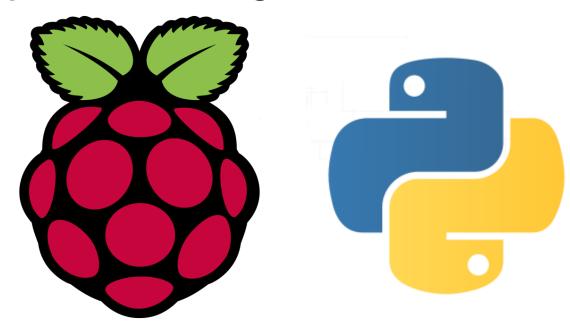
# Traffic Lights controller with gpiozero and guizero





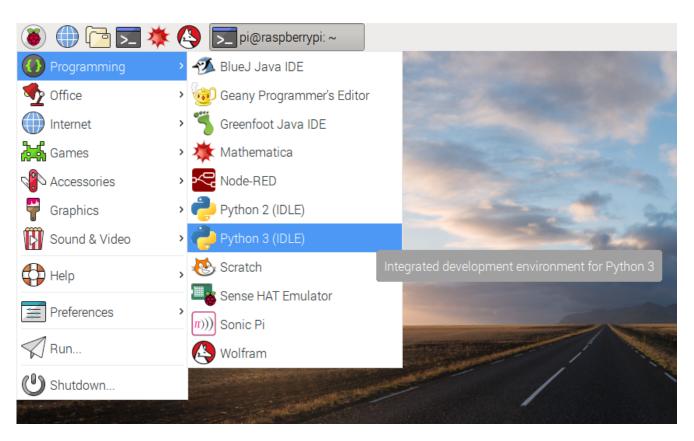
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# pi-stop

- GND
- GPIO17 (green)
- GPIO27 (amber)
- GPI022 (red)



#### Open Python 3



#### gpiozero

```
from gpiozero import LED
```

```
red.blink()
```

red = LED(22)

#### gpiozero

```
from gpiozero import LED
red = LED(22)
amber = LED(27)
green = LED(17)
red.blink(1, 1)
amber.blink(2, 2)
green.blink(3, 3)
```

## guizero

```
from guizero import App, PushButton
from gpiozero import LED
red = LED(22)
app = App()
PushButton(app, command=red.on, text="on")
app.display()
```

#### guizero

```
from guizero import App, Text, PushButton
from gpiozero import LED
red = LED(22)
app = App()
Text(app, "Red")
PushButton(app, command=red.on, text="on")
PushButton(app, command=red.off, text="off")
app.display()
```

# guizero

```
from guizero import App, Text, PushButton
from gpiozero import LED
red = LED(22)
amber = LED(27)
green = LED(17)
app = App("Traffic Lights controller", layout="grid")
Text(app, "Red", grid=[0, 0])
PushButton(app, command=red.on, text="on", grid=[1, 0])
PushButton(app, command=red.off, text="off", grid=[2, 0])
```

## Challenges

- Controls for all 3 LEDs red, amber and green
- Properly aligned in grid
- on/off/blink buttons
- All on / all off button
- Traffic Lights sequence button