

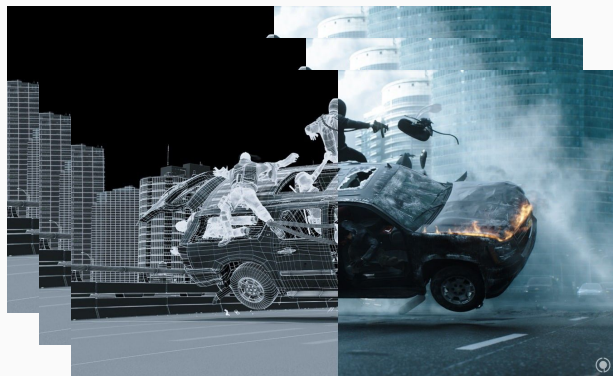
# Metadata for Media Reviews.

Sam Richards



What Frame am I on?

## EXR Frames



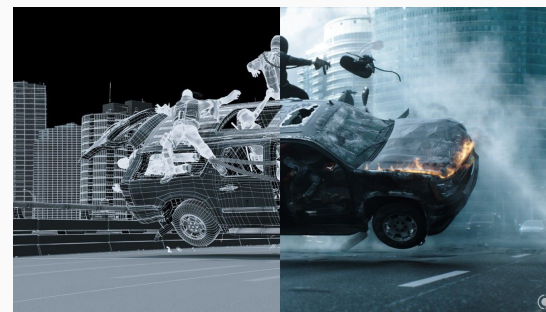
1001 → 1100

EXR Frames



1001 → 1100

Quicktime



0 → 99

EXR Frames



1001



1100

Quicktime



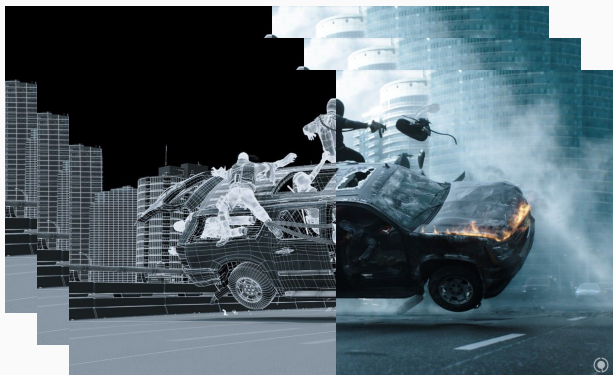
0



99

**What Frame am I looking at?  
Lost the frame range.**

EXR Frames



1001



1100

Quicktime



1



100

**Adding Slate can help?**

Status	Thumbnail	Version Name	Link	Artist
		mrvi01e_bar_0410_vfx_cmp_sunsetCombo-char...	bar_0410	sg-import-versi
		mrvi01e_bar_0410_vfx_cmp_sunsetSC6-char ou...	bar_0410	sg-import-versi
		mrvi01e_bar_0410_vfx_cmp_sunsetSC4-char ou...	bar_0410	sg-import-versi
		mrvi01e_bar_0410_vfx_cmp_sunsetSC5-char ou...	bar_0410	sg-import-versi
		mrvi01e_bar_0410_vfx_cmp_sunsetSC3-char ou...	bar_0410	sg-import-versi

**Thumbnailing first frame shows slate, rather than clip.**



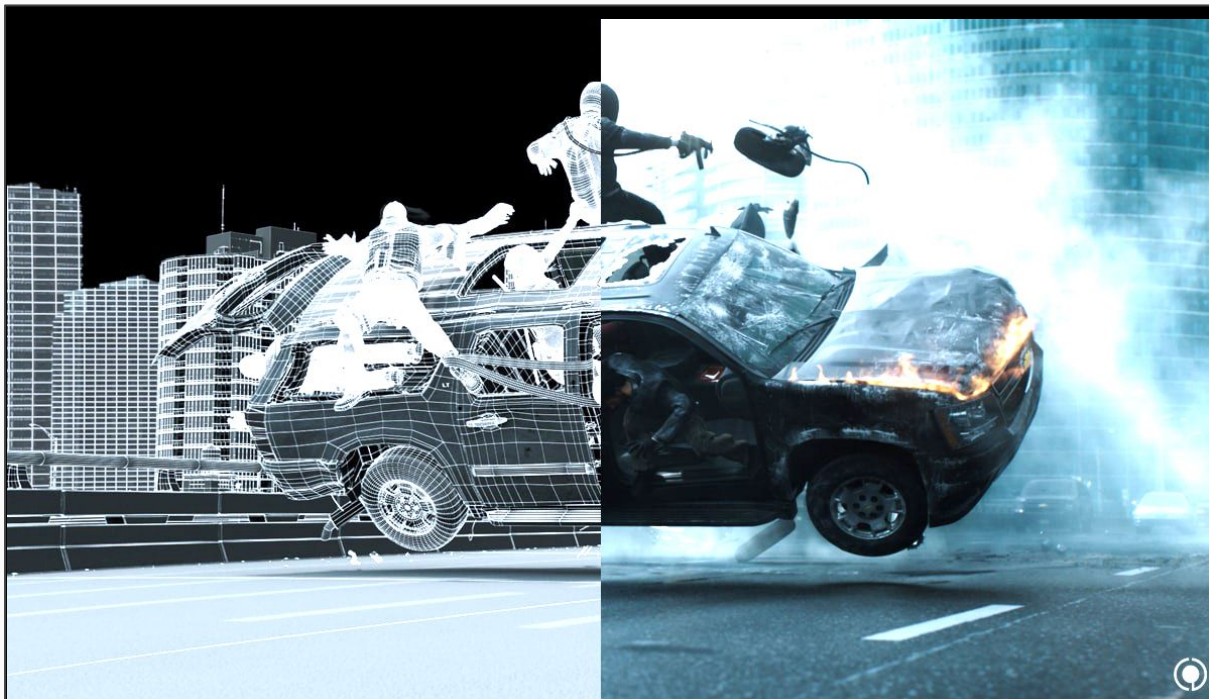
**Double Watermarking?**





00:00:01:25

**Annotation Coordinates?**



00:00:01:25

**Color Space?**

# What is the media called?

Source ID: bar-0421

= Original Vendors ID

Production Name: bar-ilm-0421

Studio Name: 51235612

# Embedded Media Metadata

Source ID  
Frame Info  
Frame Rate  
Active Image Area  
Watermarked?  
Slate Length  
Display Type  
Color Space



Initial Review  
Submission



Transcoded  
Version

Do we lose  
Metadata?

# Where to store it?

XMP May be a good framework (From Adobe)?

Needs exploration.



# Other embedded metadata

- Shot name
- Task Name
- Artist Name
- Date Authored
- Lens
- Optional fields?



Can we avoid burn-in text, and have metadata be optional overlays?

# Encoding Standards

Can we help recommend settings for ffmpeg for “best practices”?

```
ffmpeg -f 24 -i "frames.%04d.png" -c:v libx264 -preset placebo -qp 0 -x264-params  
"keyint=15:no-deblock=1" -pix_fmt yuv444p10le -sws_flags  
spline+accurate_rnd+full_chroma_int -vf "colorspace=bt709:iial=bt601-6-625:fast=1"  
-color_range 1 -colorspace 1 -color_primaries 1 -color_trc 1  
"encoded_movie_colorspace_yuv444p10le.avi"
```

Ffmpeg is not for the faint of heart!

What about frame sequences?

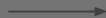
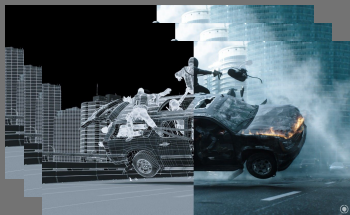


# Recommendations for EXR

Speed tests for B44 vs. DWAA vs. DWAB?

Scanline vs. block?

EXR Frames



Quicktime



Source ID - **SPY-2134**

EXR Frames



Source ID



Quicktime



Source ID - **SPY-2136**



Source Media

EXR Frames



Quicktime



Source ID - **SPY-2134**

**Spy-02134**

Review For: Final Animation

Task: Animation

EXR Frames



Source ID



Quicktime



Source ID - **SPY-2136**

**Spy-02136**

Review For: Final Lighting

Task: Lighting

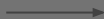
Notes: Focus on wheels.

Source Media

Media Review Info

EXR Frames

Quicktime



Source ID - **SPY-2134**

EXR Frames

Quicktime



Source ID



Source ID - **SPY-2136**

**Spy-02134**

Review For: Final Animation

Task: Animation

**Spy-02134**

Status: Not Approved

Notes: Too Dark.



**Spy-02136**

Review For: Final Lighting

Task: Lighting

Notes: Focus on wheels.

**Spy-02136**

Status: Approved

Notes: Final.

Source Media

Media Review Info

Feedback

# Annotations.



- Need to be defined as vectors.
- Need to support pressure
- Support special vector shapes (arrows, text, etc)
- Coordinate space needs to be well defined.
- Based on frame #

# Where to go from here?

<https://wiki.aswf.io/display/PRWG/Playback+and+Review+Standards>

- Content creation apps:** Make it easier to add the metadata on creation.
- VFX Studios:** Defined recommendations for transcoding and color-space issues.
- Production tracking apps:** Make ingest and export of notes and annotations easier to neutral Format. Interpret metadata where necessary.
- Review tools:** Interpret metadata for overlay and export of annotations easier.
- ASWF:** Confirm we have tools for creating and copying metadata.