Computer Stuff

- Demucs Nvidia

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Demucs is an music separation tool that has potential for a karaoke setup.

https://github.com/facebookresearch/demucs

https://www.youtube.com/watch?v=9QnFMKWEFcI&t=585s

https://docs.google.com/document/d/1XMmLrz-Tct1Hdb_PatcwEeBrV9Wrt15wHB1xhkB2oiY/edit

Installation on PC with Nvidia

1. Firstly install Anaconda. Download Anaconda for Windows
   https://www.anaconda.com/products/distribution
2. Install PyTorch. https://pytorch.org/get-started/locally/. Select the correct version of pytorch.
3. Install ffmpeg. https://www.gyan.dev/ffmpeg/builds/ choose Full, and extract the ffmpeg files then add it to path.

PyTorch Build	Stable (1.13.1)		Preview (Nightly)	
Your OS	Linux	Mac		Windows
Package	Conda	Pip	LibTorch	Source
Language	Python		C++ / Java	
Compute Platform	CUDA 11.6	CUDA 11.7	ROCm 5.2	CPU
Run this Command:	conda install pytorch torchvision torchaudio pytorch-cuda=11.7 -c pytorch -c nvidia			

Demucs

After installing the prerequesties.

Open "Anaconda terminal" and type

```
python.exe -m pip install -U demucs
```

```
pip install PySoundFile
```

Running Demucs

```
demucs "C:\path\to\music\file.mp3"
```

This will run demucs with CUDA GPU acceleration, make sure to put the path in double quote. The extracted file will be found in the directory where you run the command eg. the default Anaconda prompt starts in ~/separated