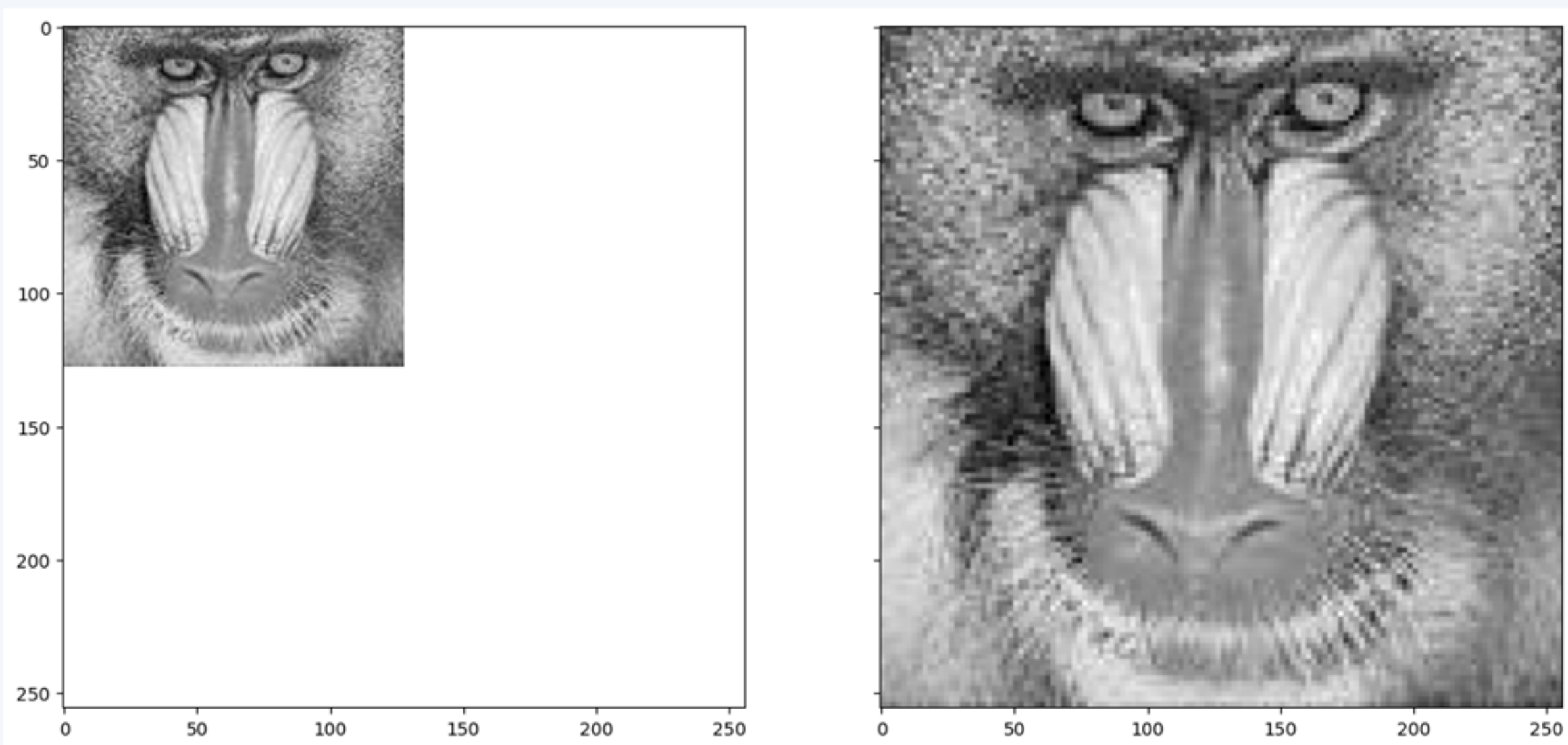


DIGITAL IMAGE PROCESSING

Image interpolation *Curious about Image Resizing and Zooming Techniques?*



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02

Applications

1. Resizing
2. Zooming
3. Cropping
4. Rotation and Transformation
5. Texture Mapping
6. Image Registration

03

How?

- Image interpolation is a technique used to generate new pixel values within an image from its existing set of pixels. When increasing the size of an image, interpolation methods are applied to estimate the values of additional pixels, effectively stretching the image to a larger dimension. Conversely, when decreasing the size of an image, interpolation is utilized to condense the image by removing pixels or averaging multiple pixels into one.
- The process of image interpolation typically involves various algorithms such as nearest-neighbor interpolation, bilinear interpolation, bicubic interpolation, and more advanced techniques like Lanczos resampling.

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