

Activities

Toplevel

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dominguez\_program4.py  
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Tue 21:14

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'''
Program Name:dominguez_program4.py
Program Description:This program creates an American Flag using graphics.py
Author:Daniel Dominguez
Date Created:6/11/19
Notes of Interest:none
'''

import time
from graphics import*

def main():
    #introduction
    print("This program creates an American Flag using graphics.py")
    print("")
    #Create the window and set dimensions to 500,300 with a black background
    win=GraphWin("American Flag",500,300)
    win.setCoords(0,0,475,250)
    win.setBackground('black')
    center=Point(237,125)

    #Creates the flag "canvas" (white background)
    canvas=Rectangle(Point(0,0),Point(475,250))
    canvas.setFill('white')
    canvas.draw(win)

    #Creates a red stripe
    redSt=Rectangle(Point(0,0),Point(475,18))
    redSt.setFill('red')
    redSt.draw(win)

    #Forloop that creates 7 red strips every 39 pixels
    dx=0
    dy=0
    for i in range(1,7):
        dy=dy+39
        newRedSt=redSt.clone()
        newRedSt.draw(win)
        newRedSt.move(dx,dy)

    #Creates the inner blue rectangle. (.75 was creating a distorted
    blueSq=Rectangle(Point(0,250),Point(205,118))
    blueSq.setFill('blue')
    blueSq.setOutline('black')
    blueSq.draw(win)
    center=(Point(102.5,184))

    #Creates a star without displaying it to the screen.
    poly1=Polygon(Point(0,15),Point(6,15),Point(7.5,20),Point(9,15),Point(15,15),
        Point(10,10),Point(13,5),Point(7.5,7),Point(2,5),Point(5,10))
    poly1.setFill('white')
    poly1.setOutline('black')

    #Here is a series of four loops to create the star pattern using a
    #list of x values with a static y value.

    #Here is a series of four loops to create the star pattern using a
    #list of x values with a static y value.

    ## (5)Six star rows:
    sixStarRow=[12,46,80,114,148,182]
    fiveStarRow=[30,64,98,132,166]

    for i in range(len(sixStarRow)):
        dx2=sixStarRow[i]
        dy2=122
        stars=poly1.clone()
        stars.draw(win)
        stars.move(dx2,dy2)
    for i in range(len(sixStarRow)):
        dx2=sixStarRow[i]
        dy2=147
        stars=poly1.clone()
        stars.draw(win)
        stars.move(dx2,dy2)
    for i in range(len(sixStarRow)):
        dx2=sixStarRow[i]
        dy2=172
        stars=poly1.clone()
        stars.draw(win)
        stars.move(dx2,dy2)
    for i in range(len(sixStarRow)):
        dx2=sixStarRow[i]
        dy2=197
        stars=poly1.clone()
        stars.draw(win)
        stars.move(dx2,dy2)
    for i in range(len(sixStarRow)):
        dx2=sixStarRow[i]
        dy2=222
        stars=poly1.clone()
        stars.draw(win)
        stars.move(dx2,dy2)

    ## (4)5 Star rows
    for i in range(len(fiveStarRow)):
        dx3=fiveStarRow[i]
        dy3=135
        stars2=poly1.clone()
        stars2.draw(win)
        stars2.move(dx3,dy3)
    for i in range(len(fiveStarRow)):
        dx3=fiveStarRow[i]
        dy3=160
        stars2=poly1.clone()
        stars2.draw(win)
        stars2.move(dx3,dy3)
    for i in range(len(fiveStarRow)):
        dx3=fiveStarRow[i]
        dy3=185
```

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\_program4.py  
This program creates an American Flag using graphics.py

Daniel Dominguez  
CIS110 Program 1  
Tue Jun 11 21:13:20 2019  
dan@dan-Alienware-m15:~/Documents/School/CIS110/Projects/Wk4\$  
program4.py  
This program creates an American Flag using graphics.py

American Flag

102,21-35 70%