





## **Preserving Digital Photos**













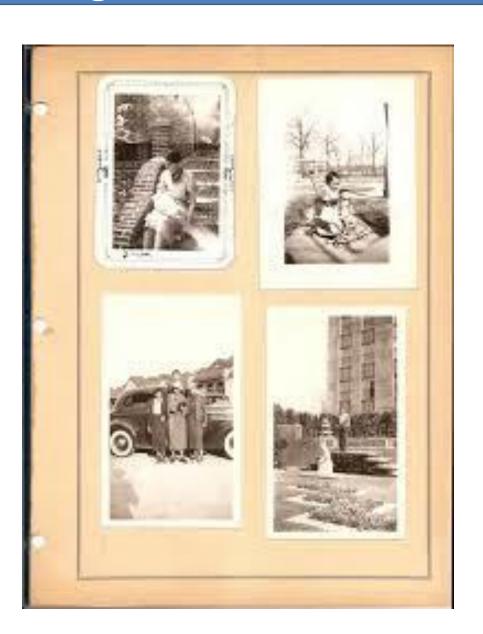
Mark Schulman

# The Promise of Digital Photography



# The Way Things Used to Be





## Rise of Digital Media



2002 Digital cameras outsold film cameras

2004 Kodak announces it will no longer

sell film cameras in developed world

2006 Nikon stops production of all but

two models of film camera

2010 World-wide camera

phones > 1 billion

Almost all digital cameras also take video



### Advantages of Digital Photos



- Costs almost nothing
- Easy to take thousands of photos
- Editable
- Can last forever
- Can make unlimited perfect copies
- Will never fade, smear, or tear



## The Downside



- Intangible
- Most people don't know how to preserve them



# The Box









## Something to Think About

Our family history ended the day we got a digital camera.

## Preserving Your Photos



You want to make sure that ...

- your photos survive
- your photos are identifiable
- your photos are found



## Making Sure Your Photos Survive



## Copies Copies!



- Your photos should never exist only on your computer's hard drive or on your phone
- All hard drives eventually fail longterm reliability is unknown
- Easy to erase accidentally
- Files on your hard drive might not be found

#### What Will Survive?



100 years from now ...

- What will physically survive?
- What will people be able to use?



# We Thought They'd Last Forever



#### **Poor Choices**





Memory cards (limited life)



Flash drives (limited life)



Diskettes (obsolete)



Hard drives (maintenance)

## The Right Track



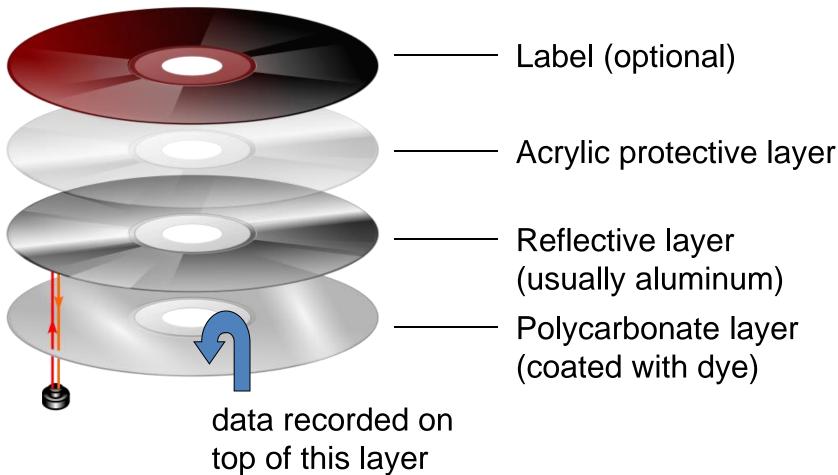
- Good quality CDs or DVDs
- Don't use ...
  - re-writable discs
  - Blu-Ray discs







## Anatomy of a CD



## What Can Go Wrong?



- Aluminum corrodes
- Dye degrades
- Physical damage

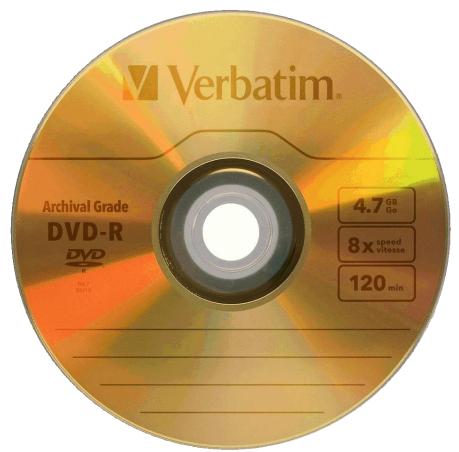


#### Archival CDs & DVDs



 Uses gold instead of aluminum

- Special longlasting dyes
- 100+ years (?)



#### Archival DVDs



Verbatim UltraLife Gold Archival DVDs 5-pack with cases - \$10.95 on Amazon



### Help Your CDs & DVDs Survive



- Store in a cool, dry, dark place
- Store in plastic cases
- Label the cases
- Don't write on the discs
- Don't use stick-on labels
- Buy name brand (JVC, TDK, Memorex, Maxell, Verbatim, Sony, others)



### Make Copies!



- You can make endless perfect copies
- Keep copies elsewhere (work, friends)
- An idea: the New Years Day tradition
- If you don't know how to make CDs or DVDs, learn!



## What I Use





www.ashampoo.com

#### **Online Services**















- Great for sharing photos
- Good for "yet another place" to store your photos
- Don't count on them as permanent storage

#### **Printed Photos**



- How long do printed photos last?
  - A. It depends
  - B. Nobody knows



### How Long will Prints Last?



In 20, 50, or 100 years, ye'll know what really worked and what didn't ... but until then all we can do is guess.

Richard SeilingPhotographer and owner of West Coast Imaging

## Our Best Guess



Color prints and negatives	40 years
Inkjet photos under ideal	75+ years
circumstances	
Most inkjet photos	2 years



## Making Prints Last



- Top of the line photo printers
- Manufacturer's ink
- Premium photo paper (not fast dry)
- Keep out of direct sunlight
- If displayed, keep under glass



## Making Sure Your Photos are Identified



## Identifying Your Photos



- You can't write on the back of a digital photo
- Organize your photos into meaningful folders



## Identifying Your Photos



- Use Notepad to create text files with information about your photos
- Don't rely on ...
  - Word documents
  - Photo-organizing software, such as Picasa

```
File Edit Format View Help

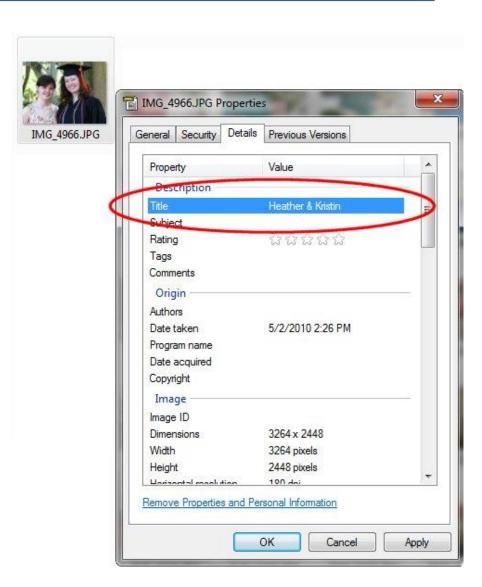
IMG_5301.JPG
Aunt Millie on her birthday, 5/21/2006

IMG_5302.JPG
Uncle Josh shows us his new company car.
```

## Additional Option: EXIF\* Data



- Embedded in the JPG file
- Can't be accidentally lost
- Obscure might not be found



## Making Sure Your Photos Are Found



## Losing Digital Photos



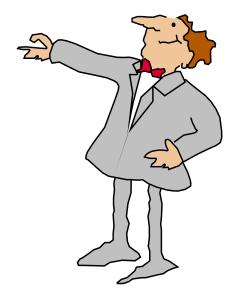
- Digital photos don't stand out like a box of printed photos does
- Photos stored only on your computer's hard drive are easy to lose
- An individual CD or memory card is too easy to miss



#### Make Your Photos Findable



- Put CDs/DVDs of photos with your important papers
- Tell people where they are, especially kids
- Label CD/DVD cases
- Key point: Make sure people realize what they've found



#### Create a Book

Create a photo book ...

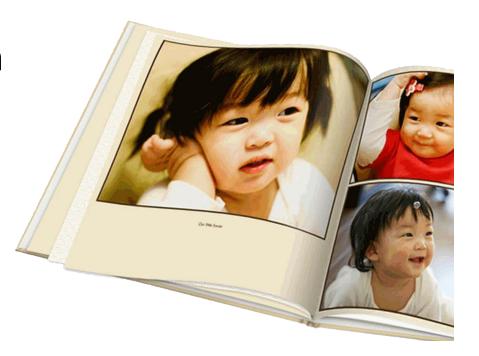


... and put your CD in the back of the book

#### A Few Book Publishers



- blurb.com
- mypublisher.com
- shutterfly.com
- MixBook
- Pinhole Press



Deluxe hard-cover book with Groupon: \$10

+ shipping

## Less Expensive ...



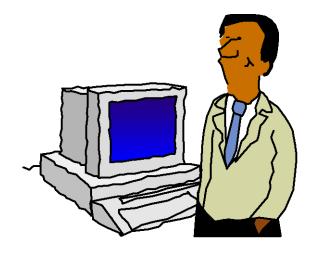
- Print a selection of photos and make an album
- Put your CD/DVD in the back



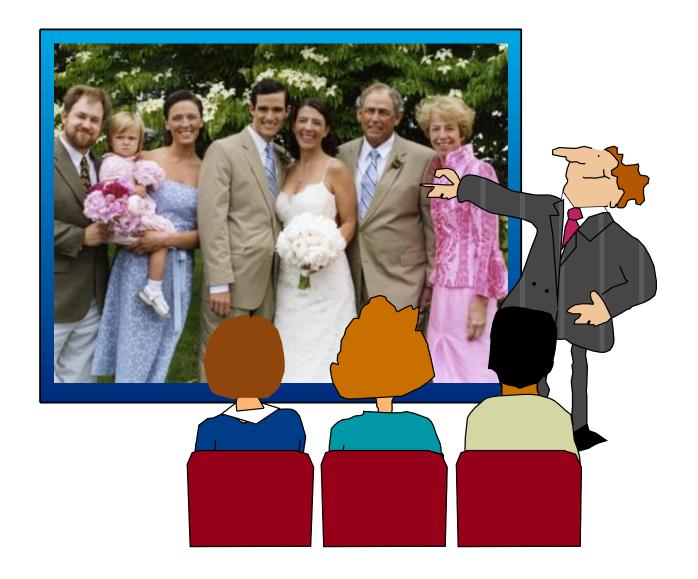
## The Family Archivist



- Collects materials from family members
- Makes sure lots of copies exist
- Makes new "fresh" copies occasionally
- Watches for technology changes
  - file formats
  - storage media



# Conclusion



#### Presentation and notes at:

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