

```

25 50 44 46 2D 31 2E 34 0A 25 D3 EB E9 E1 0A 31 %PDF-1.4.%L50B.1
20 30 20 6F 62 6A 0A 3C 3C 2F 43 72 65 61 74 6F 0 obj.<</Creato
72 20 28 4D 6F 7A 69 6C 6C 61 2F 35 2E 30 20 5C r (Mozilla/5.0 \
28 4D 61 63 69 6E 74 6F 73 68 3B 20 49 6E 74 65 (Macintosh; Inte
6C 20 4D 61 63 20 4F 53 20 58 20 31 30 5F 31 35 l Mac OS X 10_15
5F 37 5C 29 20 41 70 70 6C 65 57 65 62 4B 69 74 _7\) AppleWebKit
2F 35 33 37 2E 33 36 20 5C 28 4B 48 54 4D 4C 2C /537.36 \ (KHTML,
20 6C 69 6B 65 20 47 65 63 6B 6F 5C 29 20 43 68 like Gecko\) Ch
72 6F 6D 65 2F 31 31 30 2E 30 2E 30 2E 30 20 53 rome/110.0.0.0 S
61 66 61 72 69 2F 35 33 37 2E 33 36 29 0A 2F 50 afari/537.36)./P
72 6F 64 75 63 65 72 20 28 53 6B 69 61 2F 50 44 roducer (Skia/PD
46 20 6D 31 31 30 29 0A 2F 43 72 65 61 74 69 6F F m110)./Creatio
6E 44 61 74 65 20 28 44 3A 32 30 32 33 30 32 32 nDate (D:2023022
33 31 34 31 37 35 39 2B 30 30 27 30 30 27 29 0A 3141759+00'00').
2F 4D 6F 64 44 61 74 65 20 28 44 3A 32 30 32 33 /ModDate (D:2023

```

1	The bitmap is monochrome, and the palette contains two entries. Each bit in the bitmap array represents a pixel. If the bit is clear, the pixel is displayed with the color of the first entry in the palette; if the bit is set, the pixel has the color of the second entry in the table.
4	The bitmap has a maximum of 16 colors, and the palette contains up to 16 entries. Each pixel in the bitmap is represented by a 4-bit index into the palette. For example, if the first byte in the bitmap is 1Fh, the byte represents two pixels. The first pixel contains the color in the second palette entry, and the second pixel contains the color in the sixteenth palette entry.
8	The bitmap has a maximum of 256 colors, and the palette contains up to 256 entries. In this case, each byte in the array represents a single pixel.
16	The bitmap has a maximum of 2^{16} colors. If the <i>Compression</i> field of the bitmap file is set to BI_RGB, the <i>Palette</i> field does not contain any entries. Each word in the bitmap array represents a single pixel. The relative intensities of red, green, and blue are represented with 5 bits for each color component. The value for blue is in the least significant 5 bits, followed by

www.ece.ualberta.ca/~elliott/ee552/studentAppNotes/2003_w/misc/bmp_file_format/bmp_file_format.htm

2/3

2/23/23, 8:17 AM

THE BMP FILE FORMAT

	5 bits each for green and red, respectively. The most significant bit is not used. If the <i>Compression</i> field of the bitmap file is set to BI_BITFIELDS, the <i>Palette</i> field contains three 4 byte color masks that specify the red, green, and blue components, respectively, of each pixel. Each 2 bytes in the bitmap array represents a single pixel.
24	The bitmap has a maximum of 2^{24} colors, and the <i>Palette</i> field does not contain any entries. Each 3-byte triplet in the bitmap array represents the relative intensities of blue, green, and red, respectively, for a pixel.

Additional Info

Each scan line is zero padded to the nearest 4-byte boundary. If the image has a width that is not divisible by four, say, 21 bytes, there would be 3 bytes of padding at the end of every scan line.

Active
Ve a Co

