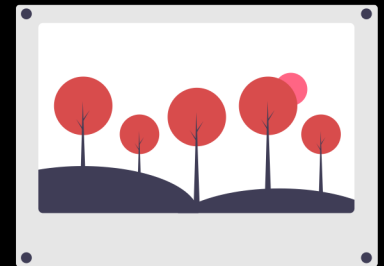
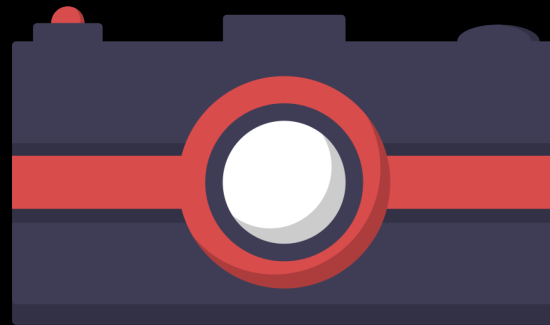


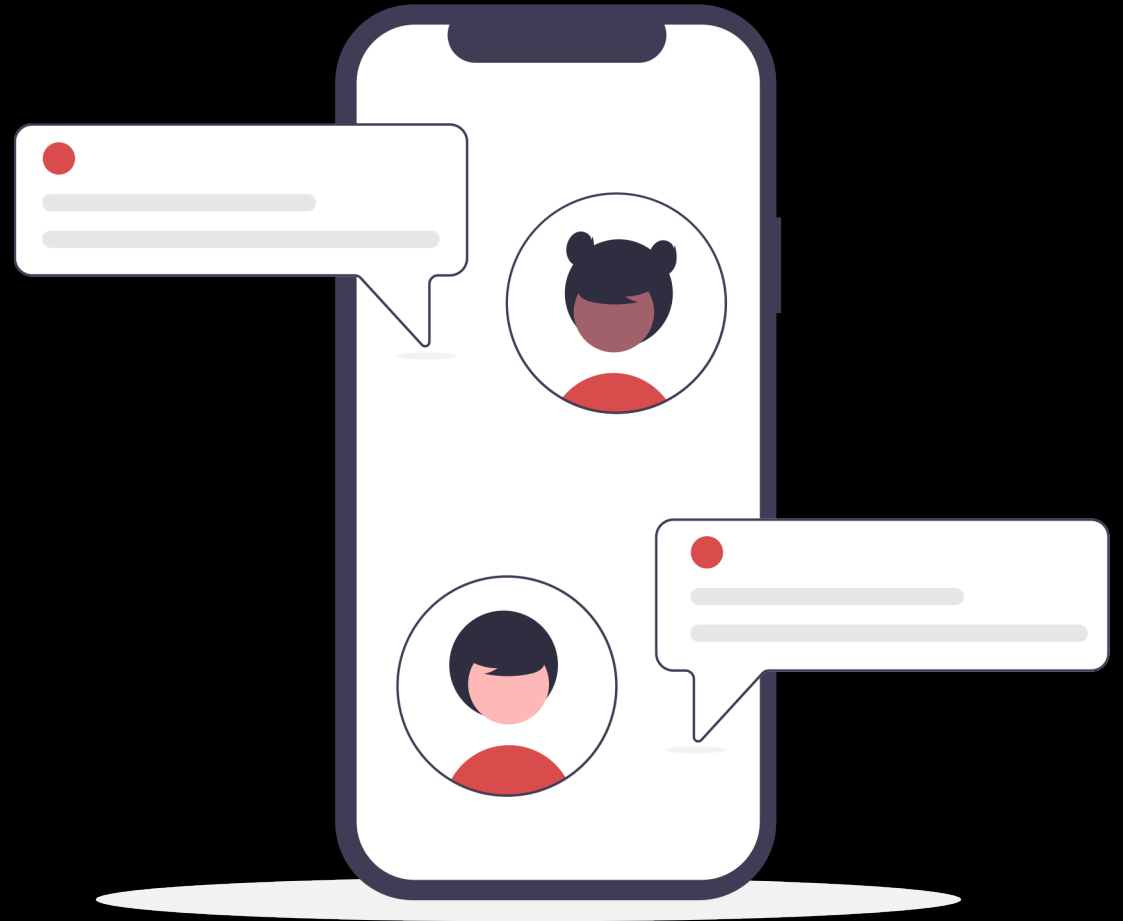
code_in_place_2021

Section 04



Watercooler

- How have coding changed your day-to-day life?
- What is your favorite color(s)?
- What superhero-esque superpower would you like to have?



Shared Agreements

- ✓ **Use professional, courteous, and thoughtful language**

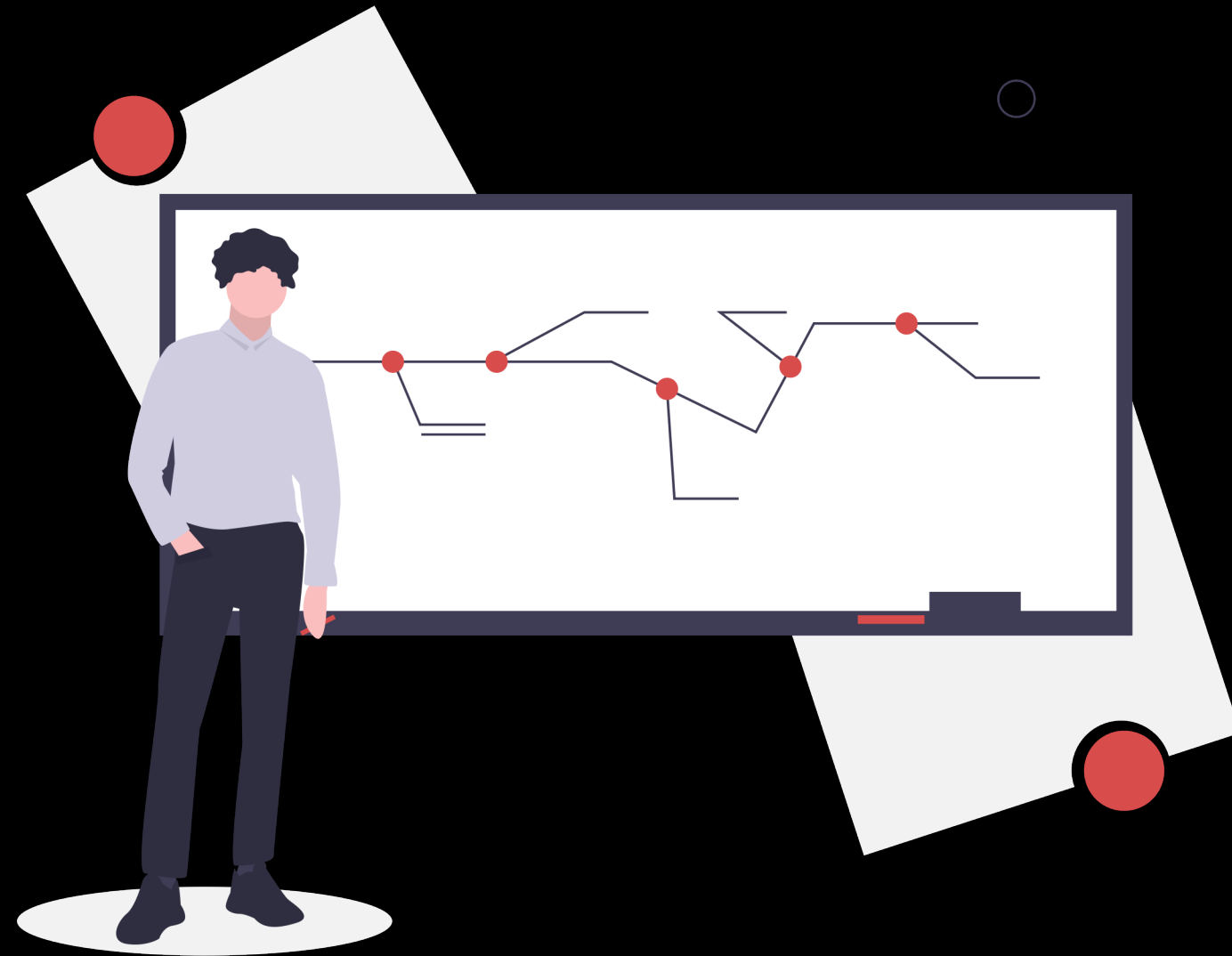
Be mindful of your peers when speaking and asking questions

- ✓ **Assume your peers have good intention**

Even if their words or actions cause concern, remember that we're all learning together.

- ✓ **Ask questions**

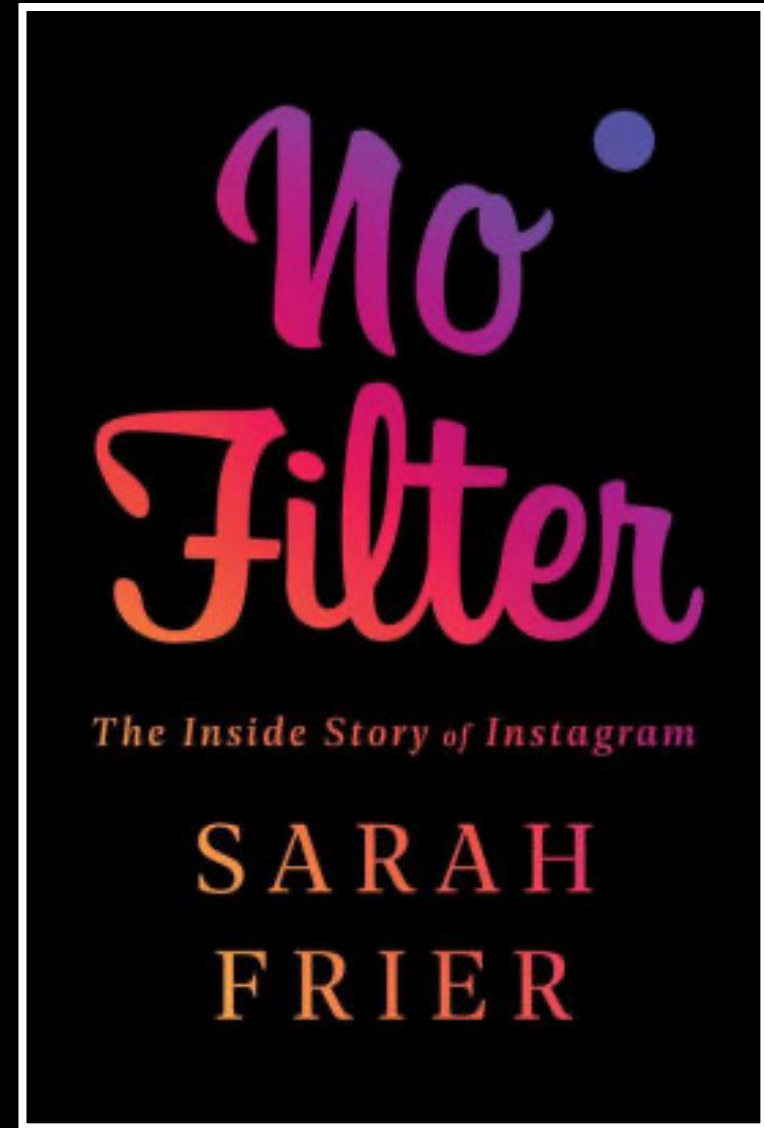
There is NO silly question



Review concepts

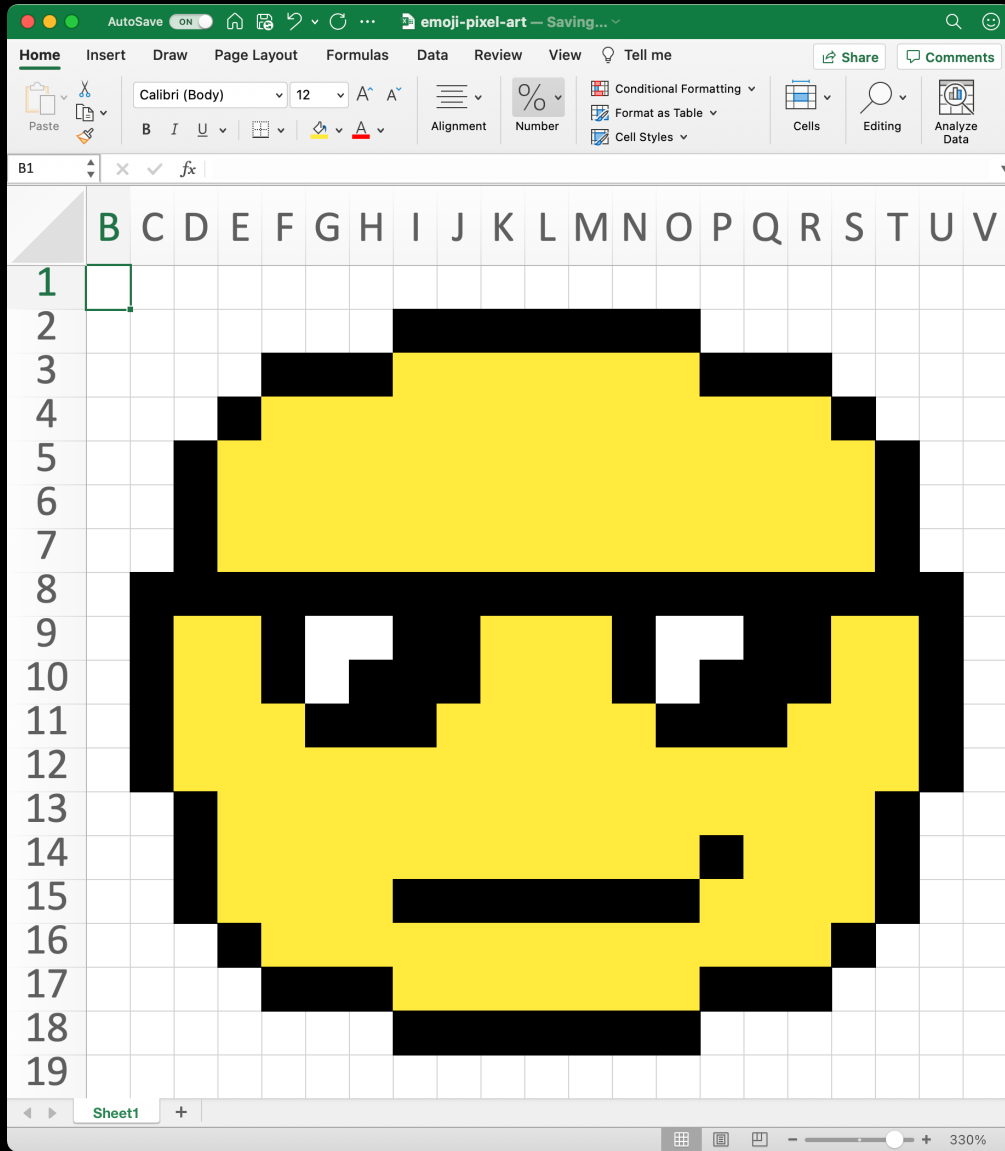
- Images
- Functions

Visual storytelling







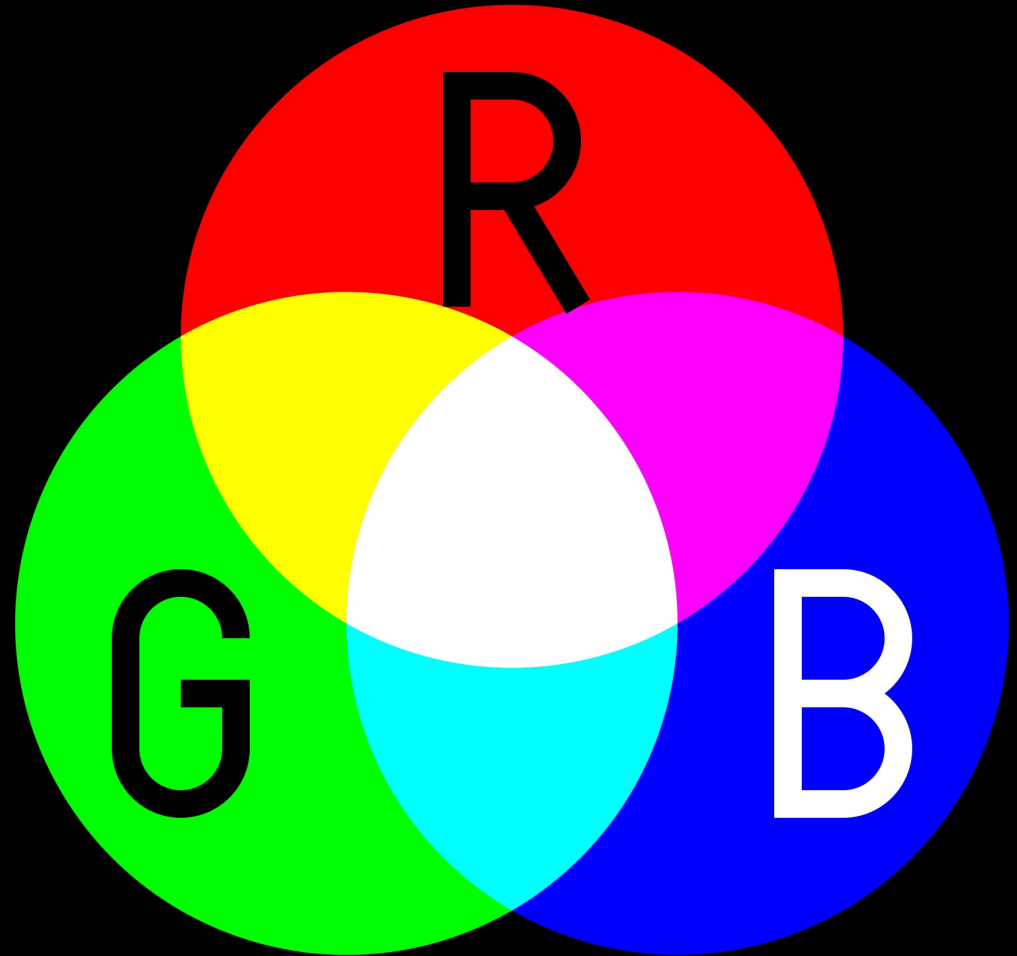


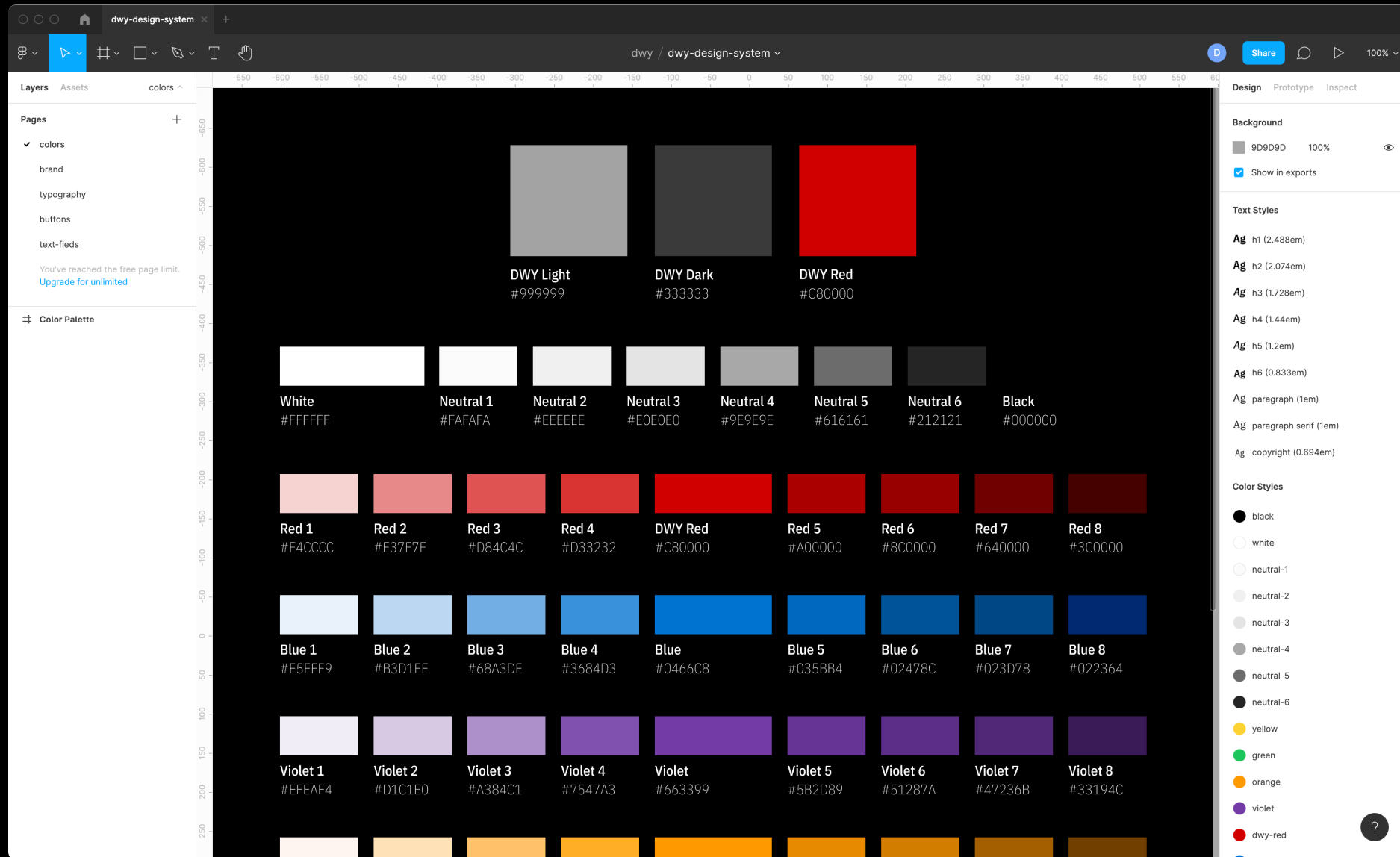
Pixel Art

Dickwyn, Code in Place

RGB

- R = Red
- G = Green
- B = Blue
- Values represented as integers between 0 and 255

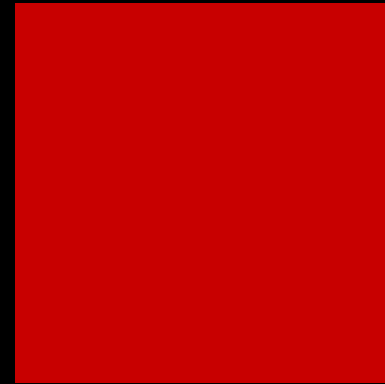




Dickwyn, Code in Place



DWY



R = 200

G = 0

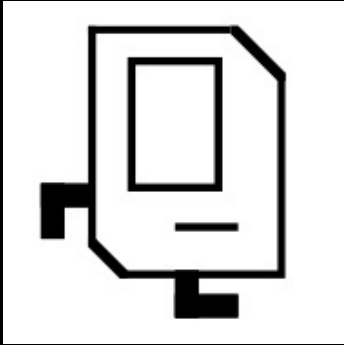
B = 0



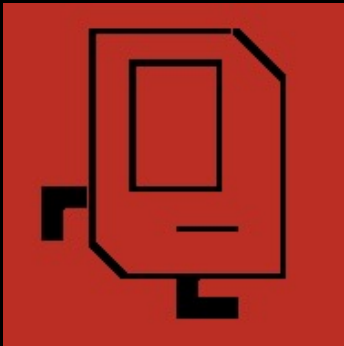
R = 153

G = 153

B = 153



original



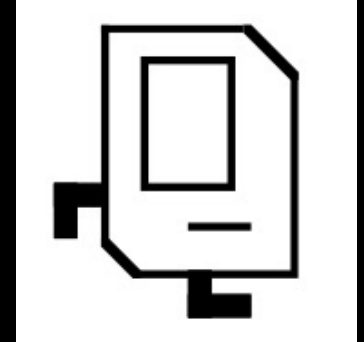
manipulated

```
def make_image_red(image):  
    for pixel in image:  
        if pixel.red != 0:  
            pixel.red = 200  
            pixel.green = 0  
            pixel.blue = 0  
    return image  
  
def main():  
    karel = SimpleImage("karel.png")  
    karel_red = make_image_red(karel)  
    karel_red.show()
```

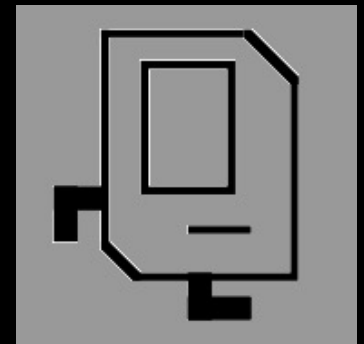
```
karel = SimpleImage("karel.png")
for y in range(karel.height):
    for x in range(karel.width):
        pixel = karel.get_pixel(x,y)
        if pixel.red == 255:
            pixel.red = 153
        if pixel.blue == 255:
            pixel.blue = 153
        if pixel.green == 255:
            pixel.green = 153
karel.show()
```

Dickwyn, Code in Place

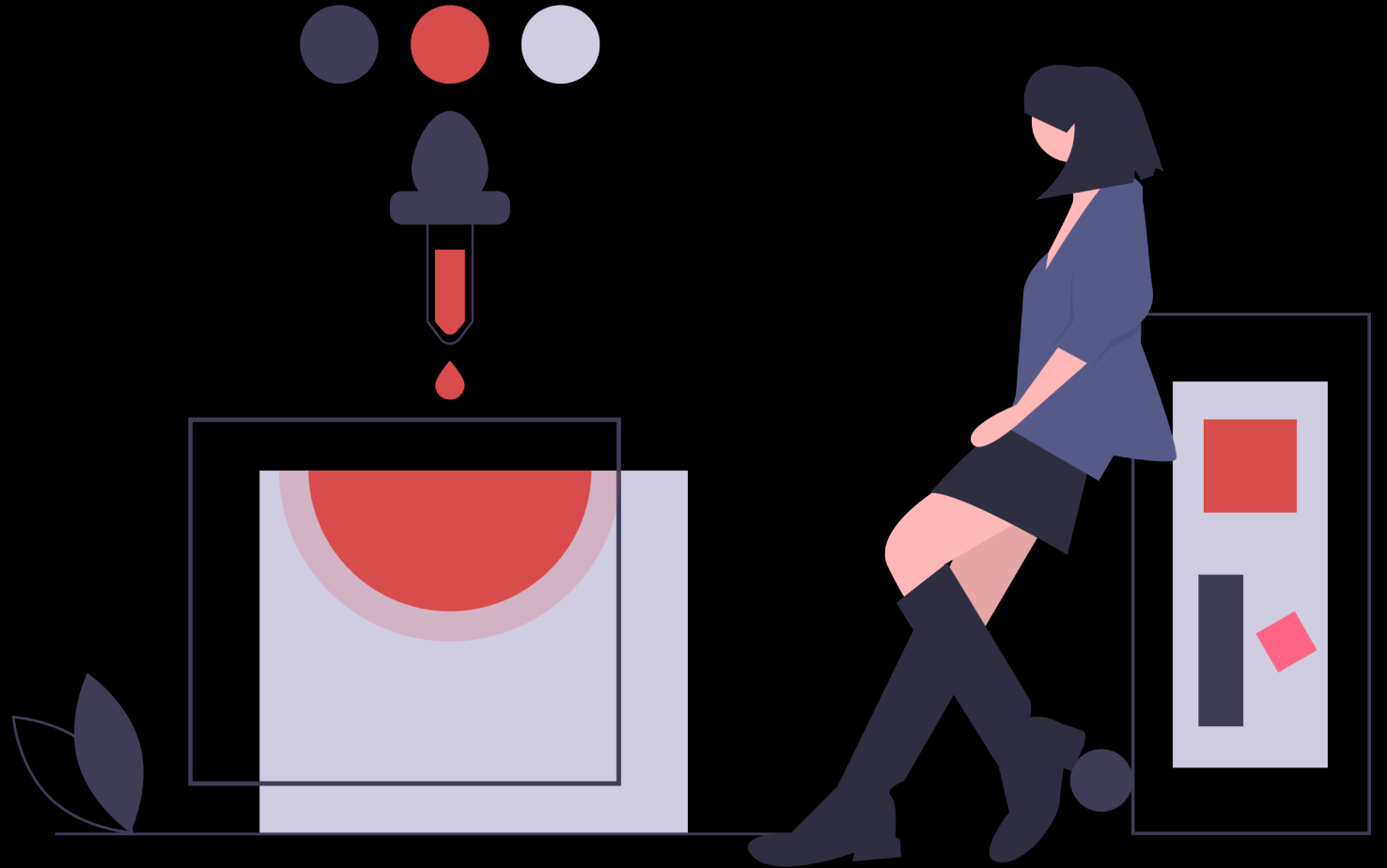
original



manipulated



Hands-on





Story time!

- Computers and technology are everywhere
- Logical problem solving
- Imagination
- Inspiration from other activities