1 - DFT e IDFT

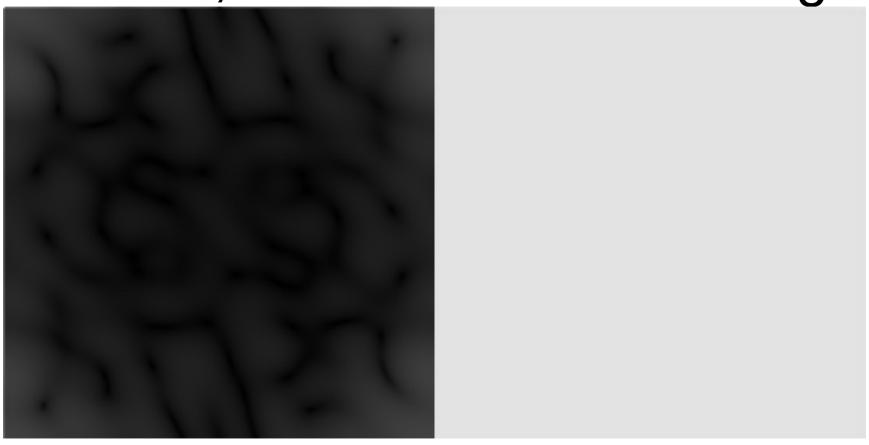
```
void exercio01() {
   std::vector<double> input = { 1, 2, 0, 1 };
   std::vector<double> reconstructed;
   std::vector<std::array<double, 2>> output;
   showRealVector(input);
   std::cout << "-----" << std::endl;
   dft(input, output);
   showComplexVector(output);
   std::cout << "-----" << std::endl;
   idft(output, reconstructed);
   showRealVector(reconstructed);
```

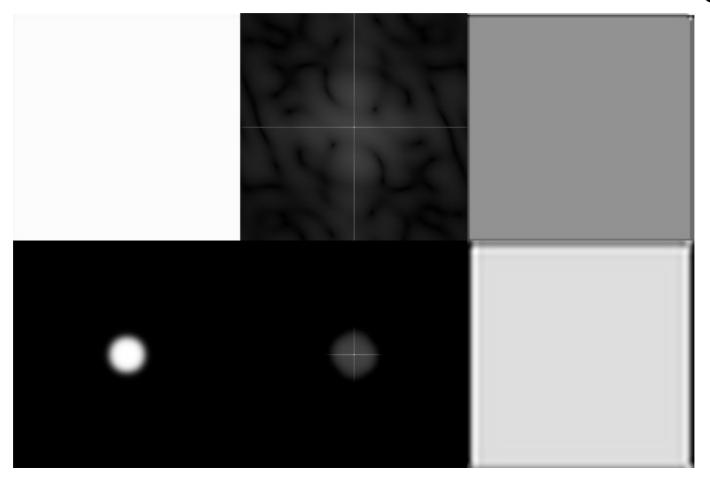
1 - DFT e IDFT

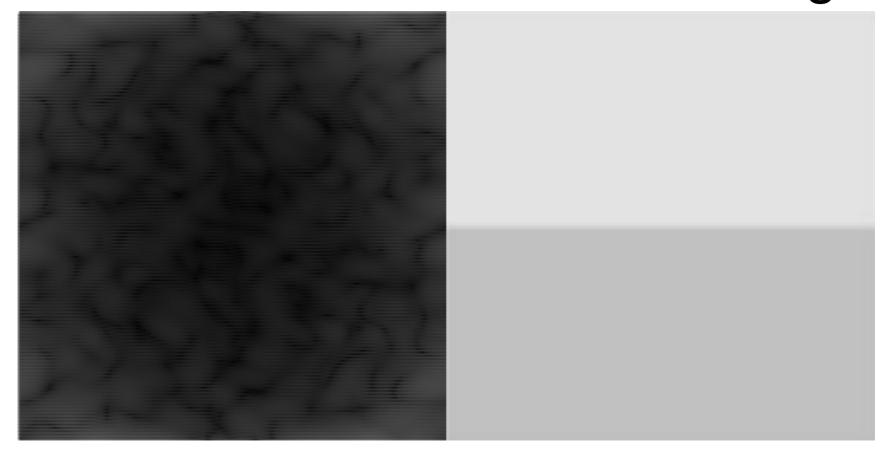
```
X0:1
                            Original
X1:2
X2:0
X3:1
X0:1
          0
X1: 0.25 0.25
                              DFT
X2: -0.5 1.53081e-16
X3:0.25 -0.25
X0:1
X1: 2
                              IDFT
```

X2: -1.16743e-16

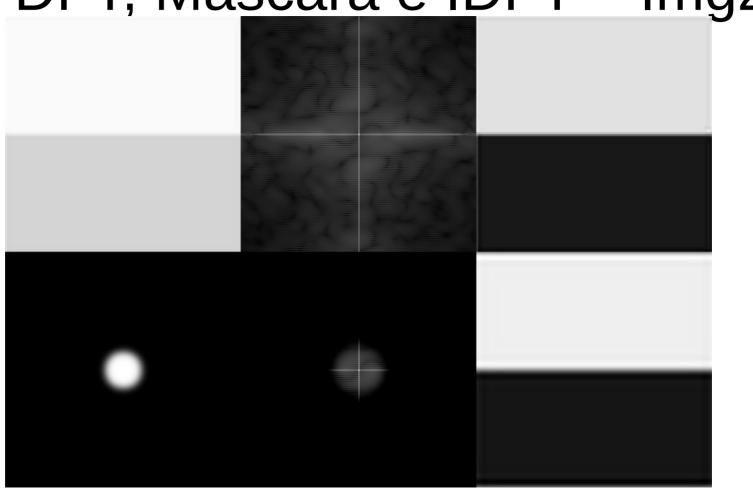
X3:1

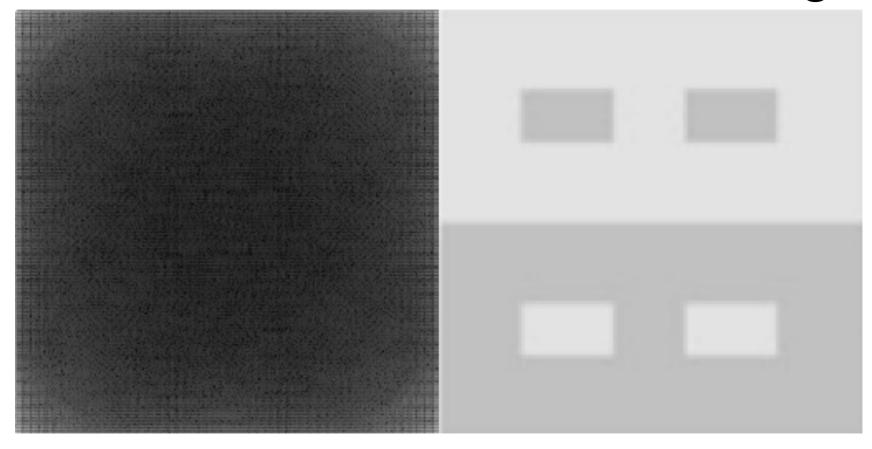


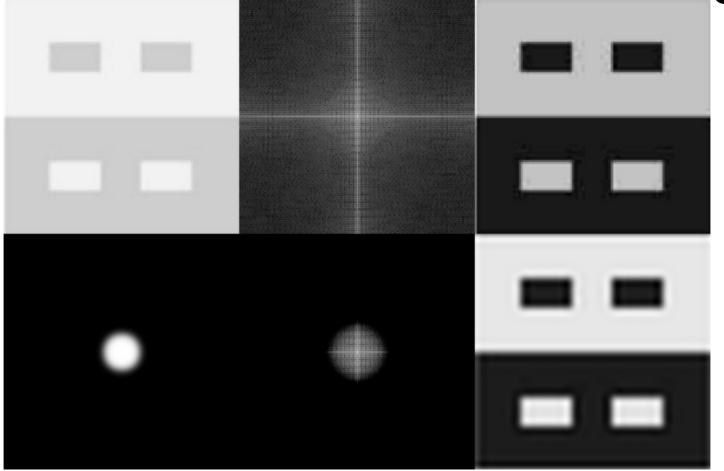


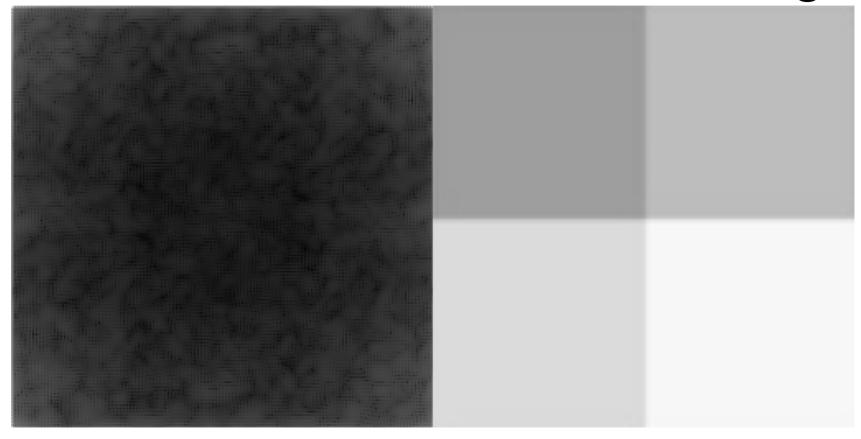


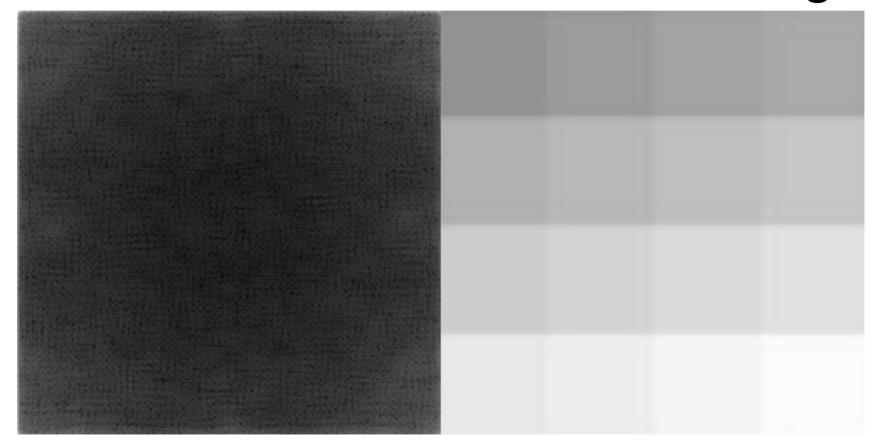
2 – DFT, Má<u>scara e IDFT – Img</u>2

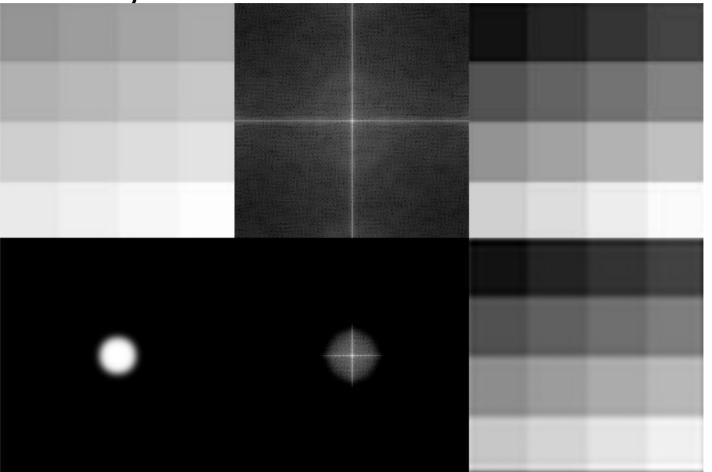












4-Remover ruídos

