mage Zooming

1) Reducing

- new value is veighted pum of nearest neighbours - new value equals nearest neighbour

2) Enlarging

- new value is exeighted sum of nearest neighbours - add noise to obscure pixelation

mage resampling problem

When doing a rotation with a sine or cosine, on integer value is not always produced, no the output pixel may be non-integer. How do vie notice this?

- apply the transformation in reverse, transform the image then take the nearest neighbour values of the source image (before transformation)

- nearest neighbour interpolation, simply round (x, y) to the nearest neighbour (nearest integer pixel) value and use this as the output

- bilinear interpolation, takes a veighted sum of the four nearest neighbours to (x,y). The values of the four neighbours are excighted inversely by their distance from (x, y). Needs more computation that simple nearest neighbour interpolation but results in a more visually appealing image where jagged effects are reduced

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