





Preservation Goals

- Keep the bits safe
- Keep the files useable
- Keep the integrity of the object
- Keep the context of the object

Requires an active, systematic program (Waters & Garrett 1996)



Keep the Files Useable

This is much harder...

- Depends on the complexity and transparency of file properties
 - File formats
 - Compression algorithms
- Requires significant knowledge and data
- Requires on-going management
- ...and is the current focus of major research efforts.











Participants

- 229 participants
- With 220 valid responses
- From 15 classes
 - 5 SLIS classes
 - 2 Informatics classes
 - 5 CS classes
 - Business classes
- One email list (for more CS and Informatics Grad students)
- One visit to an Informatics computer lab

	B	Business [N=50] 23%		CS [N=40] 18%		Informatics [N=51] 23%		LS [N=31] 14%	Other [N=12] 5%	
	Grad	Undergrad	Grad	Undergrad	Grad	Undergrad	Grad	Grad	Grad	Undergrad
Male	19	16	7	18	3	28	13	9	1	5
Female	4	1	6	1	5	4	10	20	1	4
N/S	6	4	1	7	0	11	10	5	0	1
Totals [N=220]	29	21	14	26	8	43	30	34	2	10



Category	Survey Questions					
Longevity of digital information	 Information in digital format will last longer than information on paper. Digital photographs will last longer than film. Digital image formats are stable and will last a long time. Library and Museum materials (images, text, etc) are safer in electronic format. 					
Confidence in software	 If the format that my digital camera uses goes out of date, I am sure that I will be able to upgrade my photos to a new format. If I am audited by the IRS in 2010, I will be able to use my 2005 TurboTax software and data to recreate my tax filings. Businesses migrate data from one system to another and from one record format to another with no adverse affect on their customers. 					
Availability of access	 Academic journals that are published electronically today will still be available online in 10 years. Information published on Websites will be accessible to researchers in 10 years. 					
Personal practice	5. I know the technical format that my digital camera uses.					





Category	Format			
Low risk formats Loss-less and transparent	TIFF, JPG2000, ASCII, XML			
Moderate risk formats Lossy, semi-transparent, deprecated, or not widely adopted	JPG, PNG, RTF, HTML, SGML			
High risk formats Lossy and opaque	GIF, PhotoCD, MSWord, WordPerfect, ClarisWorks, MS Excel			





















