



UNIVERSIDADE FEDERAL DO CEARÁ - UFC  
CENTRO DE TECNOLOGIA - CT  
DEPARTAMENTO DE ENGENHARIA DE TELEINFORMÁTICA - DETI  
CURSO DE GRADUAÇÃO EM ENGENHARIA DE COMPUTAÇÃO

### **PDI - Simulações do Cap3**

OBS: Figuras, Códigos e demais necessidades estão juntas com o .zip desse pdf

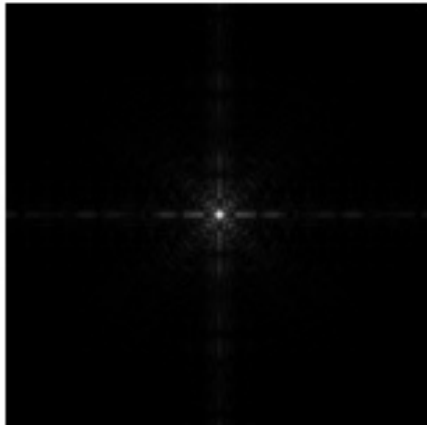
**Aluno:**

Caio Martim Barros - 472713

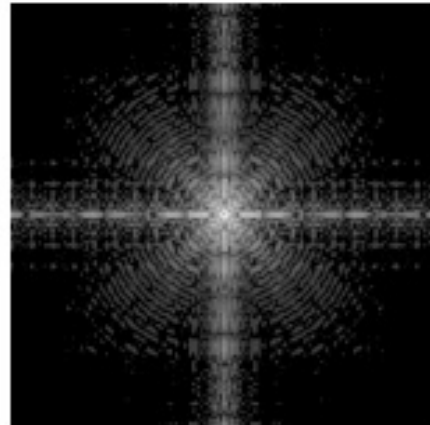
# 1 Figuras

3.5

Imagem Original



Transformação Logaritmica



3.8

Imagem Original



$\gamma = 0.4$



$\gamma = 0.6$



$\gamma = 0.3$



### 3.10

Imagem com baixo contraste

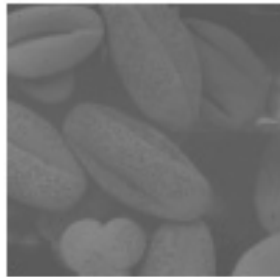
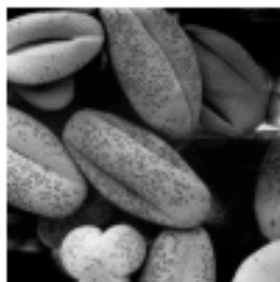
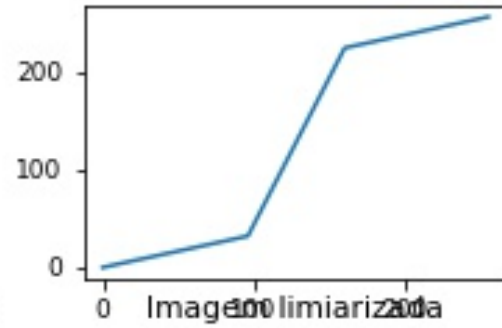


Imagem com alargamento



Funcao de alargamento



3.12

Imagem Original



Transformação 1



Transformação 2



3.14

Imagem Original



1º plano



2º plano



3º plano



4º plano



5º plano



6º plano



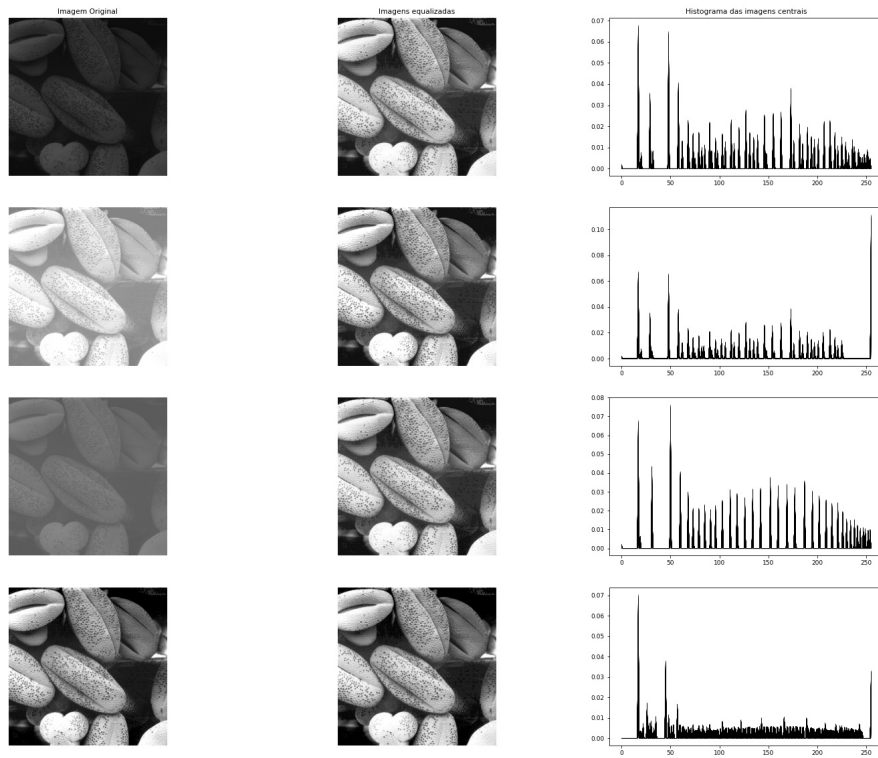
7º plano



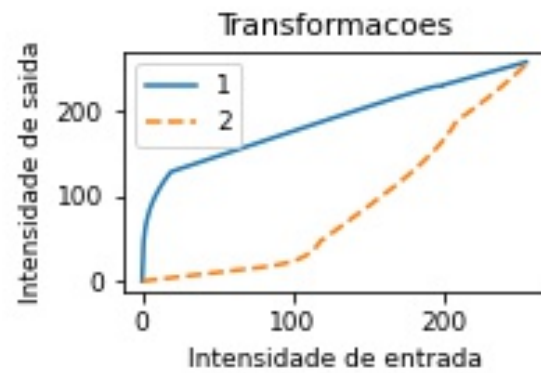
8º plano



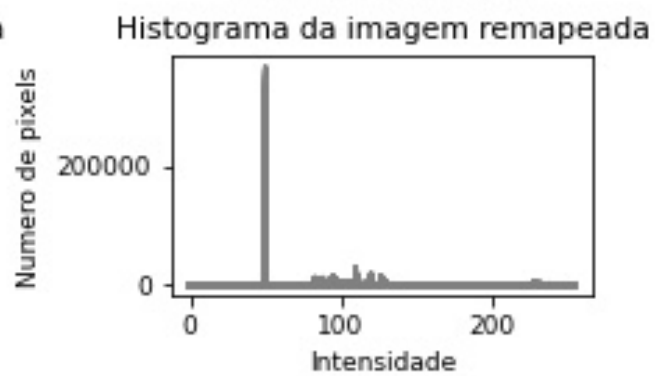
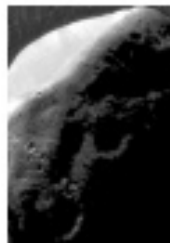
### 3.20



### 3.25



**Imagem remapeada**







3.27

Imagem Original



Equalizacao global de histograma



Equalizacao estatistica de histograma



Imagem Original

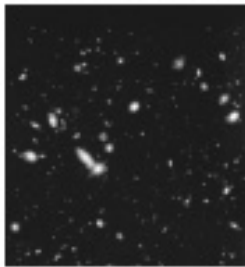


media 3x3



3.34

Imagem Original



media 15x15

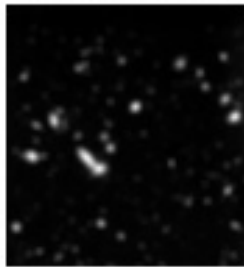
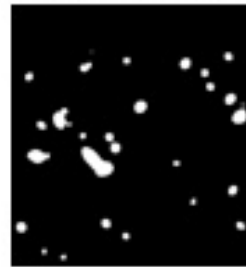
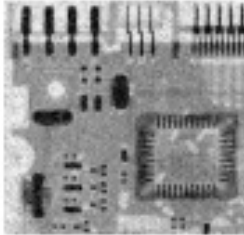


imagem limiarizada apos filtragem

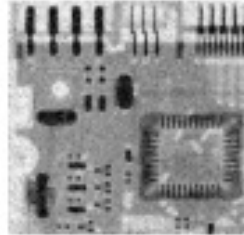


3.35

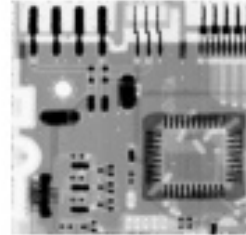
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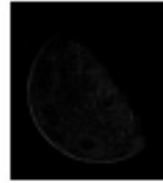
media 3x3



filtragem por mediana apos media



3.38



3.40

DIP-XE

DIP-XE

DIP-XE

DIP-XE

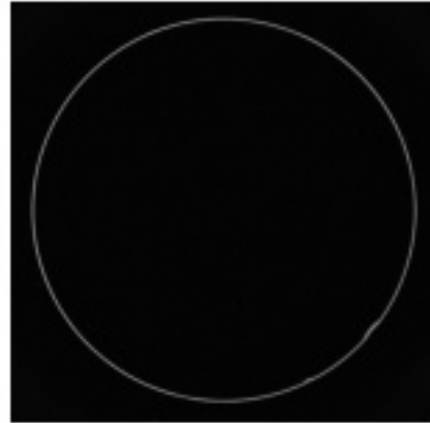
DIP-XE

3.42

Imagem Original



Filtro de Sobel





3.43

