### St7789.py LCD 320 x 240

```
# Initialize LCD

spi = SPI(1, baudrate=40000000, polarity=1, phase=1)

cs = Pin(9, Pin.OUT)

dc = Pin(13, Pin.OUT)

rst = Pin(12, Pin.OUT)

lcd = st7789.ST7789(spi, cs, dc, rst)

lcd.framebuf.fill(0) – fills screen with black or any color desired by changing the number lcd.rotate(3) #rotation for proper viewing

# Screen dimensions

SCREEN_WIDTH = 320

SCREEN_HEIGHT = 240
```

## # Colors

Lcd.COLORS['WHITE']

```
"BLACK": 0x0000,

"WHITE": 0xFFFF,

"RED": 0x07E0,

"GREEN": 0x001F,

"BLUE": 0xF800,

"YELLOW": 0x07FF,

"CYAN": 0xF81F,

"PURPLE": 0x79E0,

"GRAY": 0x8410,

"DARK_GRAY": 0x4208,
```

```
# Methods will include lcd. Lcd.draw_centered_text(10,10, "Hello", 1, lcd.COLOR["White"])
```

#### **Text**

```
lcd.framebuf.text('hello', Width, Height,lcd.COLORS['YELLOW'])
lcd.draw_centered_text(y, text, scale, color):
lcd.draw_outlined_text(x, y, text, scale, color, outline_color):
lcd.draw_multiline_text( x, y, text, scale, color, max_width=None):
lcd.draw_big_text( x, y, text, scale, color):
example: lcd.draw_outlined_text(50,50, 'Scott', 2, lcd.COLORS['BLUE'], lcd.COLORS['WHITE'])
lcd.show()
```

#### Screen

```
lcd.rotate(rotation): # 0,1,2,3 orientation of entire screen
lcd.show()
```

# **Graphics**