Lyrics-to-Audio Alignment

Have you ever wondered how Spotify can show you the right line of lyrics while your favorite song is playing? If the mapping from timestamps to lyrics is not given by the record label, then can we learn how to match it? In more detail, given the audio of a song and the lyrics as text, we want to find the right timestamp in the audio where a line of lyrics starts. This task is generally known as Lyrics-to-Audio alignment, and we want to investigate existing approaches as well as come up with our own.

We will start with an existing dataset that does not have lyrics yet and first find them online. After literature research on existing approaches to do the alignment, we will then figure out a good way to solve the task and create timestamps for our extended dataset.

**Requirements:** Ability to work independently and determined to obtain results, creative thinking, knowledge of Machine Learning and Python.

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