



## Karaoke Song Generator

Karaoke is the act of singing along to a song from which the original vocals have been removed. Karaoke has grown into a very popular hobby for many people all over the world. Some enjoy doing it in private, for example in special karaoke booths or from the comfort of their own living room. Others who dare, enjoy singing their favourite songs on stage in front of a live audience.



Common karaoke systems generally feature a screen where

the lyrics are visible in some form. Some systems feature a scoring system, where the singer's timing and pitch accuracy are awarded with points. Some systems show words in changing colors which enables the unexperienced singer stay in sync with the song. However, this requires certain timing information, which is usually gathered by hand. Unfortunately, this approach does not scale well and we are left with many songs that haven't been translated into a proper karaoke format. We would like to change that. There are numerous websites that offer lyrics for free. Given the complete lyrics, we only need to know when and for how long each word appears in the song.

Goals for this thesis could include developing a system that is capable of distinguishing between vocal and instrumental portions of a song. Another interesting task could be detecting the pitch of the vocals in a track or figuring out the right placement in time of a set of song lyrics of a given song. If that sounds like something you're interested in pursuing, don't hesitate to contact us.

**Requirements:** Creative thinking and advanced programming skills are advantageous to successfully work on this topic. The student(s) should be able to work independently!

**Interested? Please contact us for more details!**

### Contacts

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