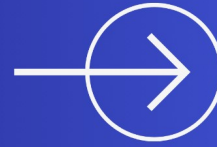# Applying Blur Filters: Average, Gaussian, Median

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Blurring is a technique which reduces the sharp transitions in an image by averaging pixel values in a local neighborhood.

Blurring → Reducing noise

Blurring → Smoothing images

Blurring

Average Blur → Each pixel in the output image is the average of the surrounding pixel values within the kernel window.

Gaussian Blur → Gaussian Blur uses a weighted average, where pixels closer to the center have more influence. This produces a smoother and more natural blur.

Median Blur → Median Blur replaces each pixel with the median of the surrounding pixels, effective at removing salt-and-pepper noise.