Explain and exemplify the example of contrast stretching and gamma correction. Where do we use these operations in practice?

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#### Contrast stretching: formula

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

### Contrast stretching: example

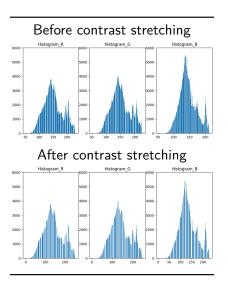
Before contrast stretching

After contrast stretching





#### Contrast stretching: histograms



### Gamma correction: formula

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

## Gamma correction: example







# Contrast stretching example

