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import numpy as np
import matplotlib.pyplot as plt
#from google.colab import widgets # Removed this import
from ipywidgets import interact, IntSlider, FloatSlider # Import FloatSlider from ipywidgets

# Simulated LED Brightness Control
def led_brightness_control(brightness):
    fig, ax = plt.subplots(figsize=(2, 2))
    ax.set_facecolor((0, 0, 0))  # Black background
    ax.set_xticks([])
    ax.set_yticks([])
    ax.set_xlim(0, 1)
    ax.set_ylim(0, 1)

    # LED represented as a circle with brightness
    led_color = (1, 1, 0, brightness / 100)  # Yellow LED with alpha transparency
    circle = plt.Circle((0.5, 0.5), 0.3, color=led_color)
    ax.add_patch(circle)

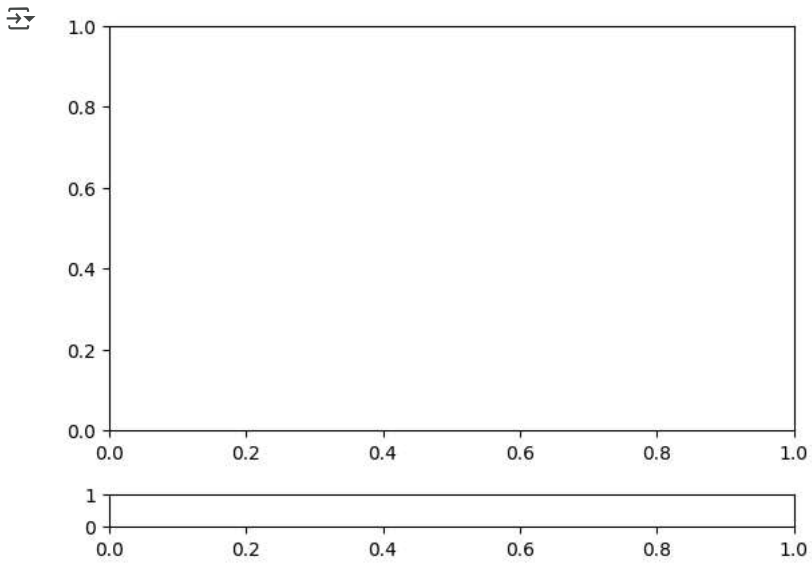
    plt.show()

# Create matplotlib figure
fig, ax = plt.subplots()
plt.subplots_adjust(left=0.1, bottom=0.25)

# Add a slider
ax_slider = plt.axes([0.1, 0.1, 0.8, 0.05])
slider = FloatSlider(min=0, max=100, step=1, value=50, description='Brightness') # Use FloatSlider directly

# Update function
def update_brightness(val):
    led_brightness_control(val)
    print(f"Brightness: {val}%")

# Interactive control
interact(update_brightness, val=slider);
```



```
Brightness: 50.0%
```

Start coding or generate with AI.