

Universidade Federal de Santa Catarina (UFSC)

Campus Araranguá (ARA)

Disciplina: Tópicos III

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## T2: Filtros Lineares

#### 1 Dataset

Utilizaremos 2 figuras para realizar os experimentos.

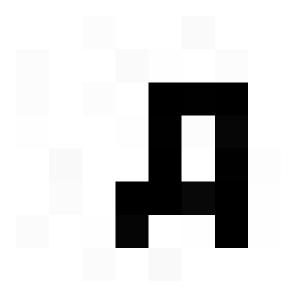


Figura 1: Teste.



Figura 2: Maçã

# 2 Filtro Blur

Iremos variar a densidade e o tamanho do Kerneis para convoluir na imagem. Kernel 1:

$$\begin{vmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{vmatrix}$$

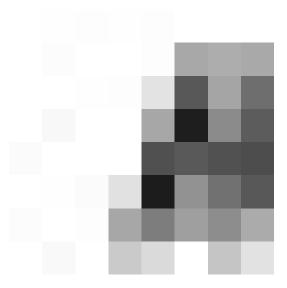


Figura 3:



Figura 4:



Figura 5:

## Kernel 2:

1	1 1 1 1 1	1	1 1 1 1 1	1
1	1	1	1	1
1	1	1	1	1
1	1	1	1	1
1	1	1	1	1

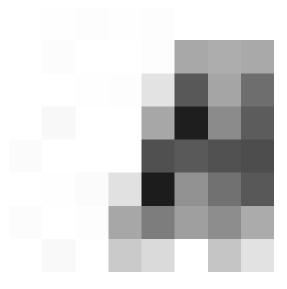


Figura 6:



Figura 7:



Figura 8:

### Kernel 3:

1	2	2	1	1
2	4	4	4	2
2	4	8	4	2
2	4	4	4	2
1	2 4 4 4 2	2	2	1

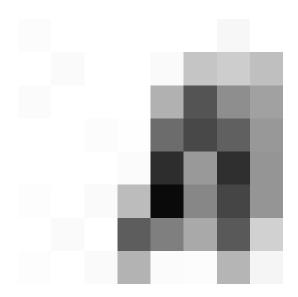


Figura 9:



Figura 10:



Figura 11: