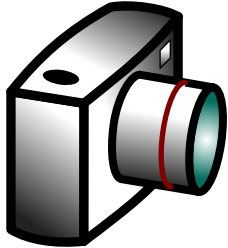


## Wide-format resolutions and file sizes



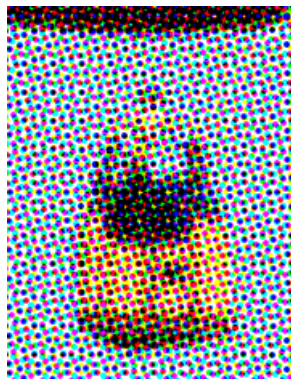
**Camera Mp x 3  $\approx$  file size in MB – RGB color**

*(Manufacturers cheat a little on resolution by overstating the useful megapixel count)*

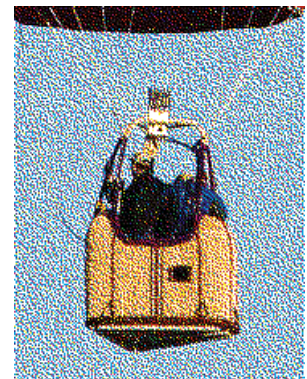
- **Wide-format ink-jet printer resolution  $\approx$  1,440 - 2,880 spi**
- **Traditional halftone frequency possible is  $\text{spi}/16 \approx$  90 - 180 lpi**
- **Traditional 2x rule-of-thumb for halftone images says that 180 - 360 ppi is needed**
- **Stochastic pattern imaging used by ink-jet devices allows for lower resolution than conventional halftones, so the multiplier can be considerably lower than 2**
- **180 - 225 ppi image resolution is usually more than adequate**



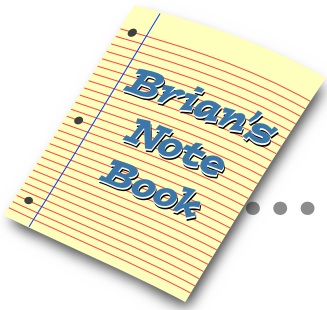
**Original image as pixels as viewed on computer display**



**Image as a conventional round-dot four-color halftone for a printing press**

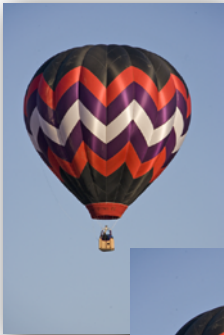


**Image as a stochastic-pattern four-color image results in better apparent detail**



## Wide-format resolutions and file sizes

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**Image Resolution: 48MB**  
**Pixel dimensions: 3328 x 4992**  
**Reproduction size for offset (300 ppi): 11.09 x 16.64 in.**



**Same image**  
**Reproduction size for ink-jet (2880 spi, 225 ppi): 14.79 x 22.19 in.**



**Same image**  
**Reproduction size for ink-jet (2880 spi, 180 ppi): 18.49 x 27.73 in.**

**Same image**  
**If viewing distance allows, the image can be enlarged to 3x the size of offset!**  
**Reproduction size for ink-jet (2880 spi, 100 ppi): 34.47 x 49.92 in.**  
**(visible artifacts will occur at this size)**