GUIs and Plots with Tkinter and Matplotlib

These demos illustrate how to include plotting in a graphical user interface (GUI)

demo_01_sin.py
  Keyboard control of the frequency of a sinusoid

demo_02_sin.py
  Keyboard control of the frequency of a sinusoid
  Play the sinusoid using Pyaudio

demo_03_sin.py
  Keyboard control of the frequency of a sinusoid
  Play the sinusoid using Pyaudio
  Display frequency in GUI window

demo_04_diffeq.py
  Play and plot notes using a second-order difference
  equation when the user presses a key on the keyboard

filtering_ver1.py
filtering_ver2.py
  Low-pass filtering of a noisy signal where the
  cut-off frequency is controlled by a slider.

filtering_ver1_single_window.py
  Same as above, except the slider and plot are in the same window