~~$X = AS \quad WX = WAS$~~ (with $WX \to Y$, $WA \to B$)

$Y = BS$

target: $Y \to B, S$.

Assumption: S: independent → uncorrelated, $SS^T = I$.

$Y \cdot Y^T = I \Rightarrow B \cdot B^T = B^T B = I$.

$B = \begin{pmatrix} b_{11} & b_{12} \\ b_{21} & b_{22} \end{pmatrix}$,

$b_{11}^2 + b_{21}^2 = 1$.

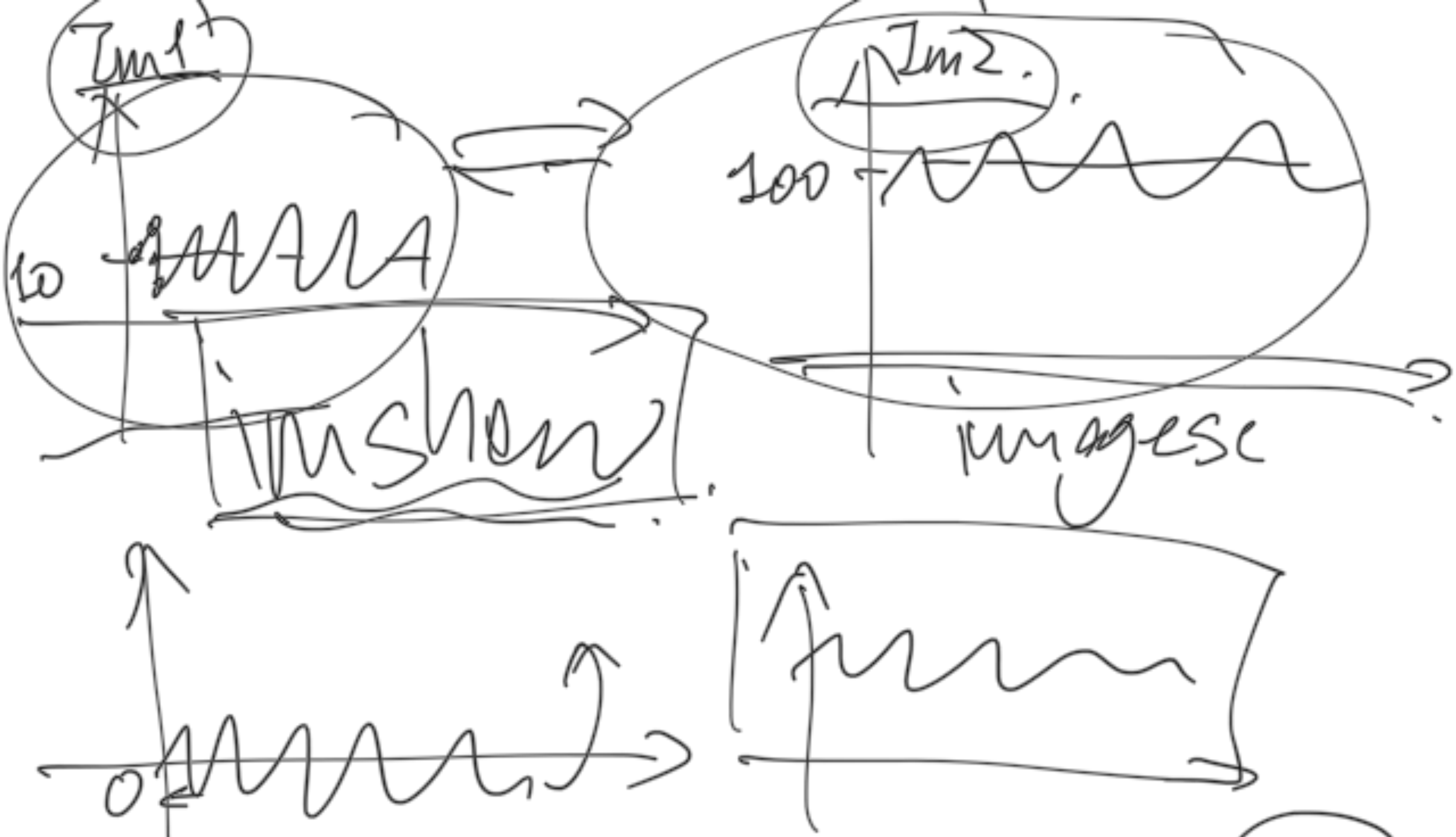
We don't have: $b_{11} + b_{12} = 1$

1. positive.

2. a_{intra} = ...

example.jpg

imshow.



imshow(I). par défaut : { int, double, float }

↓ { 0 : black, 255 : white }

imshow(I, [ ])

↓ { min : black, max : white }

$$X = A \cdot S$$

$$\begin{pmatrix} X_1 \\ X_2 \end{pmatrix} = \begin{pmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{pmatrix} \cdot \begin{pmatrix} S_1 \\ S_2 \end{pmatrix}$$

$X_1 = A_1 \cdot S_1 \begin{pmatrix} S_{11} \\ S_{12} \end{pmatrix}$

$X_2 = A_2 \cdot S_2 \begin{pmatrix} S_{21} \\ S_{22} \end{pmatrix}$

$X_3 = A_3 \cdot S_3 \begin{pmatrix} S_{31} \\ S_{32} \end{pmatrix}$

⋮

other side.