

```
median-filter <r> <ims> <imd>
```



initial



```
./median-filter 1 ../data/barbara-i.png res-1.png
```



```
./median-filter 3 ../data/barbara-i.png res-3.png
```

bilateral <sigma\_s> <sigma\_g> <ims> <imd>



initial



./bilateral 10 30 ../data/barbara.png res-1.png



initial



./bilateral 10 30 ../data/barbara-g-10.png  
res-1.png

nl-means <sigma> <ims> <imd>



initial



./nl-means 5 ../data/barbara.png res-5.png



./nl-means 15 ../data/barbara.png res-15.png



initial

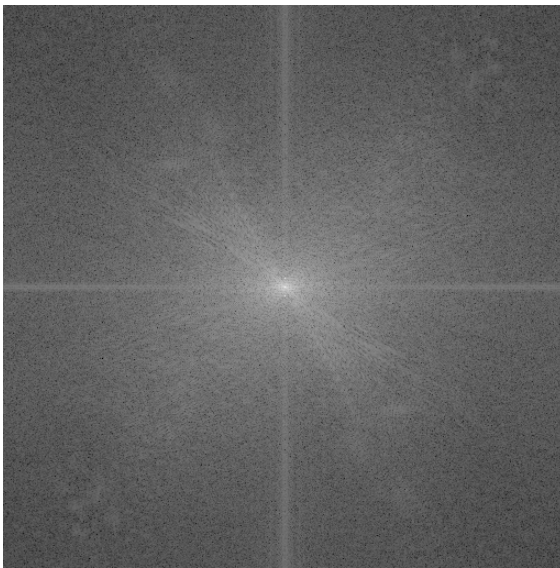


./nl-means 10 ../data/barbara-g-10.png  
res-10.png

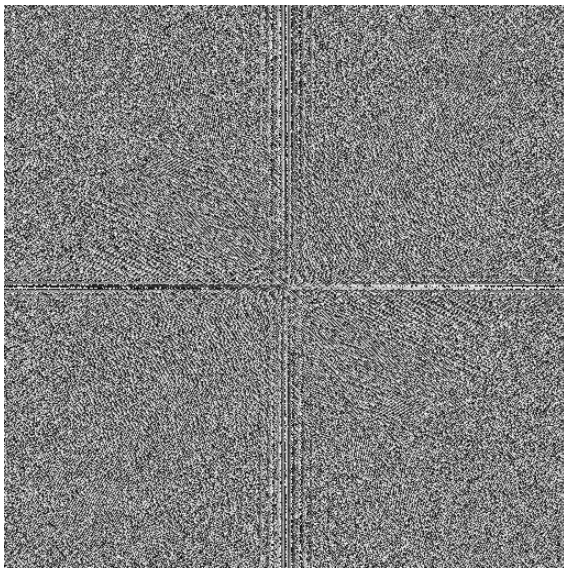
fourier <ims> <freq>



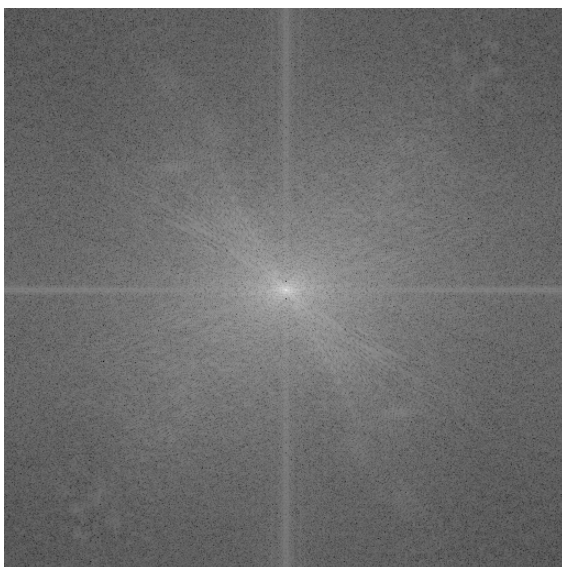
initial



magnitude.png



phase.png



magnitude-modify.png



inverse.png