

# Vector vs Raster Graphics



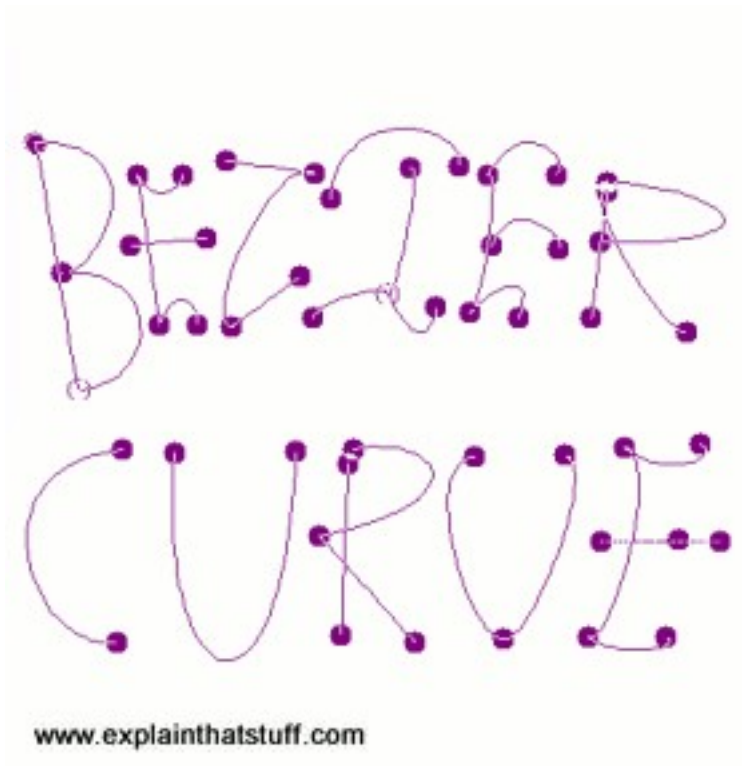
Vector Graphics



Raster Graphics

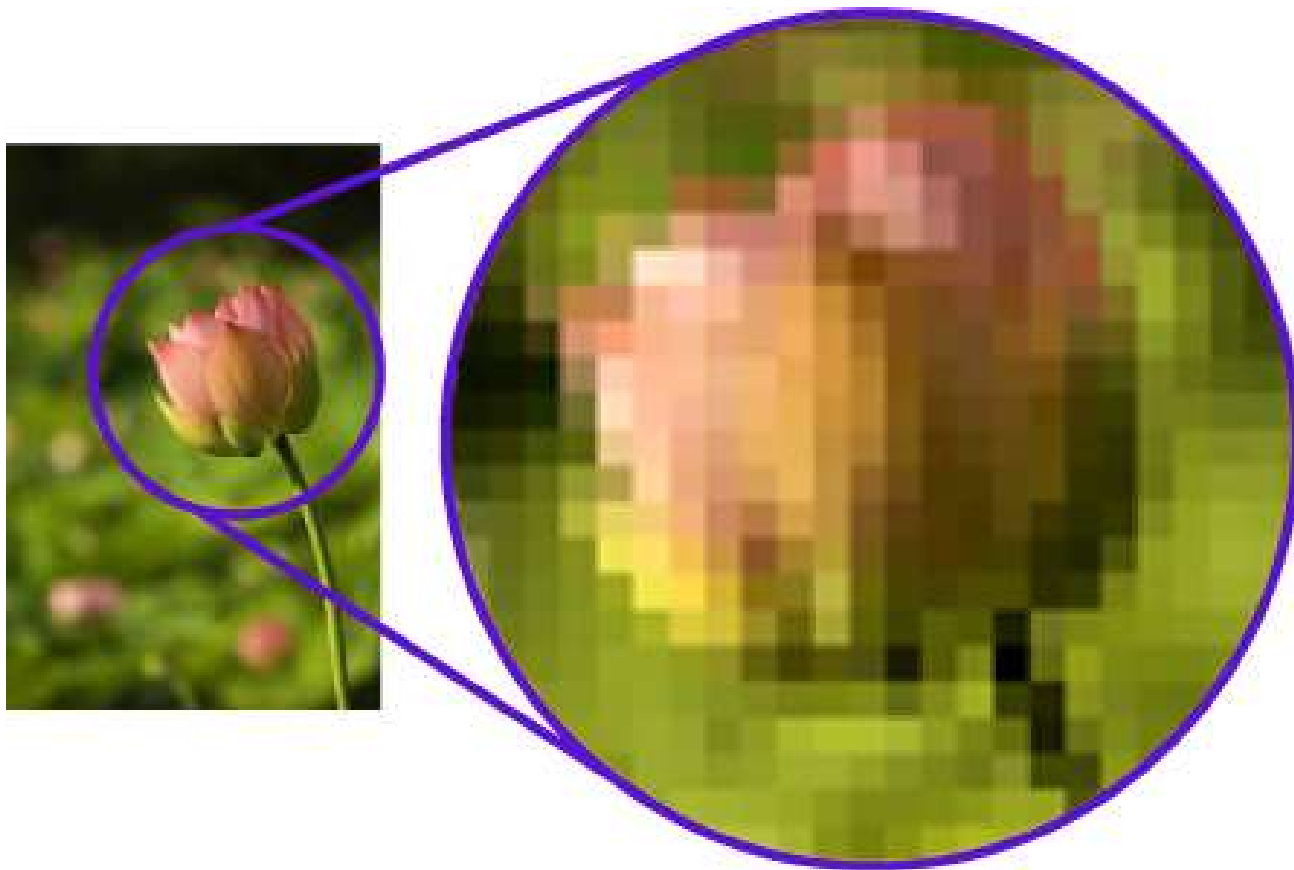
# Vector Graphics

= Geometrical (mathematical) representation



# Raster Graphics

= Rectangular grid of colored elements



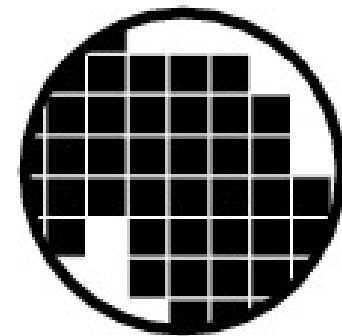
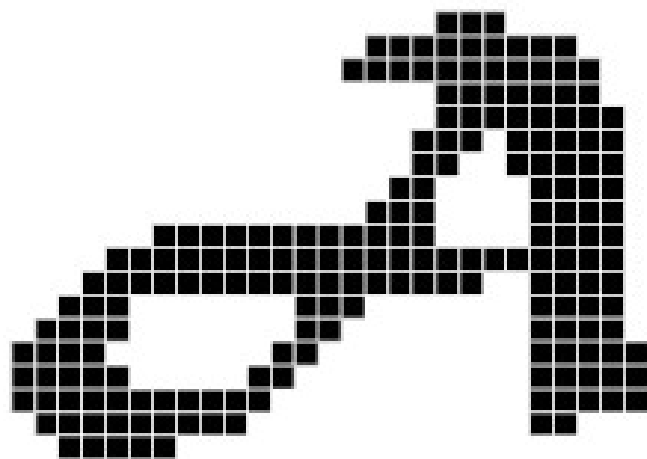
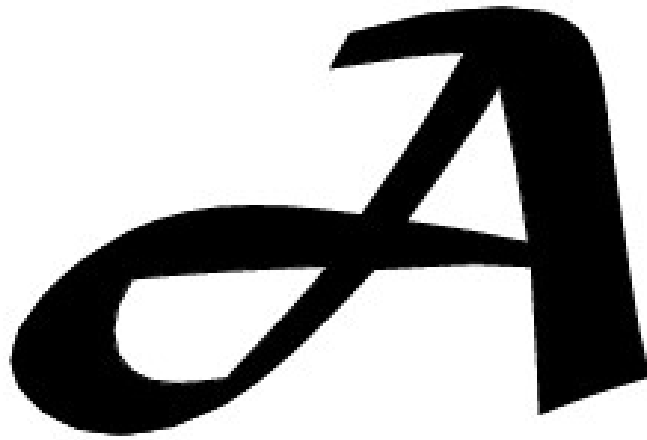


**VECTOR** **VS** **RASTER**

# Style



# Zoom



# Arbitrary Content

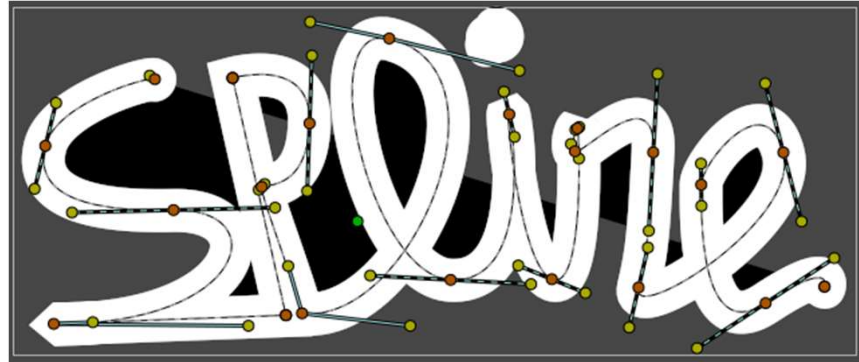
- Vector graphics is hard to make
  - General and fast
- Raster graphics is hard
  - To edit meaningfully
  - To store efficiently





# Vector Graphics is used by Software

- True Type Fonts



- Illustrator

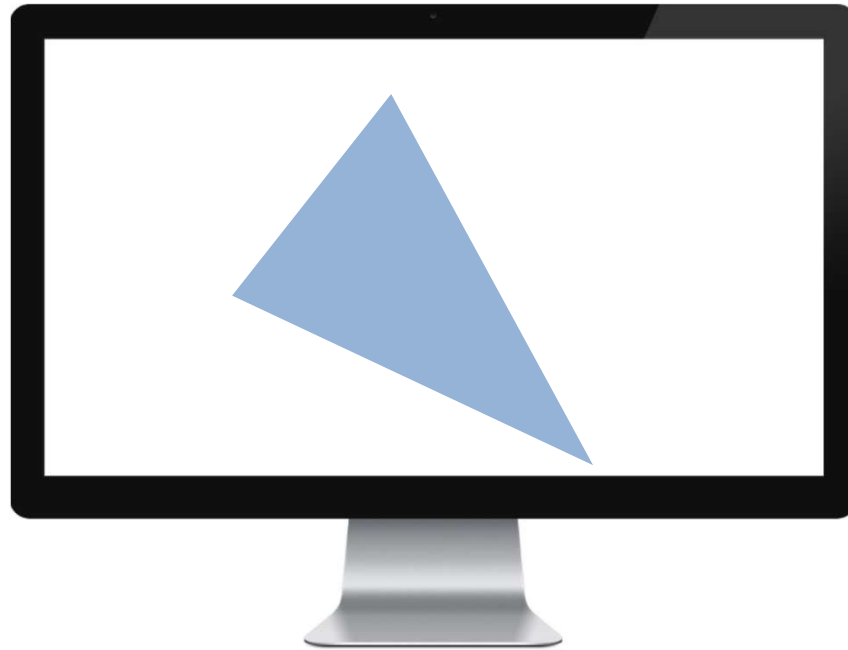


- Maya





# Monitor – Vector or Raster Graphics?



Downloaded from <http://ajph.org/> on November 10, 2015



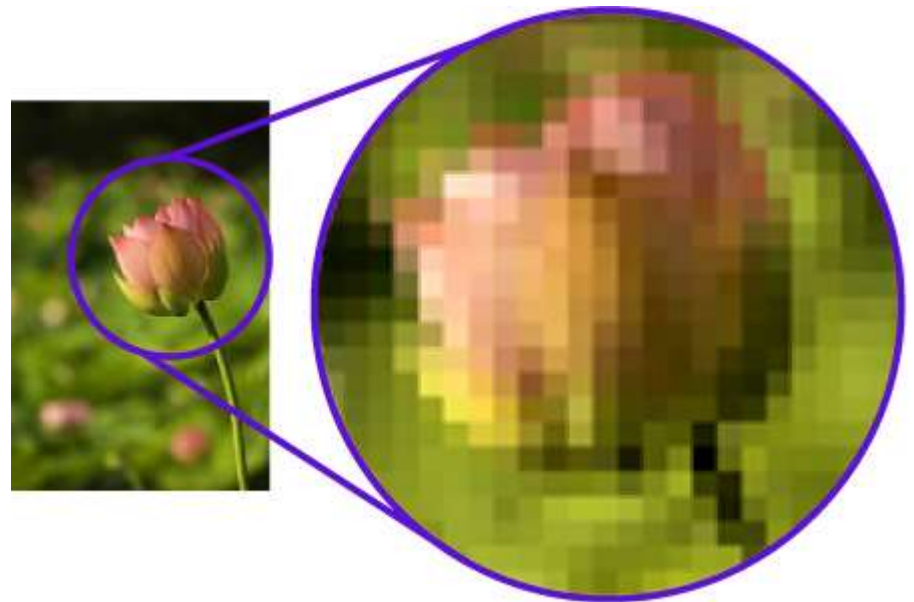
# Raster Graphics is used by Hardware

- 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



Rasterisation

