

曹昱 张思嘉 刘勇 范艳 彭海灵

# 策划

电脑游戏自1972年由威尔·克劳舍编写的一段简单的FORTRAN程序 开始,已经历了数十年风风雨雨了。从最开始避开陷阱的简单地图, 到今天即时战略、角色扮演、经营策略、休闲养成等各种类型的游戏; 从2D 到3D, 游戏无论在技术上还是画面上都以惊人的速度不断突破。 游戏的娱乐性及其多样性是其最吸引人的地方。但由于现在能力有限, 我们决定开发一个简单的小游戏。

受到颠球游戏的启发,我们打算做一个类似的接东西的小游戏。漫 长的讨论下,我们敲定了故事背景发生在太空下。

# 分工

刘勇、张思嘉、曹昱

测试

调试

绘制图形程序代码实现

范艳、彭海灵

策划 用PPT制作

游戏开始的界面:

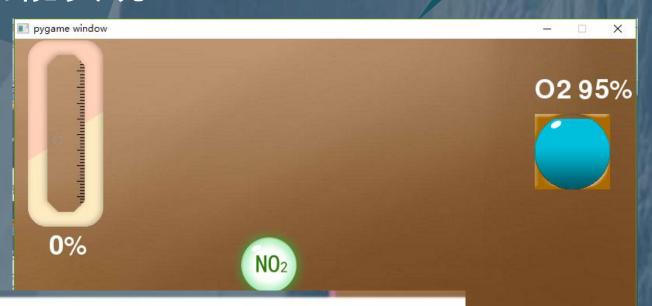


#screen

screen = pygame.display.set\_mode([800,710])

start\_image = pygame.image.load("before.jpg")

游戏过程中的界面:

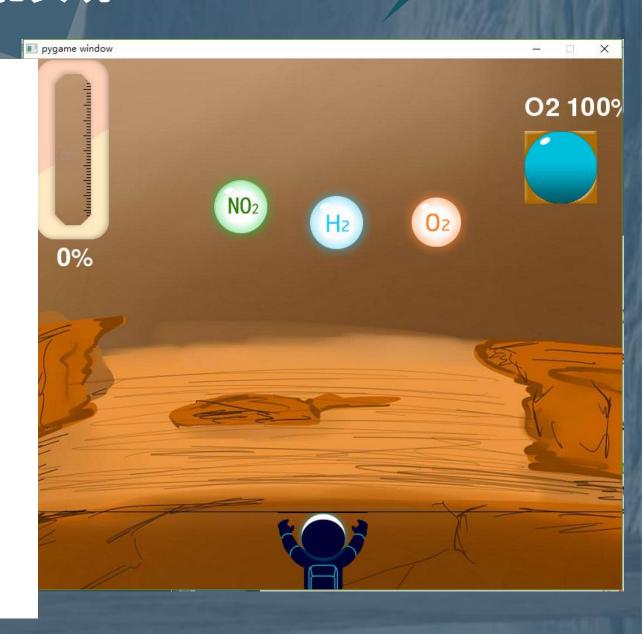


#### #background

background = pygame.Surface(screen.get\_size())
bg\_image = pygame.image.load("background.jpg")
background.blit(bg\_image,[0,0])

#### 定义气体对象:

```
class Ball3 (pygame.sprite.Sprite):
   def restart (self):
       self.rect.left = randint(0,540)
       self.rect.top = 0
       self.speed = [0,6] #二氧化氮速度从这里改
   def init (self, speed, location):
       pygame.sprite.Sprite. init (self)
       self.image=pygame.image.load('No2.png')
       self.rect = self.image.get rect()
       self.rect.left, self.rect.top = location
       self.speed = speed
   def move (self):
       if self.rect.top<510: #二氧化氮碰撞位置从这里改
           newpos = self.rect.move(self.speed)
           self.rect = newpos
       else:
           self.restart()
```



# 气体的实例化

```
my_ball1 = Ball1([0,8],[randint(0,540),0]) #随机生成的速度和位置
my_ball2 = Ball2([0,8],[randint(0,540),0])
my_ball3 = Ball3([0,7],[randint(0,540),0])

# create my objects

goodball_group = pygame.sprite.Group()
niceball_group = pygame.sprite.Group()
niceball_group.add(my_ball1)
goodball_group.add(my_ball2)

badball_group.add(my_ball3)
```

# 气体的加分机制

# 接受板的类

```
class Paddle(pygame.sprite.Sprite):
    # initializer
    def __init__(self, location):
        # call super initializer
        pygame.sprite.Sprite.__init__(self)

    image_surface = pygame.surface.Surface([120, 2]) # 设定绘制表面
    image_surface.fill([0, 0, 0, 0])

    self.image = image_surface.convert() # 将绘制表面转换成图像(球拍)
    self.rect = self.image.get_rect()
    self.rect.left, self.rect.top = location
```

# 接受板的实例化

```
# create my paddle
paddle = Paddle([(800-120)/2, 710-104])
people = People([(800-120)/2, 710-103])
```

#### 游戏成功时的结束界面:

```
if seconds <= 0:
    if score >=100:
        sucess_image = pygame.image.load("success.jpg")
        screen.blit(sucess_image,[0,0])
        score_font = pygame.font.Font(None,50)
        score_text = score_font.render("SOCRE %d"%score,1,[200,20,0])
        width =screen.get_width()
        screen.blit(score_text,[(width - score_text.get_width() - 10)/2,60])
```

## 游戏失败时的结束界面:

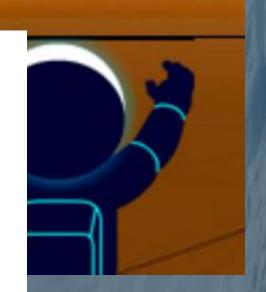
```
else:
    fail image = pygame.image.load("fail.jpg")
    screen.blit(fail_image,[0,0])
    score_font = pygame.font.Font(None, 50)
    score text = score font.render("SOCRE %d"%score, 1, [200, 20, 0])
    width =screen.get width()
    screen.blit(score text, [(width - score text.get width() - 10)/2,60])
   pygame.display.flip()
    if event.type == pygame.KEYDOWN:
        if event.key == pygame.K r:
            seconds = 20
            score = 0
        continue
```



#### "宇航员"的类的定义

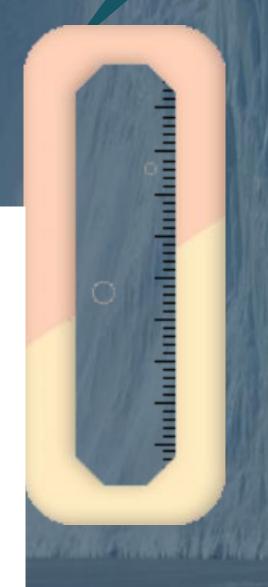
```
#initializer
def __init__(self, location):
    #call super initializer
    pygame.sprite.Sprite.__init__(self)

self.image = pygame.image.load("peaple.png")
    self.rect = self.image.get_rect()
    self.rect.left,self.rect.top = location
```



#### 分数槽:

```
#lifeline
   lifes rect = pygame.Rect(42,222,47,-score*2)
    if 0 < score and score <=100:
        if 0 < score and score <=30:
            pygame.draw.rect(screen,[255,score * 5 + 4,25],lifes rect,0)
        if 30 < score and score <=60:
            pygame.draw.rect(screen,[255,165,25],lifes rect,0)
        if 60 < score and score <=100:
            pygame.draw.rect(screen, [255,165 + (score-40)*1.5,25], lifes rect,0)
    elif score >100:
        lifes rect = pygame.Rect(42,222,47,-200)
        pygame.draw.rect(screen,[230,255,25],lifes rect,0)
    lives image = pygame.image.load("lives.png")
    screen.blit(lives image, [17,2])
    pygame.draw.line(screen, [0,0,0,100], [0,710-104], [960,710-104],1)
#end
```



#### 氧气含量(倒计时):

```
#set timer
pygame.time.set_timer(pygame.USEREVENT, 1000)
```

```
0290%
```

```
#timer
    if 1 <= seconds and seconds <= 20:
        font = pygame.font.Font(None, 50)
        time_rect = pygame.Rect(800-130,193,97,-seconds*4.7)
        time_image = pygame.image.load("times.png")
        seconds_display = font.render("02 "+str(seconds*5) +"%", 1, (255, 255, 255))
        display_pos =(800-130,49 )
        pygame.draw.rect(screen,[0,191,220],time_rect,0)
        screen.blit(seconds_display,display_pos)
        screen.blit(time_image,[800-130,97])
#end</pre>
```

#### 音效及音乐:

```
#voice
splat = pygame.mixer.Sound("splat.wav")
splat.set_volume(0.3)

pygame.mixer.music.load("ingg.mp3")
pygame.mixer.music.set_volume(0.3)
```

# 事件的设定

#### 1、开局等待用户开始事件

```
def waitForPlayToPressKey():
    while True:
        for event in pygame.event.get():
            if event.type ==pygame.QUIT:
                pygame.quit()
                sys.exit()
            if event.type == pygame.KEYDOWN:
                if event.key == pygame.K_ESCAPE:
                     pygame.quit()
                     sys.exit()
                     elif event.key == pygame.K_s:
                     return
```

#### 2、重新游戏事件

```
if event.type == pygame.KEYDOWN:
   if event.key == pygame.K_r:
       seconds = 20
       score = 0
       continue
```

