

LANDSCAPE ARCHITECTURE ENGINEERING II

LA 312 : DEPARTMENT OF LANDSCAPE ARCHITECTURE

Scanning Procedure

1. Intro/Background
 - A. Scanners
 1. Scanners work on raster system based on a grid pattern of pixels or dots.
 2. DPI (dots per inch) in relationship to the file size of your scan. The number of pixels in your image (expressed as Megapixels or Kilopixels) dictates the file size. (Megabytes or Kilobytes).
 3. Enlargement Formula
 - a. A formula you can use to find the optimal resolution for desktop printing enlargements is:
 - b.
$$\text{Dpi Resolution} = \frac{\text{Final image width} \times 150 \text{ dpi / ppi}}{(\text{varies})\text{Original image width}}$$
 - c. 72,96 DPI Monitors and Projectors
 - d. 150, 300 DPI Plotting and Publishing
 - e. Prepare images for intended output. Label file name with Low Rez or High Rez
 - f. Understand Target DPI ex. 3"x 4" 150 DPI or 6"x 8" 300 DPI
 - B. General Rules
 1. Web site image 72-96 dpi(varies with monitor size); laser or inkjet documents B&W 150-300 dpi; Color 300-600 dpi
 2. TIFF file extensions (tagged image file format) are preferred when you save your scan because a TIFF format preserves image quality and reproduces color accurately in many programs. Tiffs are larger in size than JPEG, so always check the file size of your scan. (.giff, .png, .bmp, etc.)
 3. Use advanced/ professional settings for more control
 - C. Good Practice
 1. Never save directly to a flashdrive
 2. Save to desktop first
 3. Always preview and assess your scan quality
 4. After scanning clean up scan in Photoshop
 - D. Scanning Locations
 1. Late night scanning
 - a. Bracken Library open till 3 a.m.
 - b. Same scanner as CAP Library
 2. CAP Library Scanners (5)
 - a. max size 11"x17"
 - b. optical resolution 600x1200
 - c. color depth 48 bit
 - d. larger format, does color well
 - e. if B&W trouble Adjust Thresholds
 - f. Utilize Histogram and adjust channel/massing
 3. AB221
 - a. size 8.5"x14" or 11"x 17"
 - b. optical resolution 75-600 dpi or 600x 1200
 - c. Quick Wizard format (Poor Quality but Fast)

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- d. Context sensitive
4. CRC
 - a. 42" by any
 - b. Software
 - c. Large Format, Does Color well
 - d. .35 cent per foot
 - e. only has 100,200, 300 DPI
 - f. jpegs not compatible
 - g. CRC hours, ask assistant for best results

E. Printers & Plotters

1. Know output capabilities
2. HP 4500s & 5500s, 600 DPI
3. Printers in CAP are 300-600 DPI

F. Media Settings

1. Pencil Drawings = Greyscale
2. Line Drawings = B&W
3. Color = Millions, don't use color document

G. Saving

1. jpeg= compressed image
2. tiff= uncompressed image
3. pdf= compressed document