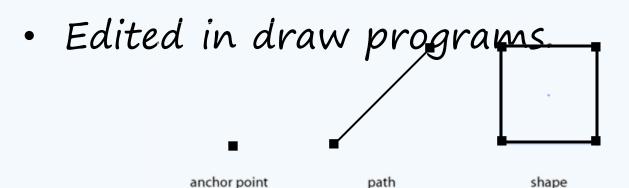


Vector Graphics

- Graphics that are based on mathematical formulas that define lines, shapes, and curves.
- Are comprised of paths connected by anchor points.
- · Can be 2D or 3D.



Examples





Resized Image



Shapes that make up the image.

Uses of Vector Graphics

- · Graphics that will be scaled (or resized)
- Architectural drawings, CAD programs, flow charts.
- Logos that will be scaled (resized) with loss of quality.
- · Illustrations and clip art.
- Graphics on websites.
 - Small file size allows for quick load times.
- Fonts and specialized text effects

Advantages of Vectors

- Scalable able to change size easily
 - Resolution Independent Regardless of how much the image is enlarged or reduced, the image definition and quality remain the same.
- Editability since each vector is made up of separate and distinct objects, each can be edited independently at any time.
- Small File Sizes easily transferred over the Internet.

Disadvantages of Vectors

- Lower color quality than raster images.
 - · They do not support as many colors.
 - Not good for photographic images.
- Limited in the type of effects that can be applied.
- · Can be time consuming to create.

Common Vector File Formats

- Al Adobe Illustrator
 - Native file format for Adobe Illustrator.
 - Industry standard used by developers of vector graphics.
 - · Used to create, save, and archive original artwork.

Common Vector File Formats

- EPS Encapsulated Postscript
 - Developed by Adobe but supported by most programs.
 - Graphics developers generally save a copy of the AI file in EPS format because it can be opened by computers running different operating systems.
 - Most common interchange format for the print industry due to its portability.
 - Meta Graphic can contain both raster and vector data.
 - Shapes in vector graphics can be filled with textures and patterns that are raster graphics.

Common Vector File Formats

- SVG Scalable Vector Graphics
 - Standard format created by W3C.
 - · Versatile, all-purpose vector format.
 - · Works well with web page design.
- WMF Windows Metafile
 - Microsoft created format for raster and vector.
 - Common format for windows clipart.