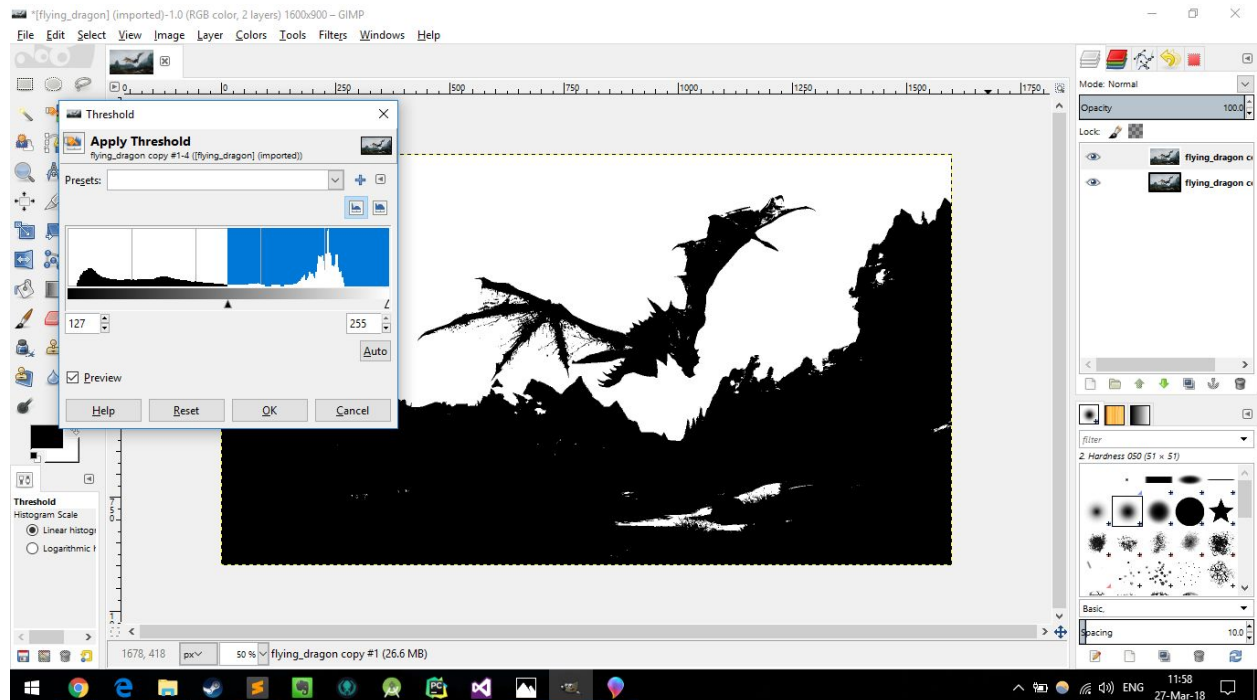
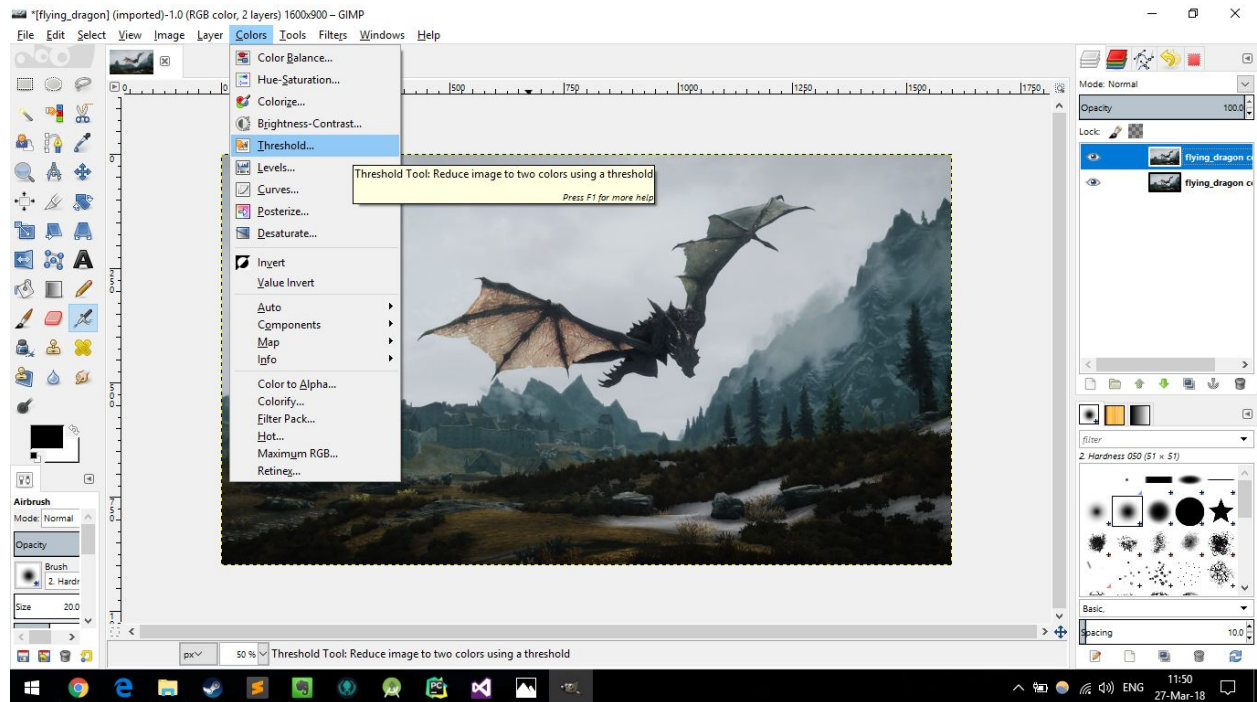


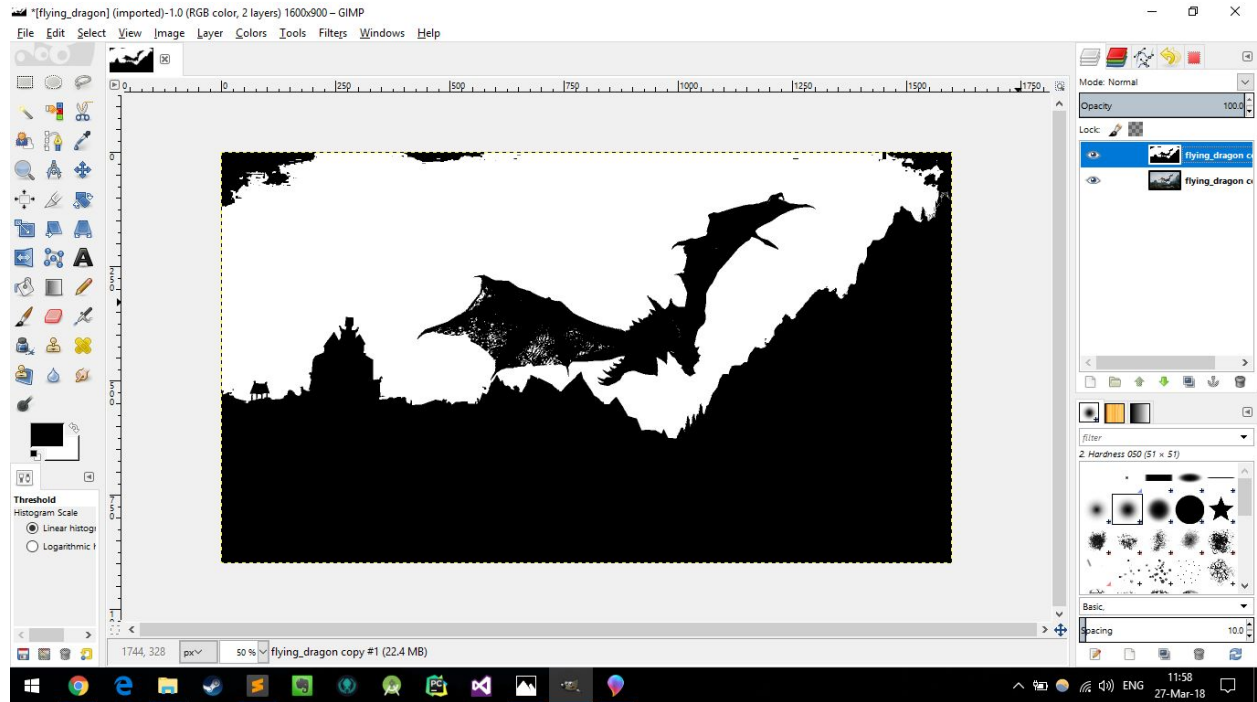
Tehnici programare aplicații grafice - Tema 2

Exercitiul 1

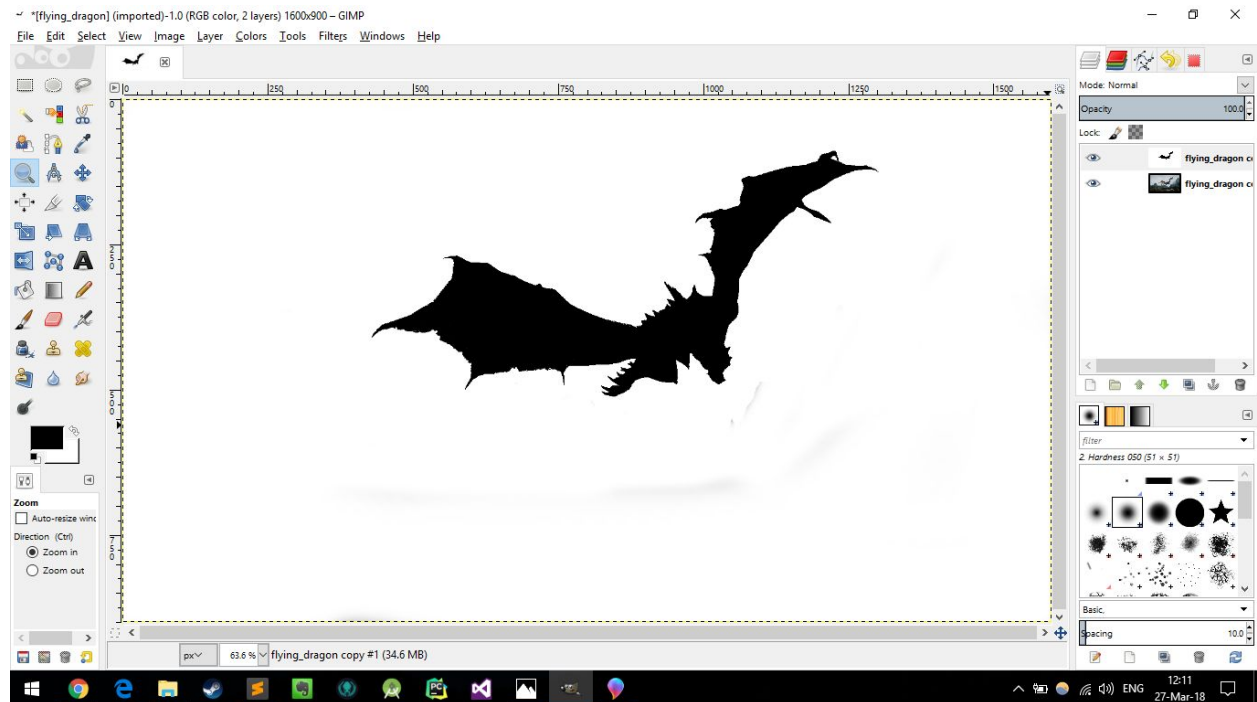




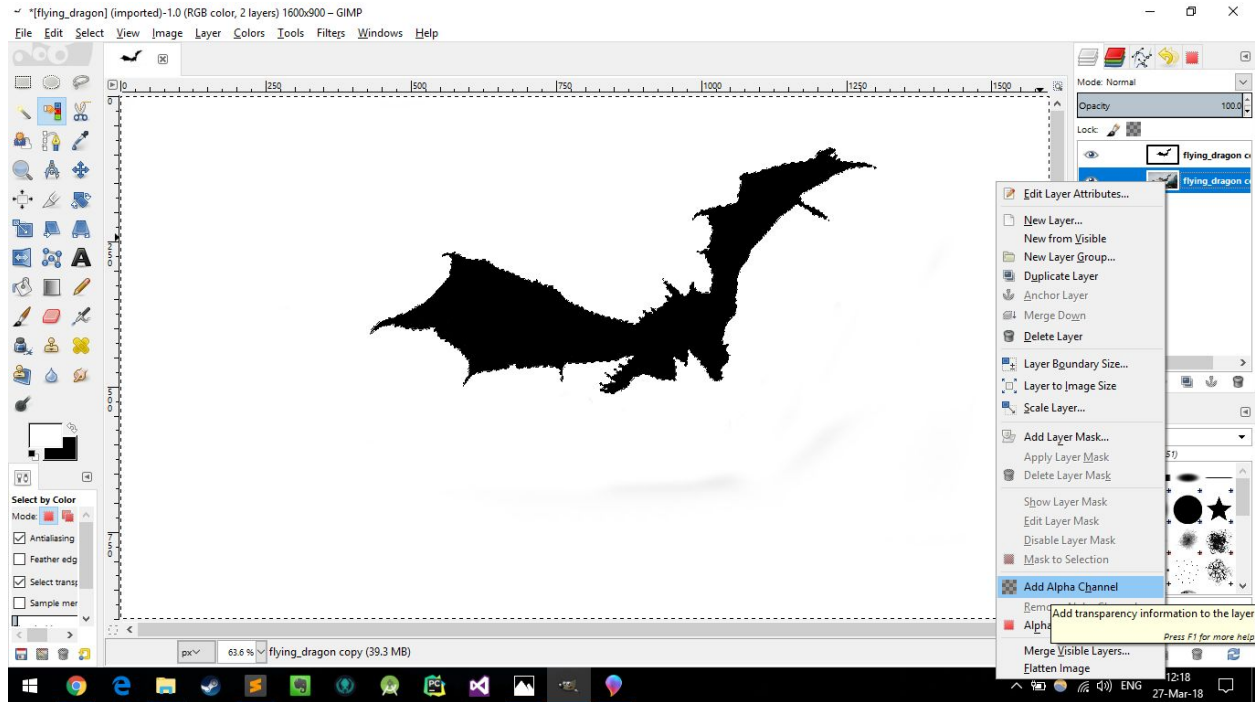
To achieve that, I first made a duplicate layer, and then selected Color - Threshold to turn the image into a black and white image.



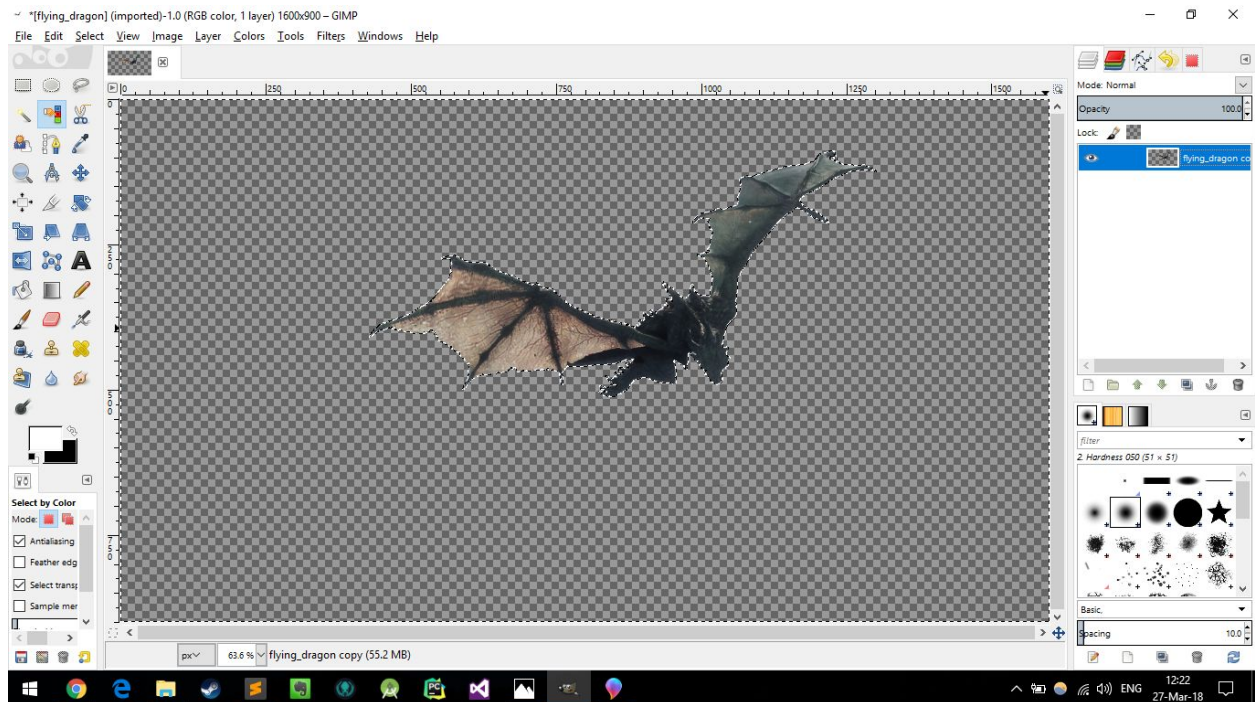
I then adjusted the slider to determine which colors are black and which are white to get a good contrast between the edges of the foreground and the background.



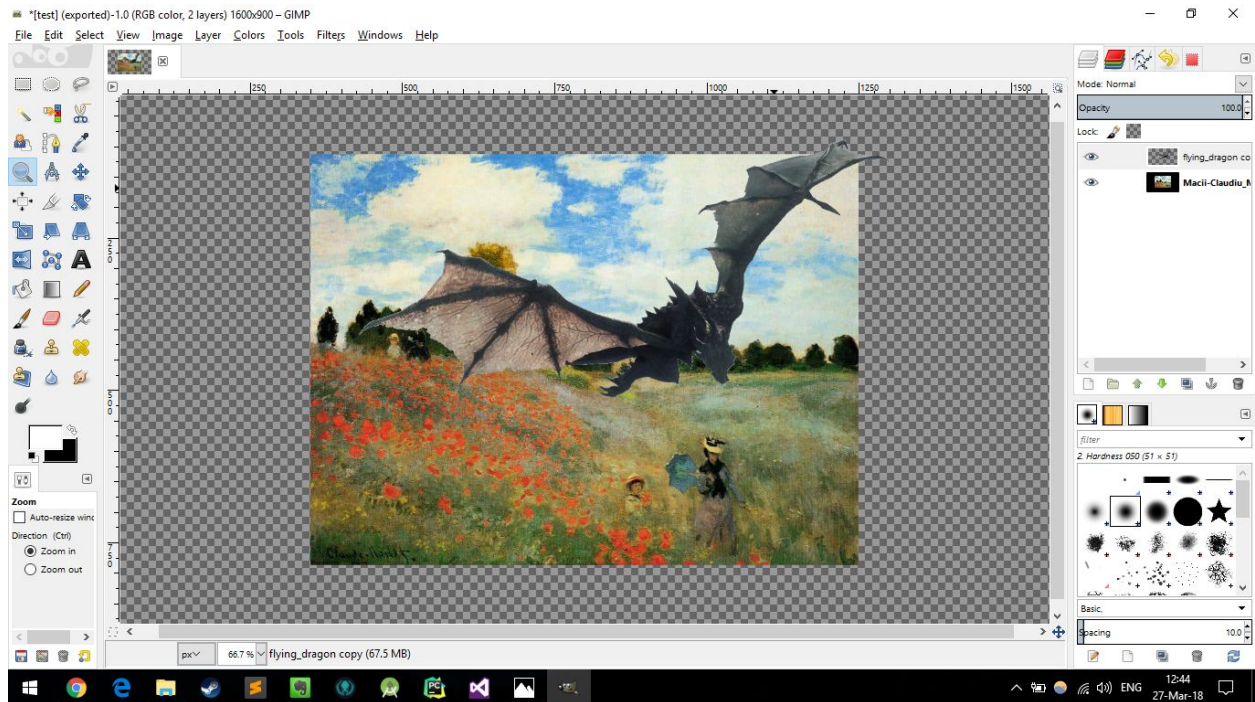
Then, with a brush, I made the foreground black and the background white.



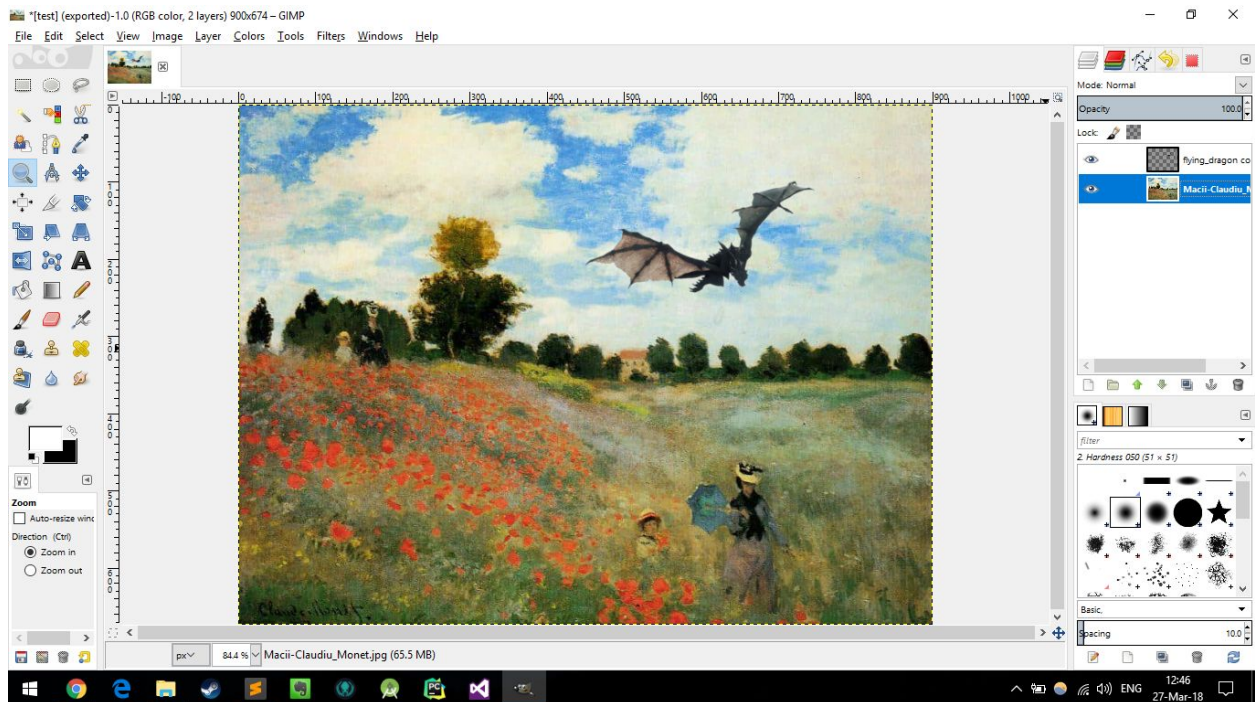
After selecting the white background on the second layer with the “Select by Color Tool”, I selected the background layer and added an alpha channel,



Now I deleted the selected background and the second layer that I no longer need.



Added a painting (Poppies - Claude Monet) as a background layer.



Scaled and moved the dragon layer, then cropped out the transparent padding.

Exercitiul 2



Converted the RGB image to grayscale. I used a fast Fourier Transform algorithm on the image matrix, in Matlab, and then I filtered the resulting matrix by only keeping higher frequencies. After using the inverse Fourier Transform on the filtered matrix, the resulting image consists of the detected edges.

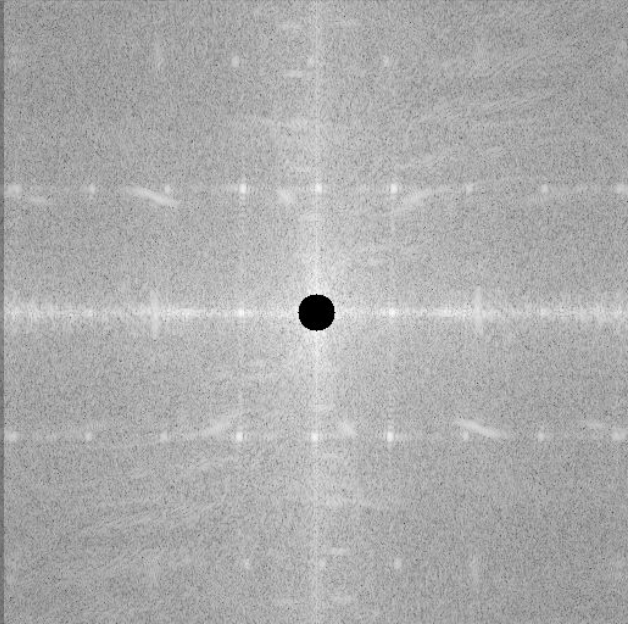
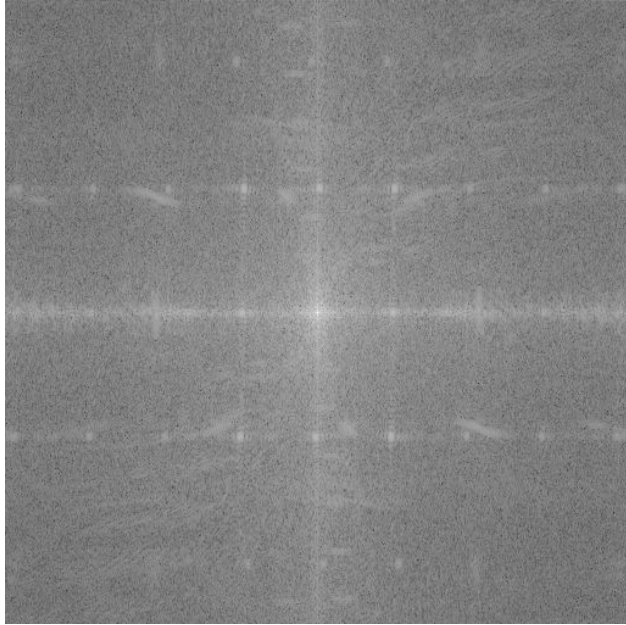


Image sources:

Poppies - Claude Monet:

<https://www.claude-monet.com/the-poppy-field.jsp#prettyPhoto>

Flying dragon:

<https://www.pinterest.co.uk/pin/511299363920615511/>

<https://i.pinimg.com/originals/86/cb/fb/86cbfbc051e23588dea48f3ec1e853c3.jpg>

Las Vegas lightnings:

http://wallpaperswide.com/las_vegas_lightnings-wallpapers.html