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Data compression means making files smaller so they take up less space and are faster to send or download.

Lossless compression = No data is lost. You can get back the exact original file.

## Why do we compress data?

To upload/download files faster online.

To share files more easily with others (smaller file = easier to send).

## How is different data compressed?

Uses lossless compression.

Looks for repeated words or letters.

Makes patterns shorter (e.g. "aaaaaa" → "6a").

Common compressed formats:

.zip

.pdf

**.docx (it's a zip file inside!)**

Can be lossless or lossy.

Tries to remove small details or colors you can't see well.

### Formats:

Lossless: PNG, GIF

Lossy: JPEG, WebP, HEIC