

Pixel Formats

This page contains a list of pixel formats which can be used with ImageJCV. The pixel formats define how to interpret the bits of each pixel of an image.

Values are defined by [FFmpeg](#) and are used by the ffmpeg streaming capabilities of the [video feature](#). Not all image functions work properly with all pixel formats!

Pixel formats

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AV_PIX_FMT_NONE = -1
AV_PIX_FMT_YUV420P = 0
AV_PIX_FMT_YUYV422 = 1
AV_PIX_FMT_RGB24 = 2
AV_PIX_FMT_BGR24 = 3
AV_PIX_FMT_YUV422P = 4
AV_PIX_FMT_YUV444P = 5
AV_PIX_FMT_YUV410P = 6
AV_PIX_FMT_YUV411P = 7
AV_PIX_FMT_GRAY8 = 8
AV_PIX_FMT_MONOWHITE = 9
AV_PIX_FMT_MONOBLACK = 10
AV_PIX_FMT_PAL8 = 11
AV_PIX_FMT_YUVJ420P = 12
AV_PIX_FMT_YUVJ422P = 13
AV_PIX_FMT_YUVJ444P = 14
AV_PIX_FMT_XVMC_MPEG2_MC = 15
AV_PIX_FMT_XVMC_MPEG2_IDCT = 16
AV_PIX_FMT_XVMC = 16
AV_PIX_FMT_UYVY422 = 17
AV_PIX_FMT_UYVYY411 = 18
AV_PIX_FMT_BGR8 = 19
AV_PIX_FMT_BGR4 = 20
AV_PIX_FMT_BGR4_BYTE = 21
AV_PIX_FMT_RGB8 = 22
AV_PIX_FMT_RGB4 = 23
AV_PIX_FMT_RGB4_BYTE = 24
AV_PIX_FMT_NV12 = 25
AV_PIX_FMT_NV21 = 26
AV_PIX_FMT_ARGB = 27
AV_PIX_FMT_RGBA = 28
AV_PIX_FMT_ABGR = 29
AV_PIX_FMT_BGRA = 30
AV_PIX_FMT_GRAY16BE = 31
AV_PIX_FMT_GRAY16LE = 32
AV_PIX_FMT_YUV440P = 33
AV_PIX_FMT_YUVJ440P = 34
AV_PIX_FMT_YUVA420P = 35
AV_PIX_FMT_VDPAU_H264 = 36
AV_PIX_FMT_VDPAU_MPEG1 = 37
AV_PIX_FMT_VDPAU_MPEG2 = 38
AV_PIX_FMT_VDPAU_WMV3 = 39
AV_PIX_FMT_VDPAU_VC1 = 40
AV_PIX_FMT_RGB48BE = 41
AV_PIX_FMT_RGB48LE = 42
AV_PIX_FMT_RGB565BE = 43
AV_PIX_FMT_RGB565LE = 44
AV_PIX_FMT_RGB555BE = 45
AV_PIX_FMT_RGB555LE = 46
AV_PIX_FMT_BGR565BE = 47
AV_PIX_FMT_BGR565LE = 48
AV_PIX_FMT_BGR555BE = 49
AV_PIX_FMT_BGR555LE = 50
AV_PIX_FMT_VAAPI_MOCO = 51
AV_PIX_FMT_VAAPI_IDCT = 52
AV_PIX_FMT_VAAPI_VLD = 53
AV_PIX_FMT_YUV420P16LE = 54
AV_PIX_FMT_YUV420P16BE = 55
AV_PIX_FMT_YUV422P16LE = 56
AV_PIX_FMT_YUV422P16BE = 57
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AV_PIX_FMT_YUV444P16LE = 58
AV_PIX_FMT_YUV444P16BE = 59
AV_PIX_FMT_VDPAU_MPEG4 = 60
AV_PIX_FMT_DXVA2_VLD = 61
AV_PIX_FMT_RGB444LE = 62
AV_PIX_FMT_RGB444BE = 63
AV_PIX_FMT_BGR444LE = 64
AV_PIX_FMT_BGR444BE = 65
AV_PIX_FMT_YA8 = 66
AV_PIX_FMT_Y400A = 66
AV_PIX_FMT_GRAY8A = 66
AV_PIX_FMT_BGR48BE = 67
AV_PIX_FMT_BGR48LE = 68
AV_PIX_FMT_YUV420P9BE = 69
AV_PIX_FMT_YUV420P9LE = 70
AV_PIX_FMT_YUV420P10BE = 71
AV_PIX_FMT_YUV420P10LE = 72
AV_PIX_FMT_YUV422P10BE = 73
AV_PIX_FMT_YUV422P10LE = 74
AV_PIX_FMT_YUV444P9BE = 75
AV_PIX_FMT_YUV444P9LE = 76
AV_PIX_FMT_YUV444P10BE = 77
AV_PIX_FMT_YUV444P10LE = 78
AV_PIX_FMT_YUV422P9BE = 79
AV_PIX_FMT_YUV422P9LE = 80
AV_PIX_FMT_VDA_VLD = 81
AV_PIX_FMT_GBRP = 82
AV_PIX_FMT_GBRP9BE = 83
AV_PIX_FMT_GBRP9LE = 84
AV_PIX_FMT_GBRP10BE = 85
AV_PIX_FMT_GBRP10LE = 86
AV_PIX_FMT_GBRP16BE = 87
AV_PIX_FMT_GBRP16LE = 88
AV_PIX_FMT_YUVA422P_LIBAV = 89
AV_PIX_FMT_YUVA444P_LIBAV = 90
AV_PIX_FMT_YUVA420P9BE = 91
AV_PIX_FMT_YUVA420P9LE = 92
AV_PIX_FMT_YUVA422P9BE = 93
AV_PIX_FMT_YUVA422P9LE = 94
AV_PIX_FMT_YUVA444P9BE = 95
AV_PIX_FMT_YUVA444P9LE = 96
AV_PIX_FMT_YUVA420P10BE = 97
AV_PIX_FMT_YUVA420P10LE = 98
AV_PIX_FMT_YUVA422P10BE = 99
AV_PIX_FMT_YUVA422P10LE = 100
AV_PIX_FMT_YUVA444P10BE = 101
AV_PIX_FMT_YUVA444P10LE = 102
AV_PIX_FMT_YUVA420P16BE = 103
AV_PIX_FMT_YUVA420P16LE = 104
AV_PIX_FMT_YUVA422P16BE = 105
AV_PIX_FMT_YUVA422P16LE = 106
AV_PIX_FMT_YUVA444P16BE = 107
AV_PIX_FMT_YUVA444P16LE = 108
AV_PIX_FMT_VDPAU = 109
AV_PIX_FMT_XYZ12LE = 110
AV_PIX_FMT_XYZ12BE = 111
AV_PIX_FMT_NV16 = 112
AV_PIX_FMT_NV20LE = 113
AV_PIX_FMT_NV20BE = 114
AV_PIX_FMT_RGBA64BE_LIBAV = 115
AV_PIX_FMT_RGBA64LE_LIBAV = 116
AV_PIX_FMT_BGRA64BE_LIBAV = 117
AV_PIX_FMT_BGRA64LE_LIBAV = 118
AV_PIX_FMT_YVYU422 = 119
AV_PIX_FMT_VDA = 120
AV_PIX_FMT_YA16BE = 121
AV_PIX_FMT_YA16LE = 122
AV_PIX_FMT_GBRAP_LIBAV = 123
AV_PIX_FMT_GBRAP16BE_LIBAV = 124
AV_PIX_FMT_GBRAP16LE_LIBAV = 125
AV_PIX_FMT_QSV = 126

AV_PIX_FMT_MMAL = 127
AV_PIX_FMT_D3D11VA_VLD = 128
AV_PIX_FMT_RGBA64BE = 291
AV_PIX_FMT_RGBA64LE = 292
AV_PIX_FMT_BGRA64BE = 293
AV_PIX_FMT_BGRA64LE = 294
AV_PIX_FMT_0RGB = 295
AV_PIX_FMT_RGB0 = 296
AV_PIX_FMT_0BGR = 297
AV_PIX_FMT_BGR0 = 298
AV_PIX_FMT_YUVA444P = 299
AV_PIX_FMT_YUVA422P = 300
AV_PIX_FMT_YUV420P12BE = 301
AV_PIX_FMT_YUV420P12LE = 302
AV_PIX_FMT_YUV420P14BE = 303
AV_PIX_FMT_YUV420P14LE = 304
AV_PIX_FMT_YUV422P12BE = 305
AV_PIX_FMT_YUV422P12LE = 306
AV_PIX_FMT_YUV422P14BE = 307
AV_PIX_FMT_YUV422P14LE = 308
AV_PIX_FMT_YUV444P12BE = 309
AV_PIX_FMT_YUV444P12LE = 310
AV_PIX_FMT_YUV444P14BE = 311
AV_PIX_FMT_YUV444P14LE = 312
AV_PIX_FMT_GBRP12BE = 313
AV_PIX_FMT_GBRP12LE = 314
AV_PIX_FMT_GBRP14BE = 315
AV_PIX_FMT_GBRP14LE = 316
AV_PIX_FMT_GBRAP = 317
AV_PIX_FMT_GBRAP16BE = 318
AV_PIX_FMT_GBRAP16LE = 319
AV_PIX_FMT_YUVJ411P = 320
AV_PIX_FMT_BAYER_BGGR8 = 321
AV_PIX_FMT_BAYER_RGGB8 = 322
AV_PIX_FMT_BAYER_GBRG8 = 323
AV_PIX_FMT_BAYER_GRBG8 = 324
AV_PIX_FMT_BAYER_BGGR16LE = 325
AV_PIX_FMT_BAYER_BGGR16BE = 326
AV_PIX_FMT_BAYER_RGGB16LE = 327
AV_PIX_FMT_BAYER_RGGB16BE = 328
AV_PIX_FMT_BAYER_GBRG16LE = 329
AV_PIX_FMT_BAYER_GBRG16BE = 330
AV_PIX_FMT_BAYER_GRBG16LE = 331
AV_PIX_FMT_BAYER_GRBG16BE = 332
AV_PIX_FMT_YUV440P10LE = 333
AV_PIX_FMT_YUV440P10BE = 334
AV_PIX_FMT_YUV440P12LE = 335
AV_PIX_FMT_YUV440P12BE = 336
AV_PIX_FMT_NB = 337
AV_PIX_FMT_GBR24P = 82