

Why do we need to compress files?

The main reason why we compress files is to reduce how much storage it takes up and this allows us to send certain files in emails that have a storage cap (around 100mb),

What are the advantages/disadvantages for uploading and downloading?

ADVANTAGES

Uploading - It saves time and money and instead of having multiple versions of the same file with different types of info it will always have the most up to date version of the file.

Downloading - You can download files and use it anytime and anywhere even if you are offline. You have many sites where you can get safe downloads such as music, apps and films.

DISADVANTAGES

Uploading - You need decent upload speed to be able to upload a file or even having a high risk of files being shared publicly or being infected.

Downloading - You have a high risk of getting viruses if you don't download such files properly. You need to also have decent connection speed to download huge files such as movies or tv programmes.

How are files compressed?

File compression is used to reduce file sizes and change various attributes of an image file. You get file type, resolution, dimensions, bit depth.

How are files expanded?

Files have a pleated, accordion-like expanding gusset that expands as you add paper.

What is lossy compression?

It's a software that removes some data from a file. Data is removed, the quality of the decompressed file is less than the original. This compresses graphic, audio and video files. And it damages the file but it is not noticeable.

What is lossless compression?

It is a way to compress files without losing any data. It shoves the data closer together by replacing it with a type of shorthand. This reduces files by around half. .zip uses lossless compression. But it cannot compress files to a really small size making it less useful for very large files.