```
import librosa
In [2]:
        import librosa.display
        import numpy as np
        import matplotlib.pyplot as plt
        import scipy.io.wavfile as sciwave
        fig, axs = plt.subplots(3,1,figsize = (8, 8))
        plt.tight layout(pad=3.0)
        # Load sound from file with sample rate
        audio, sample rate = librosa.load("sheep.wav")
        # Short time Fourier transform
        stft = librosa.stft(audio)
        # Create spectrogram
        a to db = librosa.amplitude to db(np.abs(stft), ref=np.max)
        # Load with SciPy
        sc rate, sc audio = sciwave.read("sheep.wav")
        # X axis for chart
        sc x = np.linspace(0, len(sc audio), len(sc audio))
        # Visualize
        librosa.display.waveshow(audio, ax=axs[0])
        axs[0].set title("Librosa waveshow")
        librosa.display.specshow(a_to_db, ax=axs[1])
        axs[1].set title("Librosa specshow")
        axs[2].scatter(sc x, sc audio, s=0.5)
        axs[2].set title("SciPy scatter")
        plt.show()
```



