20191984
Emma Rose Rorick

Intro to Visual Media
Programming
pygamel assignment



GitHub Link

I used a different source code than the one used in class. I tried to add extra features as well as change the colours

```
Source Code - <a href="https://drive.google.com/file/d/1emT36o2VQTlETRcKjfduQGutqOcDhT_e/view">https://drive.google.com/file/d/1emT36o2VQTlETRcKjfduQGutqOcDhT_e/view</a>
Changes made:

-added background music, used two channels to play multiple sound files at once
-added button sound effects, game sound effects, losing sound effects
-changed coloring to pastel tones
-added the option to use WASD keys as well as arrow keys
-changed some of the fonts / text size
```

```
pg.mixer.init()
pg.init()
bg_music = pg.mixer.Sound("bgmusic.wav")
chan1 = pg.mixer.find channel()
chan1.set volume(0.6)
chan1.queue(bg_music)
def m1(self):
    pg.mixer.init()
    pg.init()
    pg.mixer.music.load("boost.wav")
    pg.mixer.music.set_volume(3)
    pg.mixer.music.play()
    time.sleep(0.1)
def m2(self):
    pg.mixer.init()
    pg.init()
    pg.mixer.music.load("nohealth.wav")
    pg.mixer.music.play()
    time.sleep(0.8)
def buttonsound(self):
    pg.mixer.init()
    pg.init()
    pg.mixer.music.load("buttonsound.wav")
    pg.mixer.music.play()
    time.sleep(0.2)
```

### Sound

```
def add_apple(self):
    self.score +=1
    m1(self)
    block = pg.Surfact
    block.fill((253,2)
    self.images.apper
```

```
def over(self):
    m2(self)
    chan1.stop()
```

The background music is outside of any function and is queued automatically in a channel upon starting the code.

The other three sounds are defined as separate functions because they won't be overlapping any time during the game.

#### All buttons play the buttonsound

```
if click[0] == 1:
    self.click0 = True
    buttonsound(self)
    chan1.queue(bg_music)
Restart;
```

When the score increases by 1, the "boost" sound plays once.

When the game over function is called, the "nohealth" sound plays and the background music stops.

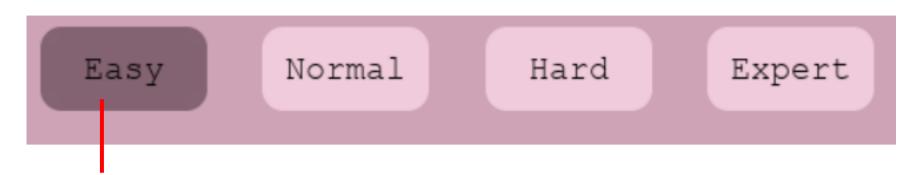
The music starts again if you press "Restart"



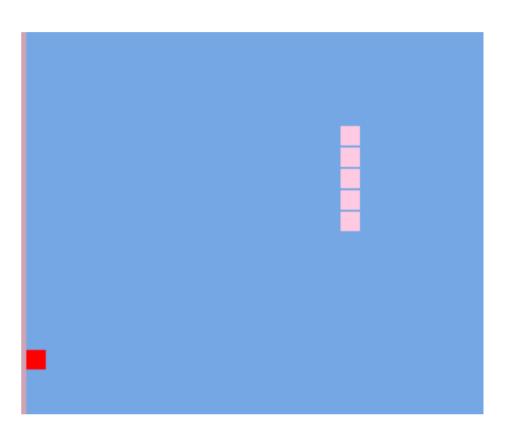
```
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```

pygame1 assignment

### Colors



Hover over a button and the rgb values change



I didn't like the colours of the source code so I used a pastel colour palette to match the music and sound effects.
I changed the start screen, game screen, block colour, button colour, etc.

```
if event.key == pg.K_RIGHT or event.key == ord('d'):
    if self.left == False:
        self.reset()
        self.snake.right()
        self.right = True
if event.key == pg.K_LEFT or event.key == ord('a'):
    if self.right == False:
        self.reset()
        self.snake.left()
        self.left = True
if event.key == pg.K_UP or event.key == ord('w');
    if self.down == False:
        self.reset()
        self.snake.up()
        self.up = True
if event.key == pg.K_DOWN or event.key == ord('s');
    if self.up == False:
        self.reset()
        self.snake.down()
        self.down = True
```

Adding the "or event.key == ord('d') lets you use either "d" or the right arrow key to move right

Left = a

Up = w

Down = s

(ord returns the unicode)

# Controls (WASD)

I added this feature because WASD is more comfortable for some people and also my laptop arrow keys are broken 20191984 Emma Rose Rorick

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## Original



## Original



### Emma version



