FOUNDATIONS of DIGITAL ART and DESIGN

Section 2 Notes
PHOTOGRAPHY LOOSELY TRANSLATES TO
“Drawing with light”

It is an art form that developed at the intersection of science and technology
The Brownie camera was one of the first snapshot technologies, developed in the early 1900s
The process of creating a photograph is the opposite of drawing vector graphics:

- Drawing is an additive process (elements are added to an otherwise blank canvas)
- Photography is subtractive (point your lens at the world and contain your vision within the frame)
Photographs (whether captured by a digital camera or scanned) are made of pixels.

Digital photographs are bitmap files.

Adobe Photoshop is the application primarily used for editing bitmap files.
PIXELS ARE FINITE

- A pixel is a single unit of color
- Pixels are sampled from source material
- The number of pixels “captured” directly relates to the file size of the bitmap image
Bitmap images are not infinitely scalable!
ZONE SYSTEM (Chapter 5)

- Ansel Adams and Fred Archer developed the zone system.
- The system is an 11-step scale to pre-visualize and delineate the tonal scale in an image.
- The zone system starts at ZONE 0 (black) and ends at ZONE X (white).