

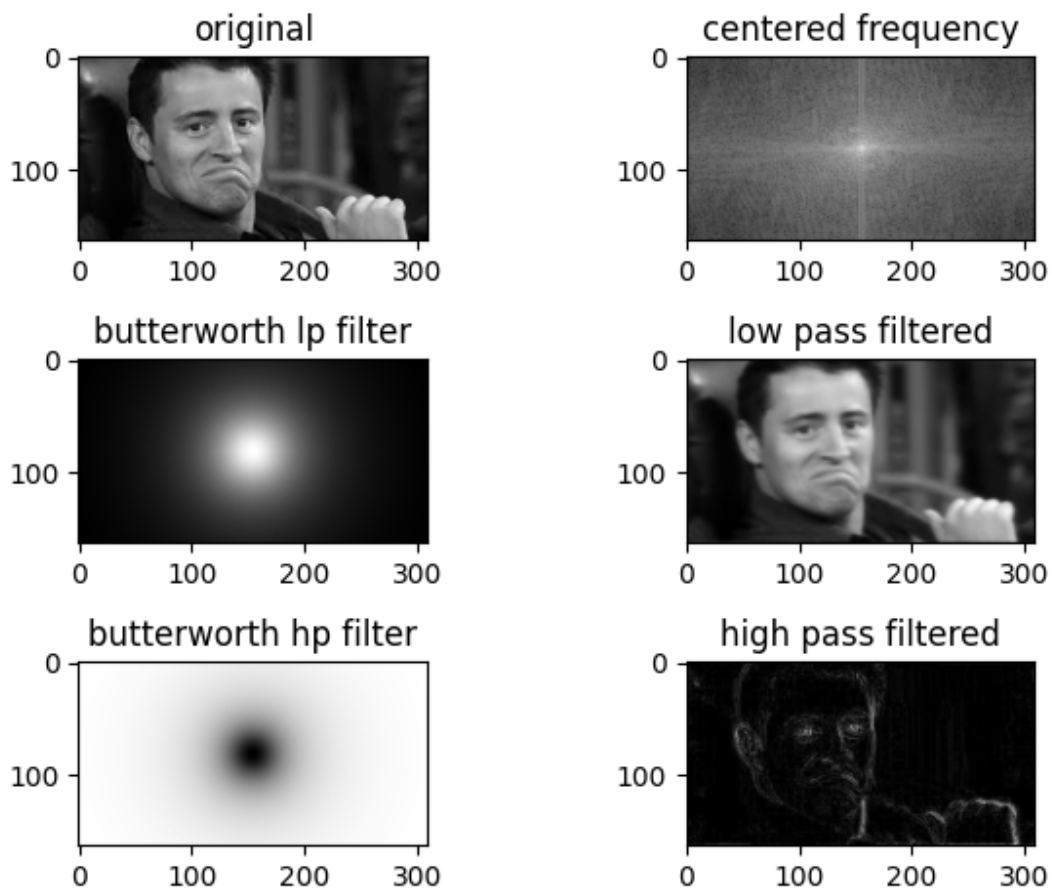
Our main aim is to use Fourier transform to reduce the computational complexity for convolution.

We will be following these steps :

- 1) Transform an image to frequency domain.(fd)
- 2) Moving the origin to the center for better visualization and understanding.(fds)
- 3) Apply filters to filter out frequencies.(fds*h)
- 4) Moving the origin back to its place.(fd*h)
- 5) Inverse fourier transform to get image back from the frequency domain.(sd*h)

I use two different filters

1. Butterworth lowpass and high pass filter



2. Gaussian low pass and high pass filters

