

The problem



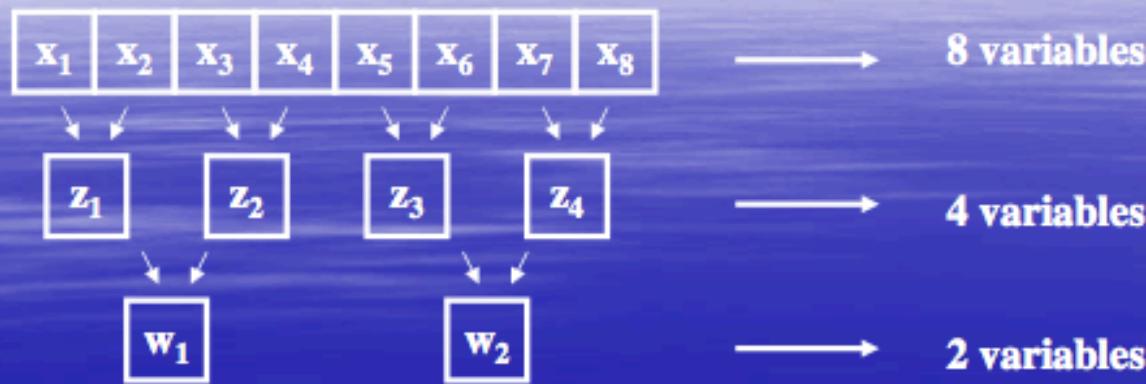
observed

$$\Psi=? \rightarrow$$

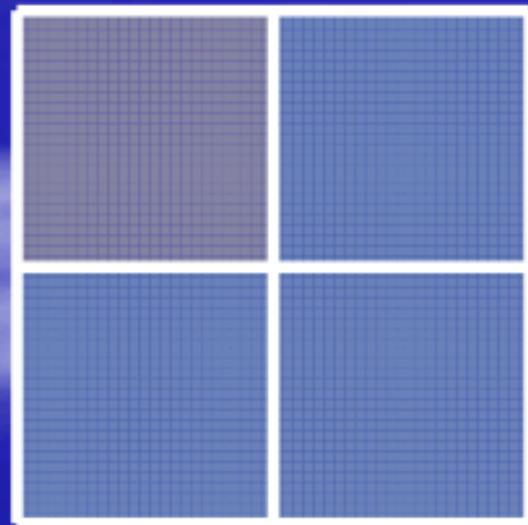
A B C D E F G H I J
K L M N O P Q R S
T U V X Z W Y
a b c d e f g h i j k l m
n o p q r s t u v x z w y

ideal

Find an image operator that transforms the **observed** image to the **ideal** (or “close to the ideal”) image.

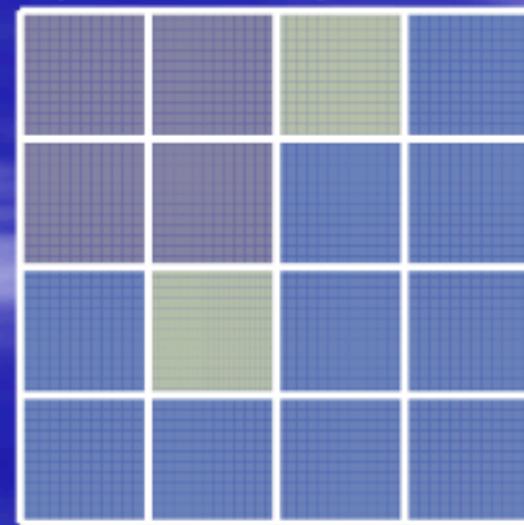


0 1



2 variables: $2^2=4$

00
01
10
11

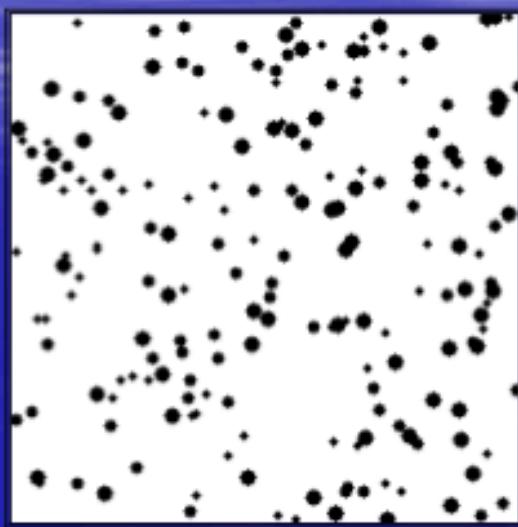


4 variables: $2^4=16$

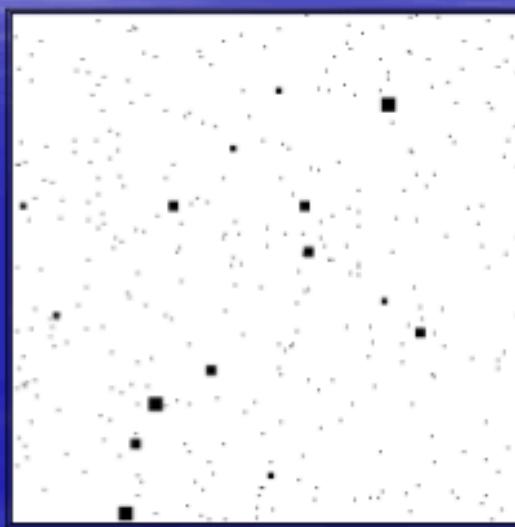


8 variables: $2^8=256$

Multiresolution Noise



image



noise

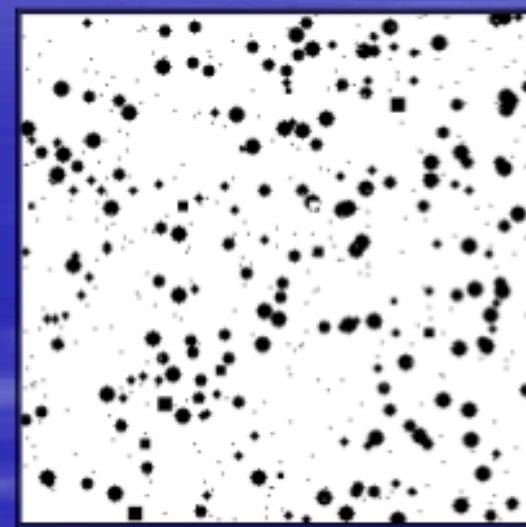
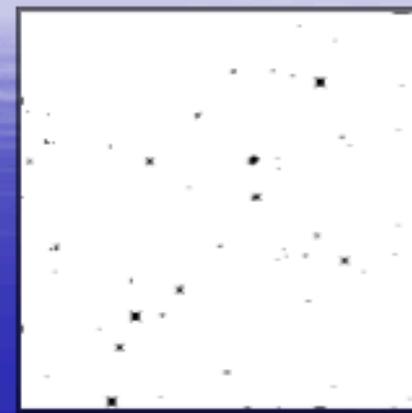
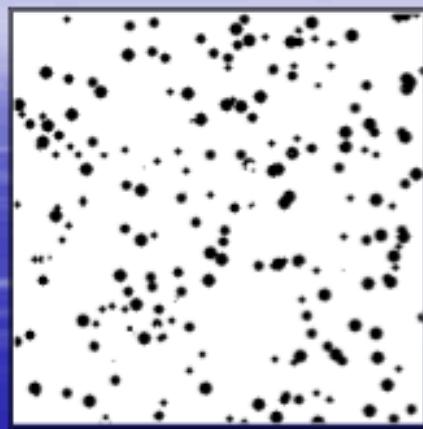
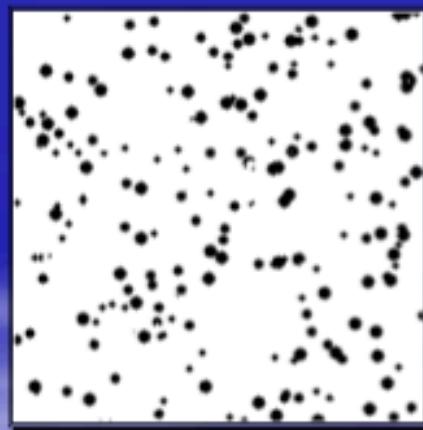


image + noise

3x3 window



Pyramid



Restauration

Persisting noise

