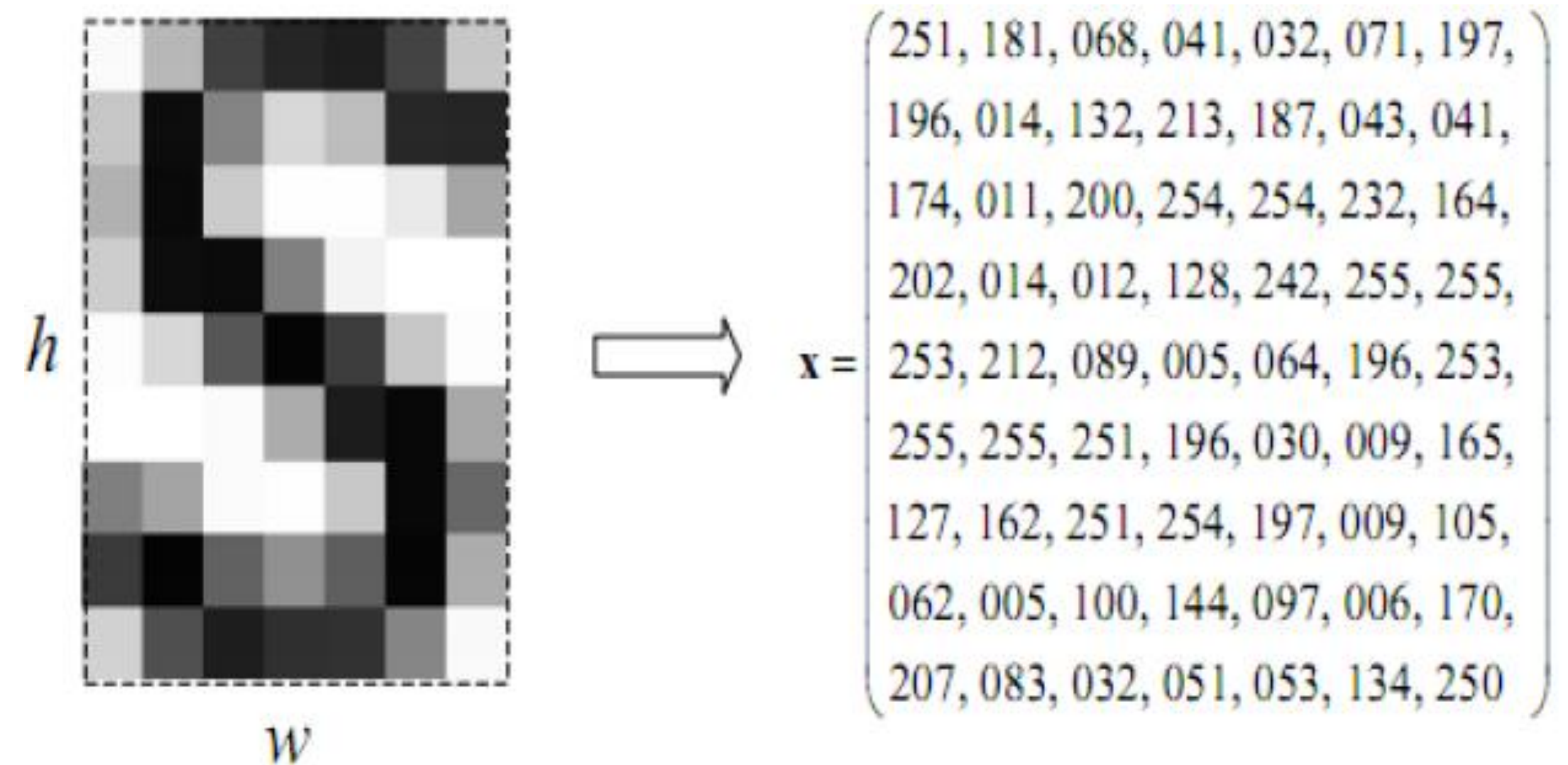


# Image data

## Representing greyscale images

- Greyscale images can be represented as a 2-dimensional array of pixel (ie. light) intensity

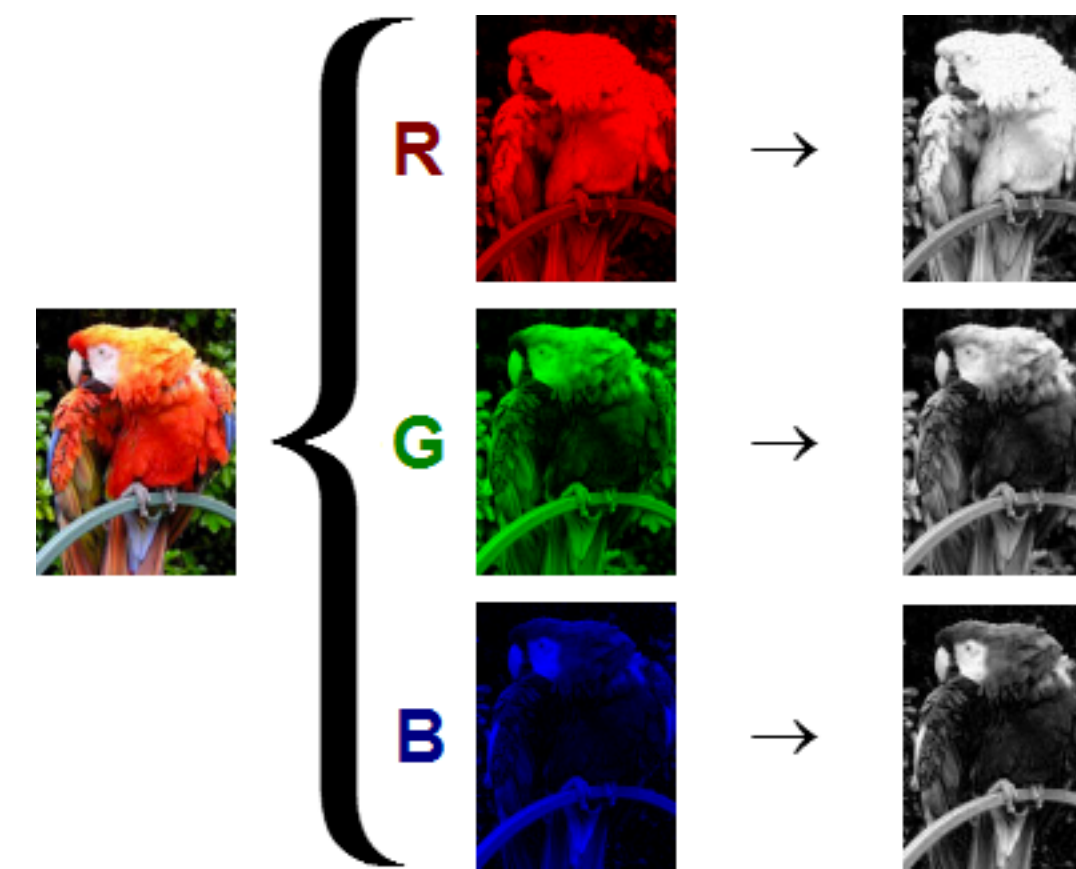


[https://www.researchgate.net/figure/The-pixel-matrix-feature-extraction-method\\_fig2\\_284003940](https://www.researchgate.net/figure/The-pixel-matrix-feature-extraction-method_fig2_284003940)

# Image data

## Representing coloured images

- Similarly, coloured images can be represented by decomposing the Red/Green/Blue light intensity
  - Extract the RGB channel light intensity as three individual 2-dimensional array
  - Concatenate the three arrays into a 3D dimensional array, with the third dimension representing the RGB channels



[https://upload.wikimedia.org/wikipedia/commons/5/56/RGB\\_channels\\_separation.png](https://upload.wikimedia.org/wikipedia/commons/5/56/RGB_channels_separation.png)