

Introduction to Photo Metadata

Tony Knight



About Tony Knight tonyknight@groma.net

- California Native*
- Combat Photojournalist in USMC
- UC Berkeley Grad
- Technologist and Inventor

Agenda

- Data Longevity Unfinished Business
- All about Photo Metadata

Break

- Real world usage
- QromaScan





Analog Stuff vs. Digital Stuff





File Formats for the Future

Audio

flac

aac

mp3

Image

jpg

.TIFF

png

Documents

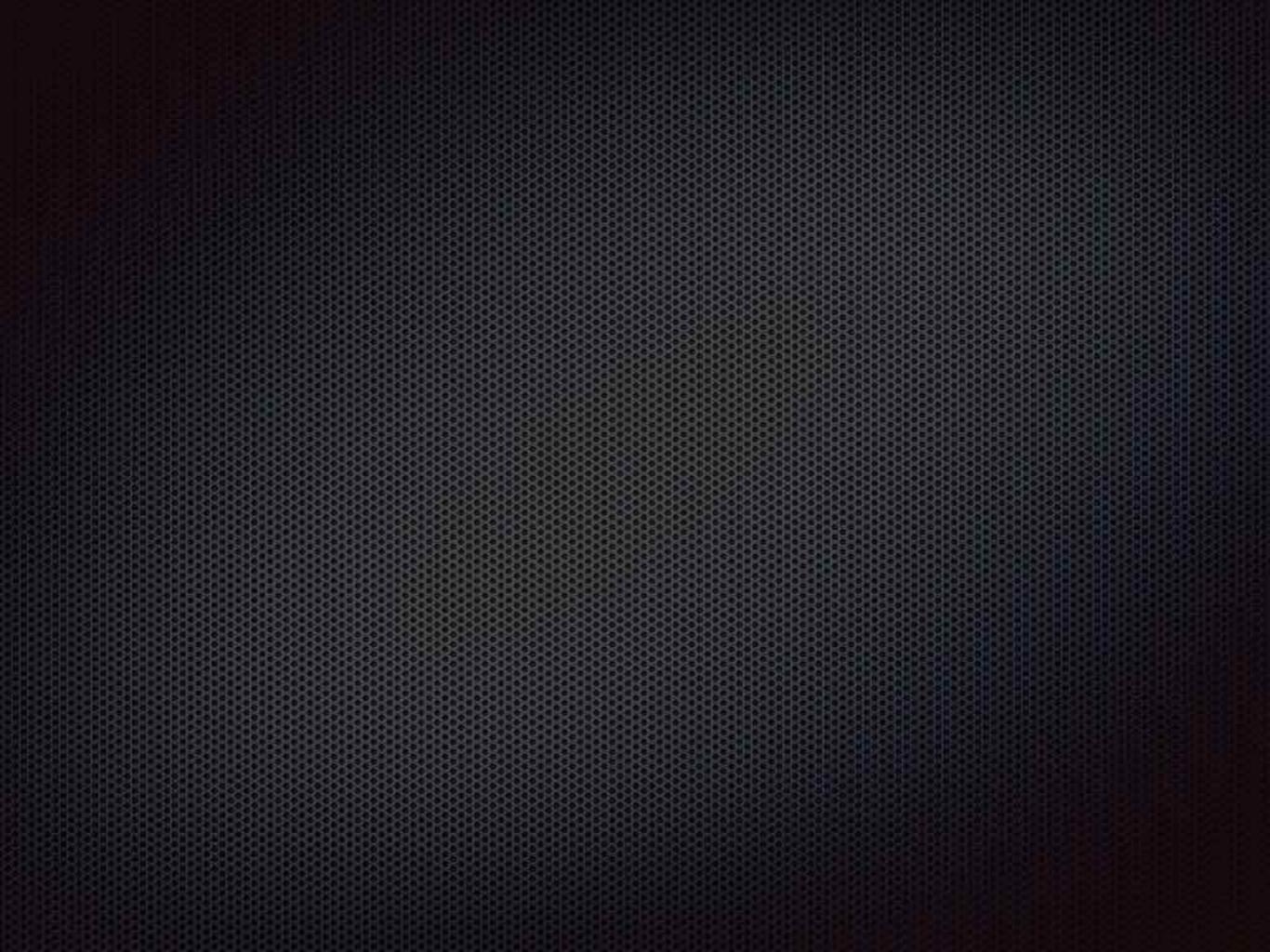
pdf

txt

html

Video

mp4



Digital Photos are

Digital Photos are data.

Digital Photos are _

data.

searchable

Digital Photos are

data.

- searchable
- ubiquitous

Digital Photos are

data.

- searchable
- ubiquitous
- context-able

What is Photo Metadata?

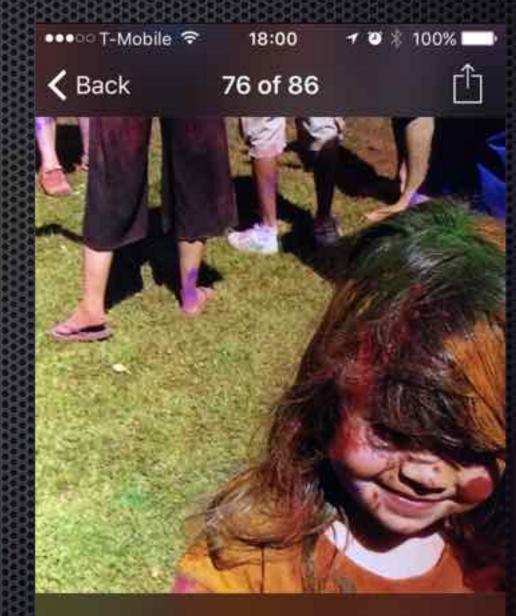
- A standard by which descriptive information about a photo is stored
- •It's data about data
- It's embedded into a special unseen portion of digital photos photos
- It is searchable and indexable

Who uses Photo Metadata?

- Operating Systems
- Photo Organization software
- Mobile applications
- Web services

What can Photo Metadata do for you?

- Makes your photos searchable in very complex ways
- Creates relationships between photos in a way never possible with prints.
- Transfers the 'story' of your photos into the digital domain in ways print never could.



Date: Apr 7, 2010

Place: Stanford, California, United States

People: Izabella Knight

Description: We took Izzy to Stanford University for the Holi Festival. It was our first time there, and the festival involves throwing finely colored dust at other people as a way of welcoming in the new spring.









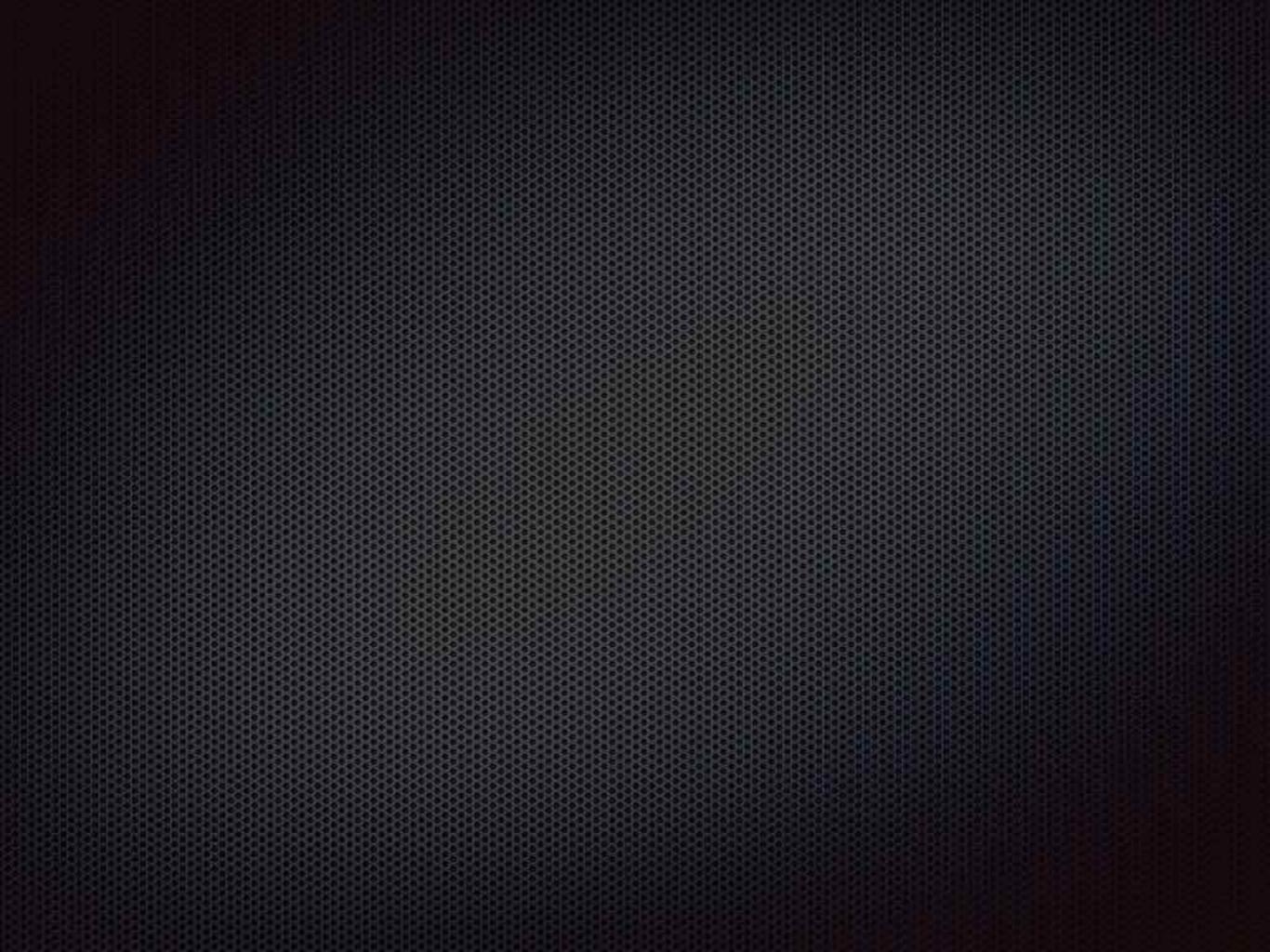


Photo Metadata is

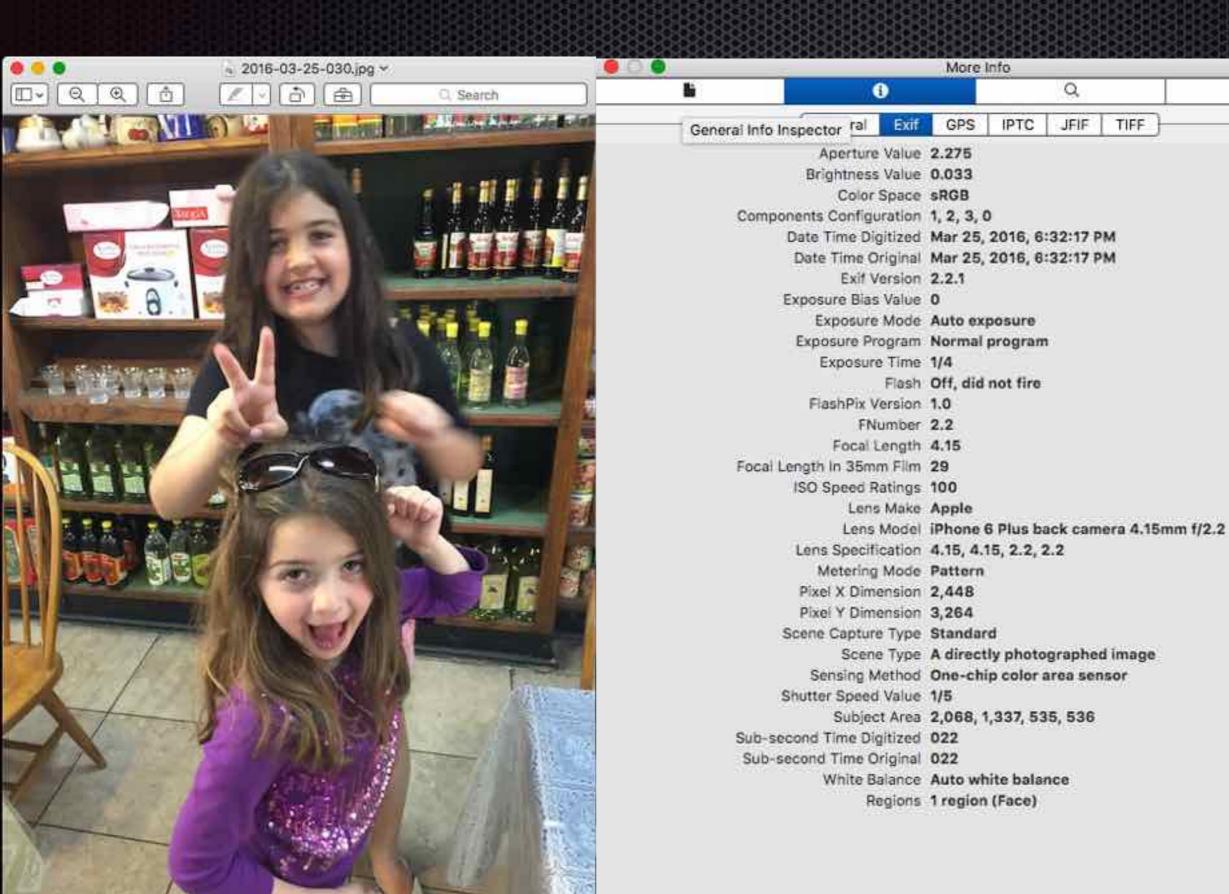
Photo Metadata is esoteric.

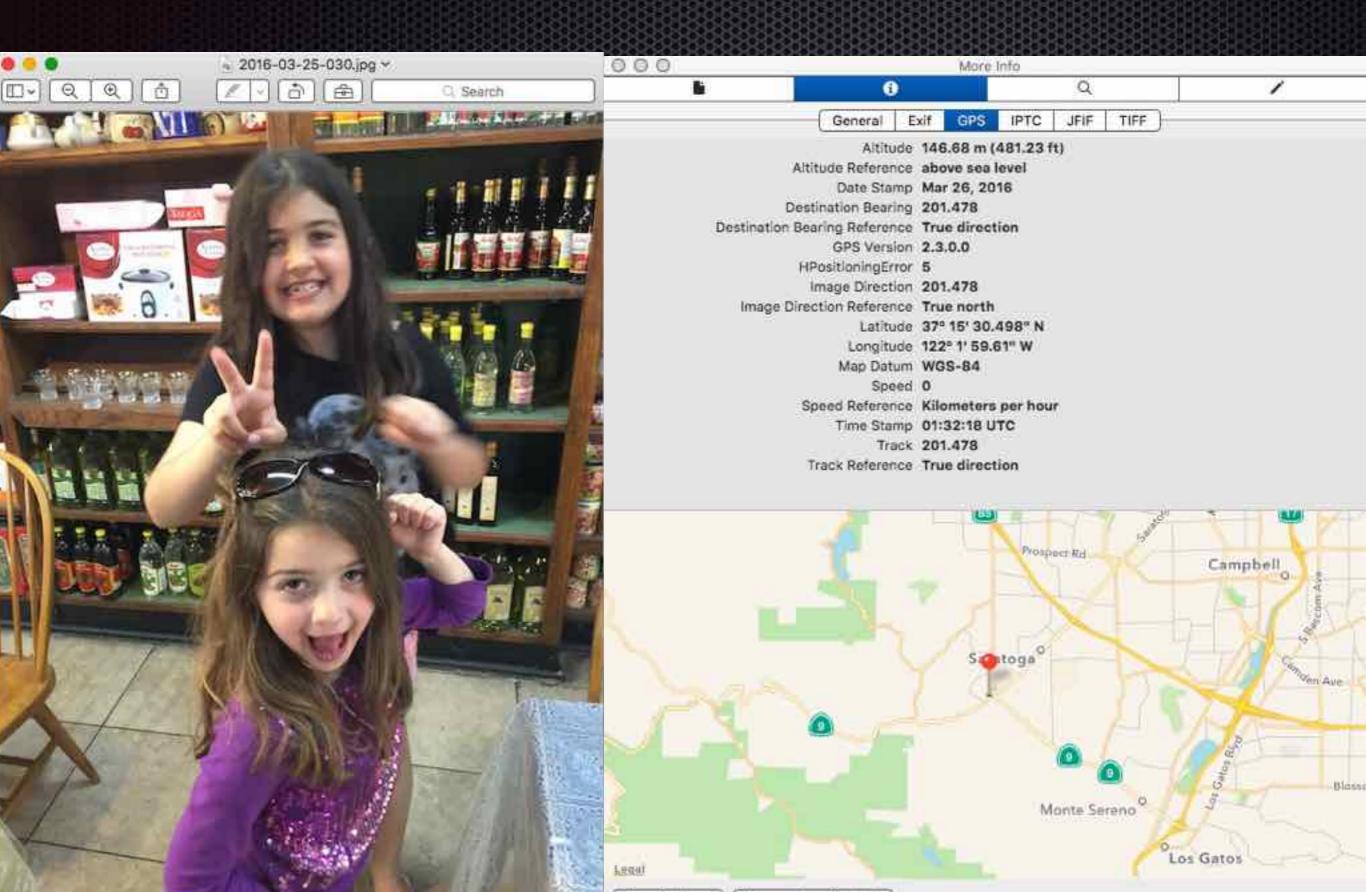
Photo Metadata is esoteric.

- Hard to apply
- Sometimes proprietary
- Destined to become easier

EXIF

- <u>Ex</u>changeable <u>Image File Format</u>
- Adopted by digital camera camera manufacturers to display:
 - camera settings
 - date and time information
 - geolocation





IPTC

- International Press Telecommunications Council
- Developed by journalists to define standards by which news and commercial photographers could exchange information about photographs.
- Contains 'who, what, where, when and how' information in a variety of predetermined fields, including
 - City/State/Country
 - Headline/Caption/Title
 - Keywords



General Exif GPS IPTC JFIF TIFF

Q

More Info

City Saratoga
Country United States
Date Created Mar 25, 2016
Digital Creation Date Mar 25, 2016
Digital Creation Time 6:32:18 PM

0

Keywords Lucia Knight, Izzy Knight

Province/State California
Time Created 6:32:18 PM

The Metadata Trifecta

	Standard
Date	EXIF Capture Date
Location	IPTC City, State, Country, Location EXIF Long/Lat
People	IPTC Keywords
Story	IPTC Description/Caption

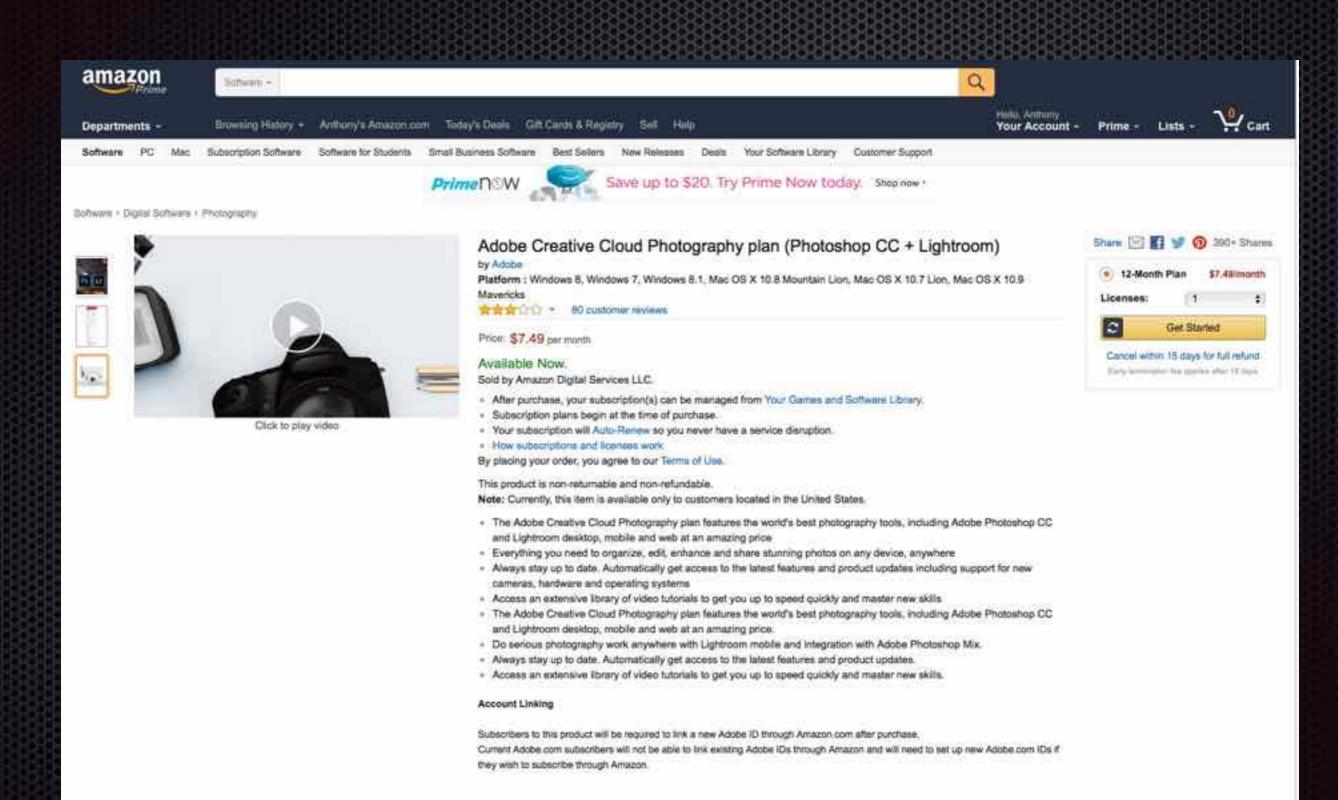
Metadata Considerations

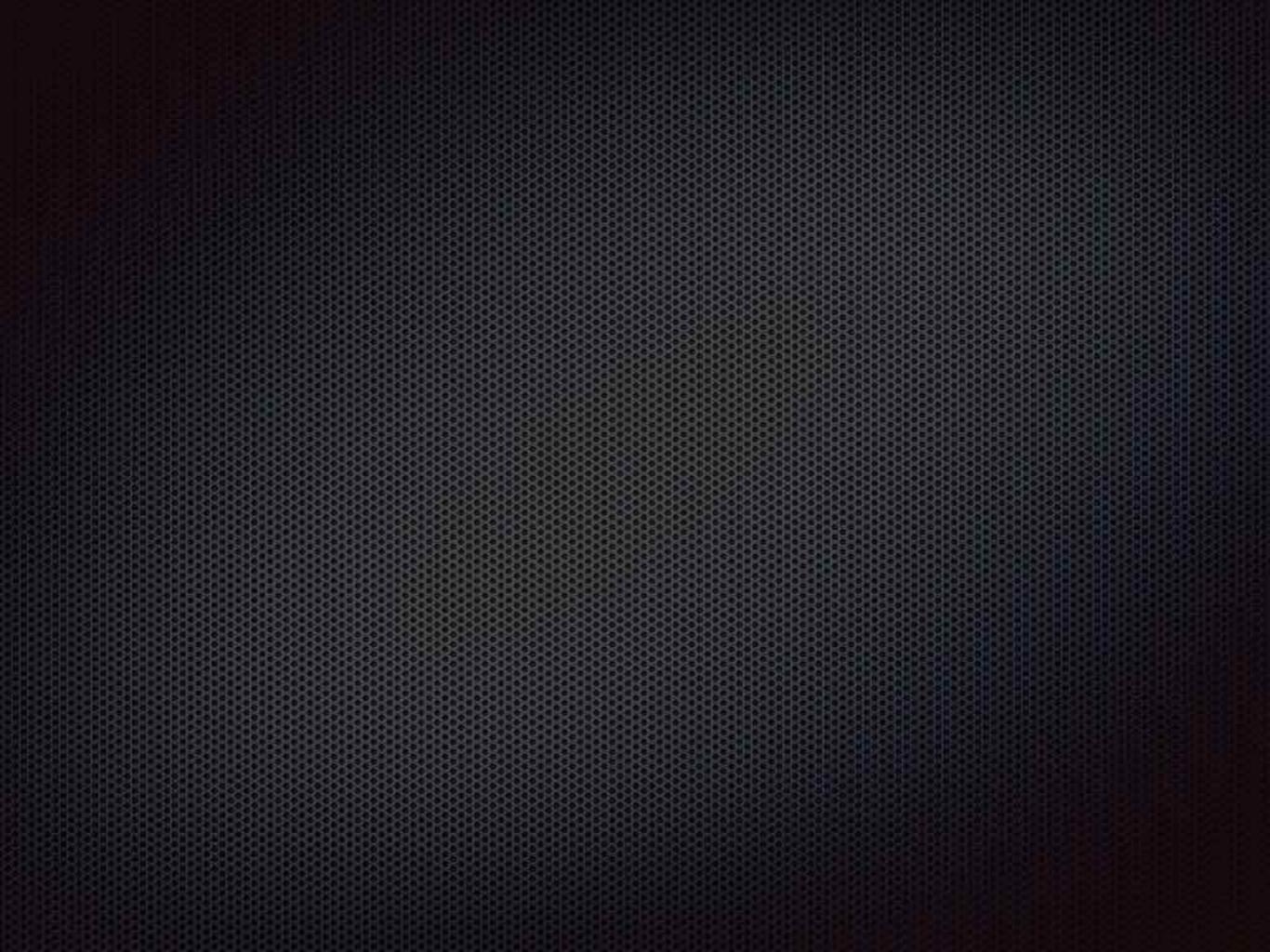
	Scans	Digital Images
Questions	Did my scanner create an EXIF Capture Date? What was the Capture Date?	Did I use a cell phone with location services turned on?
Actions	Create/Modify Capture Date. Geotag Add Keywords	Add Keywords

Programs that use Photo Metadata

	Mac	Windows
Consumer	iPhoto, Photos, Photoshop Elements	Windows Photo Gallery, Photoshop Elements, Picassa
Professional	Media Pro, Lightroom	Lightroom, IMatch, ACDSee

Programs that use Photo Metadata





Break

Photo Metadata Tools Mentioned

Mac	Windows
Photos	Windows Photo Gallery
Houdah Geo	Adobe Lightroom
Media Pro	
Adobe Lightroom	