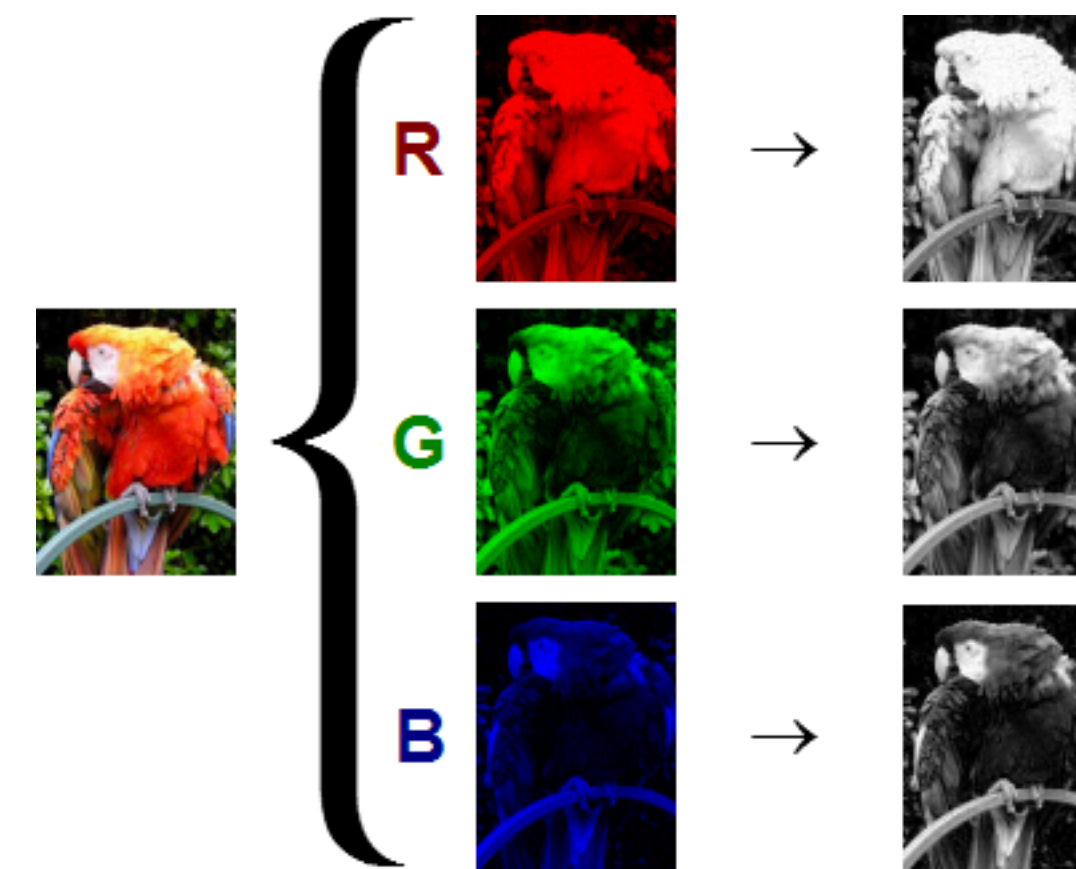


Image data

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

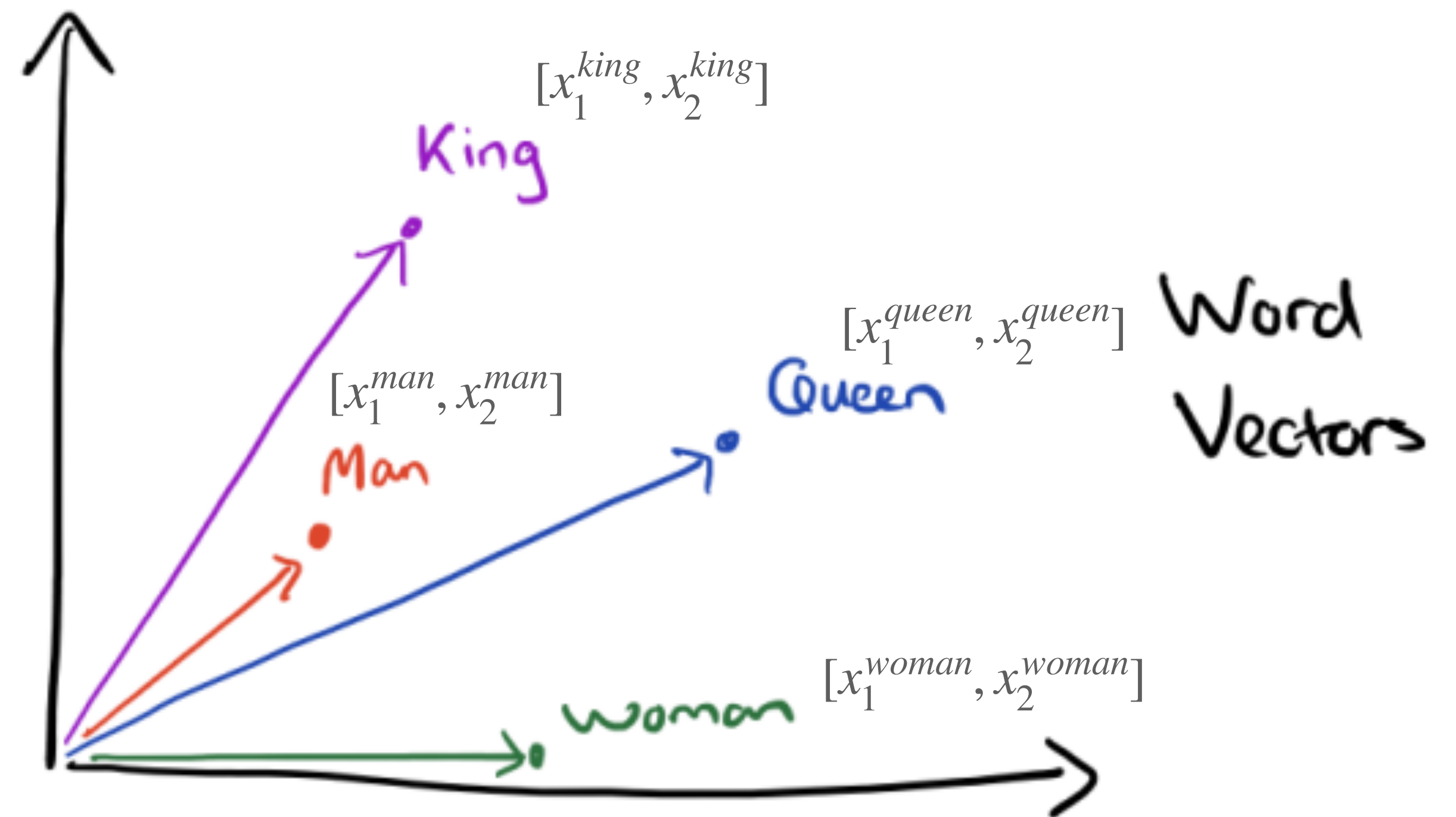


https://upload.wikimedia.org/wikipedia/commons/5/56/RGB_channels_separation.png

Language data

Representing words

- Words can be represented as n -dimensional vectors (eg. 2-dimensional vector of $[x_1, x_2]$)
- Vectors preserve “word-to-word” relationships
- $v^{king} - v^{queen} \approx v^{man} - v^{woman}$



<https://www.depends-on-the-definition.com/guide-to-word-vectors-with-gensim-and-keras/>