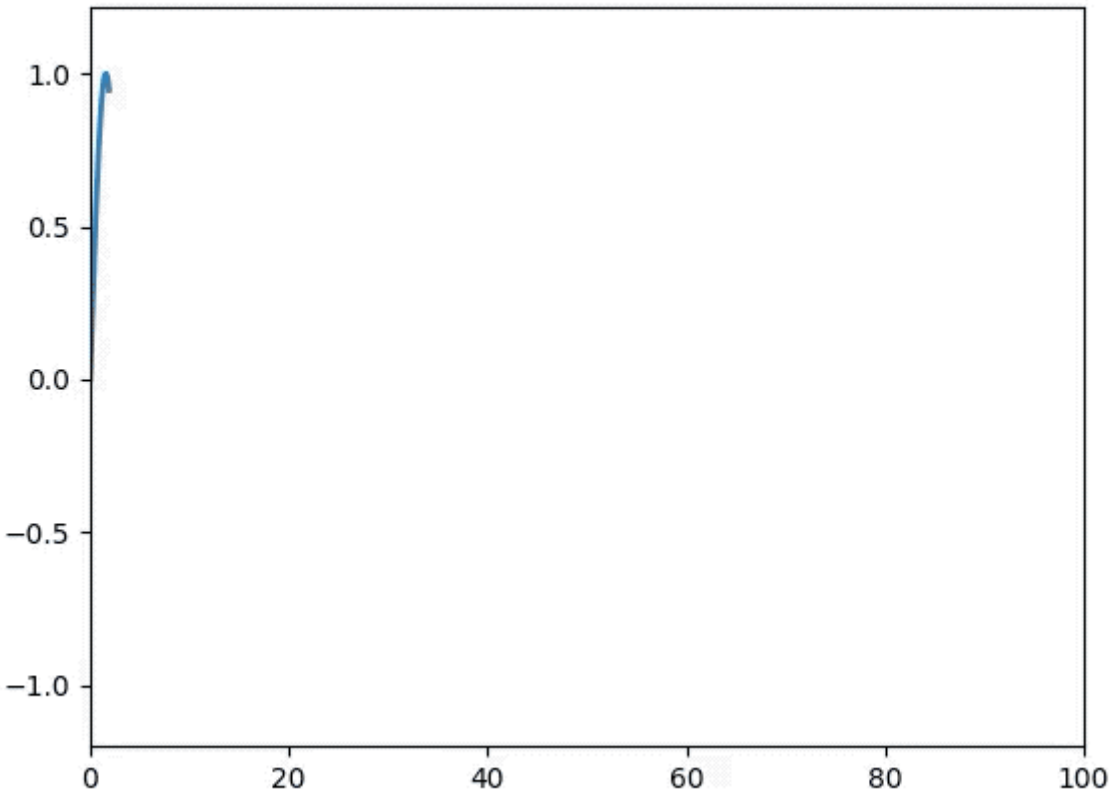
```
import numpy as np
import matplotlib.pyplot as plt
import matplotlib.animation as animation

# References
# https://towardsdatascience.com/animations-with-matplotlib-d96375c5442c
# https://riptutorial.com/matplotlib/example/23558/basic-animation-with-funcanimation

def func(t, line):
    t = np.arange(0,t,0.1)
    y = np.sin(t)
    line.set_data(t, y)
    return line

fig = plt.figure()
ax = plt.axes(xlim=(0, 100), ylim=(-1.2, 1.22))
redDots = plt.plot([], [], 'ro')
line = plt.plot([], [], lw=2)

# Creating the Animation object
line_ani = animation.FuncAnimation(fig, func, frames=np.arange(1,100,0.1),
fargs=(line), interval=100, blit=False)
#line_ani.save(r'Animation.mp4')


plt.show()
```

OUTPUT:

MP4 Video

https://www.bragitoff.com/wp-content/uploads/2020/10/myfirstAnimation2.mp4

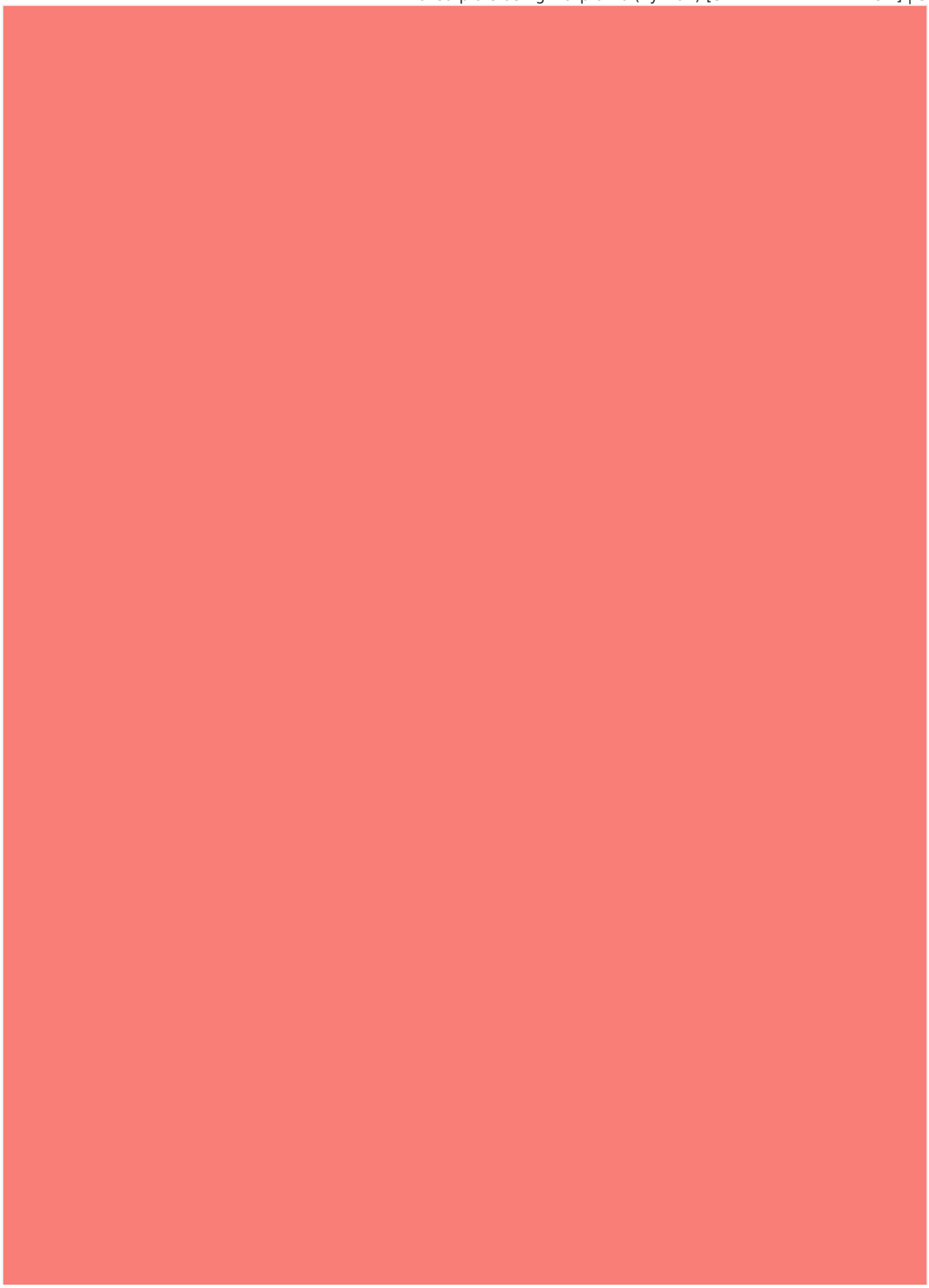
GIF

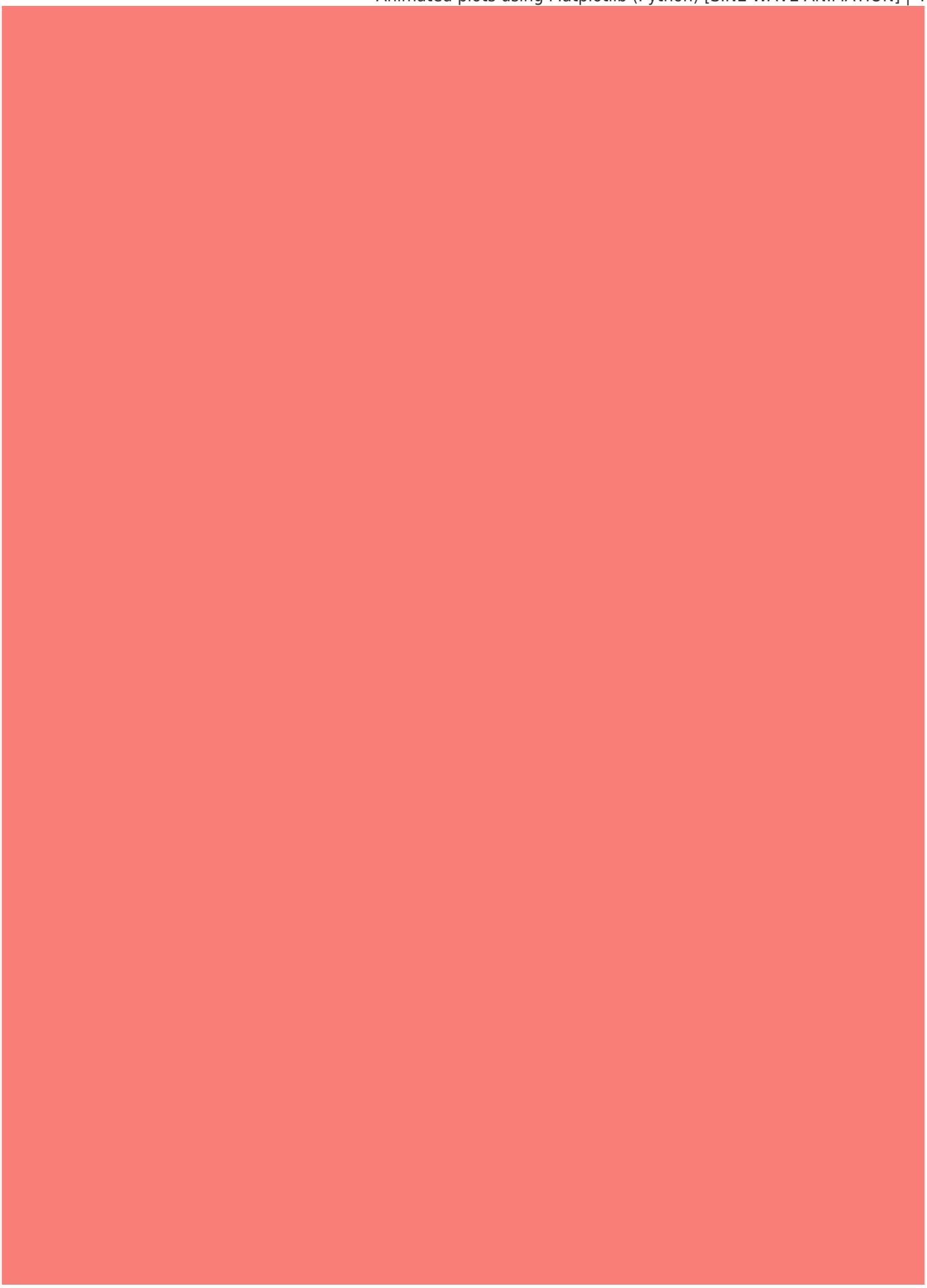


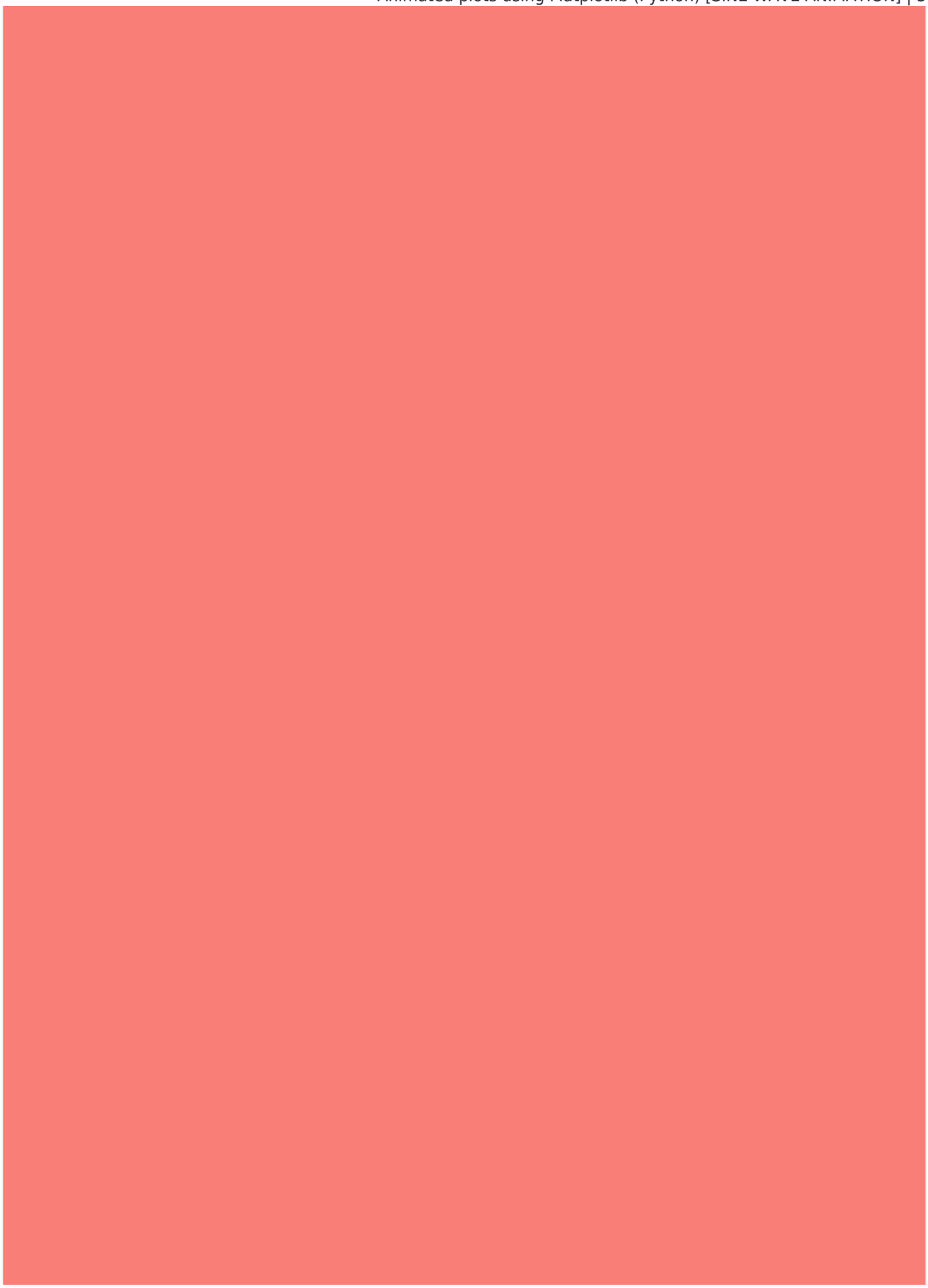
Manas Sharma

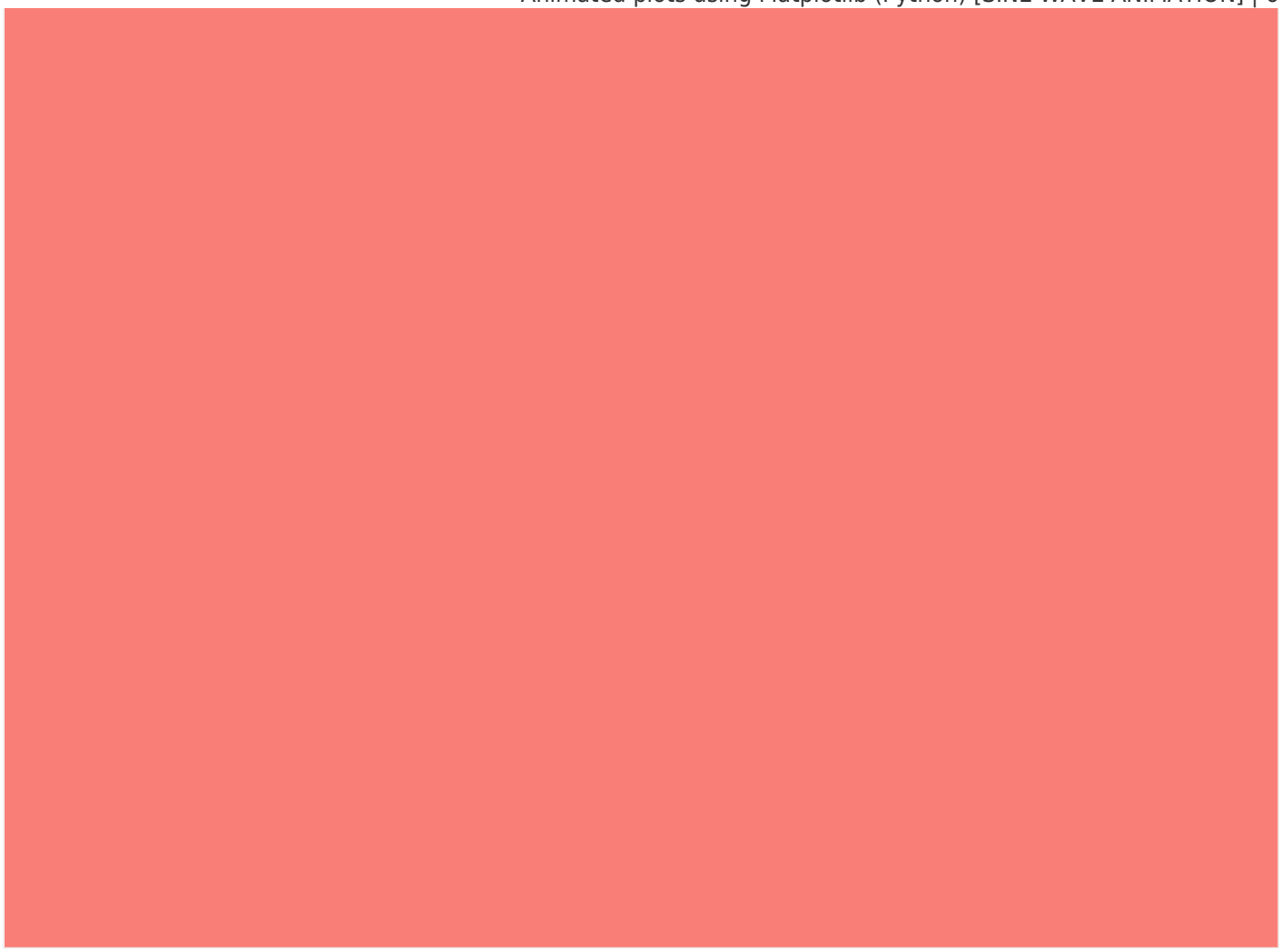
I’m a physicist specializing in computational material science with a PhD in Physics from Friedrich-Schiller University Jena, Germany. I write efficient codes for simulating light-matter interactions at atomic scales. I like to develop Physics, DFT, and Machine Learning related apps and software from time to time. Can code in most of the popular languages. I like to share my knowledge in Physics and applications using this Blog and a YouTube channel.

manas.bragitoff.com/









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