This is an example exif data section from a PNG file with notes on the different sections, divided by lines of '-' Also including the ASCII char (if possible/makes sense)

| Address Starting at | NEWLINE 0xex 0xif | | This part here is only present in some file formats, e.g. PNGs but NOT in JPGs |
|--|---|------------------------------------|--|
| TIFF header | NEWLINE 0x 0x 0x 0x 0x86 NEWLINE | | The size of EXIF data field in bytes Note that 86 is the *decimal* representation The missing numbers in the other 3 bytes are spaces (due to encoding) – So the following is 86 bytes (NOT including new lines which seem to have no syntactical meaning) |
| | 0×45 0×78 0×69 0×66 0×00 | E X i f | (Another) EXIF header |
| 0x0000 0x0001 0x0002 0x0003 0x0004 0x0005 0x0006 0x0007 | 0x49 0x49 0x2a 0x00 0x08 0x00 0x00 0x00 | I I * | Start of TIFF header The two 'I's indicate little endian format With 'I' standing for Intel "MM" ("Motorola") would indicate big endian 0x002a is also part of the TIFF header 0x00000008 gives the offset to IFD0 |
| 0×0008 0×0009 | 0×01 0×00 | | Number of IFD(0) entries (2 bytes) Only 1 entry |
| 0x000a 0x000b | 0x0e 0x01 | | Tag: 0x010e indicates "ImageDescription" |
| 0x000c 0x000d | 0×02 0×00 | | Data format: 0x0002 indicates ASCII String (with 1 Byte/Component) |
| 0x000e 0x000f 0x0010 0x0011 | 0×35 0×00 0×00 0×00 | | Number of components: 0x00000035 = 53 in decimal Total data length: 53 Components * 1 Byte/Component = 53 Bytes -> Longer than 4 Bytes -> Next 4 Bytes contain offset to actual Data (starting at TIFF header address) |
| 0x0012 0x0013 0x0014 0x0015 | 0×1a 0×00 0×00 0×00 | | Offset to data Or data itself if Components * Byte/Component <= 4 Bytes |
| 0×0016 0×0017 0×0018 0×0019 | 0×00 0×00 0×00 0×00 | | Link (=Offset) to next IFD (that is NOT a SubIFD!) – this 4 byte field follows after last IFD entry (SubIFD offsets are notated using special tags). If the link is 0x00000000 (like here) it means that this is the last IFD and no other linked IFD exists |
| 0x001a 0x001b 0x001c 0x001d 0x001e 0x001f 0x0020 0x0021 | 0x2d 0x77 0x20 0x32 NEWLINE 0x20 0x2d 0x68 0x20 | SPACE 2 SPACE - h SPACE | The actual ImageDescription data For some reason every 36th byte is a NEWLINE ? But that does not seem important to readers So they are not written by little-exif |
| 0x0022 0x0049 0x004a 0x004b 0x004c 0x004d 0x004e 0x004f | 0x31 0x20 0x2d 0x63 0x20 0x31 0x00 0x00 | 1 SPACE - C SPACE 1 | <pre>(more ImageDescription data here) End of ImageDescription String End of offset (?)</pre> |