



DIGITAL PHOTOGRAPHY #1

PHOTOS, SLIDES, NEGATIVES



C:\Users\\Pictures

/Users/<user>/Pictures

Scanning Photos

Some Benefits

- Photos, Slides and Negatives will age and can easily be damaged or lost
- Scanned images
 - Will not age
 - Can be easily copied
 - Can be stored in the cloud
 - Can be shared with other people via the internet
 - Can be printed out onto photo quality paper
 - Can be printed on Mugs, T-Shirts, Tea Towels, etc
 - Can be touched up to remove blemishes or people 😊

Some Disadvantages

- Photo file Management
- No Metadata
- Computer Skills Requires
- Nothing Beats the Traditional Photo Album

DIGITAL CAMERA



C:\Users\\Pictures

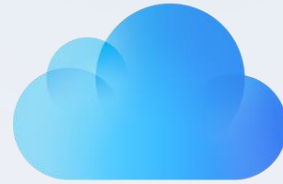


/Users/<user>/Pictures

Apple iPad iPhone



Apple Photos



Apple iCloud



Apple iCloud



Apple Photos



C:\Users\\Pictures\iCloud Photos

/Users/<user>/Pictures/Photos Library.photoslibrary

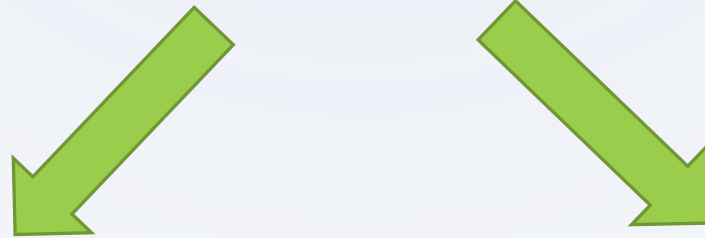
Android Phone



Google Photos App



Google Cloud Services



C:\Users\\Pictures



/Users/<user>/Pictures

Google Storage Changes

What affects your Google Account storage

Prior to 1 June 2021

The following items count towards your storage quota

- Original quality photos and videos backed up to Google Photos
- Gmail messages and attachments, including your Spam and Bin folders
- Most files in Google Drive, including PDFs, images and videos

If you go over your storage quota

- You can no longer upload new files or images to Google Drive
- You can't back up original quality photos and videos to Google Photos
- Your ability to send and receive email in Gmail may be impacted
- You can still sign in to and access your Google Account

After 1 June 2021

The following additional items will count towards your storage quota:

- High quality and express quality photos and videos backed up to Google Photos after 1 June 2021.
- Files created or edited in collaborative content creation apps like Google Docs, Sheets, Slides, Drawings, Forms and Jamboard.
 - **Only files created or edited after 1 June 2021** will count towards your quota.
 - Files uploaded or last edited before 1 June 2021 will not count towards your quota.

Storage Costs

	Free Storage	50GB	100 GB	200 GB	2,000 GB (2 TB)
Your PC	--	--	--	--	--
Apple iCloud	5 GB	79p / month	--	£2.49 /month	£6.99 / month
Google Drive	15 GB	--	£1.59 / month	£2.49 /month	£7.99 / month

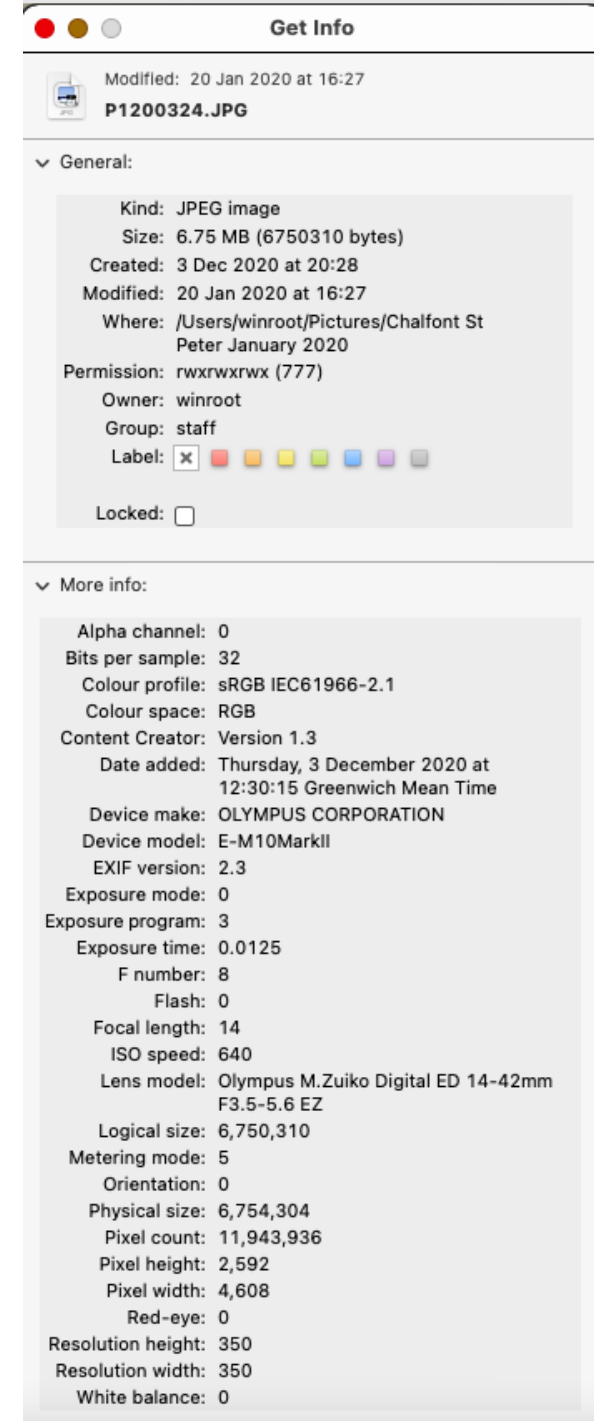
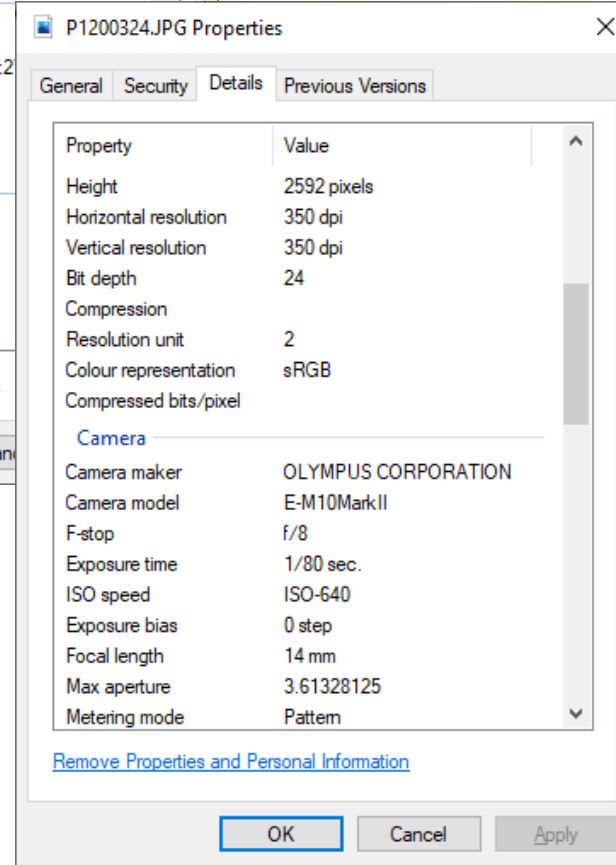
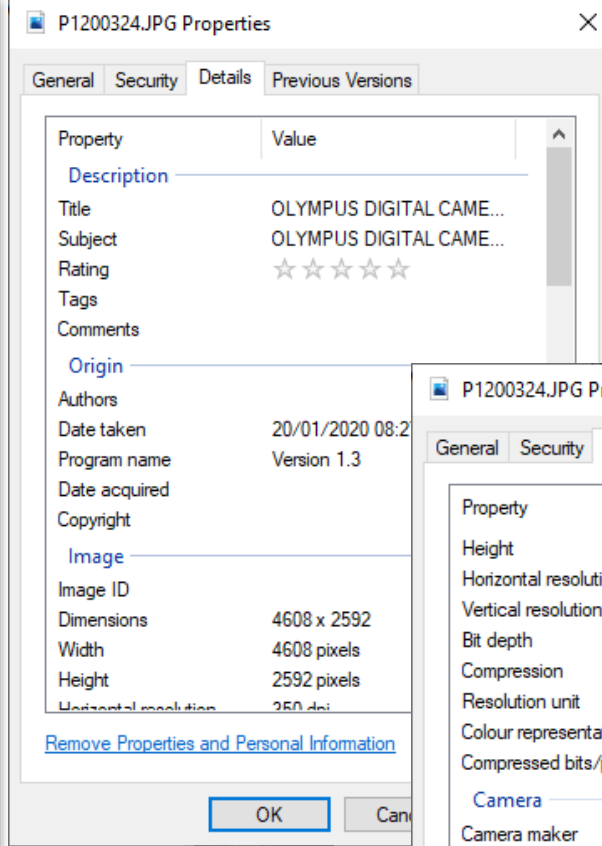
- Once you have filled your free allocation you will not be able to add any more photos, you will also find that other cloud service may stop. e.g. Backups to cloud, sending and receiving emails
- If you stop paying for the storage you normally get 30 days notice before your data is deleted
- If you choose not to pay for additional storage you will have to manually move photos from the cloud storage to local storage. Then you will have to delete the photos from your mobile device. This will also remove them from the cloud storage
- If you store your images on your computer you **MUST** make sure they are backed up

Metadata

Data about Data

Windows – right click / properties






MacOS – right click / get info



Metadata

Data about Data

Windows – If you right click on one of the columns you add and remove other Metadata columns

Name	Date	Type	Size	Date taken	Dimensions	Focal length	ISO speed
 P1200321.JPG	20/01/2020 08:11	JPG File	6,965 KB	20/01/2020 08:11	4608 x 2592	14 mm	ISO-1250
 P1200322.JPG	20/01/2020 08:14	JPG File	7,627 KB	20/01/2020 08:14	4608 x 2592	28 mm	ISO-1000
 P1200323.JPG	20/01/2020 08:18	JPG File	7,841 KB	20/01/2020 08:18	4608 x 2592	15 mm	ISO-1250
 P1200324.JPG	20/01/2020 08:27	JPG File	6,593 KB	20/01/2020 08:27	4608 x 2592	14 mm	ISO-640
 P1200325.JPG	20/01/2020 08:38	JPG File	7,117 KB	20/01/2020 08:38	4608 x 2592	14 mm	ISO-400

File Formats

There are many file formats, identified by the file's extension, that exist for image files. The following are the most popular

JPEG, JPG – Joint Photographic Experts, compressed format

PNG - Portable Network Graphics

GIF - Graphics Interchange Format

HEIC - High Efficiency Image Compression, new standard used by Apple

RAW - Raw Image Format

ORF – RAW Format used by Olympus

CRW, CR2, CR3 - RAW Format used by Canon

RW2 - RAW Format used by Panasonic

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