



Example of a 2x2 Pixel Bitmap, with 24 bits/pixel encoding

| Offset | Size (bytes) | Hex Value | Value | Description |
|--------|--------------|-------------|----------|---|
| 0h | 2 | 42 4D | "BM" | Magic Number (unsigned integer 66, 77) |
| 2h | 4 | 46 00 00 00 | 70 Bytes | Size of the BMP file |
| 6h | 2 | 00 00 | Unused | Application Specific |
| 8h | 2 | 00 00 | Unused | Application Specific |
| Ah | 4 | 36 00 00 00 | 54 bytes | The offset where the bitmap data (pixels) can be found. |
| Eh | 4 | 28 00 00 00 | 40 bytes | The number of bytes in the header (from this point). |
| 12h | 4 | 02 00 00 00 | 2 pixels | The width of the bitmap in pixels |
| 16h | 4 | 02 00 00 00 | 2 pixels | The height of the bitmap in pixels |
| 1Ah | 2 | 01 00 | 1 plane | Number of color planes being used. |
| 1Ch | 2 | 18 00 | 24 bits | The number of bits/pixel. |

| | | | | |
|----------------------|---|----------------|--------------------|---|
| 1Eh | 4 | 00 00 00 00 | 0 | BI_RGB, No compression used |
| 22h | 4 | 10 00 00 00 | 16 bytes | The size of the raw BMP data (after this header) |
| 26h | 4 | 13 0B 00 00 | 2,835 pixels/meter | The horizontal resolution of the image |
| 2Ah | 4 | 13 0B 00 00 | 2,835 pixels/meter | The vertical resolution of the image |
| 2Eh | 4 | 00 00 00 00 | 0 colors | Number of colors in the palette |
| 32h | 4 | 00 00 00 00 | 0 important colors | Means all colors are important |
| Start of Bitmap Data | | | | |
| 36h | 3 | 00 00 FF | 0 0 255 | Red, Pixel (1,0) |
| 39h | 3 | FF FF FF | 255 255 255 | White, Pixel (1,1) |
| 3Ch | 2 | 00 00 | 0 0 | Padding for 4 byte alignment (Could be a value other than zero) |
| 3Eh | 3 | FF 00 00 | 255 0 0 | Blue, Pixel (0,0) |
| 41h | 3 | 00 FF 00 | 0 255 0 | Green, Pixel (0,1) |
| 44h | 2 | 00 00 | 0 0 | Padding for 4 byte alignment (Could be a value other than zero) |