

Working with Images

Bitmap v Vector

BITMAP

- Image information held as a grid of pixels
- 'Resolution dependent'

VECTOR

- Image information held as scalable co-ordinates
- 'Resolution Independent'

BITMAP



I AM FUZZY

VECTOR



I HAVE SHARP EDGES

VS.

Bitmap Resolution

- Resolution means the pixel dimensions of the image.
- The higher the resolution, the larger the file size
- Better to start with a larger image and reduce it's size



600x600
55KB



300x300
29KB



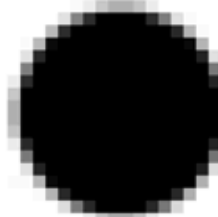
150x150
20KB



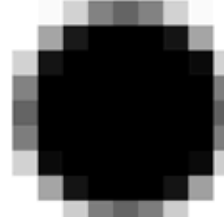
72x72
15KB



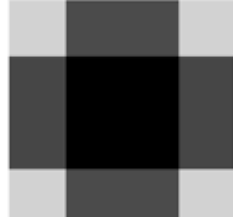
36x36
13KB



18x18
12KB



9x9
11KB



4x4
11KB

Resolution



200 pixels - enlarged



2000 pixels - reduced

Image File Formats

Vector

- EPS
- AI
- SVG
- EMF

Bitmap

- JPG
- PNG
- GIF
- TIFF

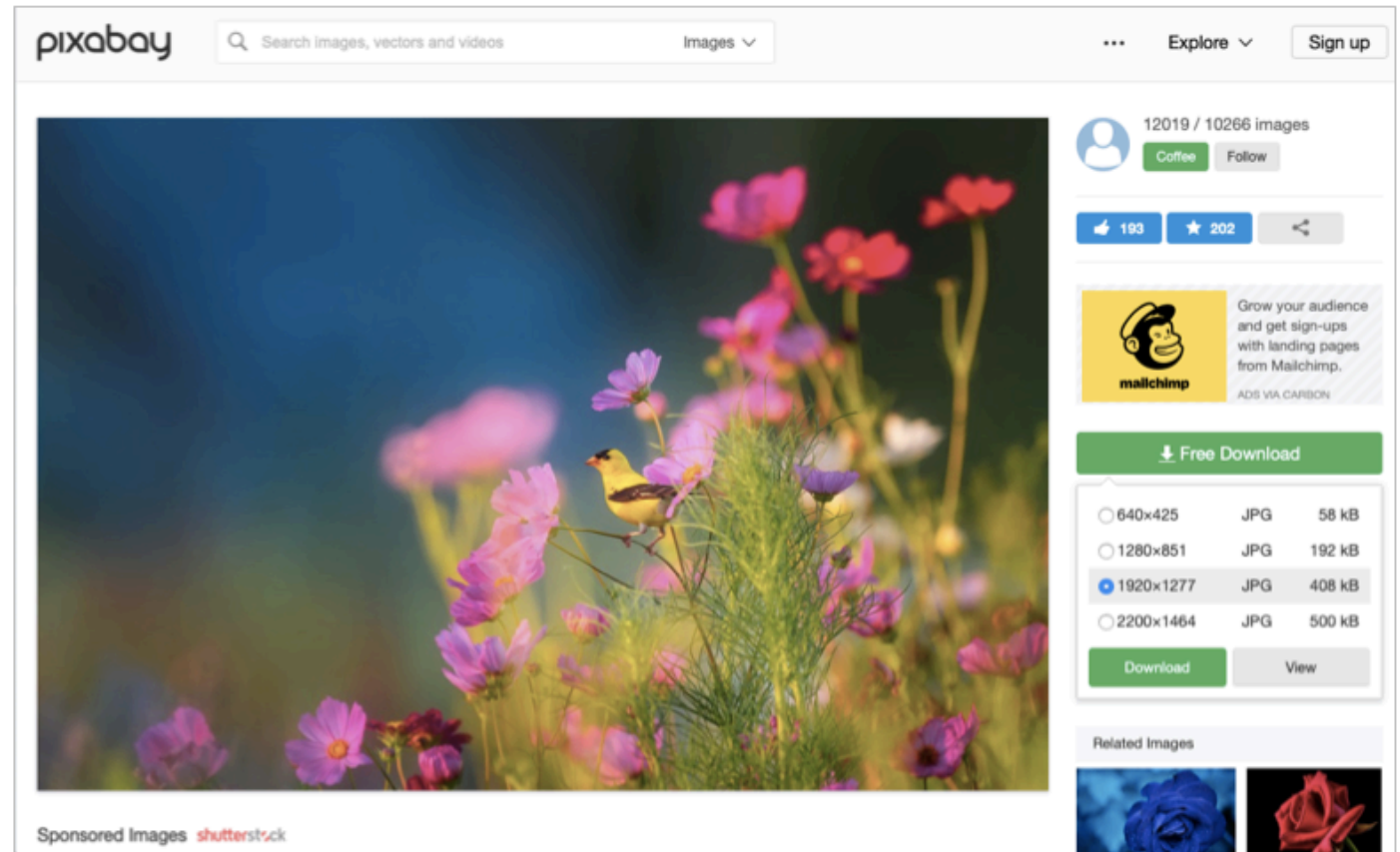


IMAGE FILE FORMATS



Image Resources

- Internet Search
- Create your own image assets
- Paid for Image Libraries
 - Istockphoto.com
 - Shutterstock.com
 - Adobe Stock Images
- Free Image Libraries
 - Unsplash.com
 - Pixabay.com



The screenshot shows the Pixabay website interface. At the top, there is a search bar with the text "Search images, vectors and videos" and a dropdown menu set to "Images". The Pixabay logo is on the left. The main content area features a large image of a yellow bird perched on a pink flower. To the right of the image, there is a user profile for "Coffee" with 12019 / 10266 images, a "Follow" button, and engagement metrics (193 likes, 202 stars). Below this is an advertisement for Mailchimp. A "Free Download" button is prominently displayed. A table of download options is shown, with the 1920x1277 resolution selected. At the bottom, there are "Download" and "View" buttons, and a "Related Images" section with two small image thumbnails.

pixabay Search images, vectors and videos Images ... Explore Sign up

12019 / 10266 images
Coffee Follow

193 202

malchimp Grow your audience and get sign-ups with landing pages from Mailchimp. ADS VIA CARBON

Free Download

<input type="radio"/>	640x425	JPG	58 kB
<input type="radio"/>	1280x851	JPG	192 kB
<input checked="" type="radio"/>	1920x1277	JPG	408 kB
<input type="radio"/>	2200x1464	JPG	500 kB

Download View

Related Images

Sponsored Images shutterstock

Copyright Considerations

- Taking images from the web
- Copyright permissions (who controls the copyright)
- Getting permission if necessary
- Public Domain
 - Expired copyright
 - Content created by the government or some official body (is public property)
 - Public domain resources listed on Wikipedia

