# Digital Data & Your Digital Lifestyle

protecting your investment

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## Digital Data

## **Digital Data**

binary code

(text, image & audio files)

## zeros & ones

## **Digital Data**

#### binary code

(text, image & audio files)

## Storage Media (internal & external)

#### internal hard drive



LIFE EXPECTANCY	
Ideal Lifetime	Typical Lifetime
< 100 years	10–20 years

old school – floppy disc (magnetic media)





LIFE EXPECTANCY		
Ideal Lifetime	Typical Lifetime	
30–100 years	5–20 years	

old school – zip disc (magnetic media)



CAPACITY
100-250 MB

LIFE EXPECTANCY		
Ideal Lifetime	Typical Lifetime	
30–100 years	5–20 years	

old school – jaz drive (hard disc cartridge)



CAPACITY
1–2 GB

LIFE EXPECTANCY		
Ideal Lifetime	Typical Lifetime	
< 100 years	20–40 years	

old school - magnetic tape



LIFE EXPECTANCY		
Ideal Lifetime	Typical Lifetime	
30–100 years	5–20 years	

new school – optical discs (CD/DVD/Blu-ray Disc)



STORAGE CAPACITY		
	Actual Capacity	User Capacity
CD-R	650 MB	< 600 GB
DVD-R	4.7 GB	< 4.4 GB
Blu-ray Disc	25 GB+	-

LIFE EXPECTANCY		
	Ideal Lifetime	Typical Lifetime
CD-R	5–100 years	2–30 years
DVD-R	20–30 years	10 years
Blu-ray Disc	50-150+ years	_

#### cool school – external hard drives

(desktop & portable)





#### photographic film



## Your Stuff your digital lifestyle



#### **Business**

collateral legal documents financials passwords

#### **Education**

academic papers artworks books photographs presentations

#### **Entertainment**

books, magazines games music photographs video

#### Personal

enrichment financials journal photographs projects

#### Social

bookmarks calendars contacts email





Gone.



#### Gone. Forever.

phase 1: crying...

phase 2: anger...

phase 3: more crying...

phase 4: new computer;)



## The question is never **if** the hard drive\* will fail, but **When** will the hard drive fail.

\*includes other internal computer components – motherboard, processors, memory, etc.

# You have made a substantial investment of 2 & 5 in your digital lifestyle.

Back it up.

## Back-up Solutions

## **Back-up Solution 1**

good - Apple Time Machine & Time Capsule











## **Back-up Solution 2**<sup>++</sup>

even better - three external hard drives\*





## Back-up Solution 2<sup>2</sup>

OMG! BFF I♥U! ©ME! – four external hard drives\*



## **Back-up Solution 3**

#### best – external RAID

(Redundant Array of Independent Disks)



## **Back-up Solution 3**<sup>+</sup>

best plus – external RAID & cloud storage\*

(Redundant Array of Independent Disks)



<sup>\*</sup> off-computer storage accessed via Internet on servers (ginormous computer systems) hosted by another party (Apple, Adobe, Google, etc.)

## Daily Back-up Plan

#### **Daily Back-up Plan**

#### 3-step daily solution with 2 external hard drives



1. At the end of your work session, connect your **first external hard drive** to your computer. Create a new folder on your drive and name it **back-ups**.



2. Select the **Users folder** on your computer and drag & drop it onto the back-ups folder to copy it. Wait for it to finish copying. Rename the back-up Users folder with the year, month and day. Example: **Users-20180724** 



3. Connect your **second external hard drive** to your computer and repeat steps 1 and 2. You now have a perfect duplicate digital back-up. Store your second hard drive in another room, preferably in a fireproof safe.

**NOTE:** You only need to keep the **latest** back-up of your Users folder. Delete previous back-ups after you have successfully made a fresh back-up. Keep multiple copies if it makes you feel more secure!



**ADDITIONAL PROTECTION:** In addition to your daily back-ups, set a schedule (every month, three months, etc.) and archive your important **personal** and **business documents** to a CD or DVD. Label your disc with a name and date, then file it in a CD/DVD storage cabinet, case or binder. For extra protection, burn a duplicate disc and store off-location in a security box or a trusted friend.

## Did you back-up today?

