Data Science Laboratory 1

Lab 7 Practical Challenges

- Create a 512×512 2D array (an image) containing Gaussian noise with some μ and σ. Add this noise to an existing image and output the results. Calculate the number of pixels that exceed values of 3σ. Confirm that this is consistent with what would be expected using the probability distribution function. Write out a greyscale PNG image where $> 3\sigma$ 'detections' are set to 1 and 0 elsewhere.

Remember: use GitHub to maintain your code!