POSTERIZATION

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1 This algorithm reduces the colours within an image. Multiple conditions might be required.

Algorithm 1 Posterization

Require:
  a channel value, $0 \leq c_{0..2} \leq 255$
  a replacement value, $0 \leq r \leq 255$
  a minimum threshold, $0 \leq t_{min} \leq 255$
  a maximum threshold, $0 \leq t_{max} \leq 255$
1: **procedure** POSTERIZATION(t, c, r)
2:   **for** $x = 0$, width, $y = 0$, height **do**
3:     $c \leftarrow$ pixel(x, y)
4:     **if** $t_{min} \leq c_0 \leq t_{max}$ **then**
5:       $c_0 \leftarrow r$
6:       pixel(x, y) $\leftarrow c$
7:     **end if**
8:   **end for**
9: **end procedure**