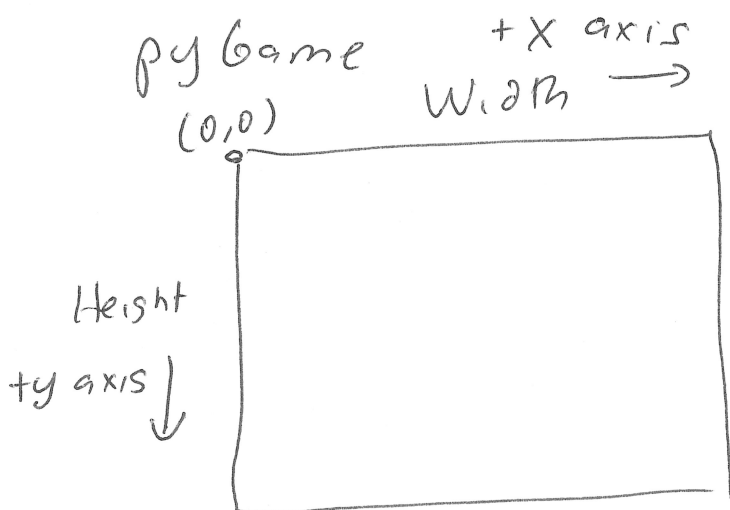


6/11/25 OOP Python



Display Surface

Width Height
↑ ↑

need to be specified
(pixels)

`pygame.draw.rect(xtl, ytl, w, h)`

↑
x, y coordinate of top left

↘ height
↘ width

$$360^\circ = 2\pi \text{ radians}$$

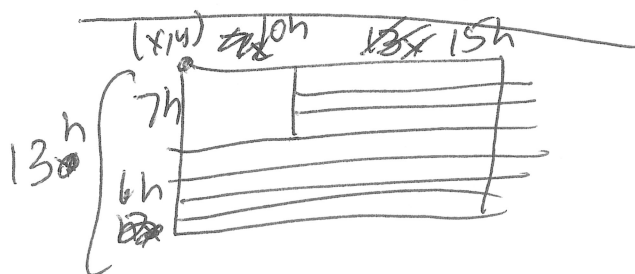
$$180^\circ = \pi \text{ radians}$$

$$90^\circ = \frac{\pi}{2} \text{ radians}$$

$$30^\circ = \frac{\pi}{6} \text{ radians}$$

$$45^\circ = \frac{\pi}{4} \text{ radians}$$

New Drawing



```
# Arup Guha
# 7/12/2015
# Drawing using pygame
```

required

```
import pygame, sys
from pygame.locals import *
pygame.init()
DISPLAYSURF = pygame.display.set_mode((1000, 600))
pygame.display.set_caption("Drawing!")
```

```
black = pygame.Color(0,0,0)
red = pygame.Color(255,0,0)
green = pygame.Color(0,255,0)
```

```
pts = [(100,200), (200,200), (300,150), (150,100), (25, 175)]
```

```
while True:
```

```
    for event in pygame.event.get():
        if event.type == QUIT:
            pygame.quit()
            sys.exit()
```

```
    DISPLAYSURF.fill(black)
    pygame.draw.ellipse(DISPLAYSURF, green, (500, 300, 50, 150), 10)
    pygame.draw.line(DISPLAYSURF, red, (500, 0), (500, 550))
    pygame.draw.line(DISPLAYSURF, pygame.Color(255,255,255), (0, 250), (950,
250))
    pygame.draw.rect(DISPLAYSURF, pygame.Color(95, 12, 183), (50, 200, 700,
50), 10)
    pygame.draw.polygon(DISPLAYSURF, red, pts)
    pygame.display.update()
```
