PROJECT WALL-E

**Resizing image:**

**Greyscale conversion:**

* Computational efficiency
* Many algorithms (like Canny edge detection) work on single channel images

**Gaussian blur:**

* Reduces image noise and detail by averaging neighbouring pixels
* Improves edge detection

Src = source image (numpy array)

Kernel size – higher k size, more blurring

sigmaX – controls horizontal blur (usually zero)

sigmaY – controls vertical blur (usually zero)

**Canny edge detection:**

* Computes intensity gradients, keeps only the sharpest points

Src – source image

Threshold1 - lower threshold

Threshold2 – upper threshold

apertureSize – higher🡪smoother gradients