Name:

Character set

Data Representation: Compression of Images and Text

| Compression | | Reduction in file size to lessen download times and | |
|------------------|---|---|----|
| st | | storage requirements | |
| Lossy | | Compression which loses data (and therefore quality) | |
| Lossless | | Compression which preserves the original data | |
| Metadata | | Data about data | |
| | | | |
| В | | Representing Text | |
| B ASCII | | Representing Text A 7-bit code which represents a basic <i>character set</i> | |
| ASCII Extende | d | | J۳ |
| | d | A 7-bit code which represents a basic <i>character set</i> | |

Key Vocab

bits and includes many international characters

The complete set of letters and symbols available

| | C | | | |
|---|---|--|--|--|
| С | Representing Images | | | |
| Bitmap The representation of an image by converting it | | | | |
| | and each pixel to a binary number | | | |
| Vector | The representation of an image by splitting it into shapes | | | |
| | and storing each shape as a binary number | | | |
| Pixel | The smallest element of an image. One dot of one | | | |
| | colour. | | | |
| Resoluti | on The level of detail in an image, measured in pixels (dots) | | | |
| | per inch (dpi) | | | |
| Colour | The number of bits used per pixel to record colour. | | | |
| depth | | | | |
| File Size | width (px) × height (px) × colour depth | | | |

within a given code

| D | File types | | |
|------|------------|----------|--------------|
| PDI | = | document | lossless |
| PNG | | image | lossless |
| JPEG | | image | lossy |
| GIF | | image | lossy |
| ВМР | | image | uncompressed |
| MPEG | | video | lossy |
| MP4 | | video | lossy |
| MC | V | video | lossless |
| MP | 3 | audio | lossy |
| WA | V | audio | lossy |
| | | | |

| Е | Image | | | | |
|-----------------|------------|--|--|--|--|
| | metadata | | | | |
| File | Filename | | | | |
| File format | | | | | |
| Dimensions | | | | | |
| Res | Resolution | | | | |
| Colour depth | | | | | |
| Time and Date | | | | | |
| Location | | | | | |
| Camera settings | | | | | |
| | | | | | |

F Lossy compression



Original: 12KB



Compressed: 1.8KB



Very compressed: 0.56KB

