

Computer Images

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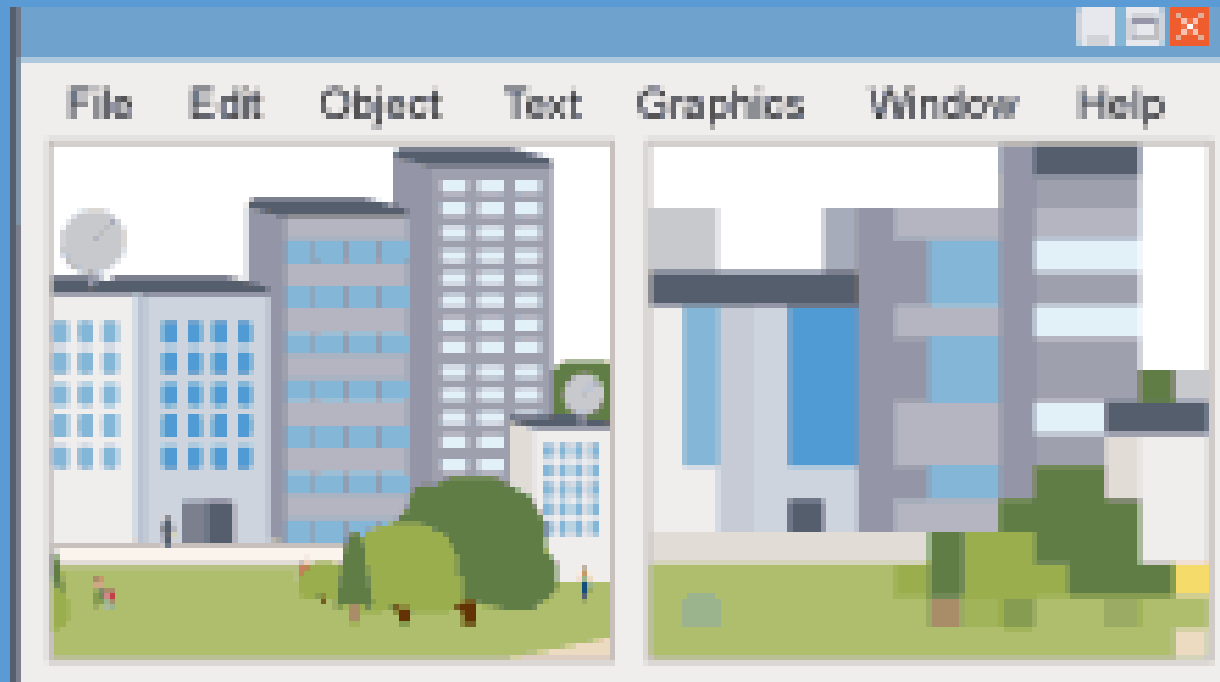
Colour Depth

- The amount of bits available for colours in an image:
 - 1 bit = 2 colours (i.e. black and white)
 - 4 bits per colour = 16 shades of each colour, 4096 colours.
 - 8 bits per colour = 256 shades colours, 256^3 colours
- Computers and digital cameras use 24 bit images – meaning that there are over 16 million possible colours per pixel

Resolution

- A measure of pixel density, measured in dots per inch (dpi). It is the amount of pixels in 1 square inch. More pixels → Better Resolution
 - E.g. 56 dpi = $56 \times 56 = 3136$ pixels per square inch

Higher
Resolution



Lower
Resolution

Compression

- Used to reduce file sizes and change various attributes of an image file.
Attributes include:
 - Dimensions
 - File Type
 - Resolution
 - Bit Depth
- Two types of image compression:
 - Lossy
 - Lossless
- Types of compressed image files:
 - PNG - Lossless
 - JPEG - Lossy
 - GIF - Lossless