# **Kneidel Documentation**

## Environment Setup

### Package Creation Environment

to install a python virtual environment for creating packages, install anaconda, open anaconda promt, go to Kneidel/Package\_Creation/Scripts folder directory and run Setup\_Venv.py

### Kneidel Python Libraries

In order to run Kneidel.py with already provided packages, open a terminal in Kneidel directory and run: Pip install -r requirements.txt

## Creating Packages

### Downloading From Spotify

The first stage is to download all of the wanted songs from a given Spotify playlist. To do that simply use <https://spotdownloader.com/>. The songs needs to be located in a folder with the package name in the Packages folder (i.e. inside ./Packages/Package\_name).

### Processing The Songs

Run Prepare\_songs.bat, the script will:

* rename all the songs and their folder (remove [SPOTDOWNLOADER] from the beginning)
* Identify the chorus times and cut the songs according to it
* Sort channels from least to most energetic, filtering out quite channels
* Create a Seperate\_Songs.bat file for the chosen package folder

### Splitting The Songs

Use Seperate\_Songs.bat to split each song to channels, this process takes a while

## Running Kneidel

1. Run Kneidel.py
2. Choose packages
3. Play!

## Dependencies

* Anaconda
* Python version <= 3.10
* Demacus
* Chorus-detection
* Libraries from the requirements.txt file