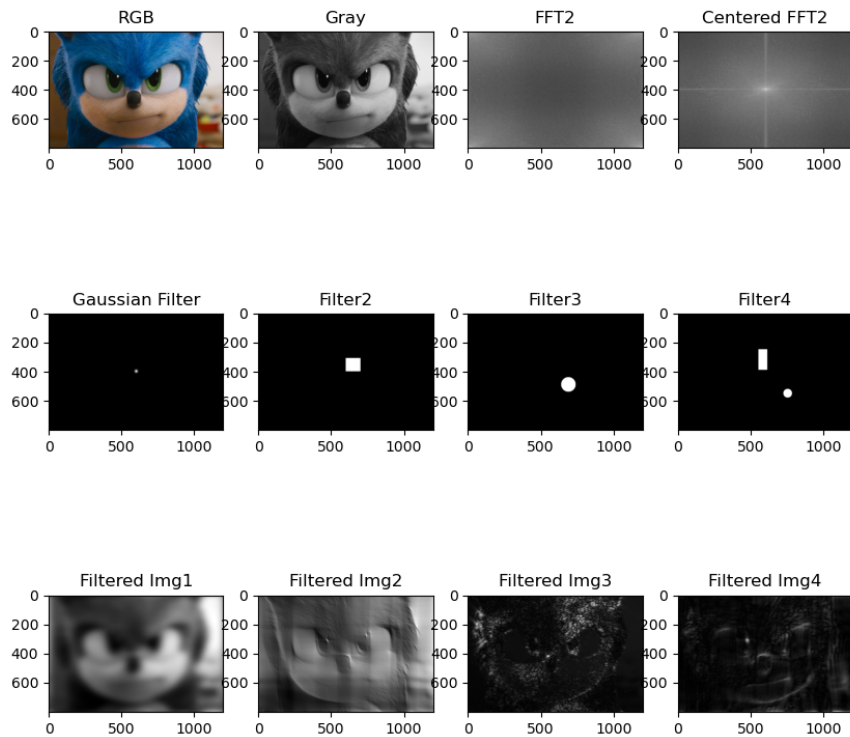# Assignment 11

ID: 1810476144

14.08.2021

1 Analysis

After using 4 different filters on our image using Fourier transform, we got this.

Filter1:

Here we can see the in the fft output, all the low frequencies are in center. So when we applied a low pass blurry centered mask/filter to this, we got a Gaussian blur image.

Filter2:

When we applied a crisp almost centered mask/filter to this, we got a blur with boxy filtered image.

Filter3:

As we have high frequency components outside the middle. So when we applied a high pass circular mask/filter to this, we got a near to edge detection image.

Filter4:

Here we used a band pass filter and passing for both low and high frequency. Hence, we are getting both blurry and edgy image.