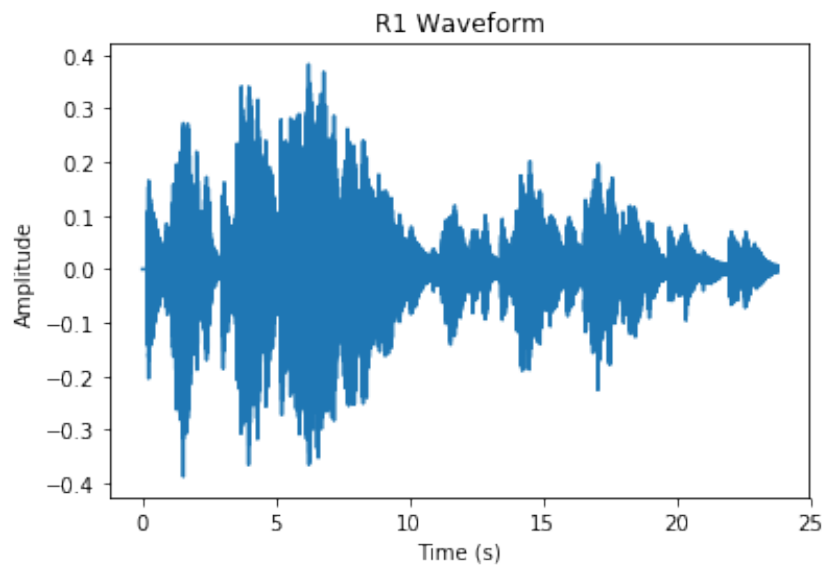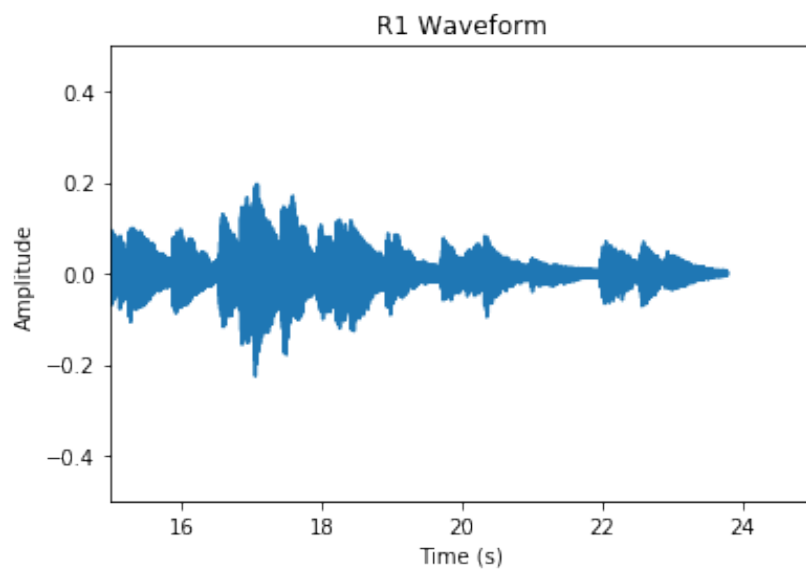**Assignment 1**

Due Monday October 8th by 11:59pm

Using audio files r1.wav and r2.wav

Create a jupyter notebook and upload to your personal github account in a repository for this class. Send me a link to the repository.
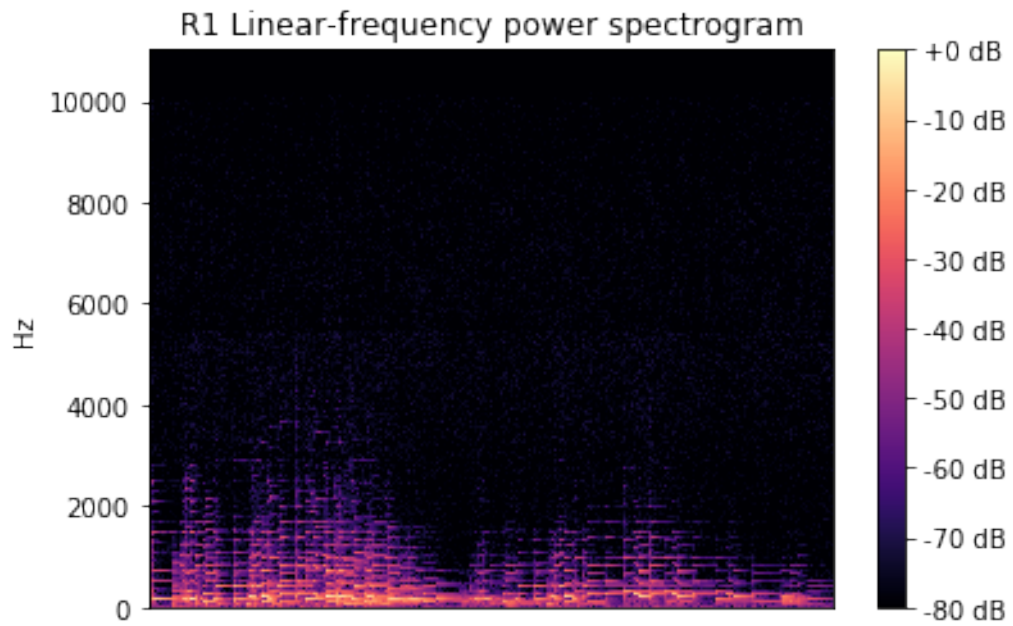
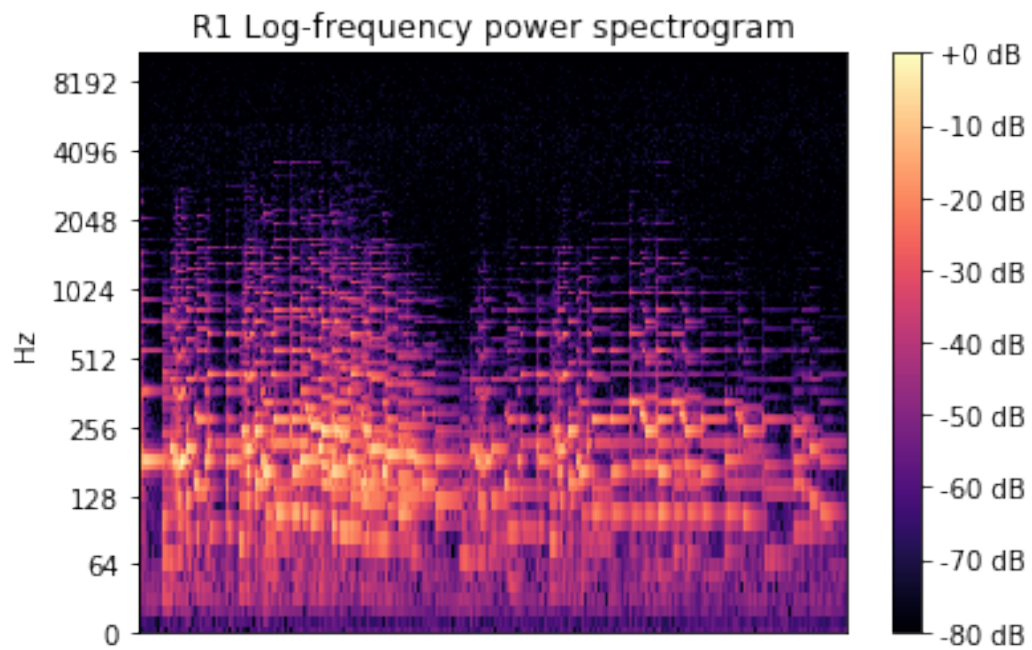1. Plot the time-domain representation of R1

2. Plot time-domain representation of R1 zoomed in to 15–25 seconds, -0.5–0.5 amplitude
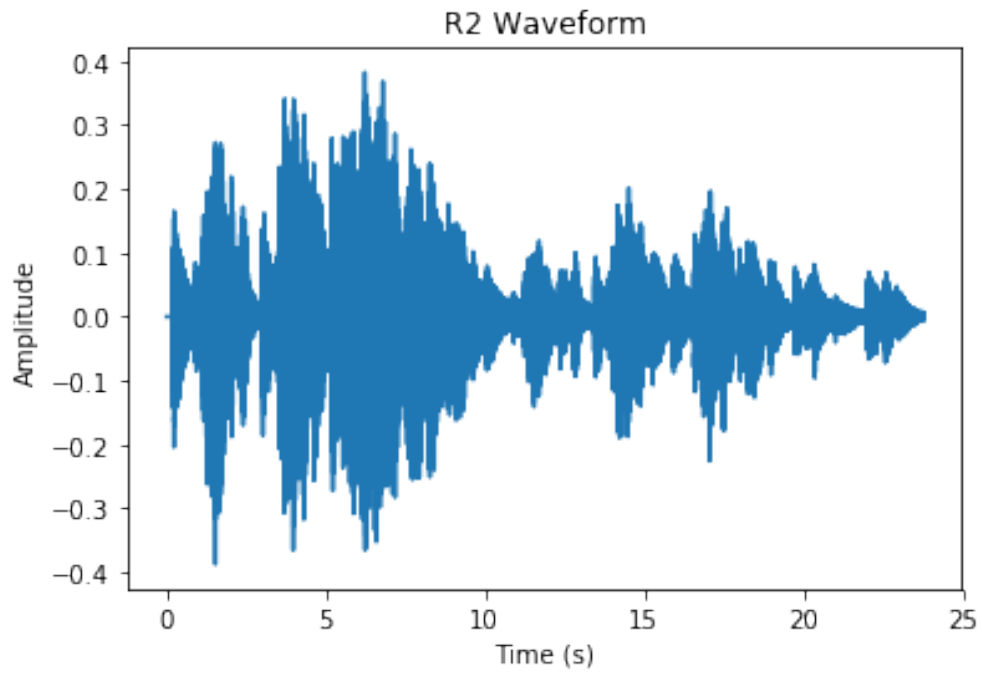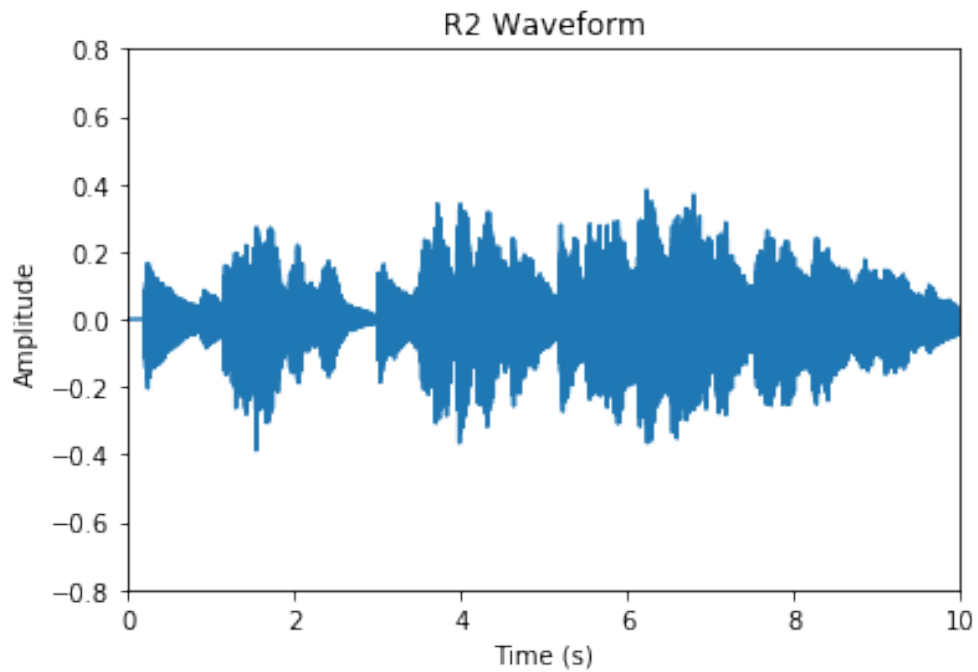
3. Plot linear spectrogram of R1

R1 Linear-frequency power spectrogram

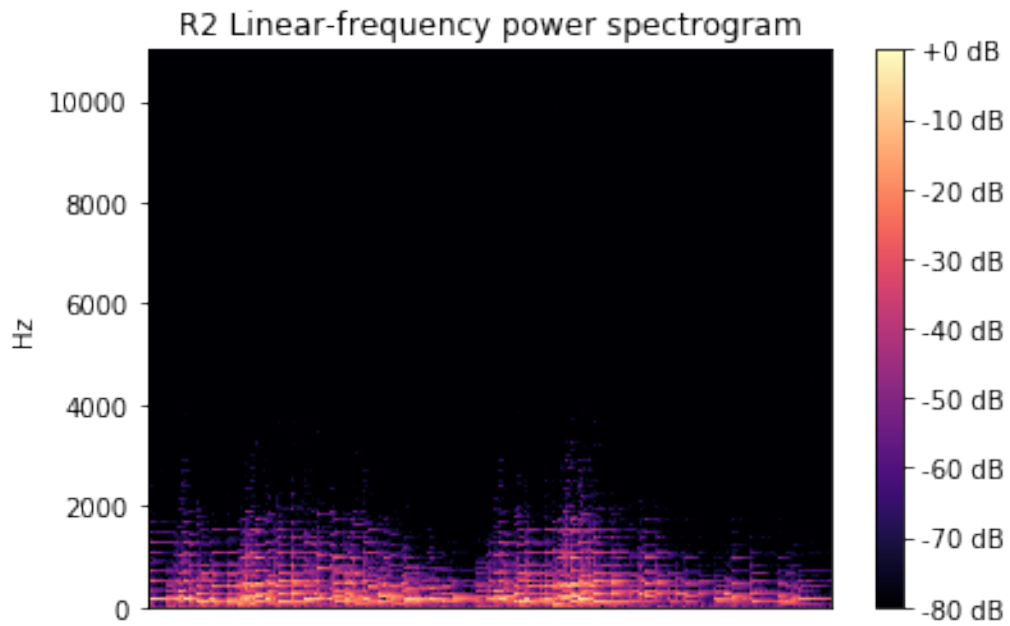4. Plot log spectrogram of R1

R1 Log-frequency power spectrogram

5. Plot the time-domain representation of R2

R2 Waveform

6. Plot time-domain representation of R2 zoomed in to 0–10 seconds, -0.8–0.8 amplitude

R2 Waveform

7. Plot linear spectrogram of R2

8. Plot log spectrogram of R2