Game: Destiny in the pacific

Yaoxu Li

About the program

OOP

Bullet

Player

Enemy

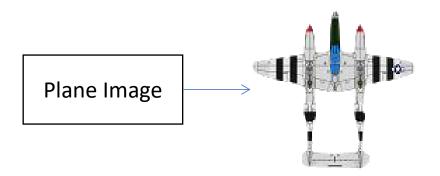
Class Button

Button

- +image(reguler)
- +image(highLight)
- +positon
- +state: bool
- +__init__(self,up,down,position):
- +pos(): boolean
- +render(): void

Class Player

Player +image(reguler) +boundraySize +position +state: bool +__init__(self, plane_img, player_rect,player_position): +moveUp(): void +moveDown(): void +moveLeft(): void +moveRight(): void +shoot(bullet_img): void



Control player



Manipulation

Which means we created a function and we press the button to control the position of plane from our keyboard.

if key_pressed[pygame.K_SPACE]:
 player.shoot(bullet_image)

We add an extra movement of bullet when the plane is moving, so it becomes more realistic

Control player

```
key_pressed = pygame.key.get_pressed()
if key_pressed[pygame.K_w] or key_pressed[pygame.K_UP]:
  player.moveUp()
if key_pressed[pygame.K_s] or key_pressed[pygame.K_DOWN]:
  player.moveDown()
if key_pressed[pygame.K_a] or key_pressed[pygame.K_LEFT]:
  player.moveLeft()
if key_pressed[pygame.K_d] or key_pressed[pygame.K_RIGHT]:
  player.moveRight()
if key_pressed[pygame.K_SPACE]:
 # set a delay in shooting
  if shootDelay \% 495 == 0:
    player.shoot(bullet_image)
  shootDelay += 5
  if shootDelay >= 75:
    shootDelay = 0
```

Class Enemy

Enemy

- +image
- +shotImage
- +position
- +bundraySize
- +_init__(self, enemy_img, enemyShot_img,
- enemy_position):
- +enemyMove(): void

Enemy

image

position

shot_img

Enemy move function

def enemyMove(self):
 self.rect.top += self.move

Class Bullet

Bullet

- +image
- +positon
- +bundraySize
- +__init__(bullet_image, bullet_position):
- +bulletMove(): void

image

position

Bullet move function

def bulletMove(self):
 self.rect.top -= self.move

Backgroud Music

We put the BGM and types of sound effects into the program which provide a better experiencing.

```
#code
#back ground music

pygame.mixer.music.load('music/bgm2.mp3')

pygame.mixer.music.play(-1)
```