

Vector Graphics

Vector graphics are made up of objects.

The objects are created using mathematical equations based on a number of key points joined together with lines, shapes and/or polygons.

The equations to build the objects are stored within the graphics file.

Vector Graphics



This differs from Bitmap graphics where information is stored on each Pixel.

A bitmap is made up of a set number of pixels mapped onto a grid. When a bitmap is enlarged the number of pixels increases but the detail from the original image remains the same.

This can lead to **pixilation** of an image and a loss of detail.

Vector Graphics



Because Vector graphics store the equations rather than the pixel by pixel information they can be enlarged with much less loss of quality.

This makes vector graphics an excellent choice when creating a graphic (such as a logo).

The original can be resized and then turned into an appropriate format for final use.

Vector Graphics



Vector graphics require specialised software to produce.

Adobe Illustrator is a pro-level package we have available.

A standard file format for Vector graphics objects is **SVG**

Vector Graphics



Make sure you understand the differences between Vector and Bitmap graphics.

[BBC Bitesize](#) (GCSE level but a good summary)

[Wikipedia Vector graphics](#) (complex...)

[Wikipedia Vector graphic formats](#)

[Wikipedia Vector graphics software](#)