

Tech Talk

Converting Files

The Basics

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Digital Photography Club of Annapolis
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ONLY The Basics

- A Poll [estimated results from tonight]
 - PC or MAC or ? [3/5 vs 2/5]
 - RAW or JPEG or ? [1/3 vs 2/3]
 - Post Process? [yes 3/4 vs no 1/4]
 - Software? [too diverse to remember]
 - PhotoShop Elements
 - Lightroom
 - PhotoShop CSx
 - Other (Picasa, Paintbrush Pro, iPhoto, etc.)



Questions ???

- What formats does my camera offer?
- How large are my memory cards?
- How much post processing do I want to do?
- What software do I have available
 - Now, free, or without additional \$\$\$
 - If I spend \$\$\$
- Where did I put that manual?



Lost Your Manual?

- Visit Manufacturer's website
- Search **Technical Help** Section
 - Look for **Downloads**
 - Search for your camera model
- Use Adobe Reader to search without using the table of contents or index.



File Extensions Associated with RAW Formats

Camera	Proprietary RAW File Types	Software Provided
Adobe	.DNG	Photoshop, Elements
Canon	.CRW, .CR2	Digital Photo Professional
Epson	.ERF	Epson Photo!2 Utility
Fuji	.RAF	FinePixViewer
Kodak	.TIF, .K25, .KDC, .DCS, .DCR, .DRF	Easy Share
Mamiya	.MEF, .MOS	?
Minolta	.MRW	DiIMAGE Master Lite software
Nikon	.NEF, .NRW	Capture NX
Olympus	.ORF	Olympus Master, OLYMPUS Studio
Panasonic	.RAW	?
Pentax	.PTX, .PEF	Photo Browser, Photo Laboratory
Sigma	.X3F	Photo Pro Software
Sony	.ARW, .SRF, .SR2	Photo Go]



Convert to JPEG

- A Very Useful but Lossy format
 - Lossy = original image information is lost when the file is compressed to create the JPEG
 - Original image broken into 8x8 pixel blocks
 - Complex math used to approximate original color and brightness yet reduce storage space required.



What Can I Do Right From My Camera?

- Many DSLRs offer
 - JPEG Only
 - Small, Medium, Large
 - RAW
 - RAW + JPEG
- Some Cameras Offer Only JPEG
- What does your camera offer?



Convert From RAW to JPEG

- Use the software that came with your Camera, downloadable at the manufacturer's website

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Adobe	.DNG	Photoshop, Elements
Canon	.CRW, .CR2	Digital Photo Professional
Epson	.ERF	Epson Photo!2 Utility
Fuji	.RAF	FinePixViewer
Kodak	.TIF, .K25, .KDC, .DCS, .DCR, .DRF	Easy Share
Mamiya	.MEF, .MOS	?
Minolta	.MRW	DiIMAGE Master Lite software
Nikon	.NEF, .NRW	Capture NX
Olympus	.ORF	Olympus Master, OLYMPUS Studio
Panasonic	.RAW	?
Pentax	.PTX, .PEF	Photo Browser, Photo Laboratory
Sigma	.X3F	Photo Pro Software
Sony	.ARW, .SRF, .SR2	Photo Go



Some Low/No Cost Software Options For Working With JPEG

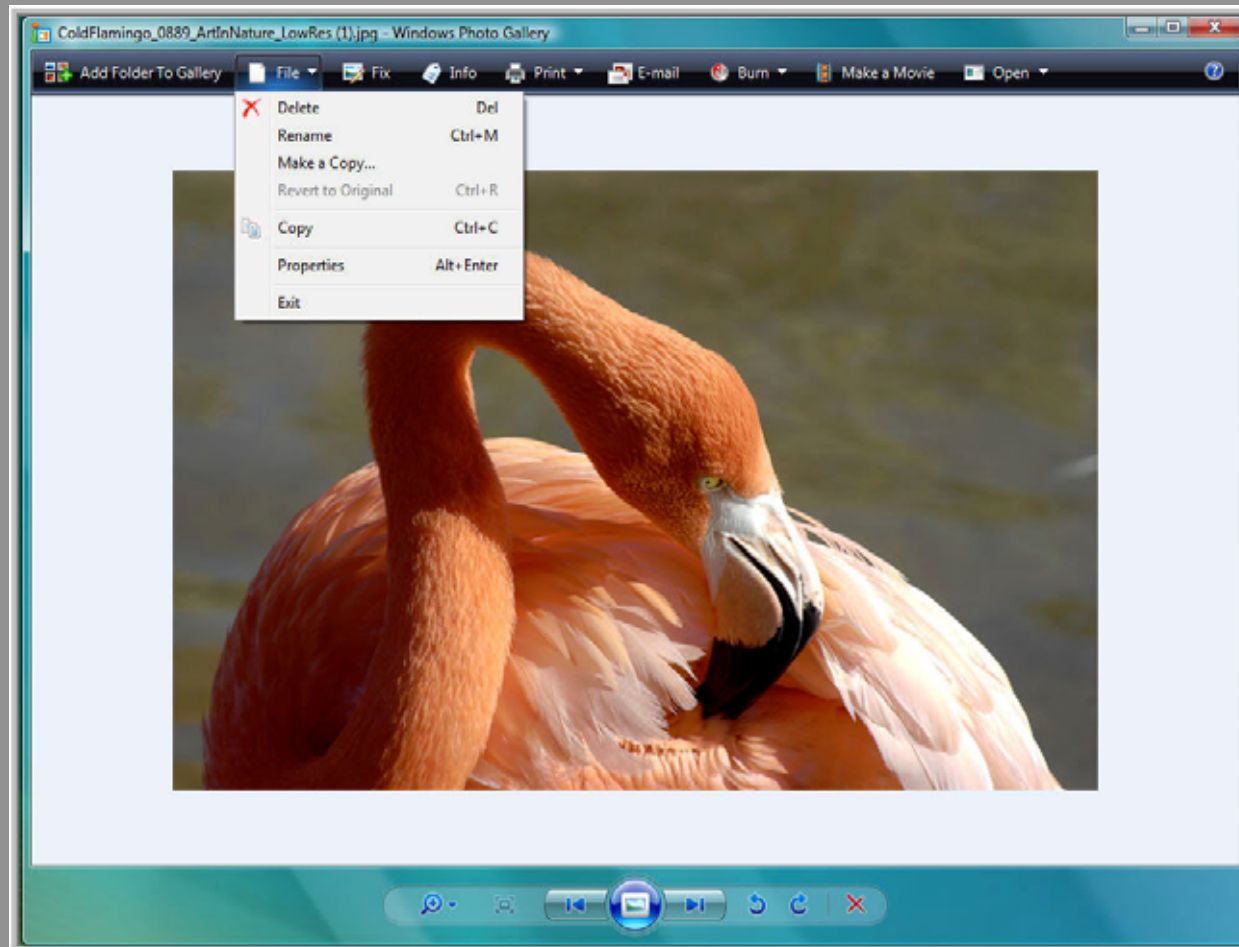
- Apple
 - iPhoto
- PC
 - Windows - <http://get.live.com/photogallery/overview>
 - Windows Live Photo Gallery (XP)
 - Windows Photo Gallery
(Vista Home Premium & Ultimate Editions)
 - Irfanview - <http://www.irfanview.com/>
 - Faststone - <http://www.faststone.org/>
 - Picasa - <http://picasa.google.com/>



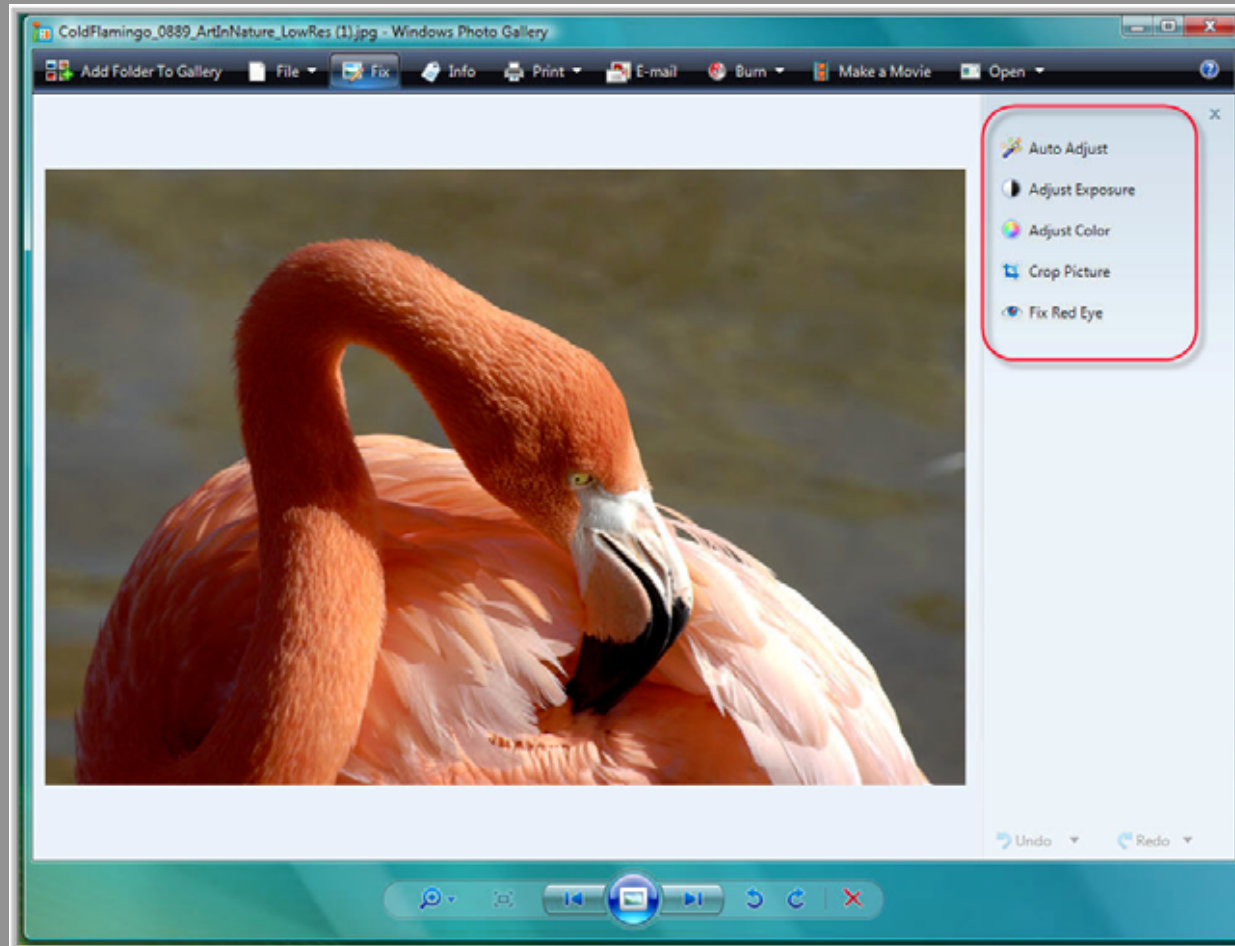
An Example –Windows Photo Gallery



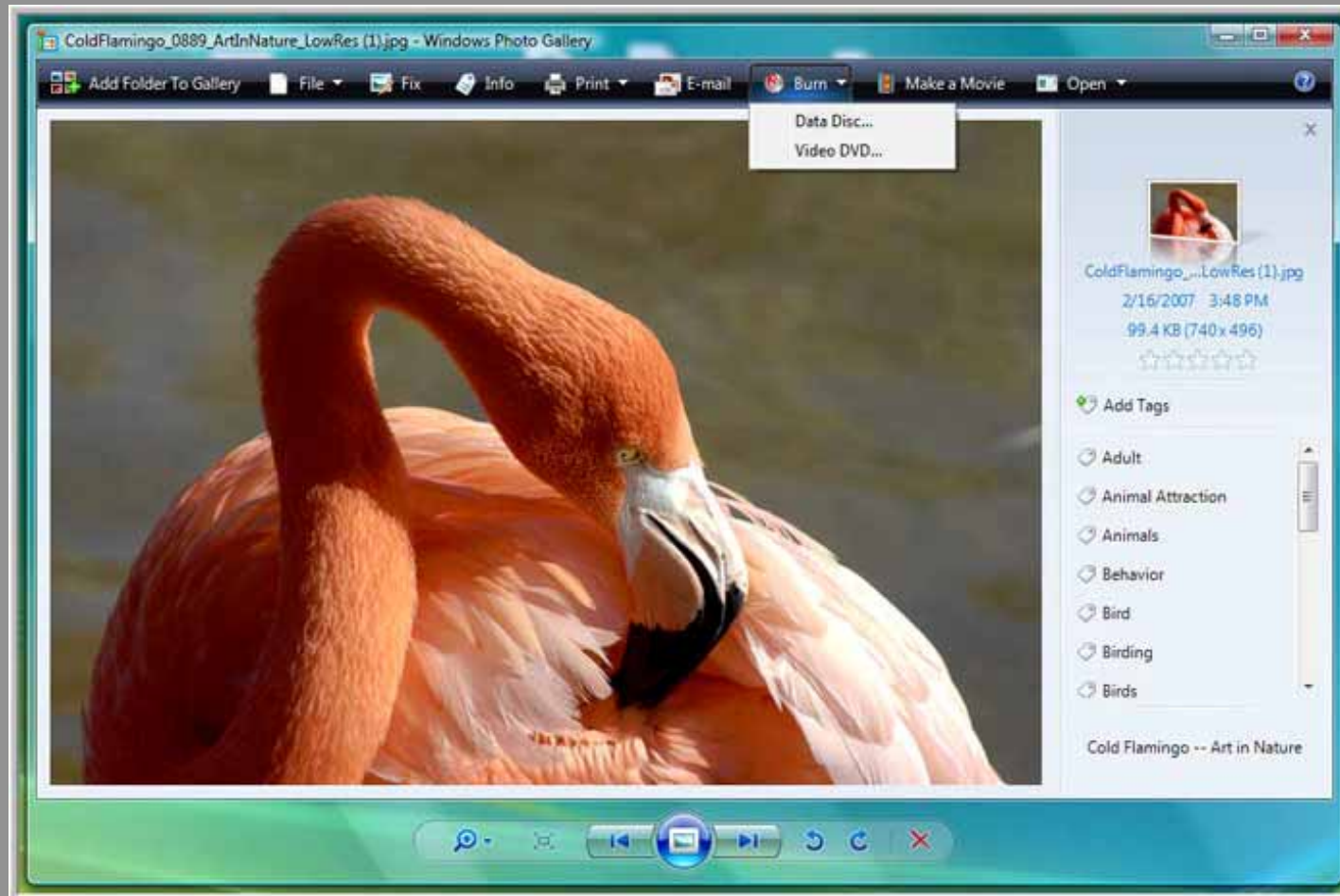
Windows Photo Gallery -- File



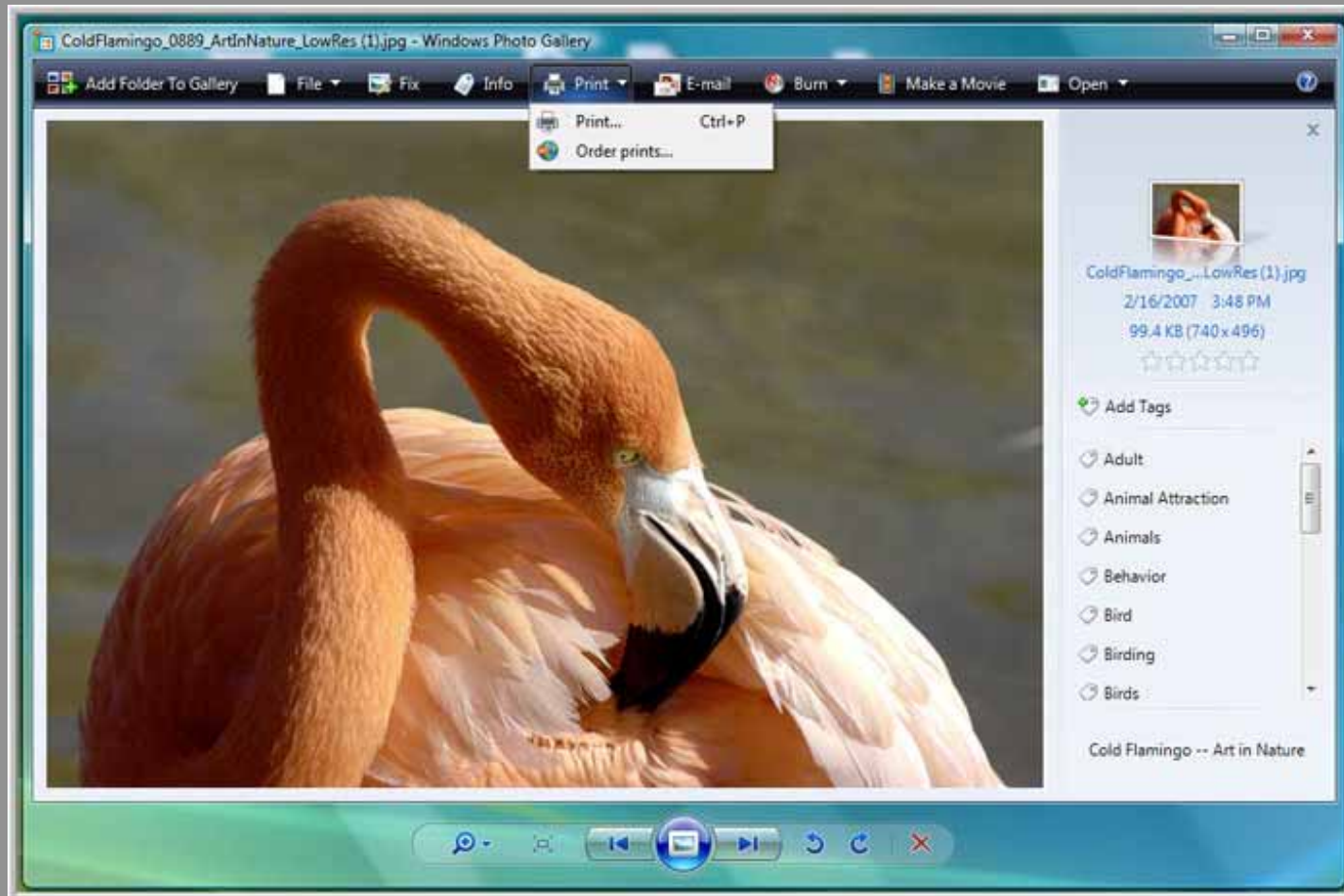
Windows Photo Gallery -- Fix



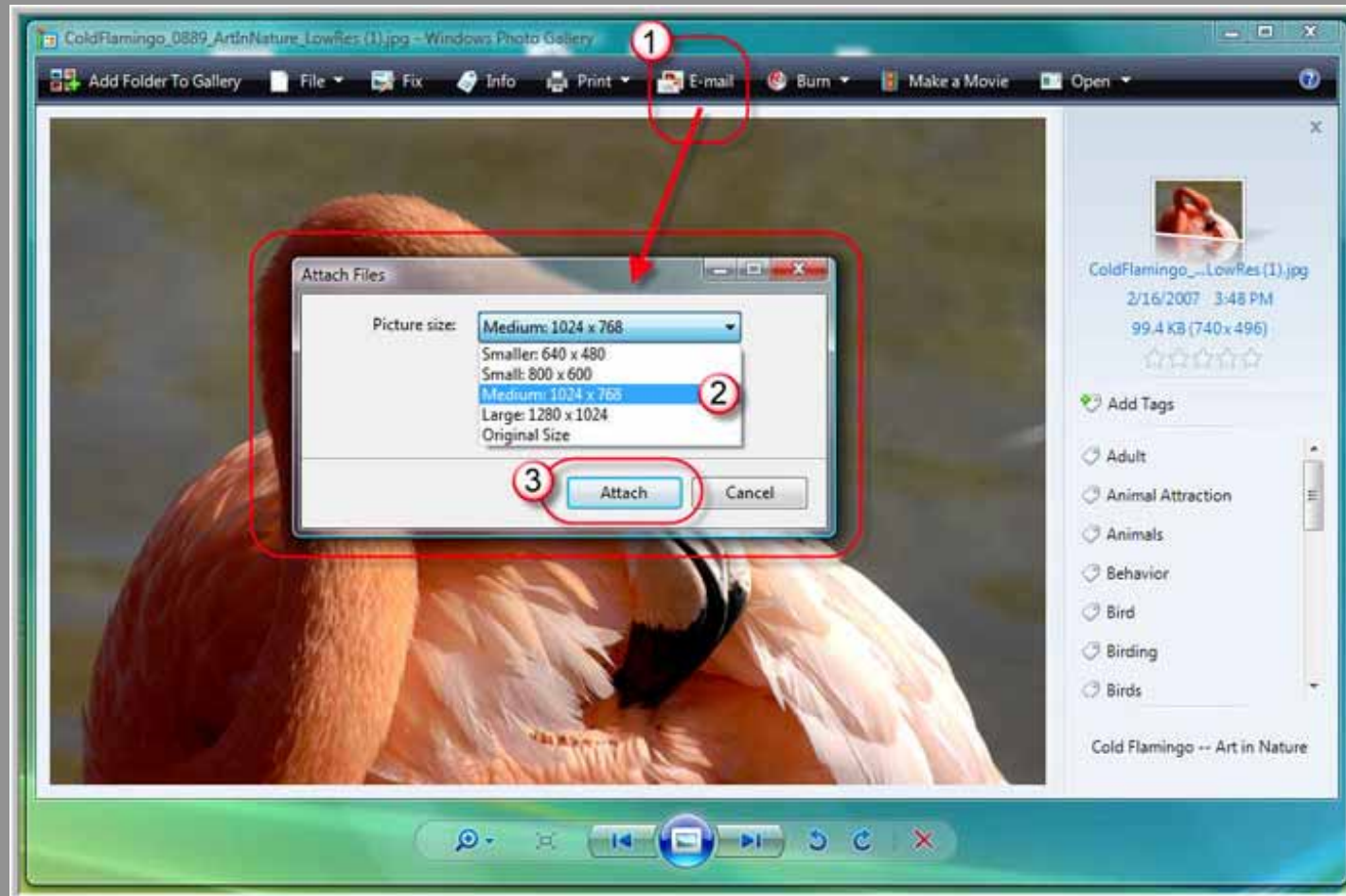
Windows Photo Gallery -- Info



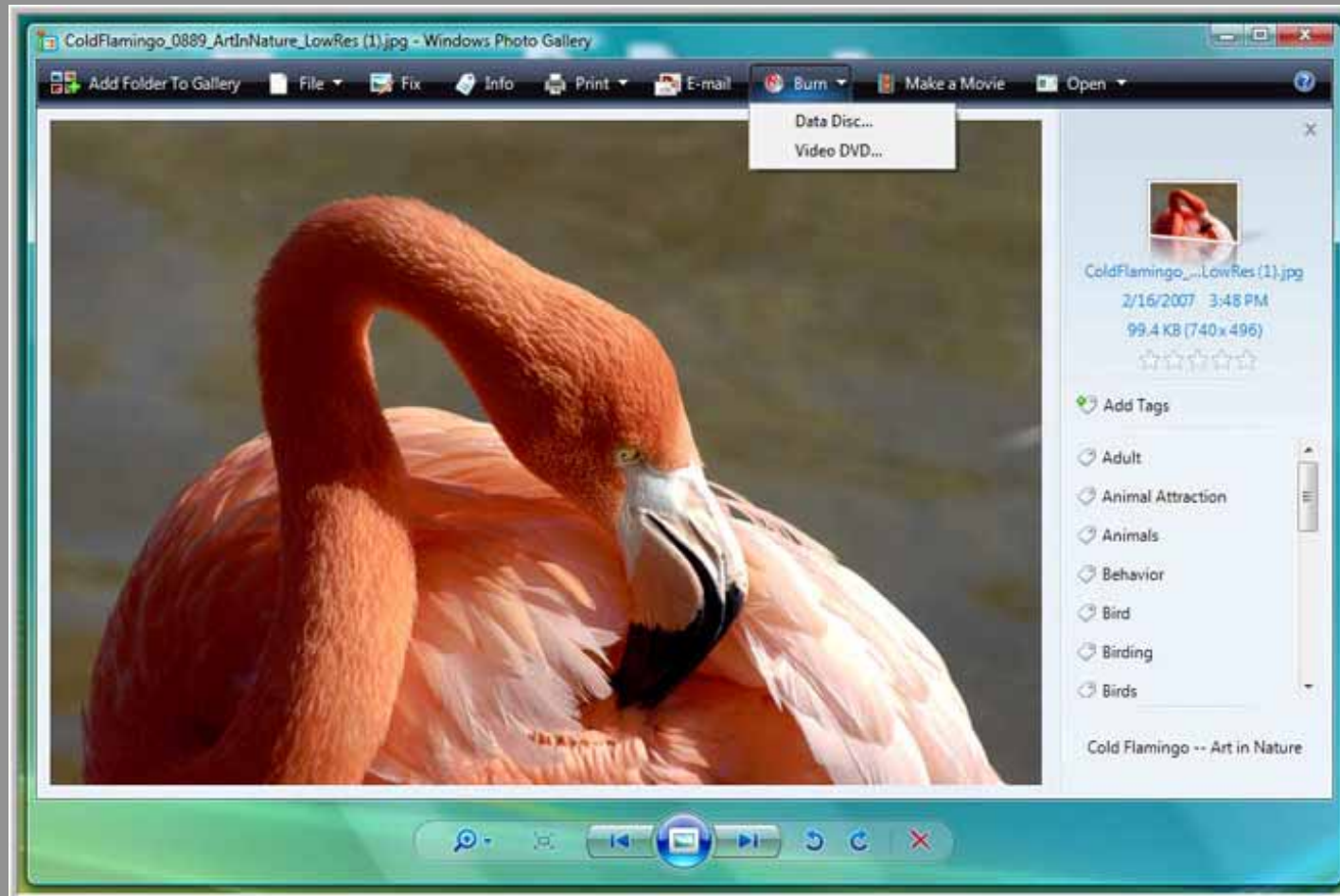
Windows Photo Gallery -- Print



Windows Photo Gallery -- Email



Windows Photo Gallery -- Burn



Resources

- **Digital Camera Website**, <http://www.digicamera.com/>
- **Digital Photographer's Handbook, Fully Updated 3rd Edition**, Tom Ang, Sands Publishing Solutions on behalf of DK, London, England
- **Digital Photography Master Class**, Tom Ang, DK, London, England
- **Digital Photography for Dummies, Fourth Edition**, [Julie Adair King](#), Wiley Publishing, Inc.
- **Mastering Digital SLR Photography**, David D. Busch, Thomson Course Technology
- **Photoshop Made Easy**, an insert included with **DigitalPhoto**, August 2008,
- **Photo Answers website**, <http://www.photoanswers.co.uk/Home/>
- **Wikipedia The Free Encyclopedia**, http://en.wikipedia.org/wiki/RAW_image_format
- **Wikipedia The Free Encyclopedia**, <http://en.wikipedia.org/wiki/JPEG>
- **Wikipedia The Free Encyclopedia**, http://en.wikipedia.org/wiki/Windows_Photo_Gallery

