

Gray-level slicing is a technique used in image processing to highlight certain intensity levels in an image. There are two types of gray-level slicing:

1. Gray-level slicing with background:

- In this method, the pixels within a specific intensity range are highlighted, while the rest of the image remains unchanged.
- This is useful when you want to focus on specific features while keeping the background intact.

2. Gray-level slicing without background:

- In this method, only the pixels within the specified intensity range are highlighted, and the rest of the image is set to a constant value like black or white.
- This is useful when you want to isolate specific features and remove all other details from the image.

Both methods involve selecting a range of intensity values and applying a transformation to the image based on those values.