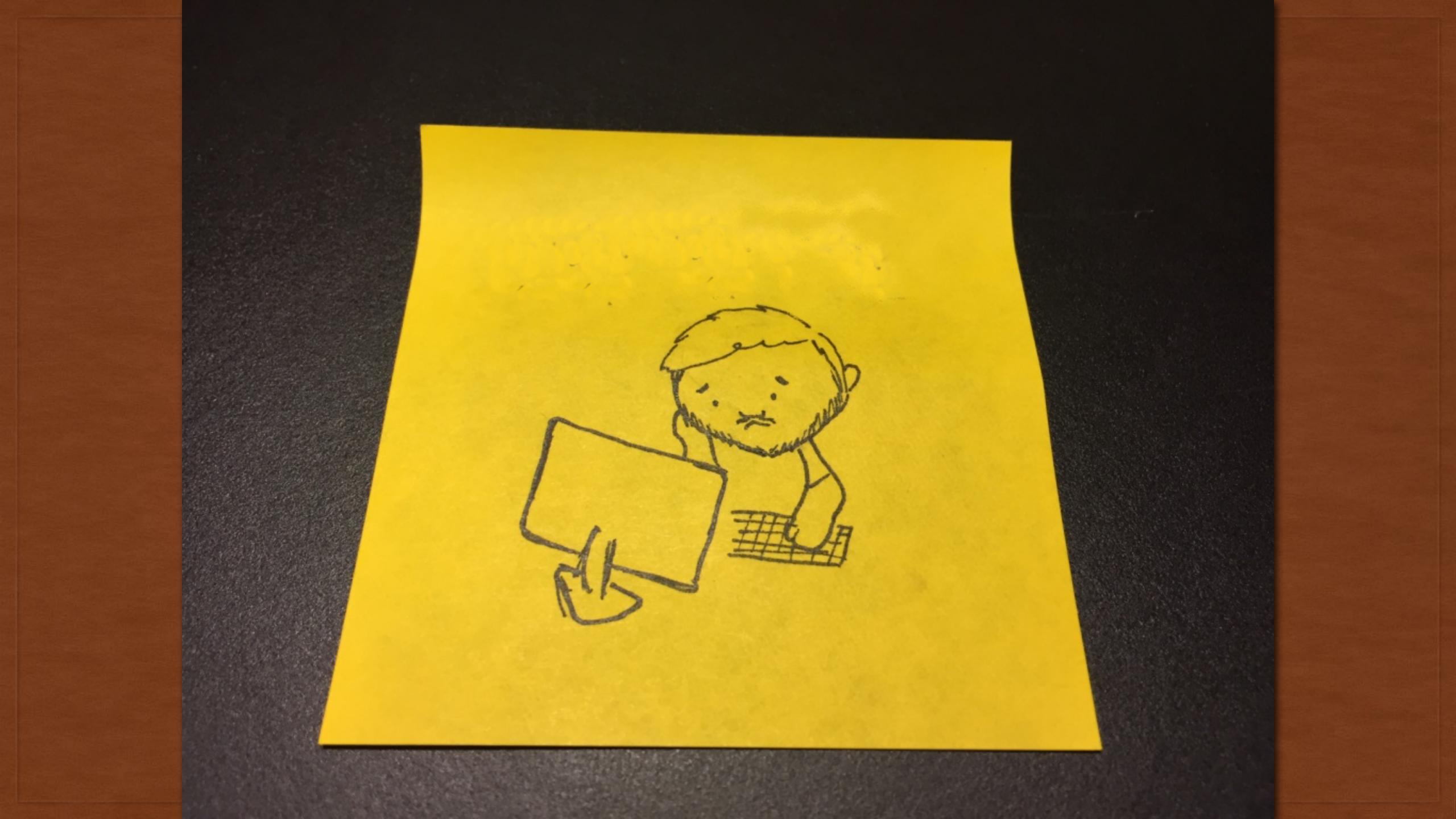
https://ramonh.dev/teaching-kids.pdf

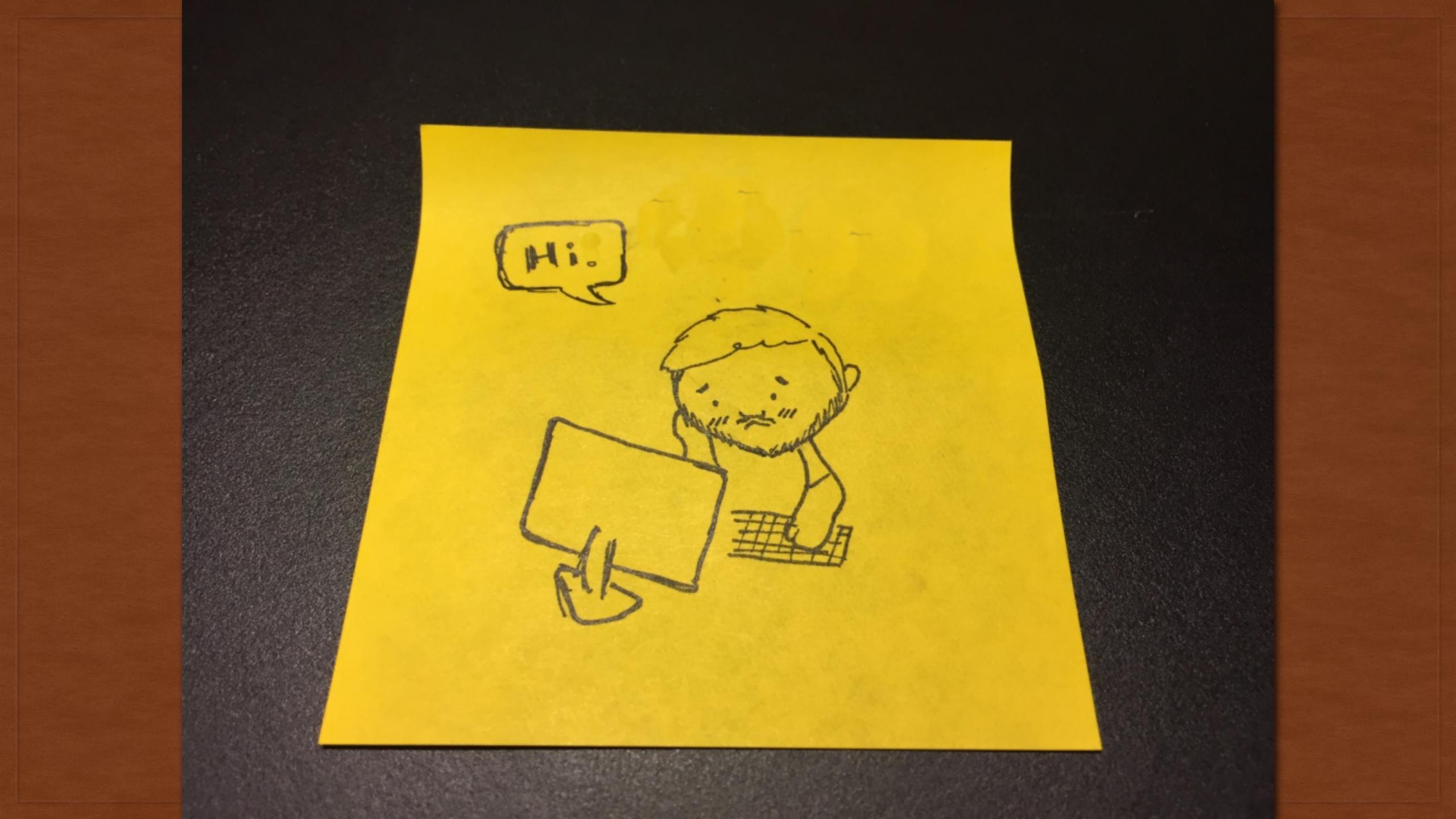
WHO'S THIS "RAMÓN"?

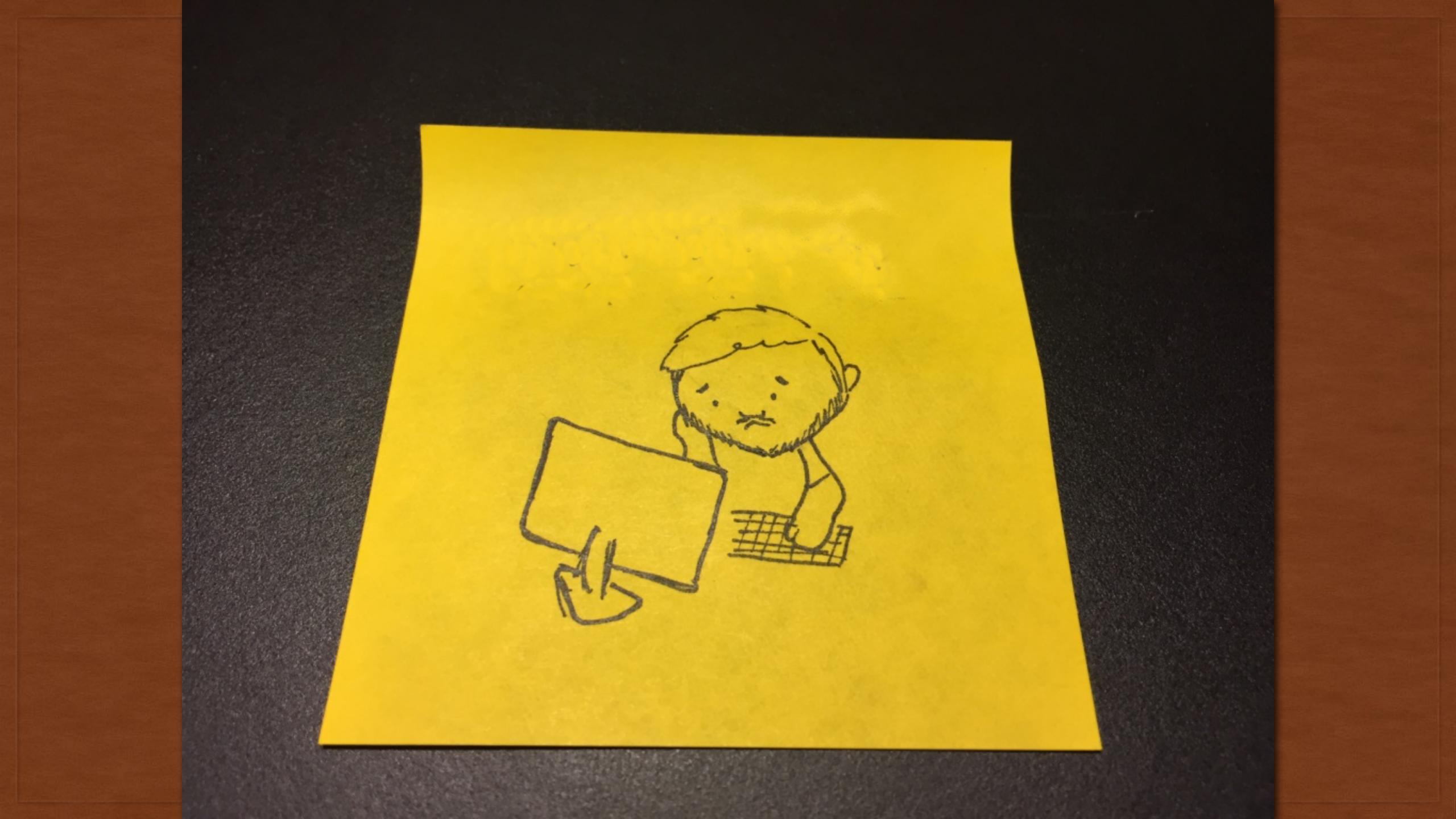
WHY DOES HIS HAIR LOOK NOTHING LIKE IN THIS DRAWING?

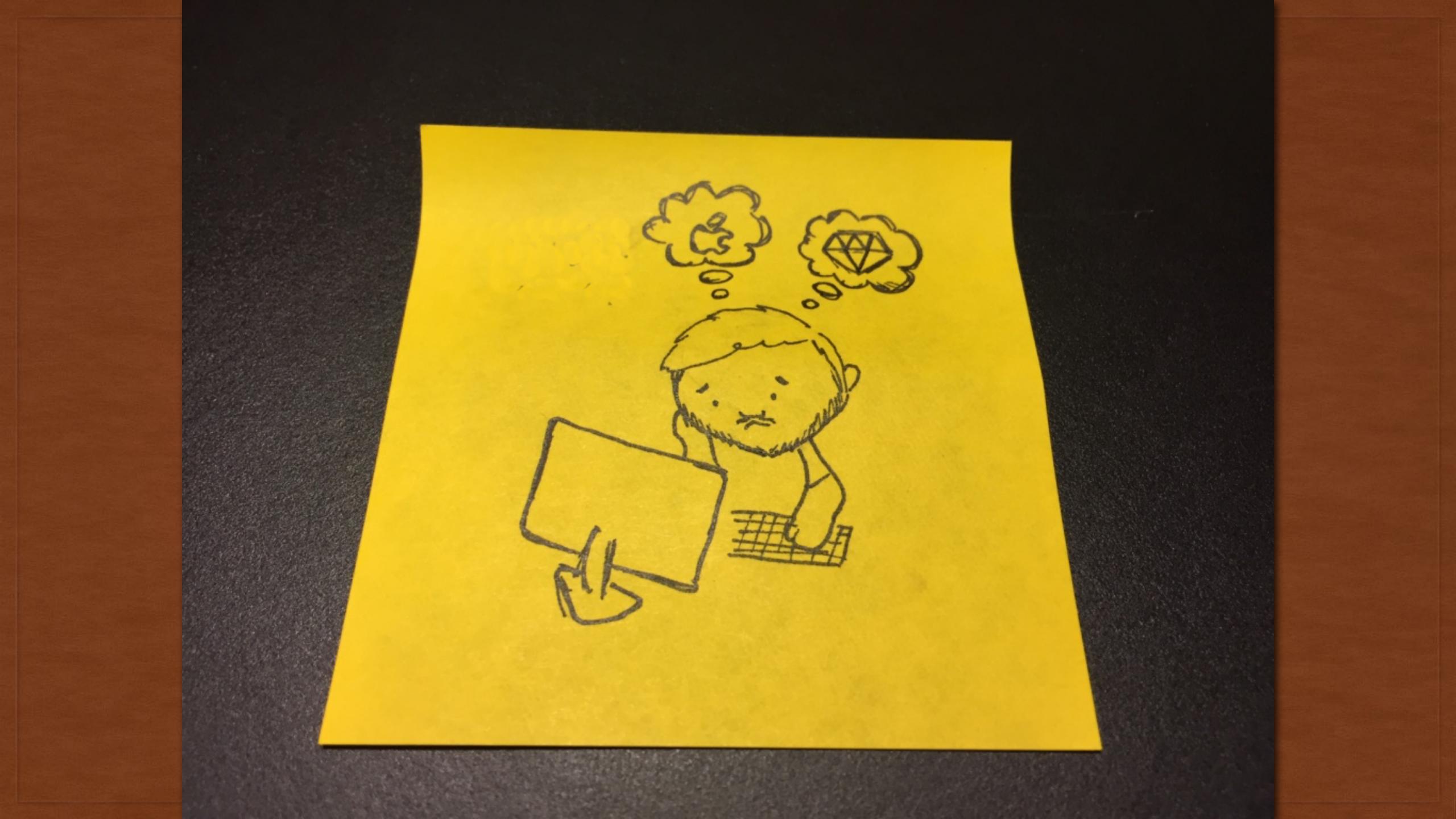


THE YEAR IS 2012...













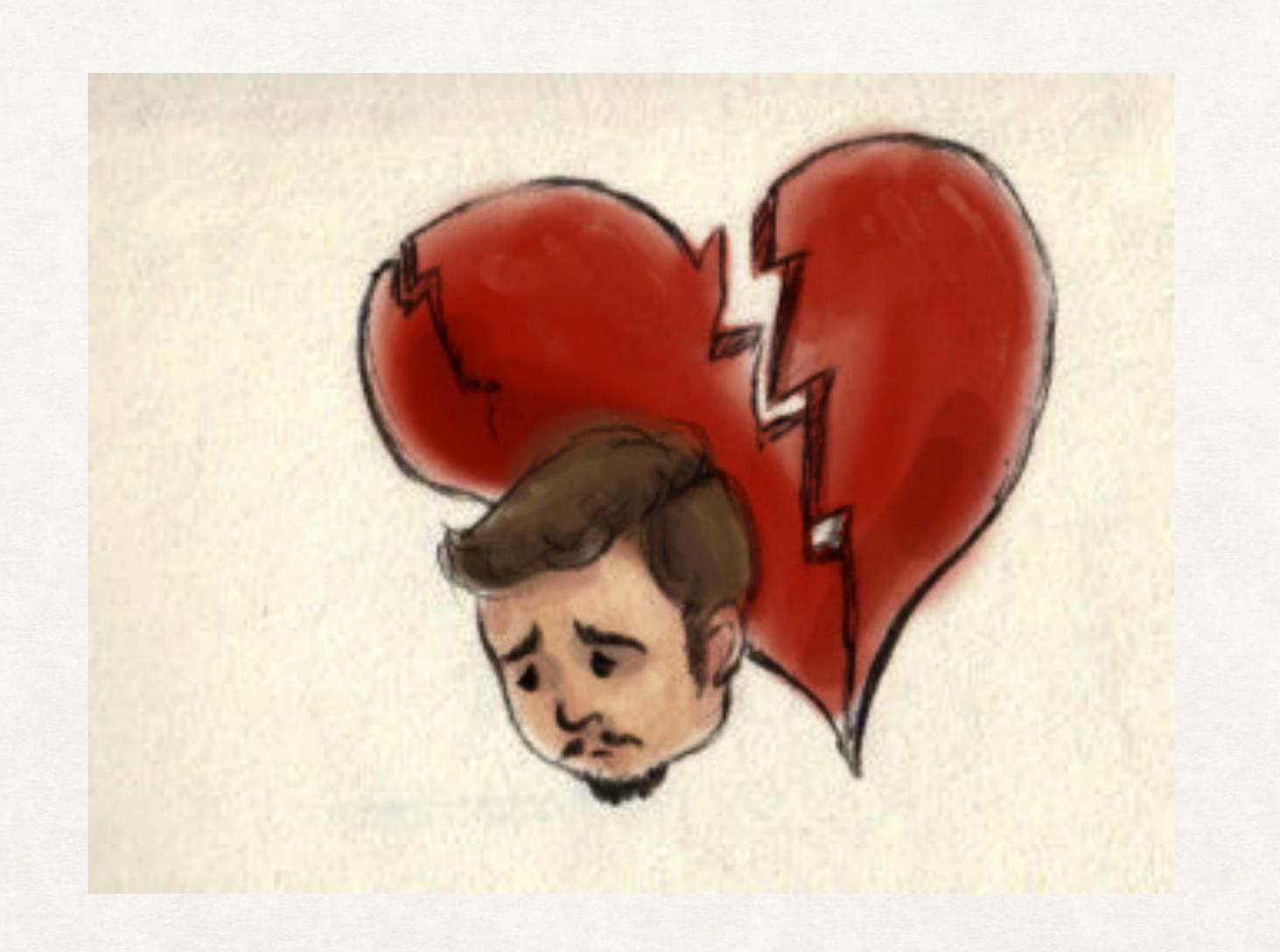


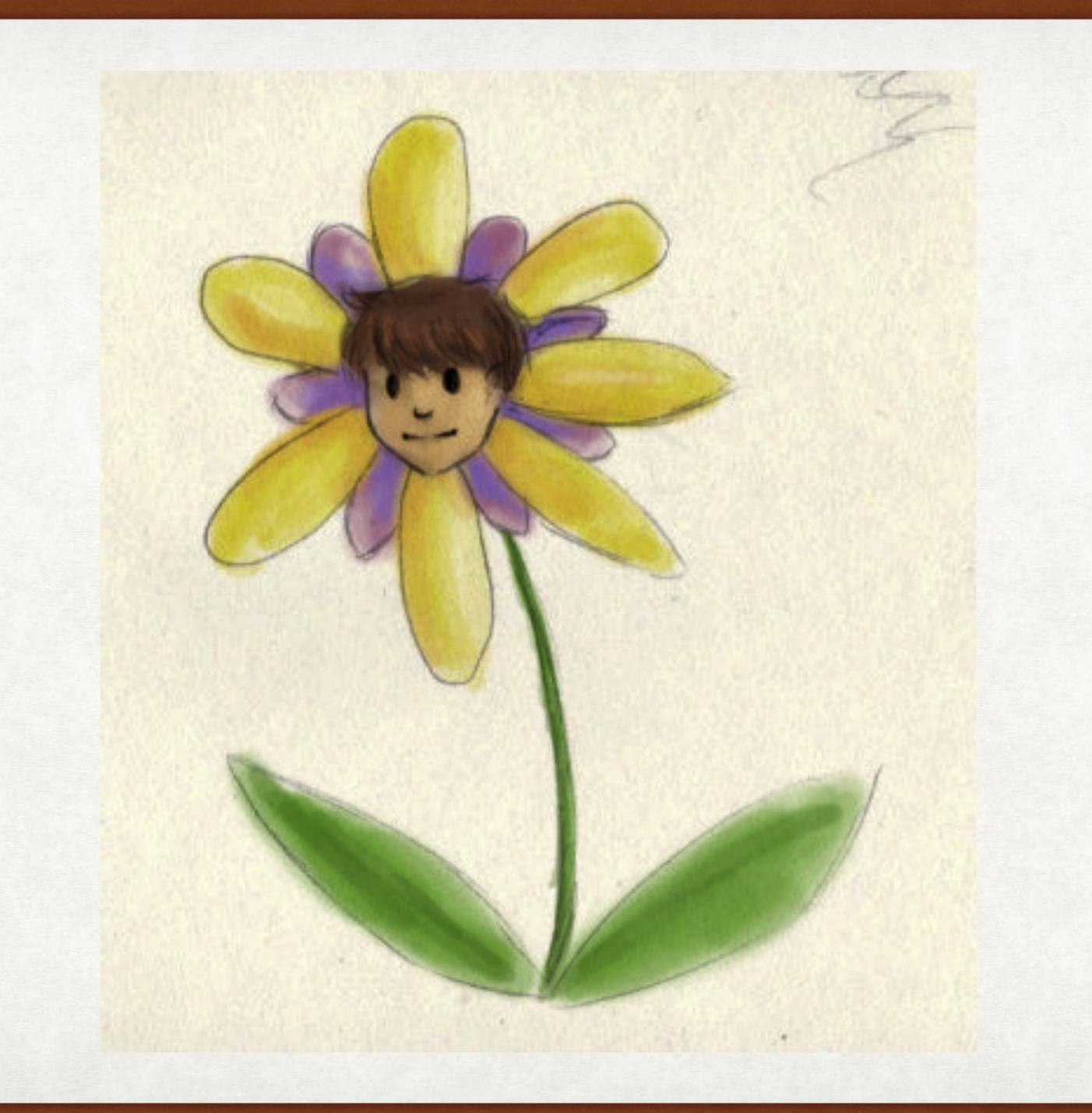






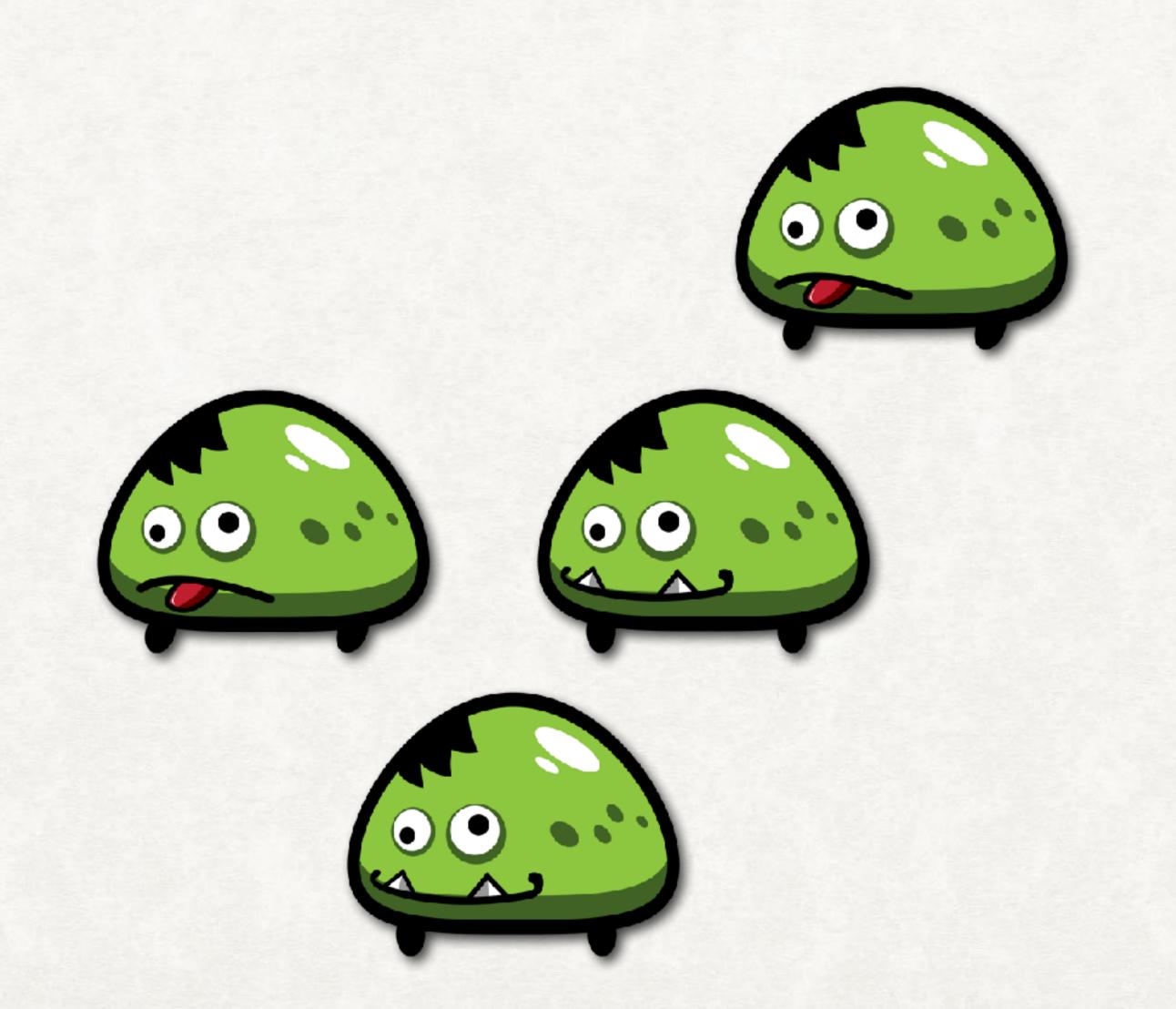


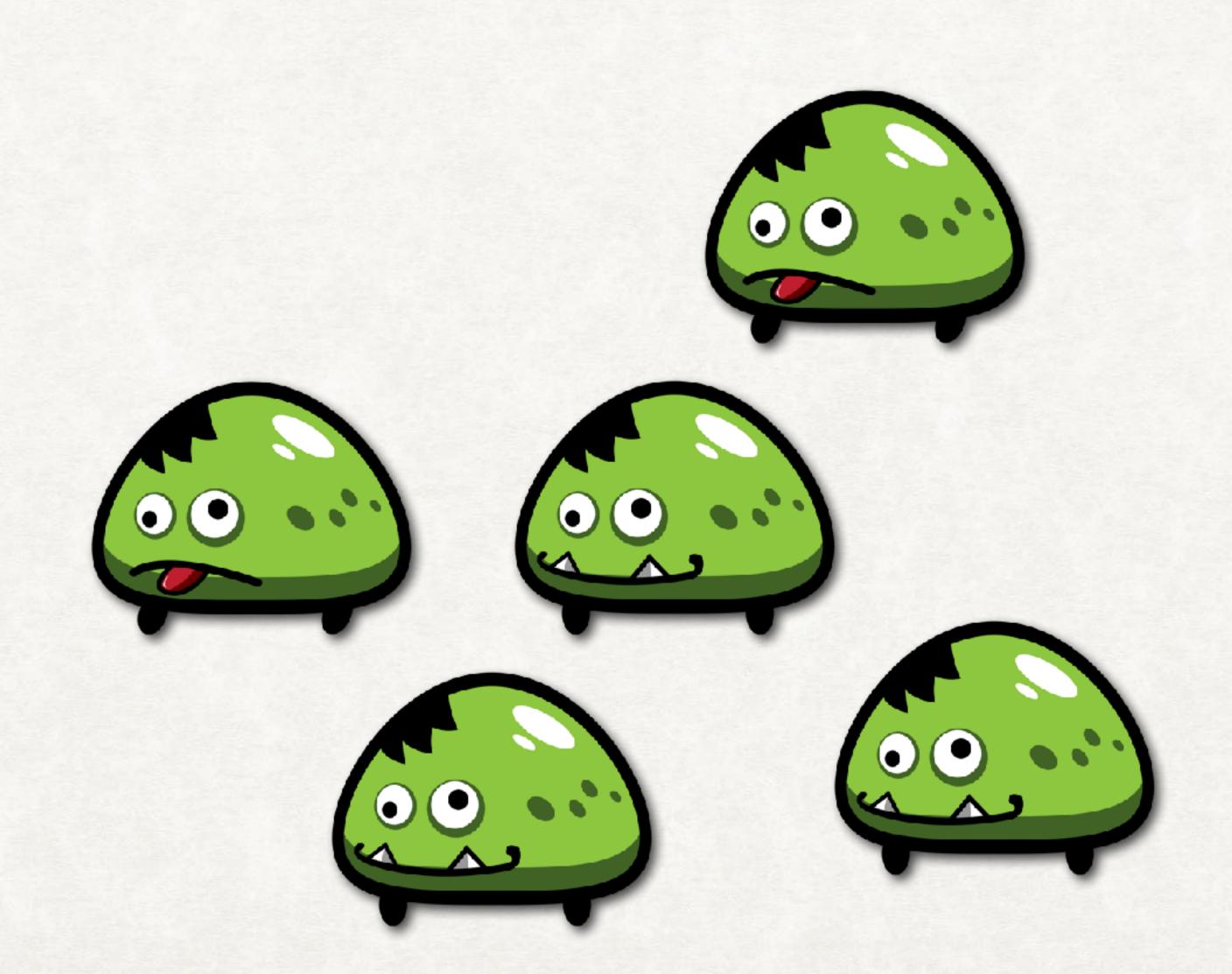


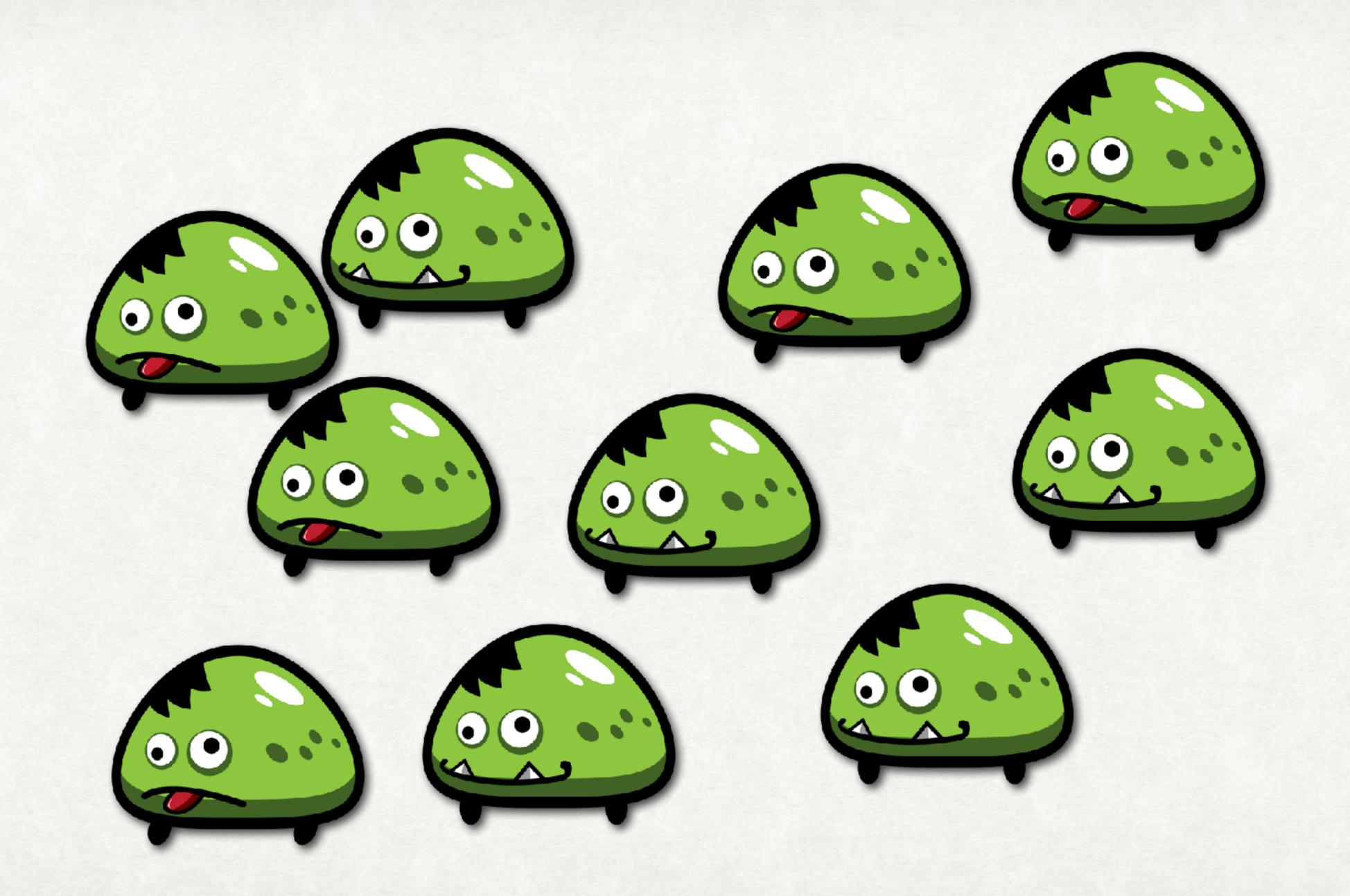


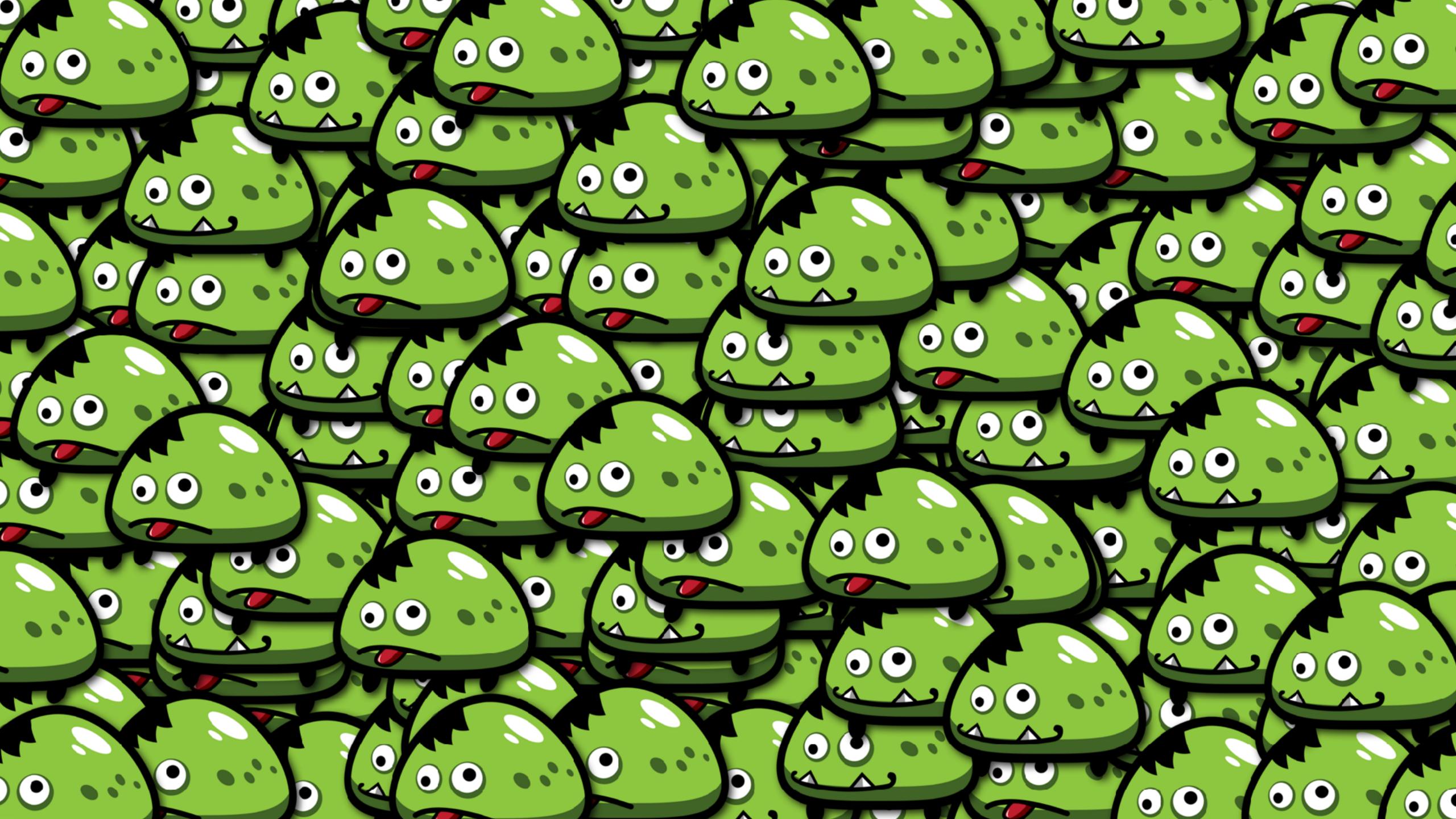
- Break ALL the things
- Appreciate that which I take for granted
- Learn by doing, understand by practising
- Simple != Easy to understand
- Showing and reading code is important







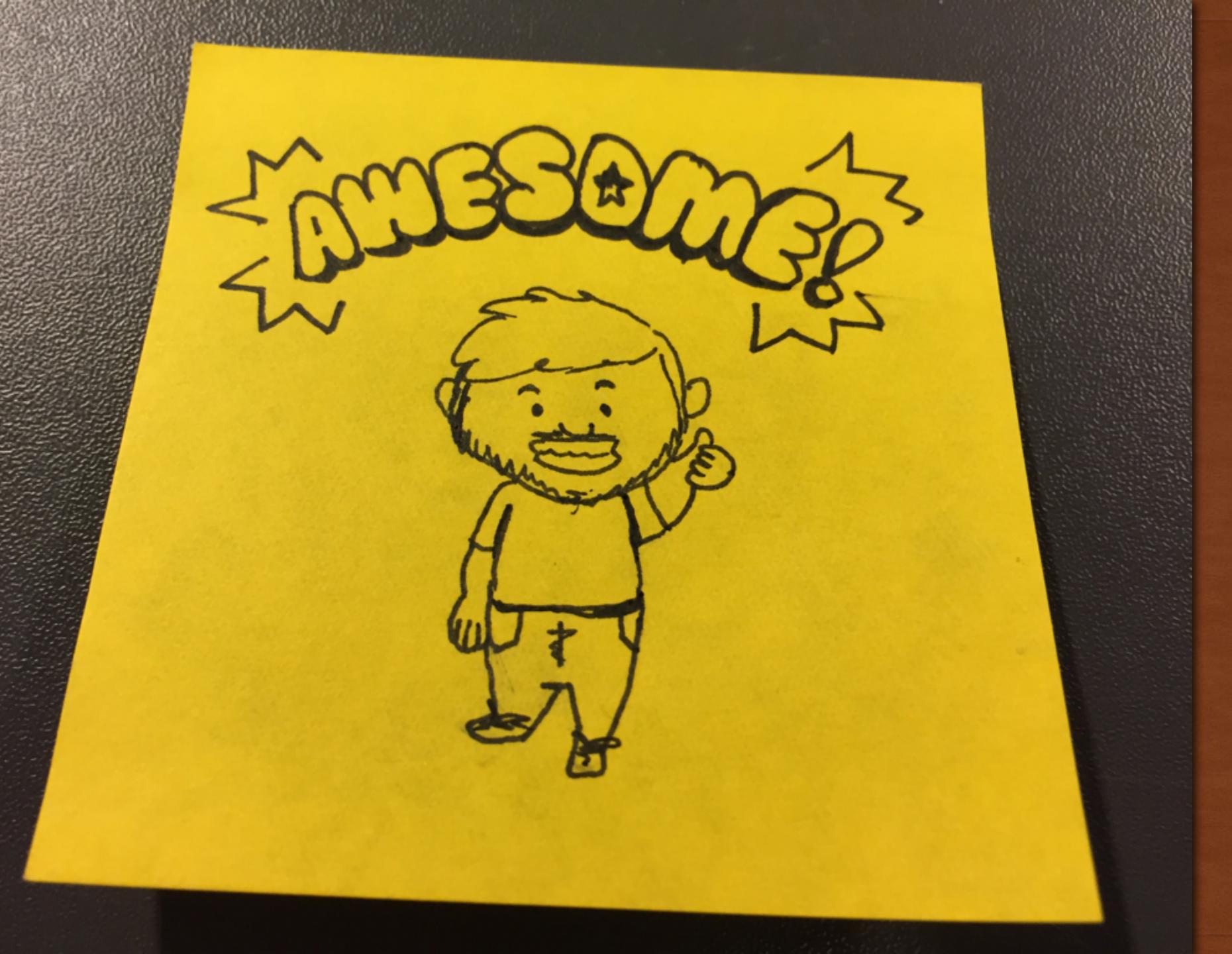












"IT'S TOO MUCH FOR MY LAPTOP"!

HAVING FUNIS IMPORTANT!

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name = "Ana"
puts name



name = "Ana"
puts name

=> "Ana"

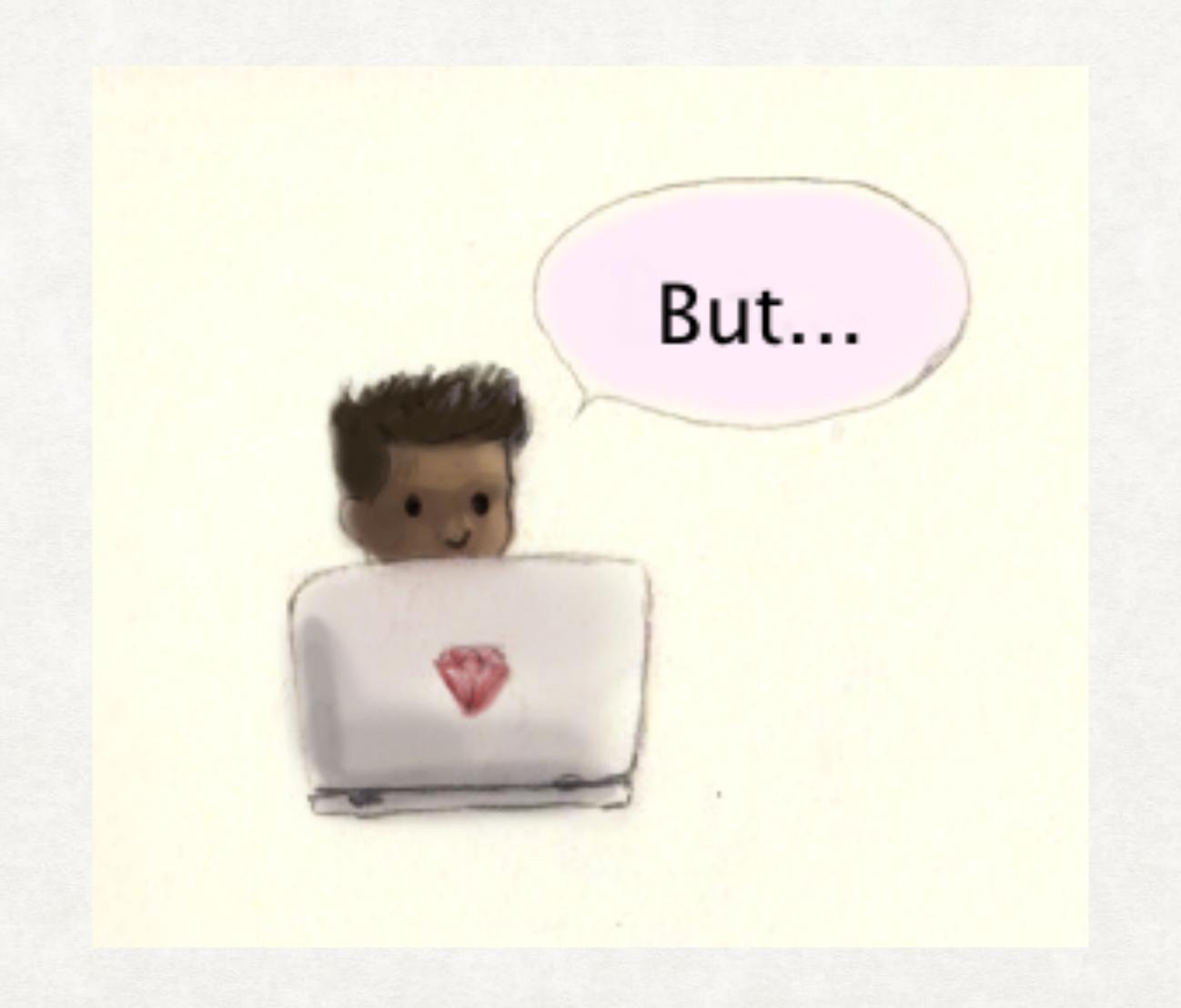
```
puts name
name = "Ana"
```



puts name
name = "Ana"

NameError: undefined local variable or method `name' for ma





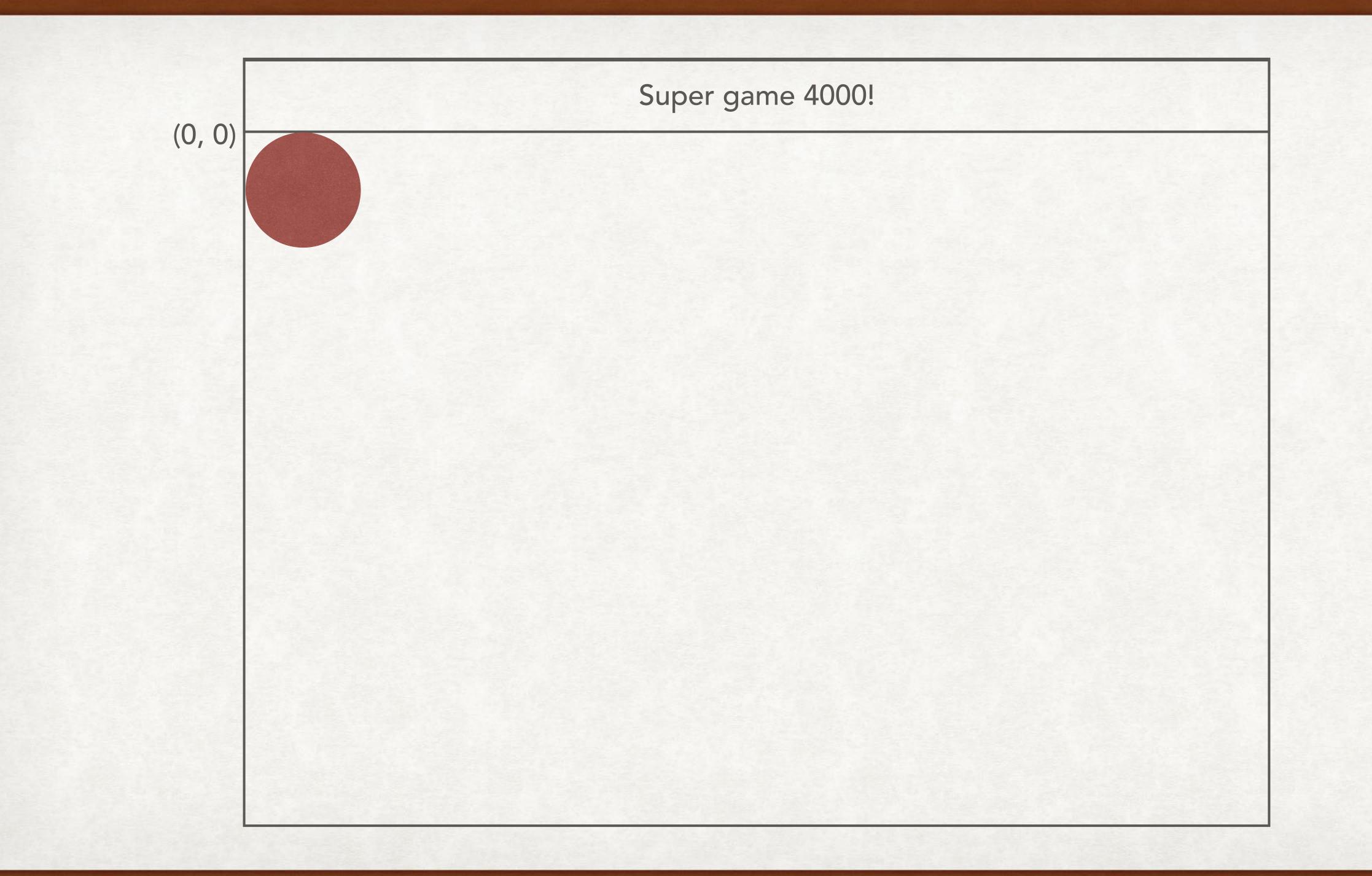




GRAPHICS!

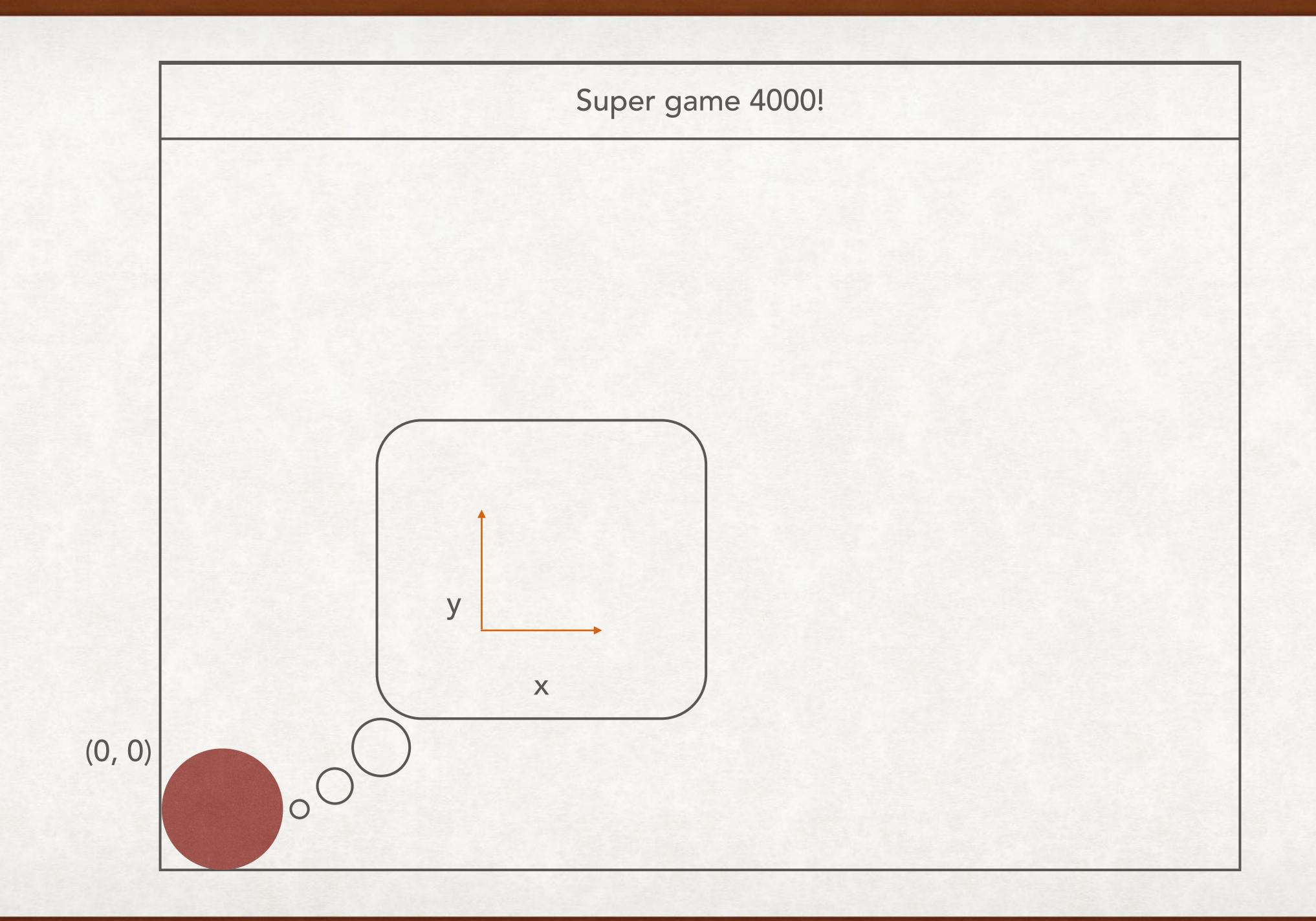
Super game 4000!

Super game 4000! (x, y)

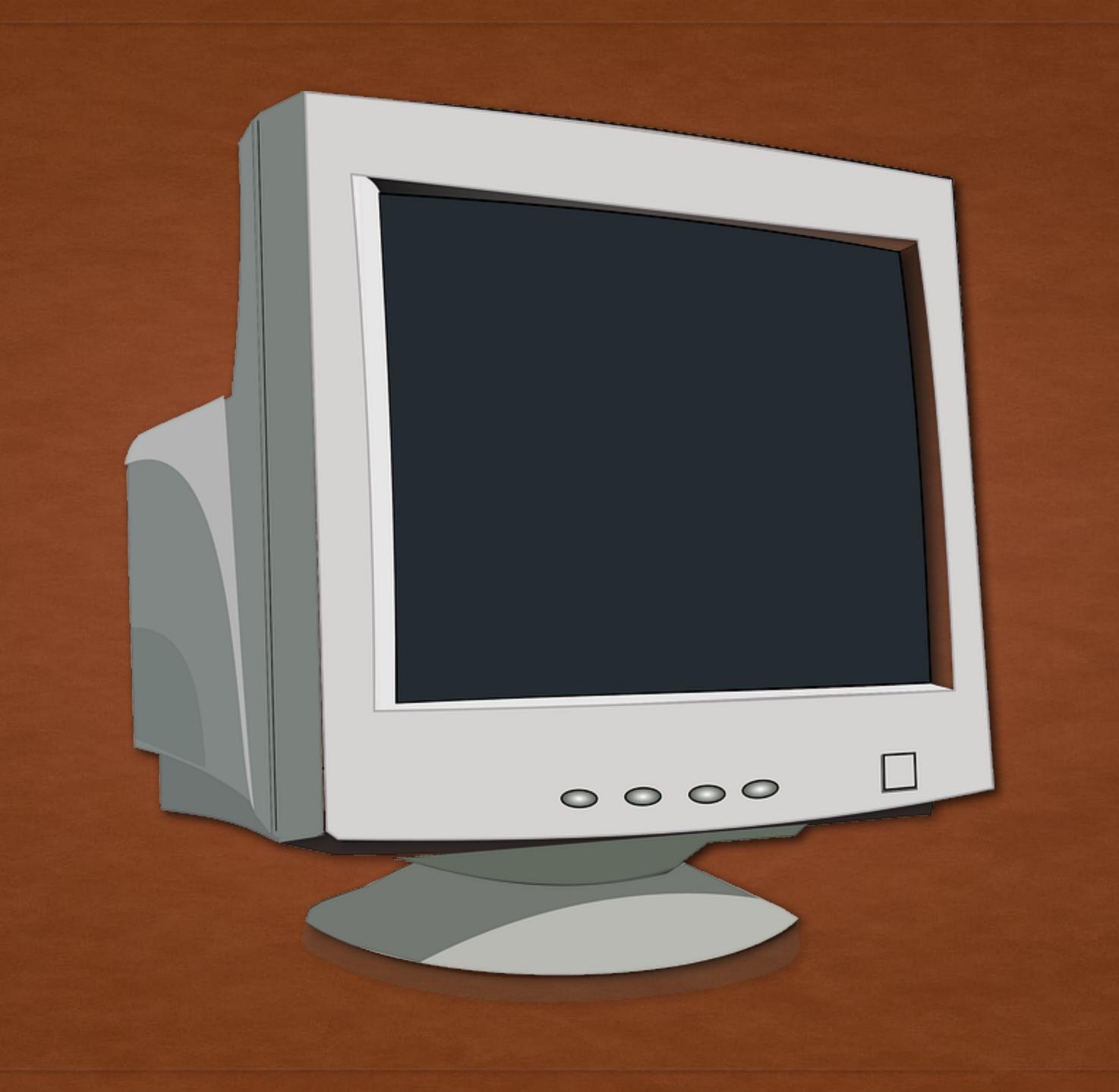




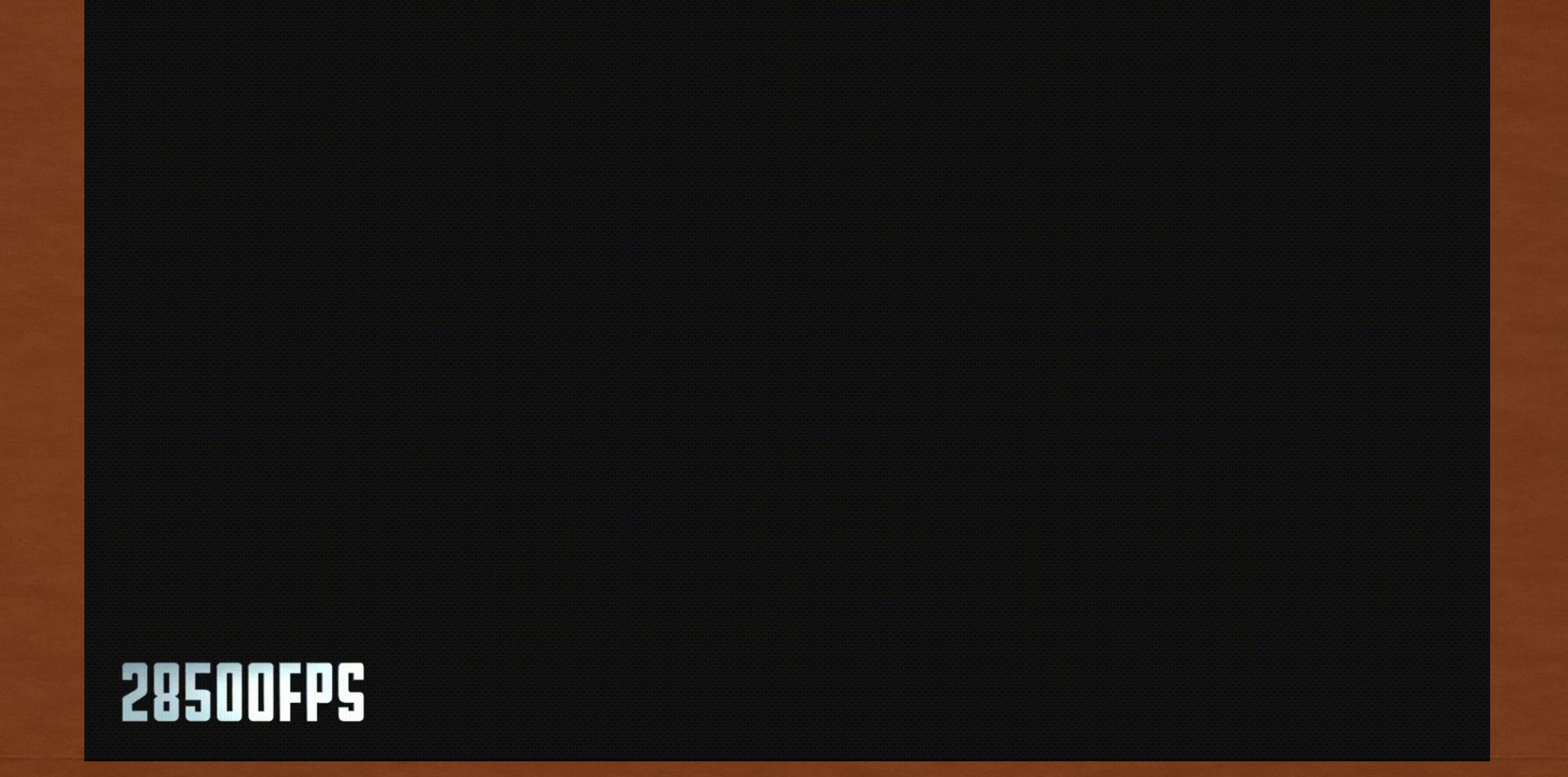
Super game 4000! (0, 0)

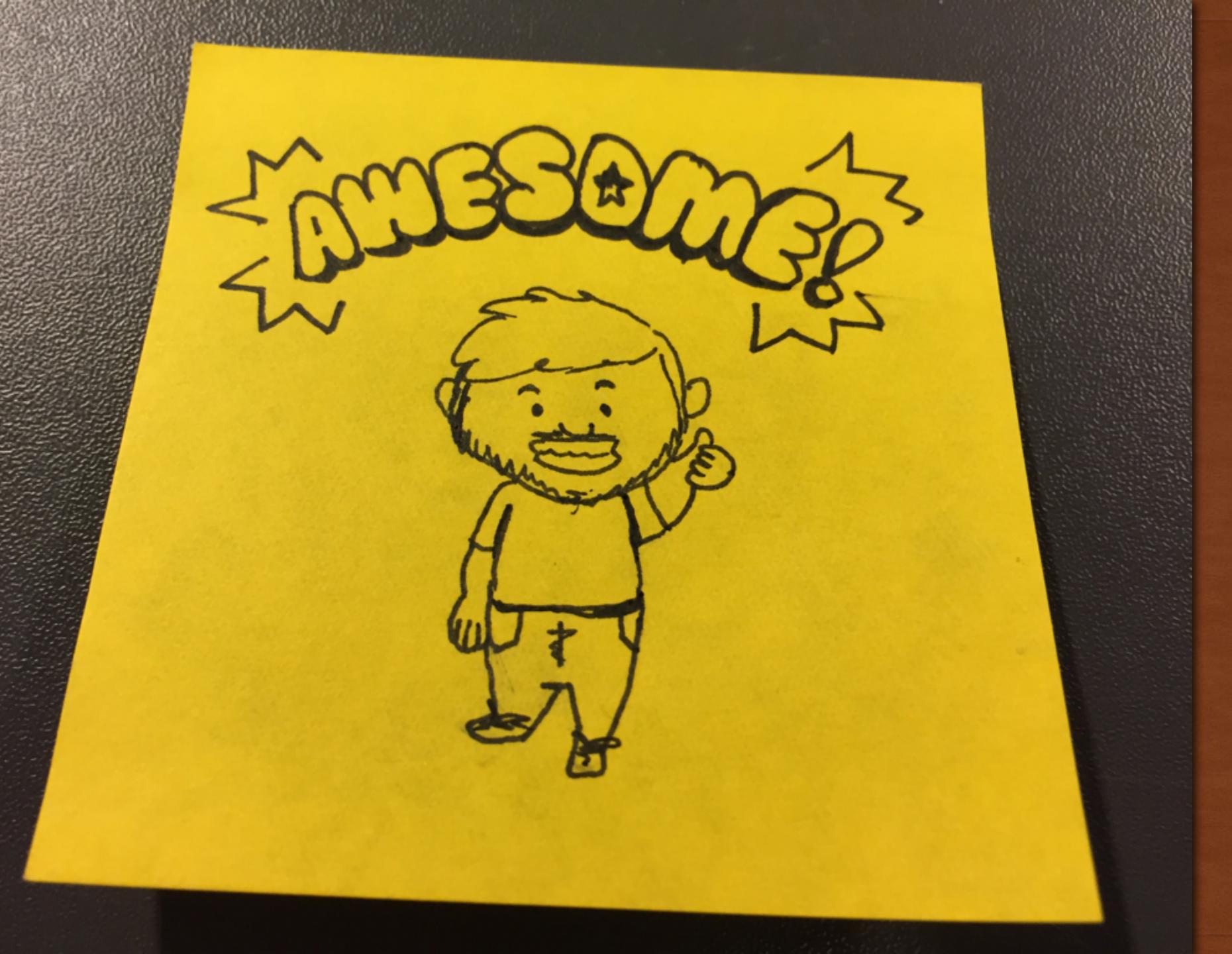






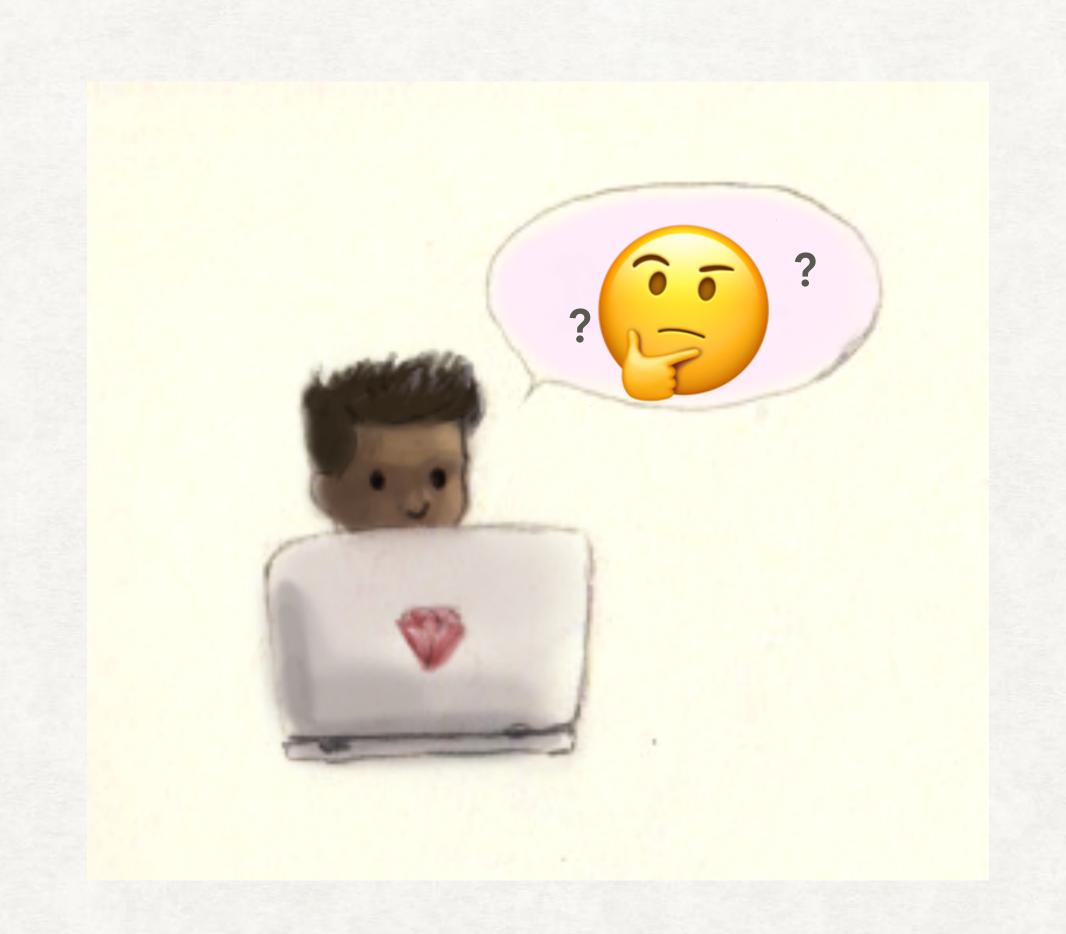
HTTPS://WWW.YOUTUBE.COM/WATCH?V=3BJU2DRRTCM





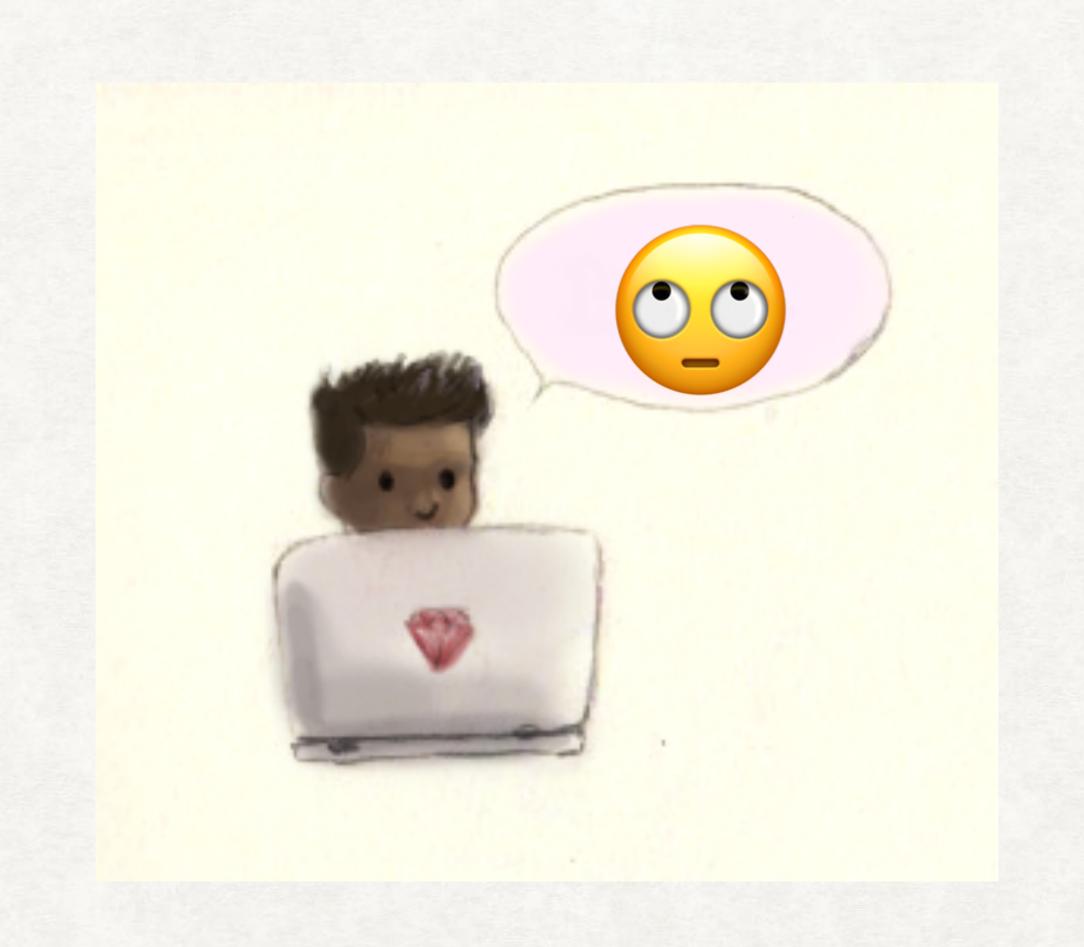
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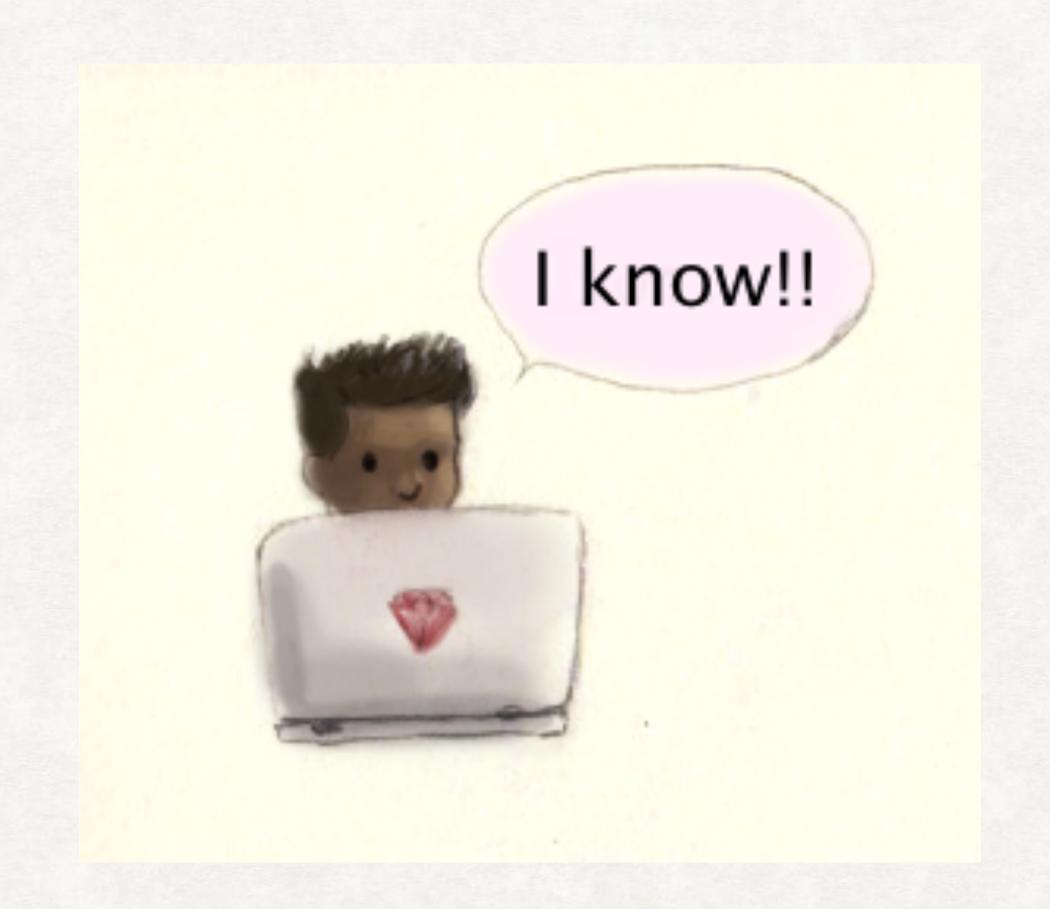
"OK EVERYONE, THIS IS WHAT AN ARRAY IS!"

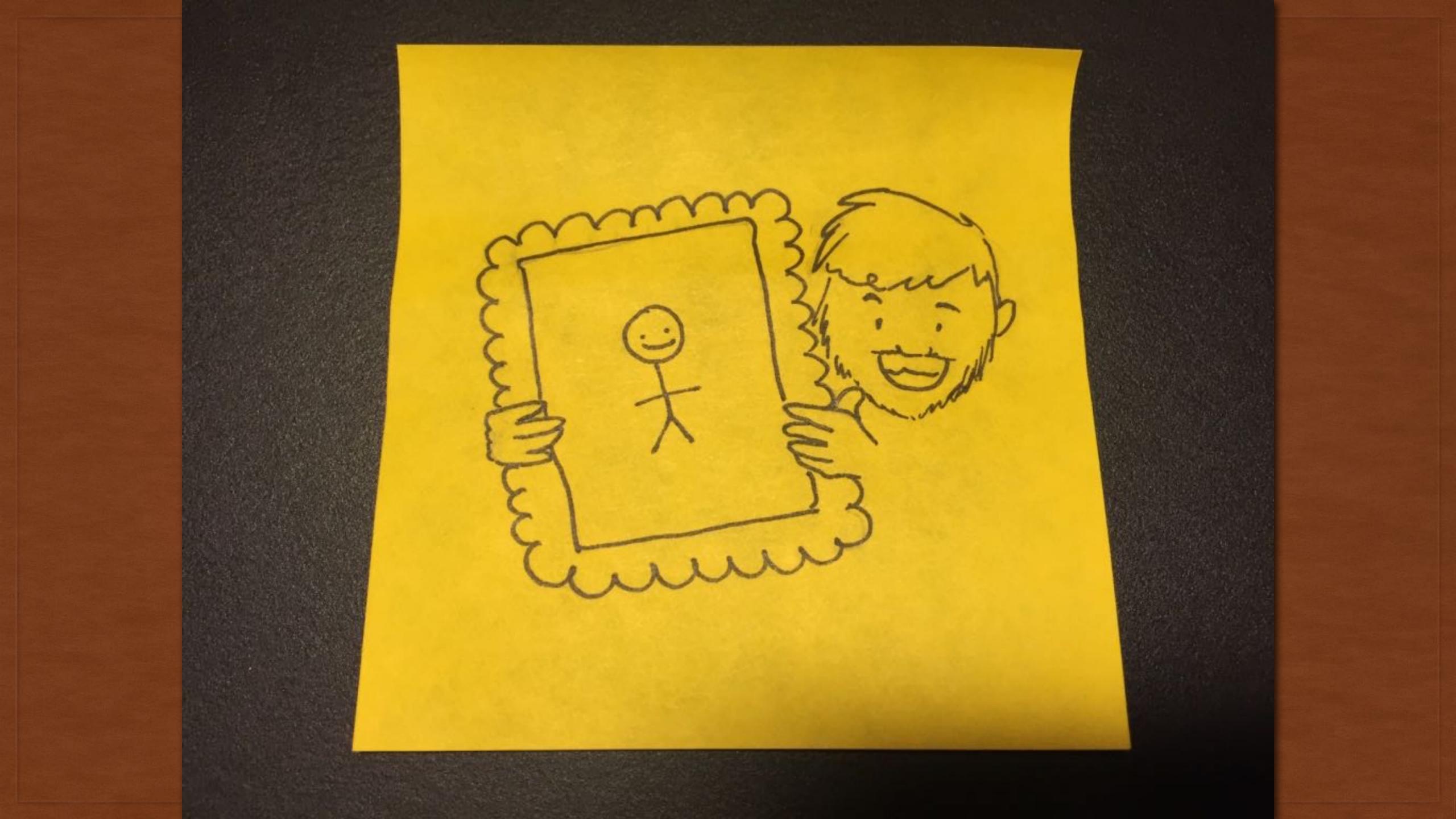


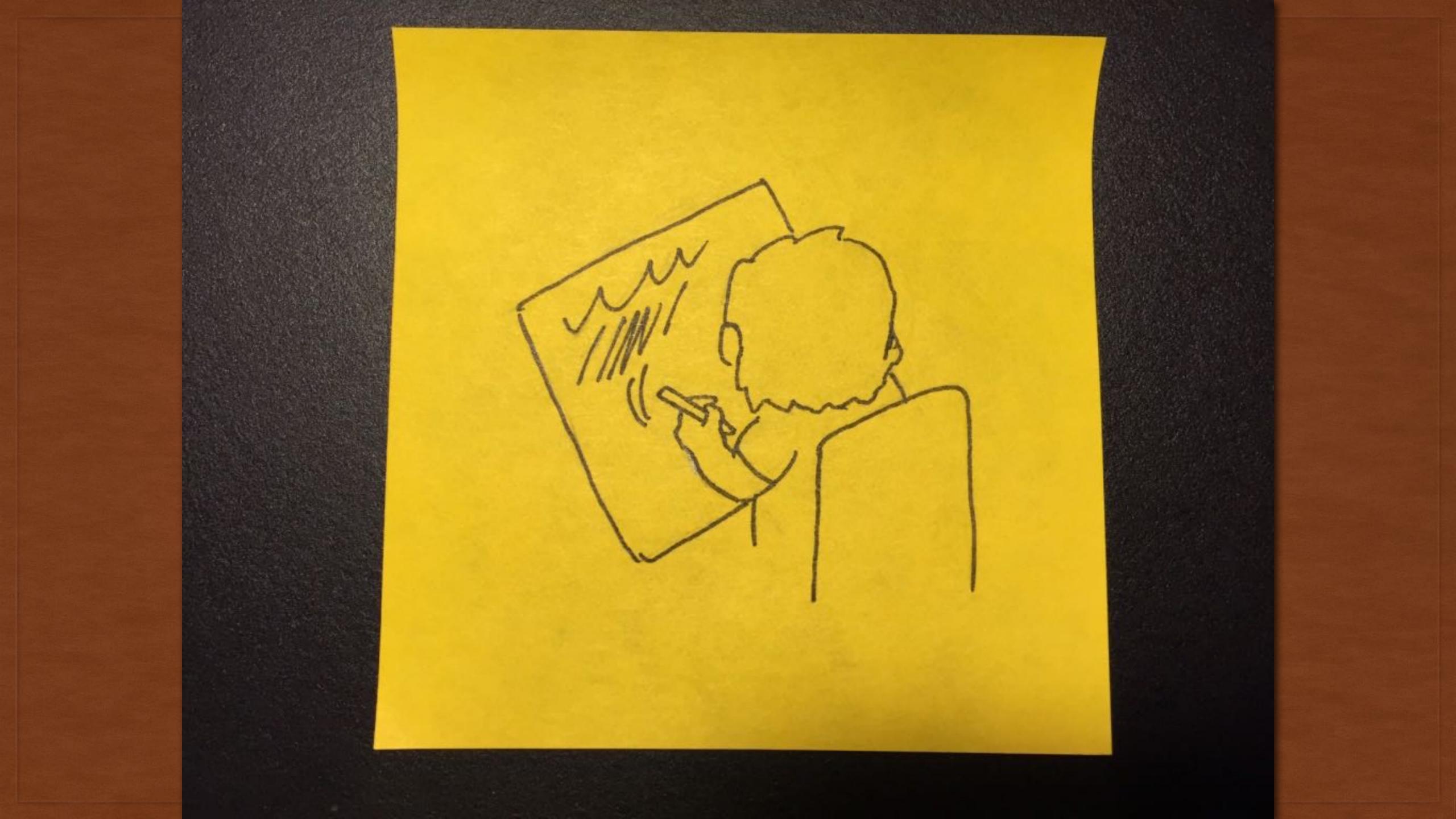
ALRIGHT EVERYBODY! LET'S...

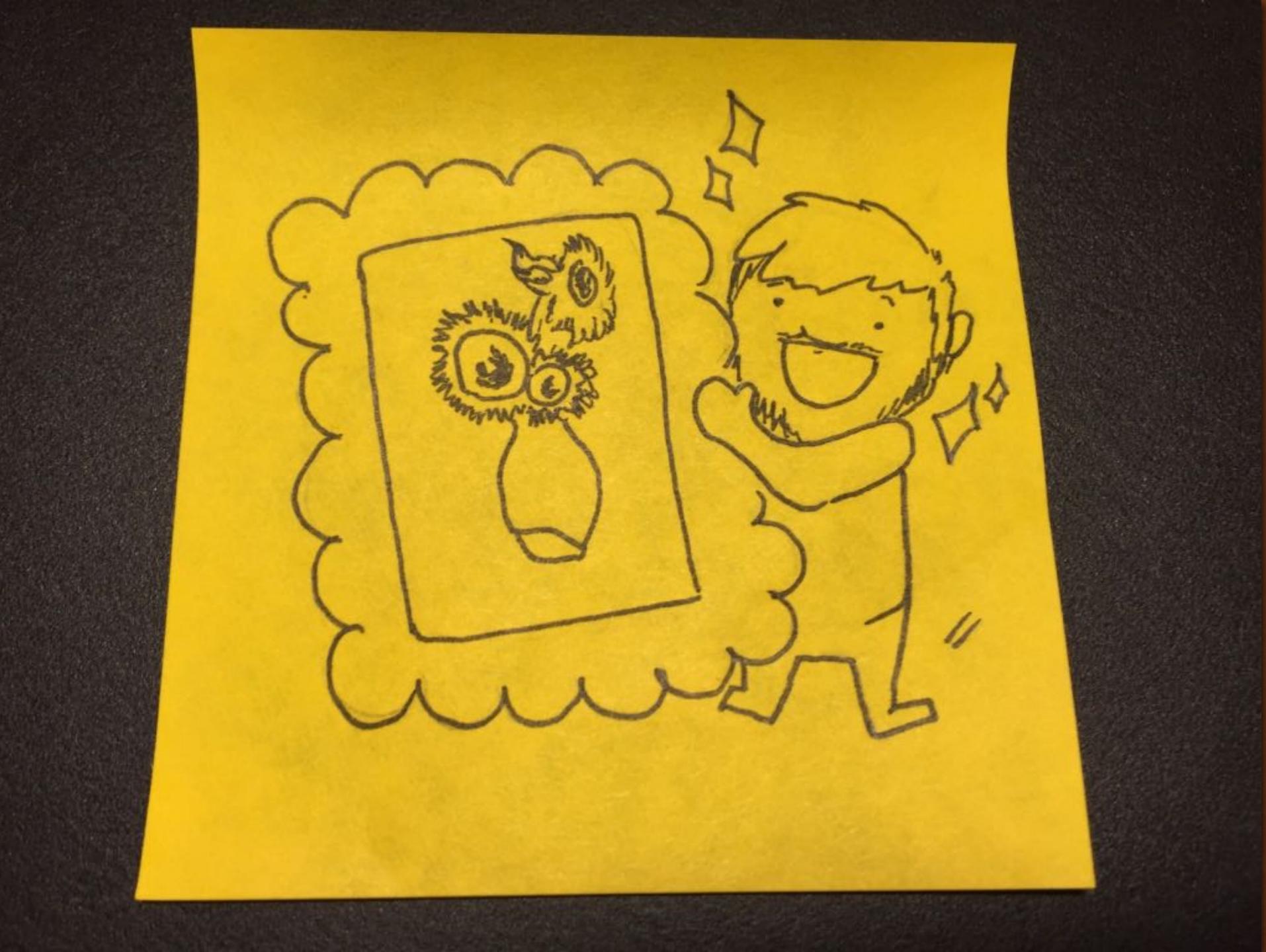
- Make a new array with 50 enemies
- Add an enemy to the array
- Move each enemy five pixels to the right
- Kill every single enemy







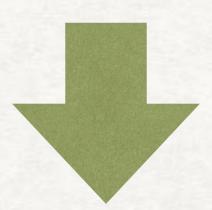




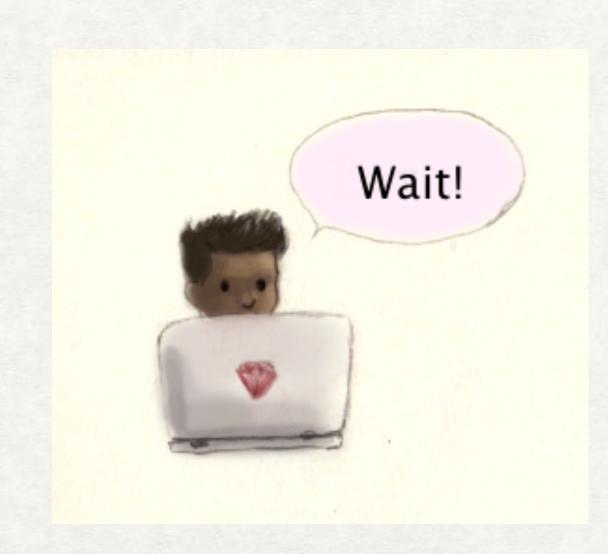
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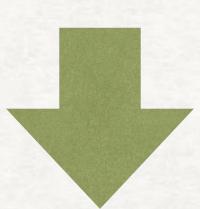
```
def update
   @player.x = @player.x + 5
end
```

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 @player.x = @player.x + 5
end

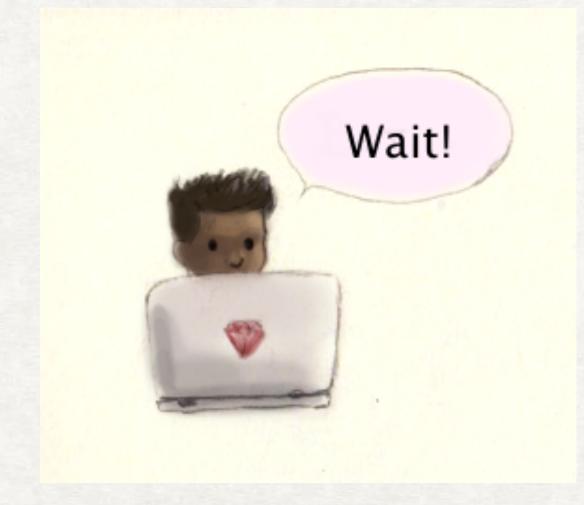


def update
 @player.x += 5
end





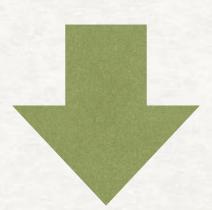
def update
 @player.x += 5
end





@player.x = [@player.x - 5, 0].max

@player.x = [@player.x - 5, 0].max



@player.x = @player.x - 5
if @player.x < 0
 @player.x = 0
end</pre>

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"IT'S BROKEN -_(")_/-"

"IT'S BROKEN -_(")_/-"

```
def update
   @asteroids.each do |asteroid|
    asteroid.move_down
   if @player.collided_with?(asteroid)
      @player.explode
      game_over
      break
   end
end
```

"IT'S BROKEN -_(ツ)_/-" DONEC QUIS NUNC

```
def update
  @asteroids.each do |asteroid|
    asteroid.move down
    if @player.collided with? (asteroid)
      Oplayer.explode
      game over
       break
    end
end
```

SUDDENLY, PAIR PROGRAMMING HAPPENED

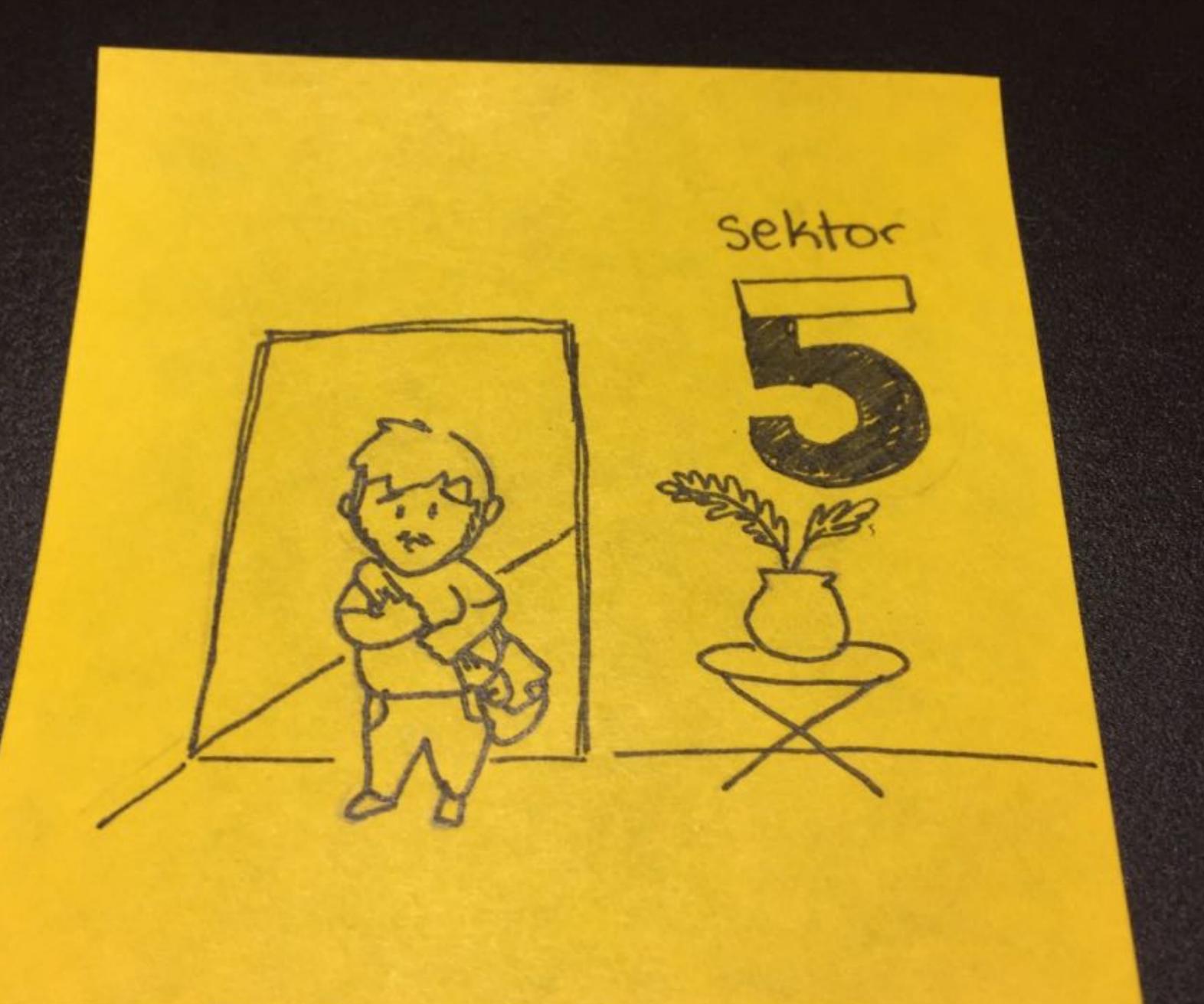


I'M READING LOTS OF CODE NOW AND IT'S GREAT!

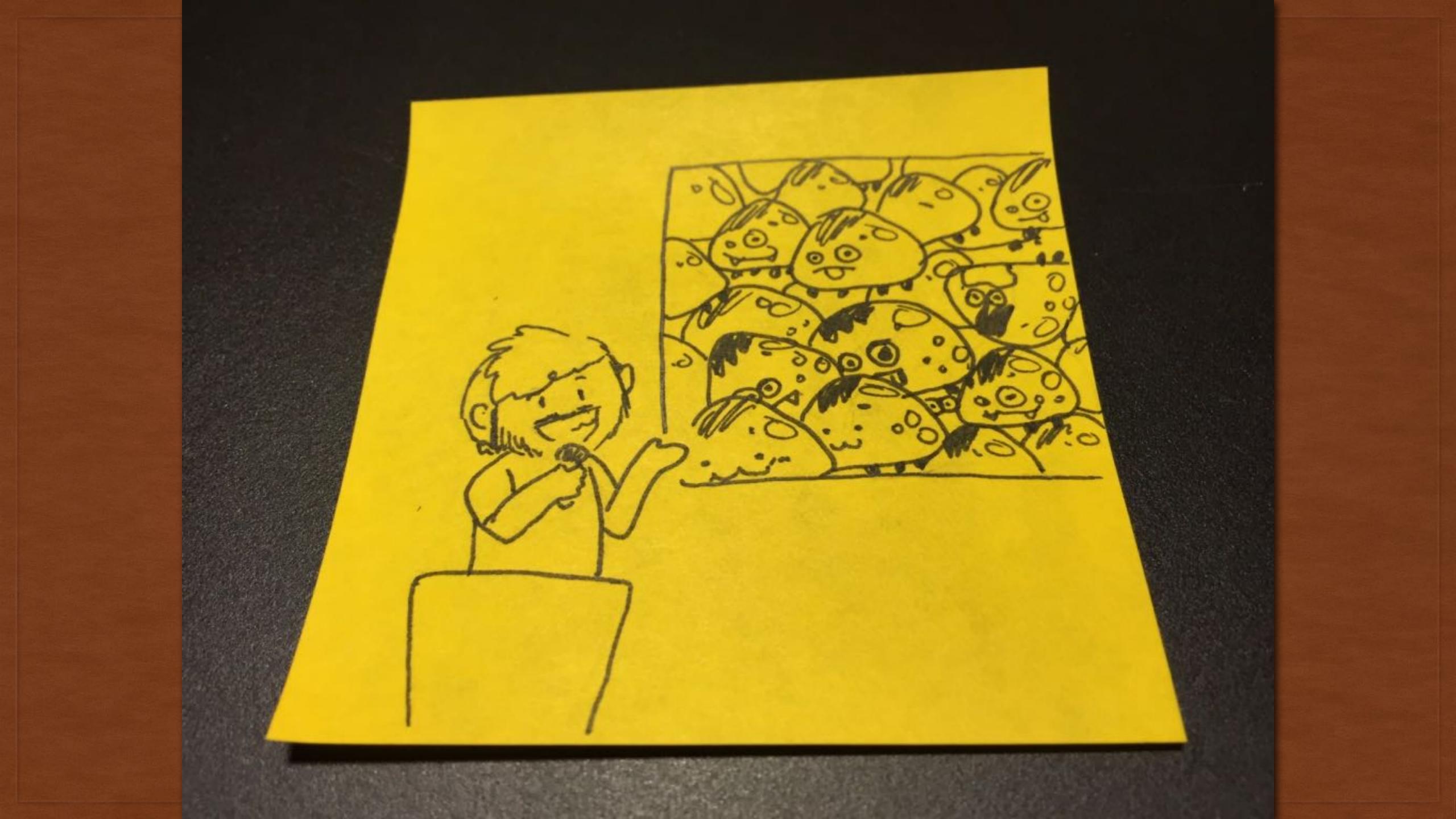
PAIR PROGRAMMING IS PRETTY SWEET!

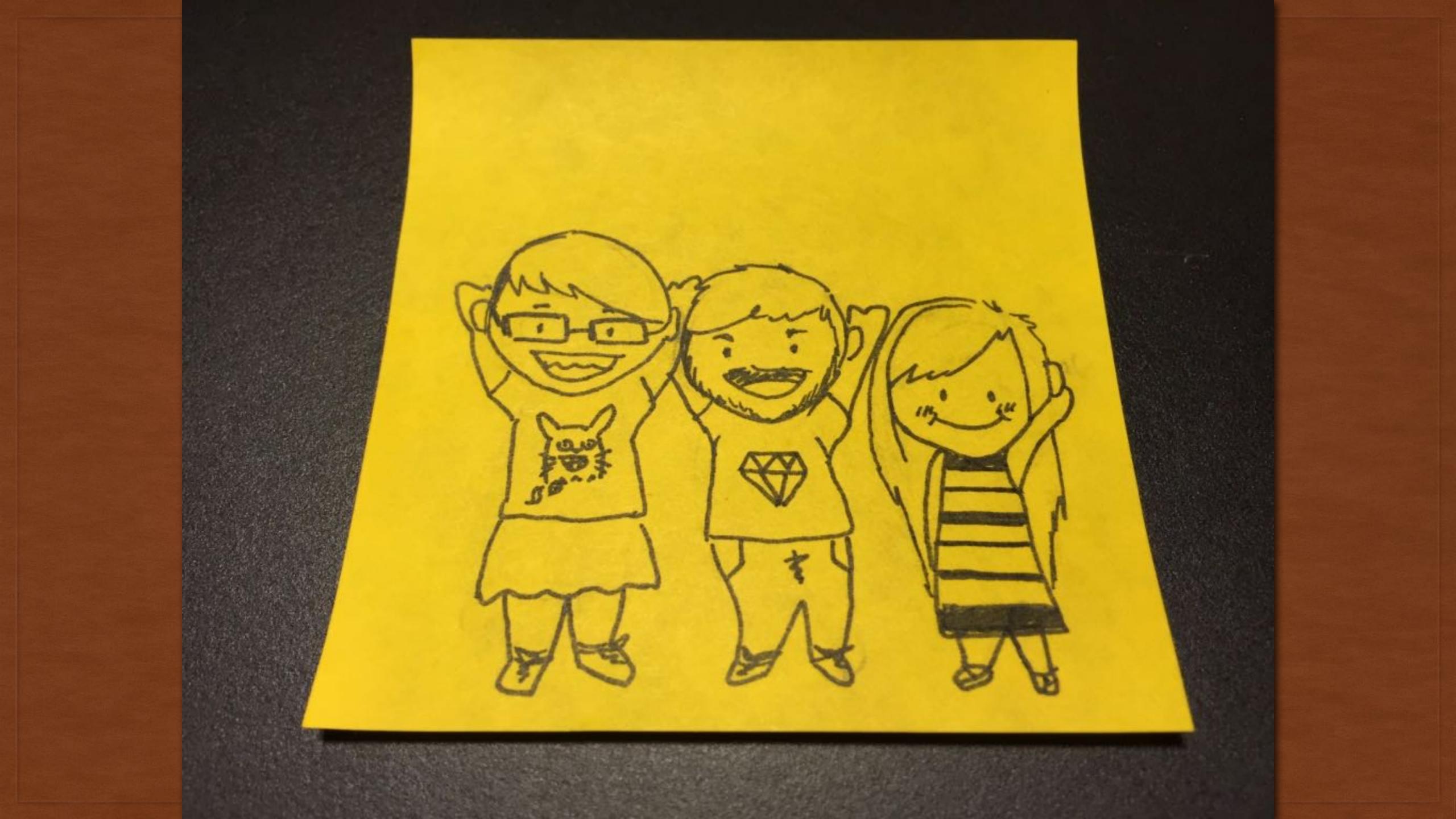
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CONFIDENCE









BUT RAMÓN, THAT WAS SEVERAL YEARS AGO! WHAT ABOUT NOW?

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- Skills carry over between platforms
- It's totally fine not to know something and ask questions













OH BUT HEY, ...

SKILLS I'VE PICKED UP IN OTHER PROJECTS CAN BE USEFUL HERE!

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HEY, WHAT'S THE DIV IN A <DIV> STAND FOR?



THEN



THEN



THEN

OMG WOW I
HAVE NO IDEA
LET'S LOOK IT
UP RIGHT THIS
INSTANT!!!



NOW

LOOKING STUFF UP IS A HIGHLY VALUABLE SKILL.

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TEACH ANYONE!



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