1 Solutions in Melt Framework?

MLT

- Read through MLT FX User Guide [1]
- Can MLT FX be used in the terminal/through commands or is it an application with UI only? Look into https://www.mltframework.org/docs/fxcut/? on FX Cut (but this page is from 2005)
- Apply filter?
- Look into https://www.mltframework.org/plugins/PluginsFilters/?
- melt [options] [producer [name=value]*]+ Options:
 - attach filter[:arg] [name=value]* Attach a filter to the output
 - attach-cut filter[:arg] [name=value]* Attach a filter to a cut
 - attach-track filter[:arg] [name=value] * Attach a filter to a track
- Collected information about melt https://superuser.com/questions/358082/command-line-video-editing-in-linux-cut-join-and-preview
- Promising sounding filters:

avfilter.colorbalance

https://www.mltframework.org/plugins/FilterAvfilter-colorbalance/

title: colorbalance
media types: Video

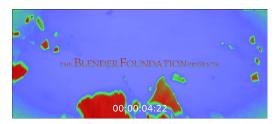
description: Adjust the color balance.

 \rightarrow looks promising

Execution of melt https://s3.eu-central-1.amazonaws.com/accurate-player-demo-assets/timecode/sintel-2048-timecode-stereo.mp4

-filter avfilter.colorbalance av.rs=1 av.gm=1 av.bh=1:





Original colours

Colours with av.rs=1 av.gm=1 av.bh=1

Float parameters with komma instead of dot, f.ex. 0,5

Adding filter to local_melt.py to execute it in the Accurate Player using JIT:





o avfilter.colorchannelmixer

https://www.mltframework.org/plugins/FilterAvfilter-colorchannelmixer/

title: colorchannelmixer

media types: Video

description: Adjust colors by mixing color channels.

 \rightarrow looks promising

avfilter.colorcontrast

https://www.mltframework.org/plugins/FilterAvfilter-colorcontrast/

title: colorcontrast media types: Video

description: Adjust color contrast between RGB components.

 \rightarrow looks kind of promising

o avfilter.colorlevels

- \rightarrow Maybe Adjust the color levels with black point and white point. (The Black point is the Darkest set of pixels in an image, while the White point is the Brightest.)
- \circ avfilter.colortemperature \to Maybe adjust color temperature of video.
- o freiOr.coloradj_RGB

https://www.mltframework.org/plugins/FilterFreiOr-coloradj_rgb/

title: coloradj_RGB
media types: Video

description: Simple color adjustment

 \rightarrow looks promising

o freiOr.colorize

https://www.mltframework.org/plugins/FilterFreiOr-colorize/

title: colorize
media types: Video

description: Colorizes image to selected hue, saturation and

lightness

 \rightarrow looks promising

References

[1] Snell Advanced Media (SAM). *MLT FX - User Guide*. Accessed 12.02.2024. 2016. URL: https://wwwapps.grassvalley.com/docs/Manuals/sam/Post% 20and%20Editing/MLT%20FX%20User%20Guide.pdf.