

Intro to Web Design and Computer Principles

CSCI-UA 4 005

3:30 PM - 4:45 PM

Professor Sarah Dahnke



Background Images

background-repeat:

- repeat: The background image will be repeated both vertically and horizontally. This is default
- repeat-x: The background image will be repeated only horizontally
- repeat-y: The background image will be repeated only vertically
- no-repeat: The background-image will not be repeated

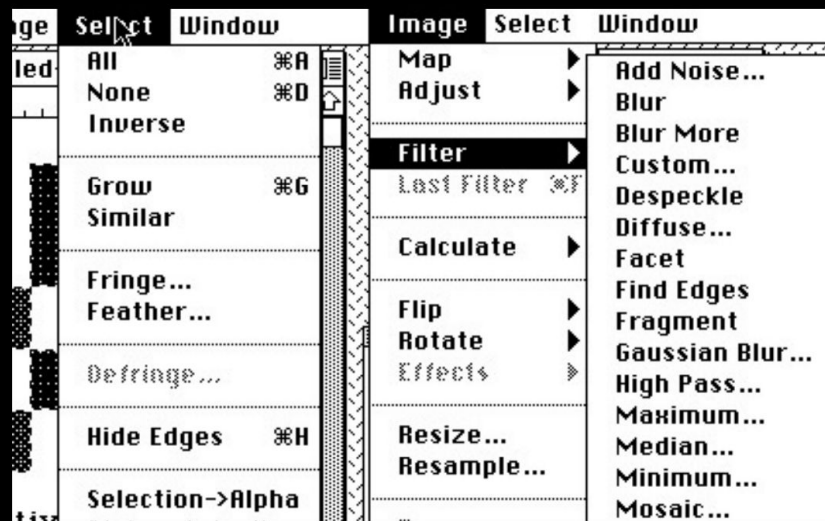
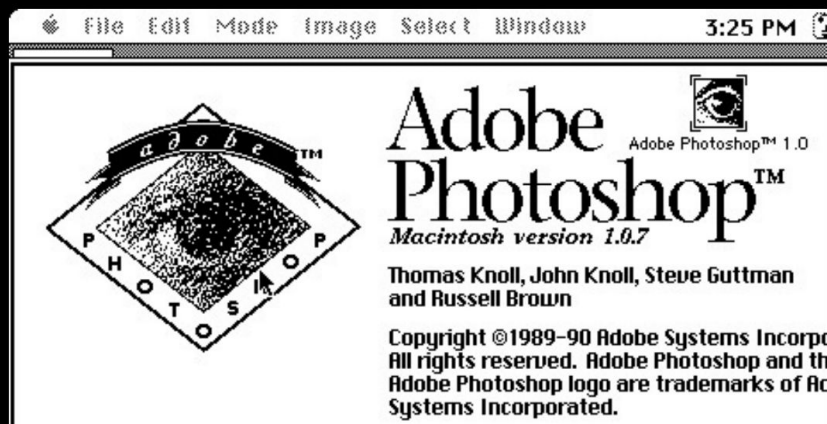


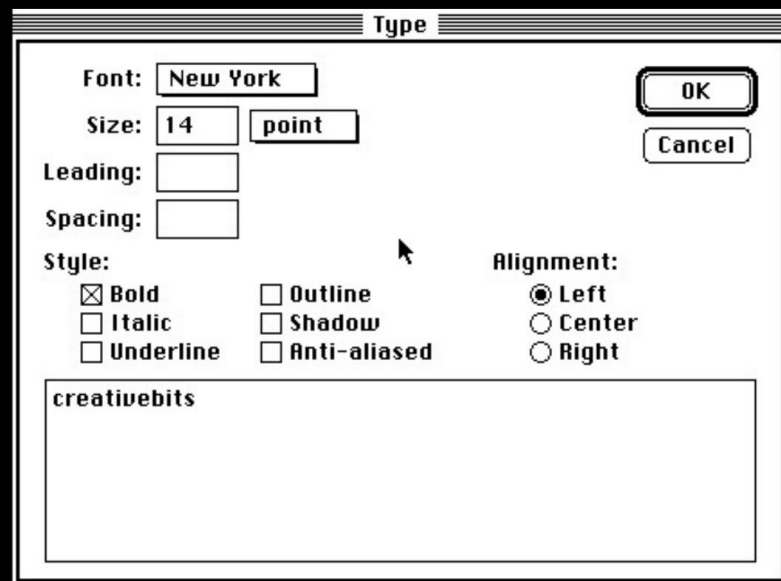
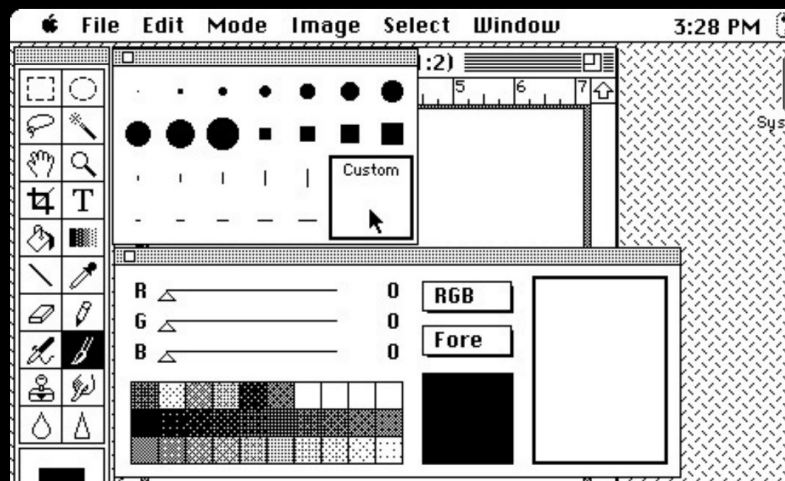
Intro to Image Editing



History of Photoshop

- Created by Thomas Knoll, then a PhD student at the University of Michigan
- Originally called “Display”
- For displaying grayscale images, scanned into a computer
- Acquired by Adobe in 1988
- Released as Photoshop 1.0 for Macintosh in 1990







Bitmap/raster graphics

- A grid of picture elements, “pixels,” each of which contain color and brightness information
- Pixels can be changed individually or as a group with program algorithms
- Contrast vector graphics which describe points and lines
- Layer support introduced in version 3 (c. 1993)

VECTOR



I HAVE SHARP EDGES

VS.

BITMAP



I AM FUZZY



Raster vs. Bitmap Explained



Image Resolution



Resolution refers to the amount of pixels in an image, or the amount of detail an image holds.

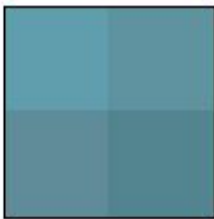
Often identified by the width and height of the image. Example: 1920 x 1080



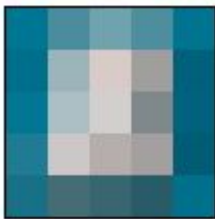
1 × 1



2 × 2



5 × 5



10 × 10



20 × 20



50 × 50



100 × 100





Resolution and Monitors

Larger screens usually have larger resolution.

Enormous images may have too many pixels per inch to be viewable without scrolling.



Image Compression

Uncompressed images contain all the pixels included in the original.

Uncompressed file formats: .bmp or .tiff



Image Compression, con't

- Compression allows the file size to shrink but also reduces the amount of detail.
- .Jpg or .jpeg is a compressed file format but can utilize low or high compression. High compression makes a drastically smaller file size but lower quality image (larger loss of detail).





Layer-based Image Editing

- Simply a picture that can be superimposed on another image
- Layers can have transparency or opacity



Intro to Photoshop

Allows to edit images, change size, collage

Creative Cloud:

<http://www.adobe.com/creativecloud.html>



Free Alternative to Photoshop

<https://www.gimp.org/>



Homework

Check out the Photoshop tutorials:

<https://helpx.adobe.com/photoshop/tutorials.html>

Lynda.com has Photoshop tutorials (free for NYU students):

<https://www.nyu.edu/life/information-technology/help-and-service-status/training-and-workshops/lynda-com.html>