# Contrast stretching and gamma correction

Michel Donnet

January 15, 2024

### Contrast stretching: formula

$$T[r] = \frac{255 \text{ (new dynamic range)}}{H - L \text{ (old dynamic range)}} (r - L)$$

## Contrast stretching: example

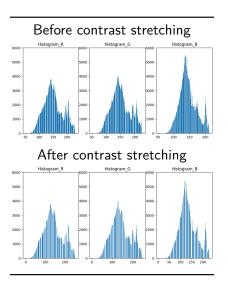
Before contrast stretching

After contrast stretching





#### Contrast stretching: histograms



## Gamma correction: formula

$$T[r] = cr^{\gamma}$$

## Gamma correction: example





