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1 This algorithm converts an image into a greyscale version

Algorithm 1 Greyscale

Require:

an image, *image*, with N channels, c
 $0 \leq c_{0..N} \leq 255$

```
1: procedure GREYSCALE(image)
2:   for  $x = 0, \text{width}, y = 0, \text{height}$  do
3:      $c \leftarrow \text{pixel}(x, y)$ 
4:      $c_{0..N} \leftarrow \frac{\sum_{i=0}^N c_i}{N}$ 
5:      $\text{pixel}(x, y) \leftarrow c$ 
6:   end for
7: end procedure
```
