



链滴

Read and Write Tags of Music Files with FFmpeg

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<!-- wp:paragraph -->

<p>In both my previous and recent projects, I have been working with tags (metadata) of music files. One of the reason being I am rather particular about having a nicely organised library with all tag data aligned to the same format. Until recently while was seeking for a solution to read and write tags of (potentially) all music formatsI only have MP3, FLAC, AIFF and M4A in my library, so that's kinda all for me. and I encountered FFmpeg, the Swiss Army Knife of media processing.</p>

<!-- wp:paragraph -->

<p>FFmpeg has always been my go-to solution for processing media programmatically or in batch, and I have recently found the way to write into the tags of music files using it. The way of doing so might be a little verbose as everything have to fit into the command line interface with other components.</p><!-- /wp:paragraph -->

<!-- wp:more {"customText":"Read more"} -->

<!--more Read more-->

<!-- /wp:more -->

<!-- wp:heading -->

<h2>Read tags</h2><!-- /wp:heading -->

<!-- wp:loos-hcb/code-block {"langType":"shell-session","langName":"Shell Session","isLineShow":"off","useCommandLine":true,"dataPrompt":"\$","dataOutput":"2-54","preClass":"prism off numbers lang-shell-session command-line"} -->

```
<div class="hcb_wrap"><pre class="prism off-numbers lang-shell-session command-line" data-lang="Shell Session" data-prompt="$" data-output="2-54"><code>ffprobe -show_format print_format json aiffout.aiff
ffprobe version 4.2.1 Copyright (c) 2007-2019 the FFmpeg developers
  built with Apple clang version 11.0.0 (clang-1100.0.33.8)
  configuration: --prefix=/usr/local/Cellar/ffmpeg/4.2.1_2 --enable-shared --enable-pthreads --enable-version3 --enable-avresample --cc=clang --host-cflags=&#39;-l/Library/Java/JavaVirtualMachines/adoptopenjdk-13.jdk/Contents/Home/include -l/Library/Java/JavaVirtualMachine/adoptopenjdk-13.jdk/Contents/Home/include/darwin -fno-stack-check&#39; --host-ldflags=--enable-ffplay --enable-gnutls --enable-gpl --enable-libaom --enable-libbluray --enable-libp3lame --enable-libopus --enable-librubberband --enable-libsnapppy --enable-libtesseract --enable-libtheora --enable-libvidstab --enable-libvorbis --enable-libvpx --enable-libx264 --enable-libx265 --enable-libxvid --enable-lzma --enable-libfontconfig --enable-libfreetype --enable-frei0r --enable-libass --enable-libopencore-amrnb --enable-libopencore-amrwb --enable-libjpeg --enable-librtmp --enable-libspeex --enable-libsoxr --enable-videotoolbox --disable-
```

```
ibjack --disable-indev=jack
libavutil 56. 31.100 / 56. 31.100
libavcodec 58. 54.100 / 58. 54.100
libavformat 58. 29.100 / 58. 29.100
libavdevice 58. 8.100 / 58. 8.100
libavfilter 7. 57.100 / 7. 57.100
libavresample 4. 0. 0 / 4. 0. 0
libswscale 5. 5.100 / 5. 5.100
libswresample 3. 5.100 / 3. 5.100
libpostproc 55. 5.100 / 55. 5.100
{
Input #0, aiff, from &#39;aiffout.aiff&#39;:
Metadata:
  title      : shake it!
  artist     : emon feat. 初音ミク.鏡音リン.鏡音レン
  album      : 「マジカルミライ 2014」 OFFICIAL ALBUM
  compilation : 1
  encoded_by  : Max 0.9.1
  title-sort  : shake it!
  album-sort  : 「まじかるみらい 2014」 OFFICIAL ALBUM
  TDTG       : 2014-11-03T15:38:58
  artist-sort : emon feat sort
  encoder     : Lavf58.29.100
Duration: 00:03:47.03, start: 0.000000, bitrate: 2822 kb/s
Stream #0:0: Audio: pcm_s32be, 44100 Hz, 2 channels, s32, 2822 kb/s
&quot;format&quot;: {
  &quot;filename&quot;: &quot;aiffout.aiff&quot;,
  &quot;nb_streams&quot;: 1,
  &quot;nb_programs&quot;: 0,
  &quot;format_name&quot;: &quot;aiff&quot;,
  &quot;format_long_name&quot;: &quot;Audio IFF&quot;,
  &quot;start_time&quot;: &quot;0.000000&quot;,
  &quot;duration&quot;: &quot;227.027528&quot;,
  &quot;size&quot;: &quot;80095752&quot;,
  &quot;bit_rate&quot;: &quot;2822415&quot;,
  &quot;probe_score&quot;: 100,
  &quot;tags&quot;: {
    &quot;title&quot;: &quot;shake it!&quot;,
    &quot;artist&quot;: &quot;emon feat. 初音ミク.鏡音リン.鏡音レン&quot;,
    &quot;album&quot;: &quot;「マジカルミライ 2014」 OFFICIAL ALBUM&quot;,
    &quot;compilation&quot;: &quot;1&quot;,
    &quot;encoded_by&quot;: &quot;Max 0.9.1&quot;,
    &quot;title-sort&quot;: &quot;shake it!&quot;,
    &quot;album-sort&quot;: &quot;「まじかるみらい 2014」 OFFICIAL ALBUM&quot;,
    &quot;TDTG&quot;: &quot;2014-11-03T15:38:58&quot;,
    &quot;artist-sort&quot;: &quot;emon feat sort&quot;,
    &quot;encoder&quot;: &quot;Lavf58.29.100&quot;
  }
}
}
}
</code></pre></div>
```

<!-- /wp:loos-hcb/code-block -->

```
<!-- wp:heading -->
```

```
<h2>Write tags</h2>
```

```
<!-- /wp:heading -->
```

```
<!-- wp:loos-hcb/code-block {"langType":"shell-session","langName":"Shell Session","isLineS  
ow":"off","useCommandLine":true,"dataPrompt":"$","dataOutput":"2-46","preClass":"prism off  
numbers lang-shell-session command-line"} -->
```

```
<div class="hcb_wrap"><pre class="prism off-numbers lang-shell-session command-line" da  
a-lang="Shell Session" data-prompt="$" data-output="2-46"><code>ffmpeg -i aiff.aiff -map  
0 -y -codec copy -write_id3v2 1 -metadata &quot;artist-sort=emon feat sort&quot; aiffout.aiff  
ffmpeg version 4.2.1 Copyright (c) 2000-2019 the FFmpeg developers  
built with Apple clang version 11.0.0 (clang-1100.0.33.8)  
configuration: --prefix=/usr/local/Cellar/ffmpeg/4.2.1_2 --enable-shared --enable-pthreads -  
enable-version3 --enable-avresample --cc=clang --host-cflags=&#39;-l/Library/Java/JavaVirt  
alMachines/adoptopenjdk-13.jdk/Contents/Home/include -l/Library/Java/JavaVirtualMachine  
/adoptopenjdk-13.jdk/Contents/Home/include/darwin -fno-stack-check&#39; --host-ldflags=  
--enable-ffplay --enable-gnutls --enable-gpl --enable-libaom --enable-libbluray --enable-lib  
p3lame --enable-libopus --enable-librubberband --enable-libsnellymosaic --enable-libtheora --enable-libvidstab --enable-libvorbis --enable-libvpx --enable-libx264 --enab  
e-libx265 --enable-libxvid --enable-lzma --enable-libfontconfig --enable-libfreetype --enable  
frei0r --enable-libass --enable-libopencore-amrnb --enable-libopencore-amrwb --enable-lib  
penjpeg --enable-librtmp --enable-libspeex --enable-libsoxr --enable-videlabsuite --disable-  
ibjack --disable-indev=jack  
libavutil 56. 31.100 / 56. 31.100  
libavcodec 58. 54.100 / 58. 54.100  
libavformat 58. 29.100 / 58. 29.100  
libavdevice 58. 8.100 / 58. 8.100  
libavfilter 7. 57.100 / 7. 57.100  
libavresample 4. 0. 0 / 4. 0. 0  
libswscale 5. 5.100 / 5. 5.100  
libswresample 3. 5.100 / 3. 5.100  
libpostproc 55. 5.100 / 55. 5.100  
Guessed Channel Layout for Input Stream #0.0 : stereo  
Input #0, aiff, from &#39;aiff.aiff&#39;:  
Metadata:  
title : shake it!  
artist : emon feat. 初音ミク.鏡音リン.鏡音レン  
album : 「マジカルミライ 2014」 OFFICIAL ALBUM  
compilation : 1  
encoded_by : Max 0.9.1  
title-sort : shake it!  
creation_time : 2014-11-03T15:38:58  
TDTG : 2014-11-03T15:38:58  
album-sort : 「まじかるみらい 2014」 OFFICIAL ALBUM  
artist-sort : emon feat. はつねみく.かがみねりん.かがみねれん  
Duration: 00:03:47.03, start: 0.000000, bitrate: 2822 kb/s  
Stream #0:0: Audio: pcm_s32be, 44100 Hz, stereo, s32, 2822 kb/s  
Output #0, aiff, to &#39;aiffout.aiff&#39;:  
Metadata:  
title : shake it!  
artist : emon feat. 初音ミク.鏡音リン.鏡音レン
```

```
album      : 「マジカルミライ 2014」 OFFICIAL ALBUM
compilation : 1
encoded_by  : Max 0.9.1
title-sort  : shake it!
album-sort  : 「まじかるみらい 2014」 OFFICIAL ALBUM
TDTG       : 2014-11-03T15:38:58
artist-sort : emon feat sort
encoder     : Lavf58.29.100
Stream #0:0: Audio: pcm_s32be (NONE / 0x454E4F4E), 44100 Hz, stereo, s32, 2822 kb/s
Stream mapping:
  Stream #0:0 -> #0:0 (copy)
Press [q] to stop, [?] for help
size= 78219kB time=00:03:47.02 bitrate=2822.5kb/s speed=2.08e+03x
video:0kB audio:78218kB subtitle:0kB other streams:0kB global headers:0kB muxing overhead:
0.000549%
```

<!-- /wp:loos-hcb/code-block -->

<!-- wp:heading -->

<h2>Read cover art</h2>

<!-- /wp:heading -->

<!-- wp:heading -->

<h2>Write cover art</h2>

<!-- /wp:heading -->