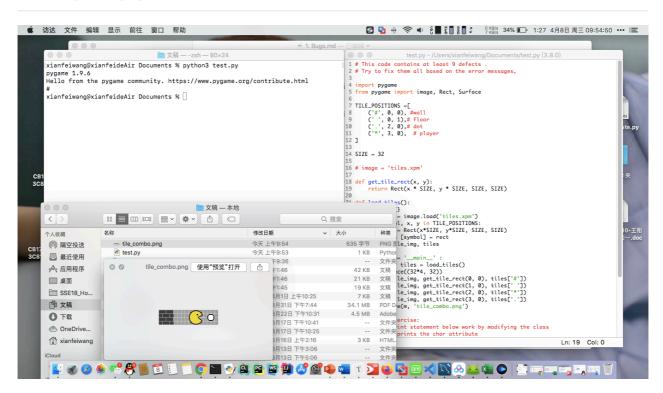
## 1. Bugs

```
● ● load_tiles_buggy.py - /Users/yuyuyuan/Documents/2020教程/爱课堂2020/软件测...
# WITH BUGS!
# This code contains at least 9 defects.
# Try to fix them all based on the error messages.
imprt pygame
from pygame import imagge. Rect
TILE_POSITIONS = [
     ('#', 0, 0), # wall
('', 0, 1) 3 # floor
('', 2, 0), # dot
SIZE = 32
image = 'tiles.xpm' 5
def load_tiles()
     Load tiles from an image file into a dictionary. Returns a tuple of (image, tile_dict)
     tiles = {}
     tile_img = image.loaad('tiless.xpm')
   for x, y in TILEPOSITIONS:
         rect = Rect(x*SIZE, y*SIZE, SIZE, SIZE)
          tiles[symbol] = rect
     return tile_img, tiles
if __name__ == '__main__':
    tile_img, tiles = load_tiles()
     m = Surface((96, 32))
    m.blit(tile_img, get_tile_rect(0, 0), tiles['#'])
m.blit(tile_img, get_tile_rect(1, 0), tiles[' '])
m.blit(tile_img) get_tile_rect(2, 0), tiles['*'])
image.save(m, 'tile_combo.png')
# Optional exercise:
# make the print statement below work
# by modifying the class
# so that it prints the char attribute
class Tile:
            <u>_init</u>__(self, achar, x, y):
         char = achar
t = Tile('#', 0, 0)
print(t.char)
                                                                                    Ln: 1 Col: 0
```

- 2. ImportError: cannot import name 'imagge' from 'pygame' 修改 imagge为image
- 3. TypeError: 'tuple' object is not callable & SyntaxWarning: 'tuple' object is not callable; perhaps you missed a comma? 修改: 在元组中添加逗号
- 4. SyntaxError: invalid syntax 添加]
- 5. AttributeError: 'str' object has no attribute 'load' 删除 image = 'tiles.xpm'
- 6. AttributeError: module 'pygame.image' has no attribute 'loaad' 修改loaad为load pygame.error: Couldn't open tiless.xpm 修改文件名为tiles.xpm
- 7. ValueError: too many values to unpack (expected 2) 修改: for后添加symbol
- 8. NameError: name 'Surface' is not defined 修改: from pygame import加入Surface
- 9. NameError: name 'get\_tile\_rect' is not defined 修改加入该函数定义
- 10. KeyError: '\*' 修改: 在元组中加入\*的定义
- 11. AttributeError: 'Tile' object has no attribute 'char' 修改: char->self.char

## 2. 运行截图



## 3. 代码

```
# This code contains at least 9 defects .
# Try to fix them all based on the error messages.

import pygame
from pygame import image, Rect, Surface

TILE_POSITIONS =[
    ('#', 0, 0), #wall
    (' ', 0, 1),# floor
    ('.', 2, 0),# dot
```

```
('*', 3, 0), # player
]
SIZE = 32
# image = 'tiles.xpm'
def get_tile_rect(x, y):
    return Rect(x * SIZE, y * SIZE, SIZE, SIZE)
def load_tiles():
   tiles = {}
    tile img = image.load('tiles.xpm')
   for symbol, x, y in TILE_POSITIONS:
       rect = Rect(x*SIZE, y*SIZE, SIZE, SIZE)
        tiles [symbol] = rect
    return tile img, tiles
if __name__ == '__main__' :
    tile img, tiles = load tiles()
    m = Surface((32*4, 32))
    m.blit(tile img, get tile rect(0, 0), tiles['#'])
    m.blit(tile_img, get_tile_rect(1, 0), tiles[' '])
    m.blit(tile_img, get_tile_rect(2, 0), tiles['*'])
    m.blit(tile_img, get_tile_rect(3, 0), tiles['.'])
    image.save(m, 'tile_combo.png')
# Optional exercise:
# make the print statement below work by modifying the class
# so that it prints the char attribute
class Tile:
    def __init__ (self, achar, x, y):
        self.char = achar
t= Tile('#', 0, 0)
print(t.char)
```