

1) много значений. $640 \times 480 \times 3 =$

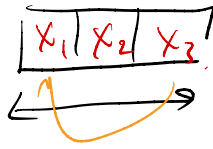
$$\boxed{921600} \Rightarrow \boxed{}^{512}$$

$921600.$

2) признаки не независимые.

3) нет инвариантности по
сгруппу.

$$x \in \mathbb{R}^3$$



$$h_i = \theta x$$

$$S^R = \begin{pmatrix} 0 & 0 & 1 \\ 1 & 0 & 0 \\ 0 & 1 & 0 \end{pmatrix}$$

$$S^R x = \begin{bmatrix} x_3 & x_1 & x_2 \end{bmatrix}$$

S

$$\begin{bmatrix} k_0 & k_1 \end{bmatrix}$$

$$\begin{bmatrix} k_0 & k_1 \end{bmatrix}$$

$$\begin{bmatrix} k_2 \end{bmatrix}$$

$$\begin{bmatrix} k_0 \end{bmatrix}$$



$$\theta(Sx) = S(\theta x)$$

$$\theta S = S \theta$$

$$\theta = \begin{pmatrix} k_0 & k_1 & k_2 \\ k_2 & k_0 & k_1 \\ k_1 & k_2 & k_0 \end{pmatrix}$$

using cyclic perm.

$$h = \theta x$$

$$h_i = \sum_{j=0}^2 k_{(i+2j) \bmod 3} x_j = [\theta * x]_i$$

$$\Theta = \begin{pmatrix} \kappa_0 & \kappa_1 & 0 \\ 0 & \kappa_0 & \kappa_1 \\ \kappa_1 & 0 & \kappa_0 \end{pmatrix}$$

$$\frac{\Theta^T \varphi}{\sqrt{G(\Theta) G(\varphi)}}$$

$$x = \begin{bmatrix} 0 & 1 & 0 & 1 & 0 \end{bmatrix}$$

$$k = \begin{bmatrix} \kappa_1 & \kappa_2 & \kappa_3 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix}$$

$$x \neq k = [8.3, 0, \sim 4, \dots]$$

$$k = [0, 0, 0, 0, 10]$$

$$x \neq k = [$$