What is EXIF?

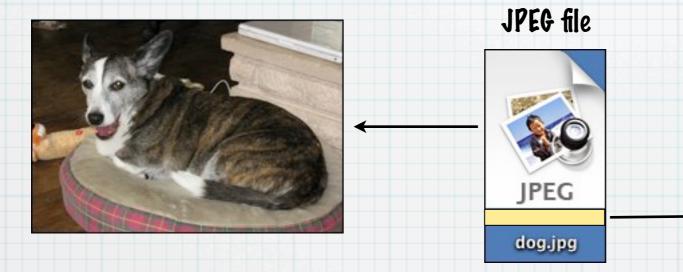
Digital photographers should know

EXIF

- * Exchangeable Image File Format
- * Hidden data in JPEG files
 - * How, when and where
- * Written by digital cameras
- * Used by photo software

Added by your camera

the picture part



the EXIF part

000	Photo Info
▼ Image	
Width:	2,592 pixels
Height:	1,944 pixels
Original Date:	2/23/2008 8:58:32
Digitized Date:	2/23/2008 8:58:32
▼ File	
Name:	IMG_3863.JPG
Size:	1.2 MB
Modified:	2/23/2008 8:58:32
Imported:	2/24/2008 9:34:28
▼ Camera	
Maker:	Canon
Model:	Canon PowerShot A95
Software:	_
▼ Exposure	
Shutte	r: 1/60
Aperture	e: f/2.8
Max Aperture	e: f/2.8
Exposure Bias: 0.00	
Exposure: —	
Exposure Index	c —
Focal Length	n: 7.81mm
Distance	2: —
Sensing	g: One-chip color area
Light Source	2: —
Flash	n: On
Metering	g: Pattern
Brightness	s: —
ISO Speed	d: —
GPS Latitude	2: —
GPS Longitude	2: —
GPS Altitude	2: —

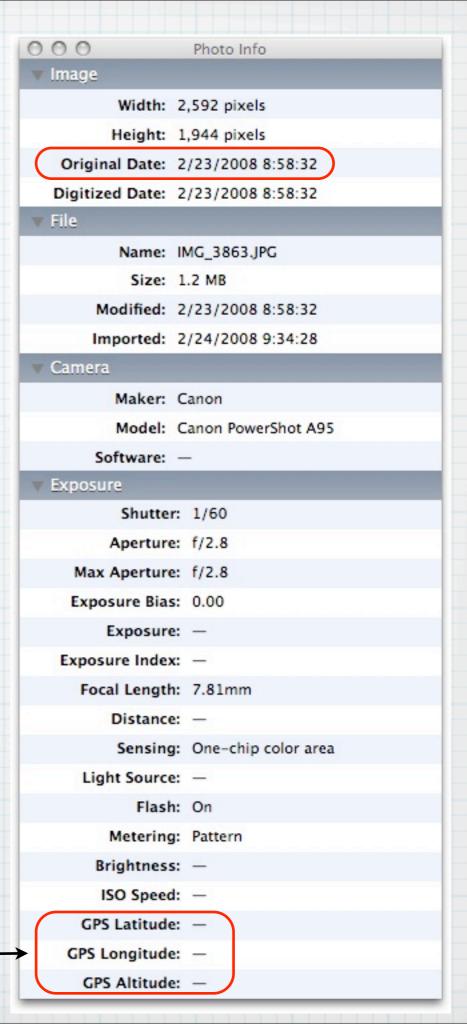
Also IPTC Metadata

International Press Telecommunications Council

- * Information you add Stored with EXIF
 - * Name, address
 - * Copyright
 - * Caption, Keywords, Category, etc.

iPhoto

- * EXIF data depends on the camera
- * Used by photo software
- * Cmd-I to view



Geo-tagging by GPS equipped cameras

GraphicConverter

* Each program does it differently

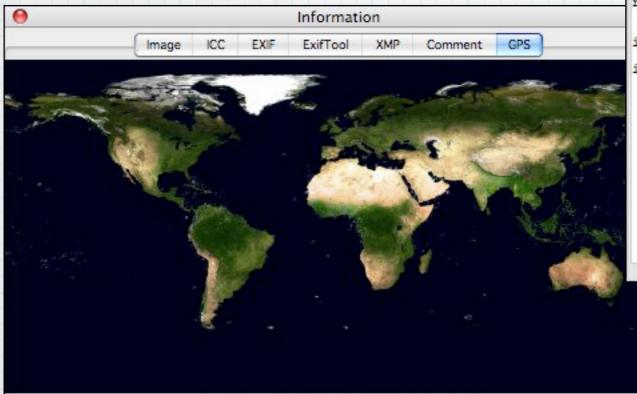
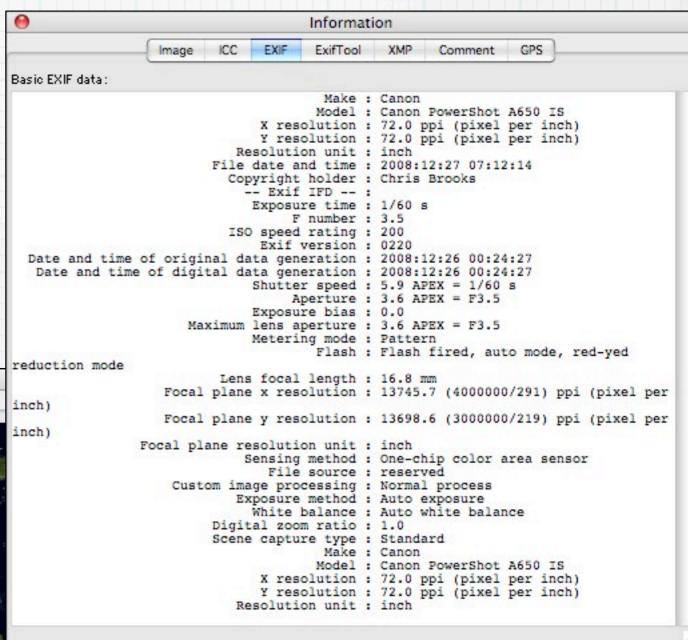


Image Copyright 2008 Unearthed Outdoors, LLC



Photoshop

* One of several windows

Camera Data 1

Make: Canon

Model: Canon PowerShot A650 IS

Date Time: 2008-12-26T00:24:27-08:00

Shutter Speed: 1/60 sec

Exposure Program:

F-Stop: f/3.5

Aperture Value: f/3.5

Max Aperture Value: f/3.5

ISO Speed Ratings: 200

Focal Length: 16.8 mm

Lens: 7.4-44.4 mm

Flash: Fired

No strobe return detection (0)

Auto mode (3)

Flash function present

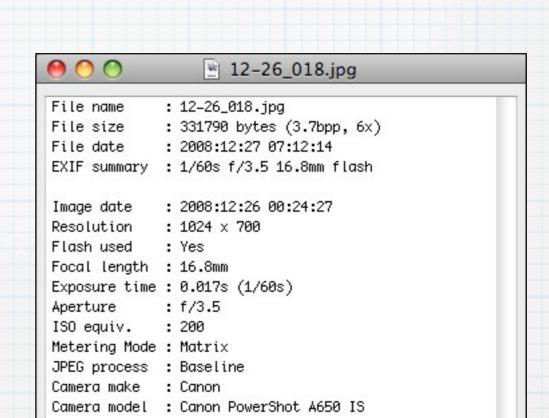
Red-eye reduction

Metering Mode: Pattern

EXIF Viewer

* Quick view

* Freeware





PhotoToolCM

- * No Intel Leopard
- * Really quick
- * A free contextual menu (CM) item Goes in CM folder
- * Give EXIF info and is a photo utility



PhotoToolCM

EXIF Info

Copy All Information
Copy EXIF Information Only

File name: dog.jpg

File size: 324 KB (331,790 bytes)
File created: 2009:02:08 06:38:06
File modified: 2008:12:27 07:12:14
File type/creator: <none>/<none>

Resolution: 1024 x 700 Jpeg process : Baseline Resource fork: None

Comment: None

Exif data: Yes (600 bytes) Exif thumbnail: None

Camera make: Canon

Camera model: Canon PowerShot A650 IS

Date/Time: 2008:12:26 00:24:27

Flash used: Yes

Focal length: 16.8mm

Exposure time: 0.017 s (1/60)

Aperture: f/3.5 ISO equiv.: 200

Metering Mode: matrix

PhotoToolCM

Cameras date/time stamp photos

Photo Utility

