Vector vs Raster Graphics

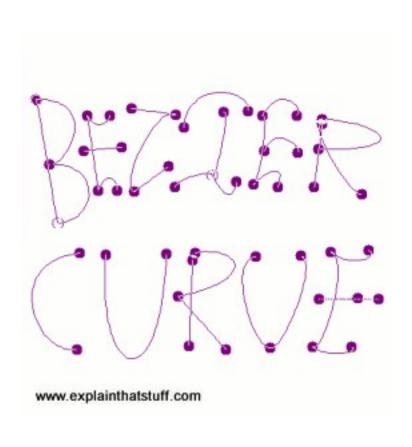


Vector Graphics

Raster Graphics

Vector Graphics

= Geometrical (mathematical) representation





Raster Graphics

= Rectangular grid of colored elements



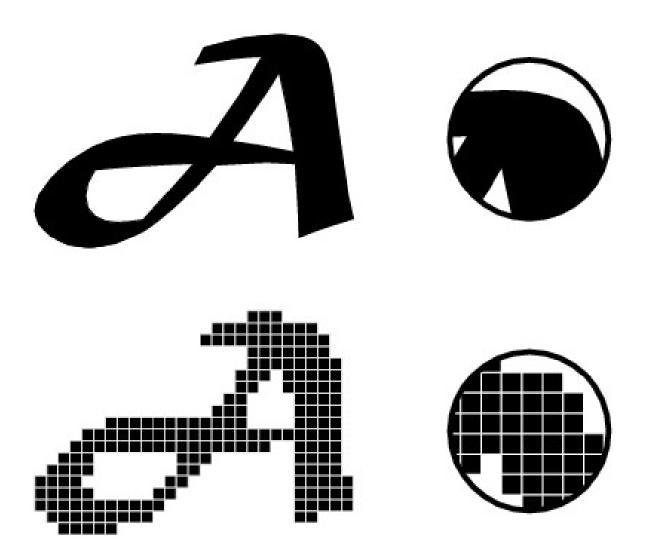


VECTOR VS RASTER

Style



Zoom



Arbitrary Content

- Vector graphics is hard to make
 - General
 - Fast on hardware

- Raster graphics is hard
 - To edit meaningufully
 - To store efficiently



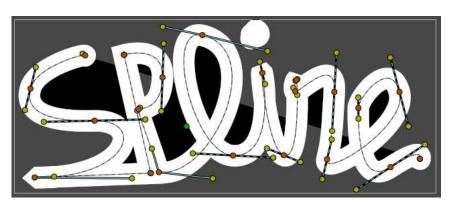


Vector Graphics is used by Software

True Type Fonts

Illustrator

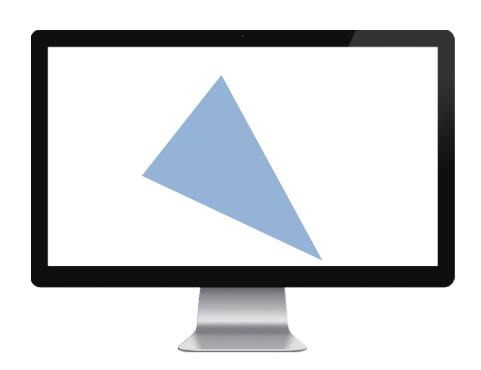
Maya

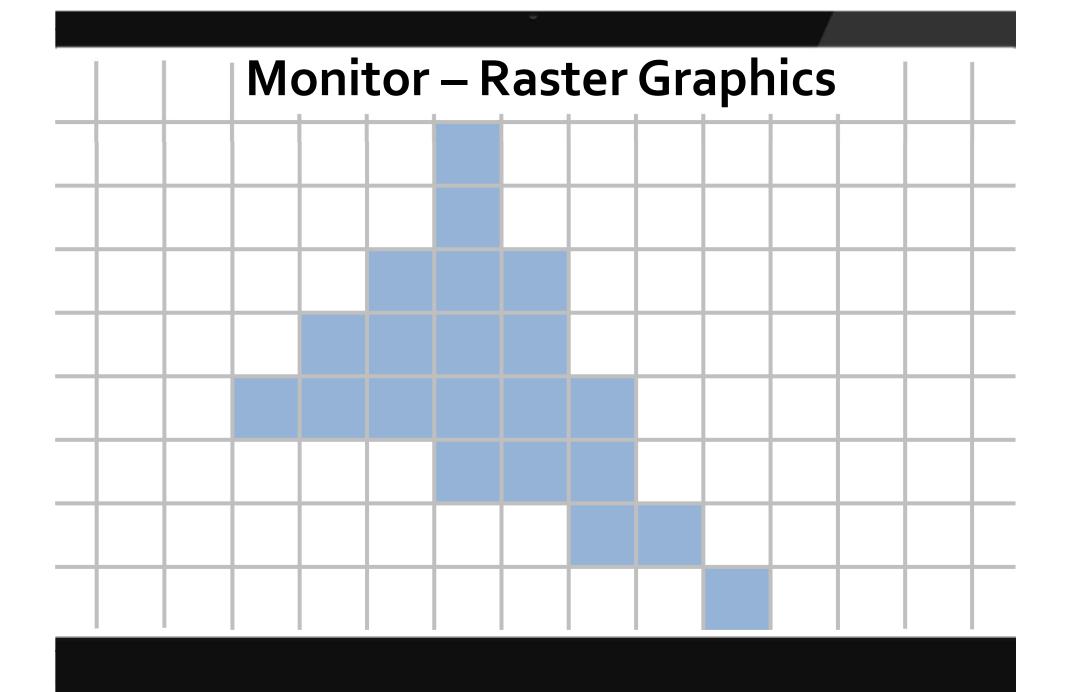






Monitor – Vector or Raster Graphics?





Raster Graphics is used by Hardware

- Monitor
- Handy
- TV
- Digicam
- Printer
- Scanner
- VR/AR
 - Google Glass
 - Holo Lens
- Mouse
- •









Why is it used by hardware?

- Easy and cheap to produce
- Very fast
- Arbitrary content





From Software to Hardware

Conversion from Vector Graphics into Raster Graphics



