

DANE net

The Nonprofit Technical Round Table



Types of Digital Images (File Formats)

Image Size and Resolution

Image Editing Software

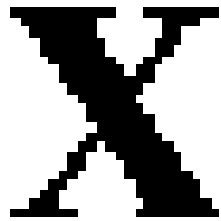
About Color



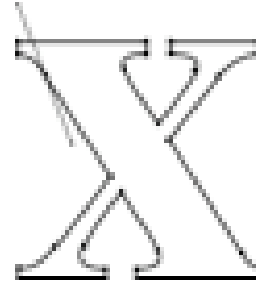
Editing Your Digital Images

Types of Digital Images (File Formats)

Raster or Vector?



raster



vector

Raster Files Types:

**TIFF, JPEG, GIF, BMP, PNG, PCX,
PICT**



Editing Your Digital Images

Types of Digital Images (File Formats)

BEST FOR PRINT: TIFF/TIF (Tagged Image File Format)

- widely accepted by print shops
- support millions of colors
- "loss-less" file compression
- large files

BEST FOR WEB IMAGES: JPEG (Joint Photographic Experts Group)

- support millions of colors
- default digital camera file format
- "lossy" file compression
- small, easy to email files

BEST FOR WEB LOGOS: GIF (Graphics Interface File)

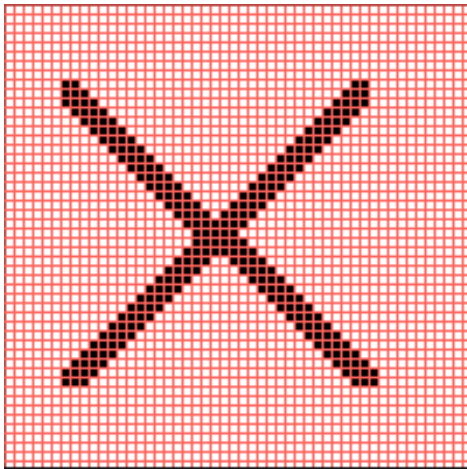
- support 256 colors
- very small files



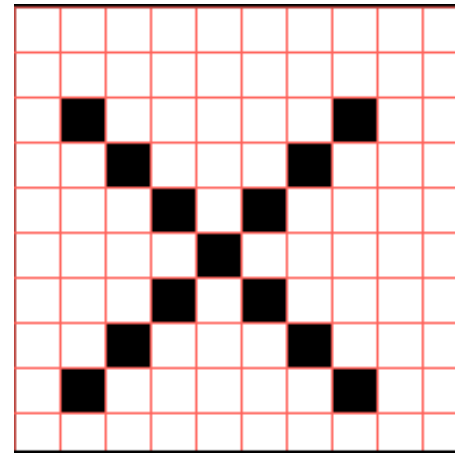
Editing Your Digital Images

Image Size and Resolution

INPUT - Pixel Per Inch (PPI)

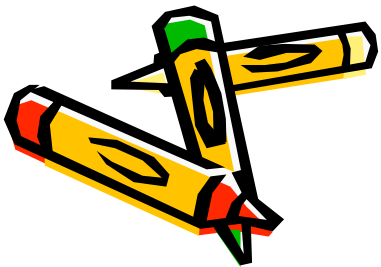


300 ppi



72 ppi

OUTPUT - Dots Per Inch (DPI)



Editing Your Digital Images

Image Size and Resolution

Print Images : 50ppi to 300ppi depending on output device and viewing distance

Example 1: HP wide format inkjet poster printer

optimal input resolution for 600dpi output = 150ppi

Example 2: Canon color laser copier

optimal input resolution for 400dpi output = 200ppi

Example 3: HP black & white laser printer

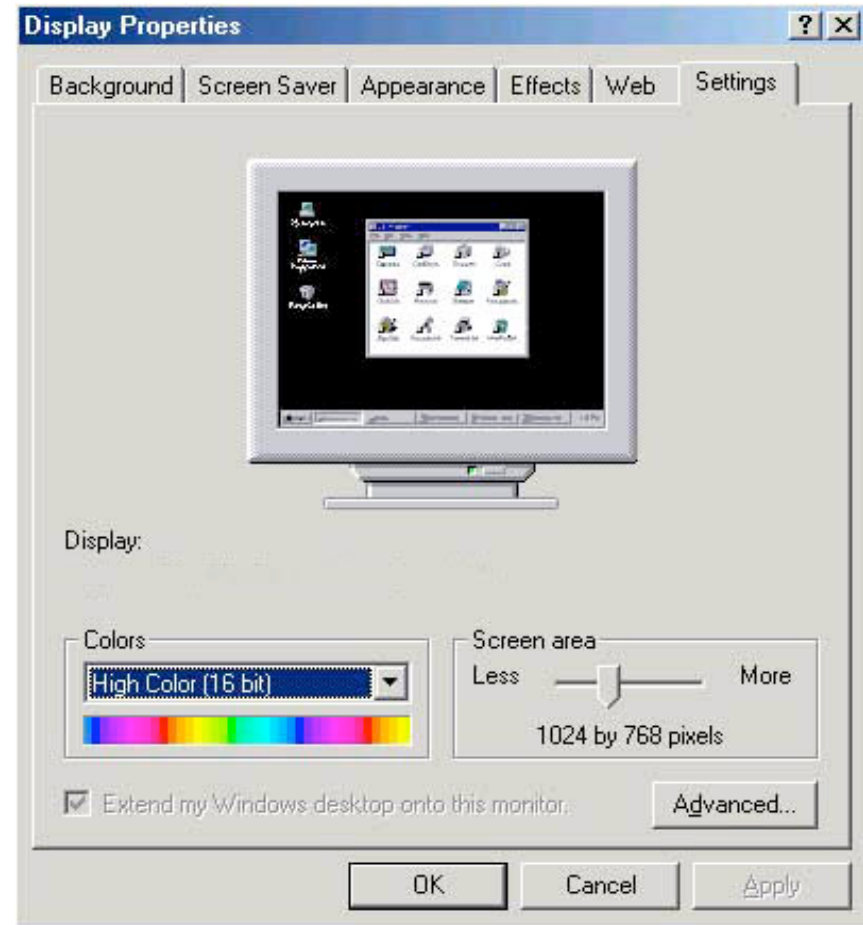
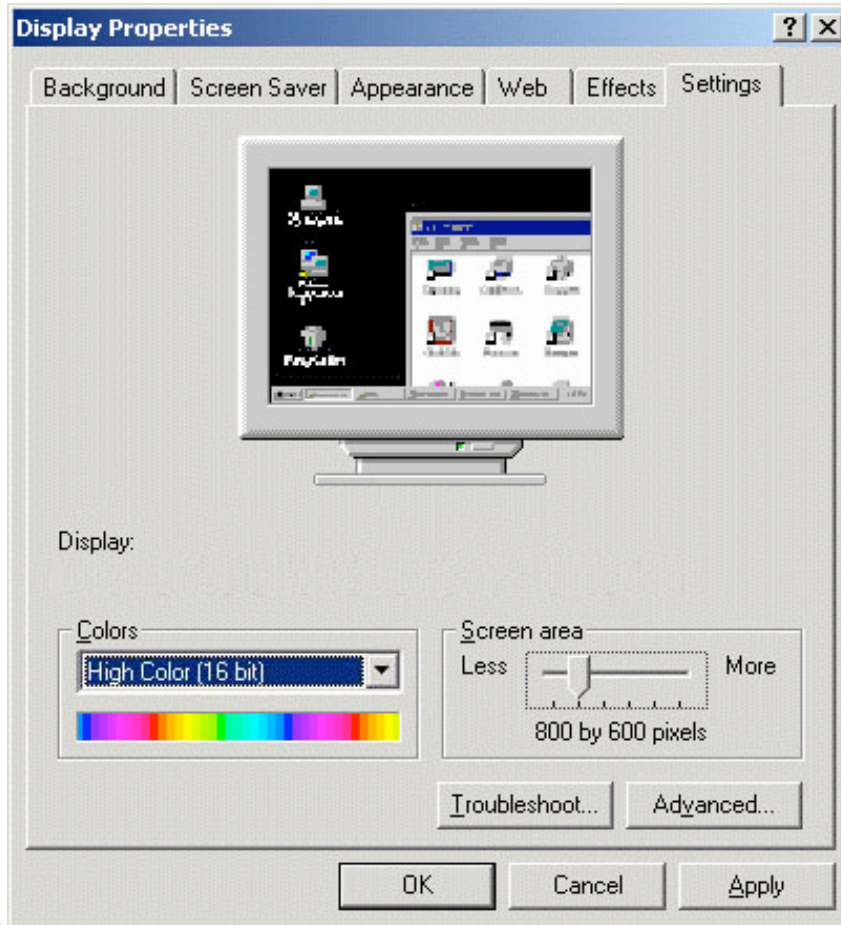
optimal input resolution for 600dpi output = 300ppi



Editing Your Digital Images

Image Size and Resolution

Web images: 72ppi to 96ppi



Editing Your Digital Images

Image Editing Software

Adobe Photoshop (www.adobe.com)

Photoshop CS2: \$600, Photoshop Elements: \$60 (Mac and Windows)

The GIMP (www.gimp.org)

GNU Image Manipulation Program - open source - FREE (Mac and Windows)

Picasa (www.picasa.com)

Picasa 2 from Google - FREE (Windows only)

iPhoto (www.apple.com)

part of iLife - \$79 or included with new Macs (Mac OS only)

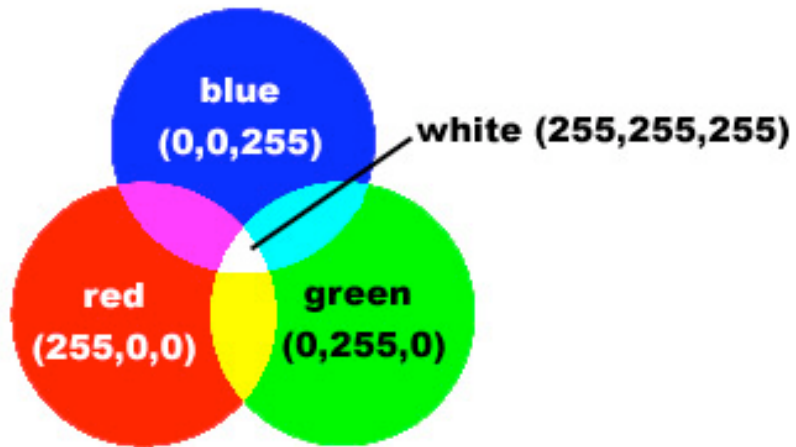


Editing Your Digital Images

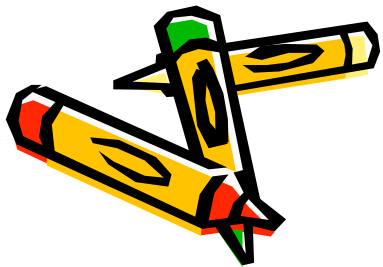
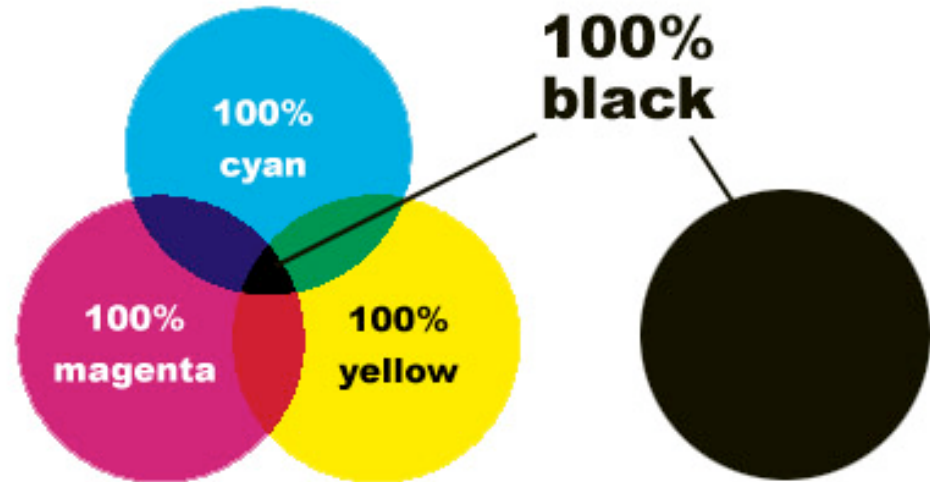
About Color

RGB vs. CMYK

RGB



CMYK



Editing Your Digital Images

About Color

RGB best for most digital images



RGB



CMYK

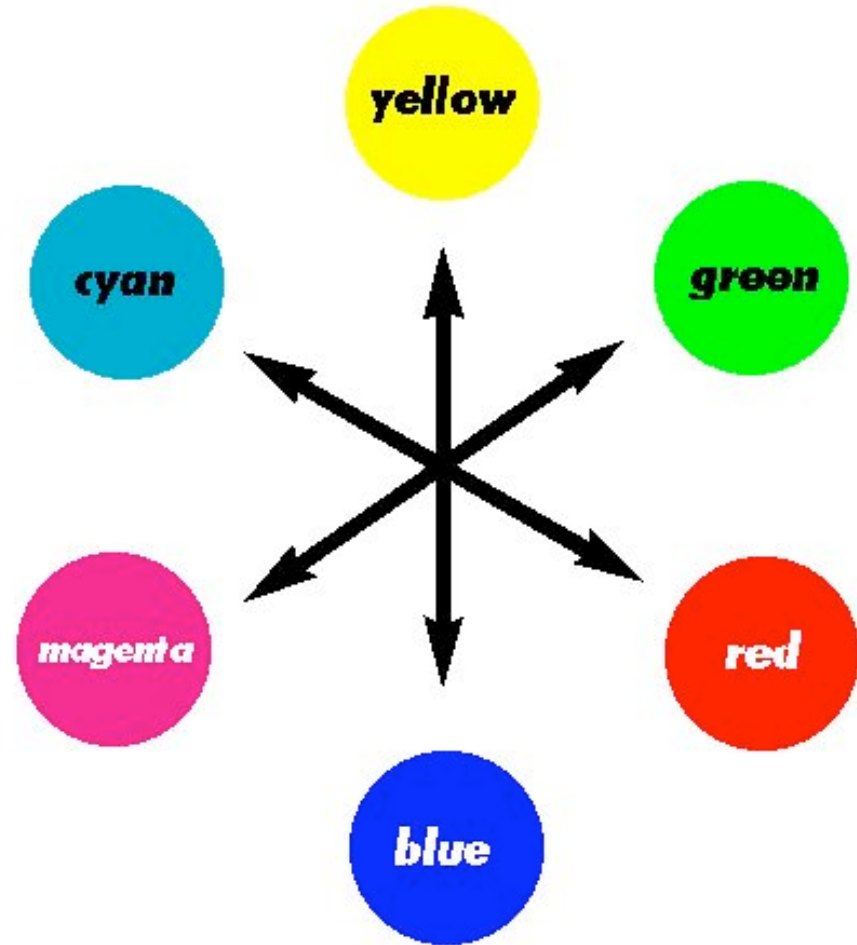
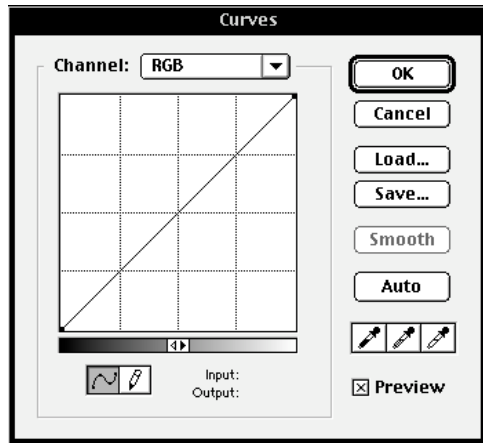
- RGB images are smaller compared to CMYK images
- RGB images contain more colors compared to CMYK images
- RGB is the default color space for digital cameras and scanners
- web browsers can only view RGB images



Editing Your Digital Images

About Color

How to adjust color



Editing Your Digital Images