Automatic data backup



Sue Kayton September 2019

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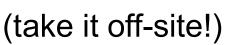
Backup methods

USB flash drive



(beware static electricity!)

External hard drive





Cloud backup

(can be automatic)

Why back up off-site?

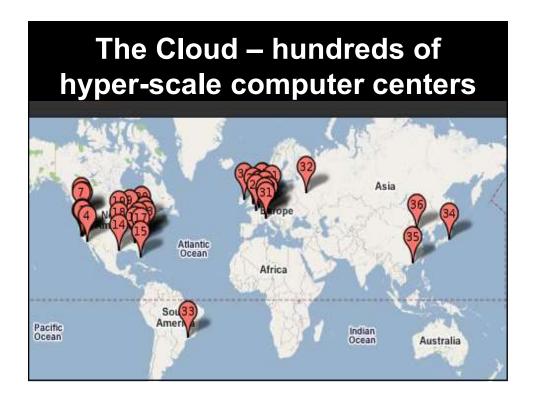


- Fire
- Theft
- Earthquake
- Roof leak
- Power surge



Why back up automatically?

- You won't forget to do it
- Less hassle
- Never lose data again



Server farm (data center)



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Inside a server farm



What these servers do

- Store data
- Perform computations
- Back up data
- Control access to data
- Show you websites

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Web services



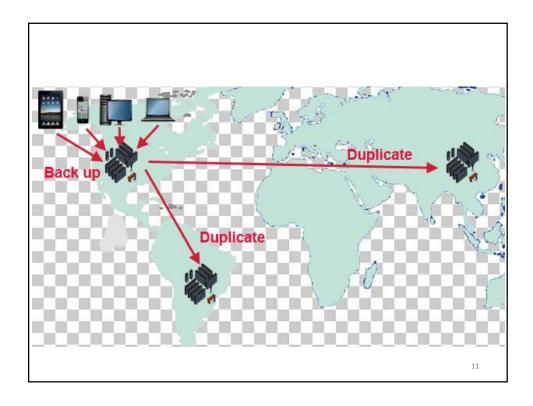












Features

- Automatic data backup
- Automatic photo backup
- Share files
- Recover deleted files

The Big Four

Google Drive (Google One)





Dropbox

Microsoft OneDrive





iCloud

	Google Drive (Google One)	Dropbox	iCloud	OneDrive
Free data storage	15 GB	2 GB	5 GB	5 GB
Yearly cost	\$100 / 2TB	\$120 / 2TB	\$120 / 2 TB	\$70 / 1 TB
Number of devices synced for free	Unlimited	3	Unlimited	Unlimited
Unlimited free photo storage	V			
Choose folders to back up	٧			
Shows backup progress	٧			
Bonus features	Google Docs Google Sheets Google Slides	Text search	Back up contacts from iPhone	1TB included with Office 365

30-day "rewind"

- Recover deleted files
- Kept for 30 days
- Up to 5 versions (Dropbox) or 10 versions (Google Drive)

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Beware!

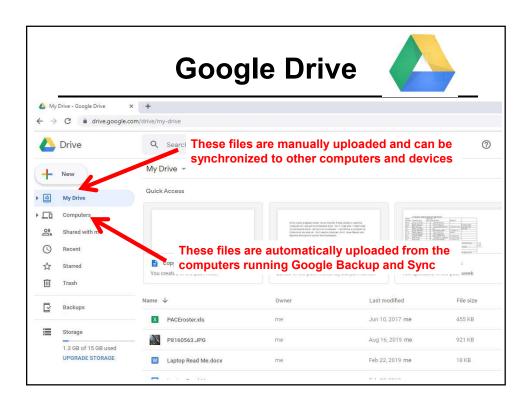
- Keep your payment information current
 credit cards expire!
- Write down your passwords!
- Huge Outlook files won't back up automatically

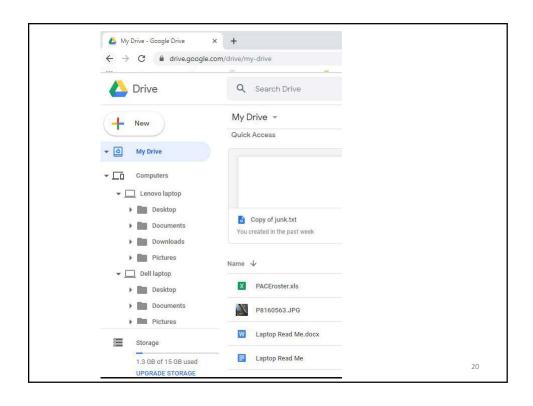
Google Backup and Sync (Google Drive)

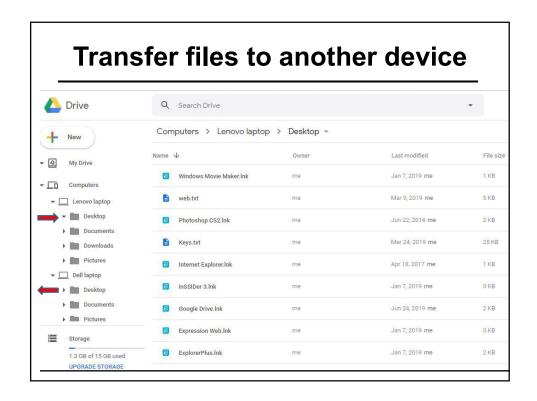
- Built in to Android phones and tablets
- Available on Windows, Mac, iPhone, iPad
- · Automatic backup of your files
- · Synchronize data between computers
- · Transfer data to new computer
- · Access data from smartphone or tablet
- · Access data from anywhere
- 15 GB free storage plus unlimited photos
- · Pay for more space if needed
- Share data with family, friends or co-workers

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Google Drive Q Search Drive 2 My Drive -Copy of junk.txt PTA FSSAY CONTest You created in the past week X PACEroster.xls Jun 10, 2017 me 455 KB P8160563.JPG Aug 16, 2019 me 921 KB 1.3 GB of 15 GB used UPGRADE STORAGE Feb 22, 2019 me







Google Drive



 Excellent tutorial from C-net including how to install Google Backup and Sync

https://www.cnet.com/how-to/get-started-with-googles-backup-and-sync-app/

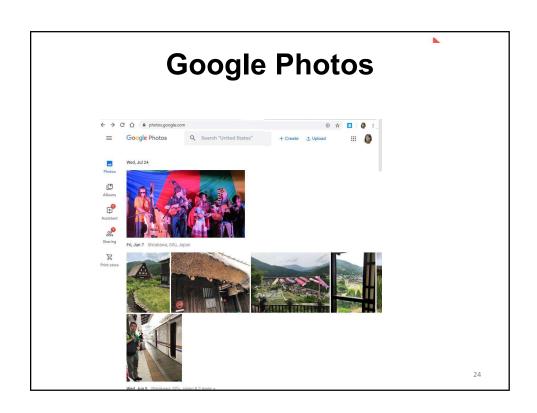
Excellent tutorial from HowToGeek

https://www.howtogeek.com/228989/how-to-use-the-desktop-google-drive-app/

Google Photos



- Built in to Android phones and tablets
- Available for Windows, Mac, iPhone, iPad
- · Automatic backup of your photos
- Unlimited free storage
- Share photos with family, friends and coworkers
- Tag photos to create albums
- Edit and rename photos
- Flat file structure listed by date







Google Photos edit and share





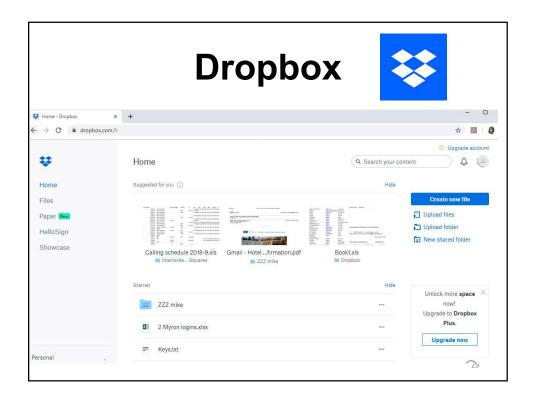
Dropbox



Available for Windows, Android, Mac, iPhone, iPad

Features in Dropbox personal edition

https://www.dropbox.com/individual/plans-comparison



iCloud



- Built in to iPhones
- Not available for Android
- Not recommended for Windows computers
- Designed to back up iPhones and iPads



