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1 This algorithm calculates the luminance of a pixel.

Algorithm 1 Luminance

Require:

A colour defined as a tuple of integers in 8-bit RGB format such that:

$$0 \le c_{0..2} \le 255$$

Ensure:

The luminance:

L

$$L \leftarrow \frac{\sum_{i=0}^{2} c_i}{3}$$