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Import pygame
Import random
Import time
Pygame.init()
Clock = pygame.time.Clock()
Fps = 60
# Game window
Tile_size = 50
Cols = 20
Margin = 100
Screen_width = tile_size * cols
Screen_height = (tile_size * cols) + margin
Screen = pygame.display.set_mode((screen_width, screen_height))
Pygame.display.set_caption('Rail Rush Clone')
# Function to load images with error handling
Def load_image(path, size=None):
 Try:
   Image = pygame.image.load(path)
   If size:
     Image = pygame.transform.scale(image, size)
   Return image
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Print(f"Unable to load image at {path}. Error: {e}")
   Return None
# Load images
Bg_img = load_image(r'C:\Users\sheeb\OneDrive\Desktop\Documents\bg.jpg',
(screen_width, screen_height - margin))
Wood_img = load_image(r'C:\Users\sheeb\OneDrive\Desktop\Documents\obstacle.jpg',
(tile_size, tile_size))
Banana_img = load_image(r'C:\Users\sheeb\OneDrive\Desktop\Documents\banana.jpg',
(tile_size, tile_size))
Monkey_img = load_image(r'C:\Users\sheeb\OneDrive\Desktop\Documents\monkey.jpg',
(tile_size * 2, int(tile_size * 3)))
# Define game variables
Score = 0
Gravity = 1
Game_over = False
# Define colors
White = (255, 255, 255)
Green = (144, 201, 120)
Black = (0, 0, 0)
Font = pygame.font.SysFont('Futura', 24)
# Player class
```

Except pygame.error as e:

```
Class Player():
  Def __init__(self, x, y):
    Self.rect = pygame.Rect(x, y, tile_size * 2, int(tile_size * 3))
    Self.vel_y = 0
    Self.jump_power = 15
    Self.jump_count = 0
    Self.max_jumps = 3 # Max number of times the up arrow can be pressed to increase
the jump height
    Self.in air = True
  Def move(self):
    Dx = 0
    Dy = 0
    # Get key presses
    Key = pygame.key.get_pressed()
    If key[pygame.K_UP] and self.jump_count < self.max_jumps:
     If not self.in_air:
       Self.vel_y = -self.jump_power
       Self.in_air = True
     Else:
       Self.vel_y = -self.jump_power * (self.max_jumps - self.jump_count) # Increase
jump height
     Self.jump_count += 1
    If key[pygame.K_LEFT]:
     Dx = -5
    If key[pygame.K_RIGHT]:
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# Gravity
    Self.vel_y += gravity
   If self.vel_y > 10:
     Self.vel_y = 10
    Dy += self.vel_y
    # Update player position
    Self.rect.x += dx
    Self.rect.y += dy
   # Collision with ground
    If self.rect.bottom > screen_height - margin:
     Self.rect.bottom = screen_height - margin
     Dy = 0
     Self.in_air = False
     Self.jump_count = 0 # Reset jump count when on the ground
    # Draw the player
    Screen.blit(monkey_img, self.rect.topleft)
    Return dx, dy
# Obstacle class
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Class Obstacle(pygame.sprite.Sprite):

Dx = 5

```
Def __init__(self, x, y):
    Pygame.sprite.Sprite.__init__(self)
    Self.image = wood_img
    Self.rect = self.image.get_rect()
    Self.rect.x = x
    Self.rect.y = y
  Def update(self):
    Self.rect.x -= 5
    If self.rect.right < 0:
      Self.kill()
# Banana class
Class Banana(pygame.sprite.Sprite):
  Def __init__(self, x, y):
    Pygame.sprite.Sprite.__init__(self)
    Self.image = banana_img
    Self.rect = self.image.get_rect()
    Self.rect.x = x
    Self.rect.y = y
  Def update(self):
    Self.rect.y += 5 # Falling speed
    If self.rect.top > screen_height:
      Self.kill()
```

```
# Create sprite groups
Obstacle_group = pygame.sprite.Group()
Banana_group = pygame.sprite.Group()
Player = Player(screen_width // 2 - tile_size, screen_height - margin - tile_size * 1.5)
# Function to draw text
Def draw_text(text, font, text_col, x, y):
  Img = font.render(text, True, text_col)
  Screen.blit(img, (x, y))
# Timer variables
Last_banana_time = time.time()
Obstacle_spawn_interval = 15 # 15 bananas
# Main game loop
Run = True
Banana_counter = 0
While run:
  Clock.tick(fps)
  # Draw background
  Screen.fill(green)
  If bg_img:
   Screen.blit(bg_img, (0, 0))
```

```
Road_width = screen_width // 4
Road_height = tile_size
Road_x = (screen_width - road_width) // 2
Road_y = screen_height - margin - tile_size
Pygame.draw.rect(screen, black, (road_x, road_y, road_width, road_height))
# Draw player
Dx, dy = player.move()
# Update and draw groups
Obstacle_group.update()
Obstacle_group.draw(screen)
Banana_group.update()
Banana_group.draw(screen)
# Check for collision with obstacles
If pygame.sprite.spritecollide(player, obstacle_group, False):
 Game_over = True
# Check for collision with bananas
If pygame.sprite.spritecollide(player, banana_group, True):
 Score += 1
 Banana_counter += 1
 Last_banana_time = time.time() # Update timer when banana is caught
```

Draw black road in the center

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Draw_text(f'Score: {score}', font, white, tile_size, screen_height - 60)
# Generate new bananas
If random.randint(1, 50) == 1:
  Banana_group.add(Banana(random.randint(0, screen_width - tile_size), -tile_size))
# Check if it's time to spawn a new obstacle
If banana_counter >= obstacle_spawn_interval:
  Obstacle_group.add(Obstacle(screen_width, screen_height - margin - tile_size * 2))
  Banana_counter = 0 # Reset the banana counter after spawning an obstacle
# Event handler
For event in pygame.event.get():
  # Quit game
  If event.type == pygame.QUIT:
   Run = False
If game_over:
  Draw_text('Game Over', font, white, screen_width // 2 – 100, screen_height // 2)
  Pygame.display.update()
  Pygame.time.wait(2000)
  Run = False
# Update game display window
Pygame.display.update()
```

Draw the score

Pygame.quit()