**low-pass filter and which is high-pass filter**

**Low pass filter:**

A low pass filter is the basis for most smoothing methods. An image is [smoothed](https://www.l3harrisgeospatial.com/docs/smoothimages.html) by decreasing the disparity between pixel values by averaging nearby pixels. Using a low pass filter tends to retain the low frequency information within an image while reducing the high frequency information.

Apply blurring to the image is an example of Low Pass filter.

**High pass filter:**

A high pass filter is the basis for most sharpening methods. An image is [sharpened](https://www.l3harrisgeospatial.com/docs/sharpenimages.html) when contrast is enhanced between adjoining areas with little variation in brightness or darkness. A high pass filter tends to retain the high frequency information within an image while reducing the low frequency information

Applying sharpening to the image and applying an edge detection filter to the image are examples of High Pass filter.