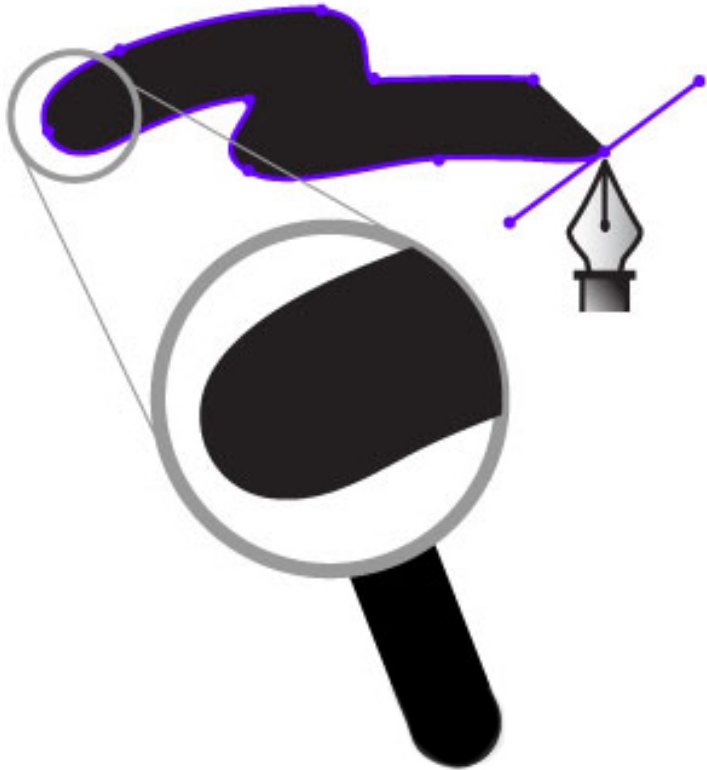# INTRODUCTION TO VECTOR GRAPHICS

Adobe Illustrator

2 TYPES OF GRAPHICS

Vector

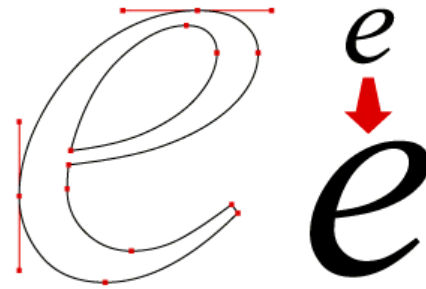drawing with vectors

Bitmap

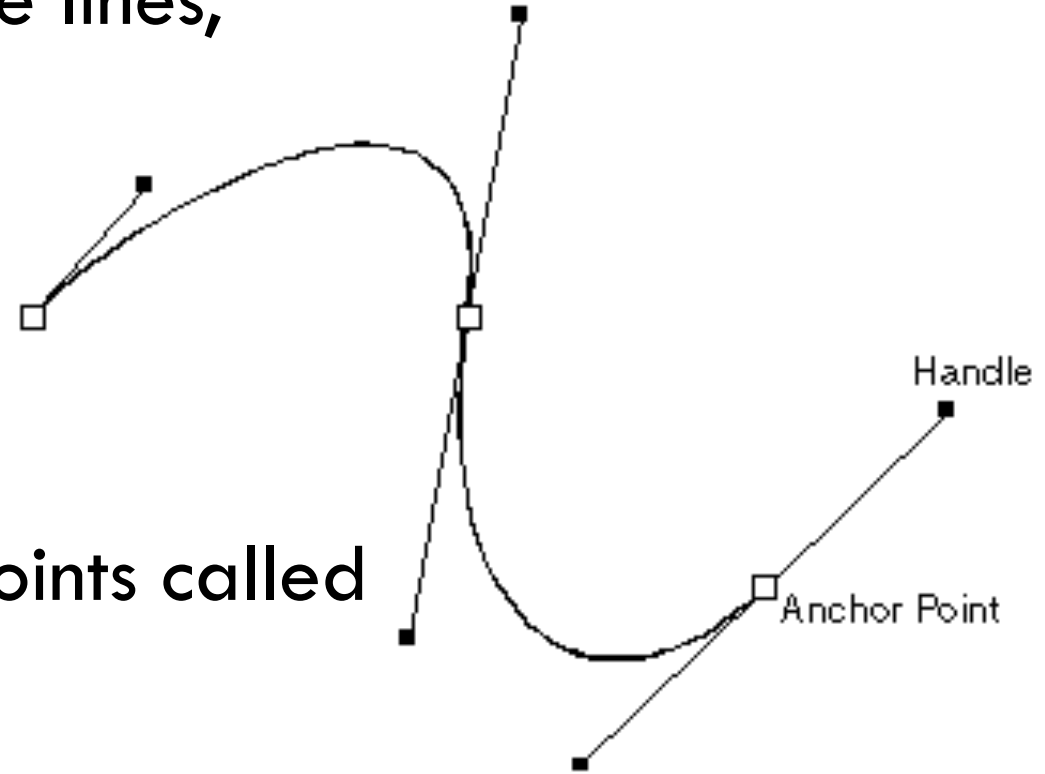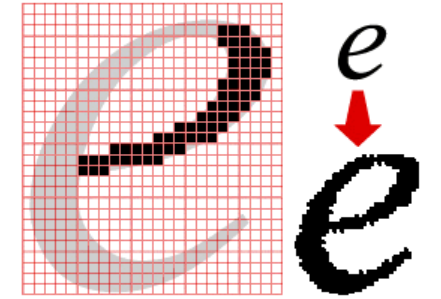painting with pixels

EXAMPLES OF VECTOR ART

VECTOR GRAPHICS

- Vector graphics are created from mathematical formulas used to define lines, shapes, and curves

- Best for Large Scale printing

- Edited in Drawing programs
  - ex. Adobe Illustrator or CorelDraw

- Shapes can be edited by moving points called nodes or drawing points

Handle

Anchor Point

USES OF VECTOR GRAPHICS

- Logos

- Icons

- Web Graphics

- Print Projects

- Cartoons/Clip Art

- Fonts

WHY USE VECTOR GRAPHICS?

- Small File Size
  - Easily transferred via the internet

- Resolution Independent
  - No matter how much you scale a vector graphic up or down, the quality of your graphic stays clear and sharp

DISADVANTAGES OF VECTOR

- Not good for Photographic images

- Lower color quality that raster images
  - Don't support as many colors

VECTOR FILE FORMATS

- .AI – Adobe Illustrator
  - Industry standard file type used to develop vector graphics, contains layers

- EPS – Encapsulated Postscript
  - Vector graphic format that can be opened by any computer running different software and/or versions
  - Can be edited
  - Preferred format for logos and illustrations