Making playlists

> A complete, cross-platform solution to record, convert and stream audio and video.

https://ffmpeg.org/

FFmpeg

FFmpeg is a command line tool for working with audio and video formats. You can use it to do a whole range of things, it comes with a lot of detailed settings and options.

This is an example of how you can use FFmpeg to convert a `mp4` video file into an `avi` file.

```
$ ffmpeg -i input.mp4 output.avi
```

Generating playlist.txt

from: https://trac.ffmpeg.org/wiki/Concatenate

```
In [7… ! for f in ./audio/*.wav; do echo "file '$f'" >>
       playlist.txt; done
```

See if it worked:

```
In [ ]: ! cat playlist.txt
```

Remove the file `playlist.txt` if you want to overwrite it and make a whole new one with:

```
In [70]: ! rm playlist.txt
```

Concatenating release.wav

```
In […  ! ffmpeg -hide_banner -f concat -safe 0 -i
       playlist.txt -c copy release.wav
```

```
Guessed Channel Layout for Input Stream #0.0 : mono
Input #0, concat, from 'playlist.txt':
  Duration: N/A, start: 0.000000, bitrate: 256 kb/s
    Stream #0:0: Audio: pcm_s16le ([1][0][0][0] /
0x0001), 16000 Hz, mono, s16, 256 kb/s
Output #0, wav, to 'release.wav':
  Metadata:
    ISFT            : Lavf58.20.100
    Stream #0:0: Audio: pcm_s16le ([1][0][0][0] /
0x0001), 16000 Hz, mono, s16, 256 kb/s
Stream mapping:
  Stream #0:0 -> #0:0 (copy)
Press [q] to stop, [?] for help
size=    1093kB time=00:00:34.85 bitrate= 256.9kbits/s
speed= 490x
video:0kB audio:1093kB subtitle:0kB other streams:0kB
global headers:0kB muxing overhead: 0.006969%
```

Remove the file `release.wav` before you concatenate a new one with:

```
In [39]: ! rm release.wav
```

Hide "WARNING: library configuration mismatch"

Add `-hide_banner` to your `ffmpeg` commands.

In [ ]:
```
! ffmpeg -hide_banner
```

Check the format, encoder, bitrate, and channels of your audio file

In [30]:
```
! ffprobe -hide_banner audio/raphael-snippet.wav
```

```
Input #0, wav, from 'audio/raphael-snippet.wav':
  Duration: 00:00:16.39, bitrate: 1411 kb/s
    Stream #0:0: Audio: pcm_s16le ([1][0][0][0] / 0x0001), 44100 Hz, 2 channels, s16, 1411 kb/s
```

In [31]:
```
! ffprobe -hide_banner audio/test.wav
```

```
Input #0, wav, from 'audio/test.wav':
  Duration: 00:00:08.31, bitrate: 256 kb/s
    Stream #0:0: Audio: pcm_s16le ([1][0][0][0] / 0x0001), 16000 Hz, 1 channels, s16, 256 kb/s
```

In [32]:
```
! ffprobe -hide_banner audio/rising-snippet.wav
```

```
Input #0, wav, from 'audio/rising-snippet.wav':
  Metadata:
    encoder         : Lavf58.20.100
  Duration: 00:00:10.27, bitrate: 256 kb/s
    Stream #0:0: Audio: pcm_s16le ([1][0][0][0] / 0x0001), 16000 Hz, 1 channels, s16, 256 kb/s
```

Examples

16-bit wav, 16000 hz sample rate, 1 channel

In… `! ffmpeg -hide_banner -i audio/raphael-snippet.wav -acodec pcm_s16le -ac 1 -ar 16000 audio/raphael-snippet2.wav`

```
Guessed Channel Layout for Input Stream #0.0 : stereo
Input #0, wav, from 'audio/raphael-snippet.wav':
  Duration: 00:00:16.39, bitrate: 1411 kb/s
    Stream #0:0: Audio: pcm_s16le ([1][0][0][0] /
0x0001), 44100 Hz, stereo, s16, 1411 kb/s
Stream mapping:
  Stream #0:0 -> #0:0 (pcm_s16le (native) -> pcm_s16le
(native))
Press [q] to stop, [?] for help
Output #0, wav, to 'audio/raphael-snippet2.wav':
  Metadata:
    ISFT            : Lavf58.20.100
    Stream #0:0: Audio: pcm_s16le ([1][0][0][0] /
0x0001), 16000 Hz, mono, s16, 256 kb/s
    Metadata:
      encoder         : Lavc58.35.100 pcm_s16le
size=     512kB time=00:00:16.39 bitrate= 256.0kbits/s
speed= 191x
video:0kB audio:512kB subtitle:0kB other streams:0kB
global headers:0kB muxing overhead: 0.014868%
```

See for more options and explanation: https://trac.ffmpeg.org/wiki/audio%20types

In [ ]:

In [ ]: