#r2b: Metadata management with ExifTool and MDQC

Amy Rudersdorf, AVP | @WeAreAVP | amy@WeAreAVP.com



information management consulting & software dev



Fixity Exactly MDQC



Cost of Inaction Calc

Overview: Why use these tools?

- 1. Perform basic embedded metadata review
- 2. Automate embedded metadata review
- 3. Ensure files conform to a set of rules

Download

http://bit.ly/exiftool

ExifTool

Download & unzip this:

http://bit.ly/r2b-images

Developed by Phil Harvey

Supports images and many AV formats

Why use it?

- Analyse embedded metadata and file system metadata --> technical and administrative metadata that may be used to recreate files in the future.
- You can view the MD or save it before you package up your files for long-term storage.

- 1. Open terminal window
- 2. Type "exiftool"
- 3. Take a quick look at help file
- 4. Type "q" to get out of help file

Let's do something with a file.

First, Let's use "Get Info" (on a Mac) to take a look at the properties of bridge_01.jpg. What do you see?

"More Info" section has further file information taken from the file itself

Includes:

Image information
Dimensions
Color space
Alpha channel

Now let's look at the file using ExifTool

\$ cd /Desktop/images

\$ exiftool bridge_01.jpg

Let's add some options from the help file to format the output a little more and make it more thorough

\$ exiftool -G1 -D -a -e bridge_01.jpg

- groups by source of metadata, including system tags
- composite tags are removed

Exiftool users can export data in text, CSV, JSON, or XML formats.

\$ exiftool -G1 -D -a -ee bridge_01.jpg > out.txt

\$ open out.txt

You should see your text document open now and it should include the standard exiftool output as raw text.

We can do that with XML and CSV, too.

\$ exiftool -G1 -D -a -ee -X bridge_01.jpg >
out.xml

\$ open out.xml

We can do that with XML and CSV, too.

\$ exiftool -G1 -D -a -ee -csv bridge_01.jpg >
out.csv

\$ open out.csv

Now let's create a CSV and XML of data from all the files in the images folder.

\$ exiftool -G1 -D -a -ee -r -csv ./ > out all.csv

\$ open out all.csv

\$ exiftool -G1 -D -a -ee -r -X ./ > out_all.xml

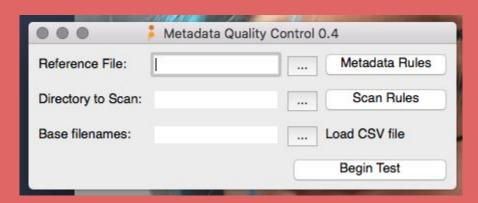
\$ open out_all.xml

Download

```
https://www.weareavp.com/
products/mdqc/
MDQC
```

MDQC stands for **Metadata** Quality Control. MDQC allows users to create rules on embedded metadata, scan a set of files, and report on the conformance of each file against the user-defined rules.

We're going to test our files to see if they conform to our rules.



1. SET UP YOUR REPOSITORY DIRECTORY

File > Report Directory

2. CHOOSE YOUR REFERENCE FILE

bridge_03.jpg

3. IDENTIFY YOUR DIRECTORY

/whereveryouputyourunzippedfile/images

4. SET SOME RULES

- All files should have the creator that equals "AVP"
- All files should have any copyright statement
- All files should be horizontal
- All files should be the same dimensions
- All files should have a title

!CAUTION!

IF YOU SET THE RULES WRONG, YOU HAVE START ALL OVER AT THE BEGINNING!!

5. RUN THE TEST

	Metadata Quality Control	
Tool:: ExifTool Found 3 matching files /Users/amyrudersdorf/ /Users/amyrudersdorf/ /Users/amyrudersdorf/ Wrote report to /Applic	s to validate /Desktop/images/bridge_02.jpg: PASSED /Desktop/images/bridge_03.jpg: PASSED /Desktop/images/bridge_01.jpg: FAILED at Creator (tag not found) cations/report_20181014075715.tsv	
	Exit	



COWS?? WE DON'T WANT SOME STINKIN' COWS!

	Metadata Quality Control	
Tool:: ExifTool Found 3 matching files /Users/amyrudersdorf/ /Users/amyrudersdorf/ /Users/amyrudersdorf/ Wrote report to /Applic	s to validate /Desktop/images/bridge_02.jpg: PASSED /Desktop/images/bridge_03.jpg: PASSED /Desktop/images/bridge_01.jpg: FAILED at Creator (tag not found) cations/report_20181014075715.tsv	
	Exit	

TRY IT YOURSELF

