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But I want an audio signal that is half as loud as full scale, so I will use an amplitude of 16000. To the code: import numpy as np import wave import struct import matplotlib.pyplot as plt # frequency is the number of times a wave repeats a second frequency = 1000 num_samples = 48000 # The sampling rate of the analog to digital convert sampling_rate = 48000.0 amplitude = 16000 file = "test.wav"

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