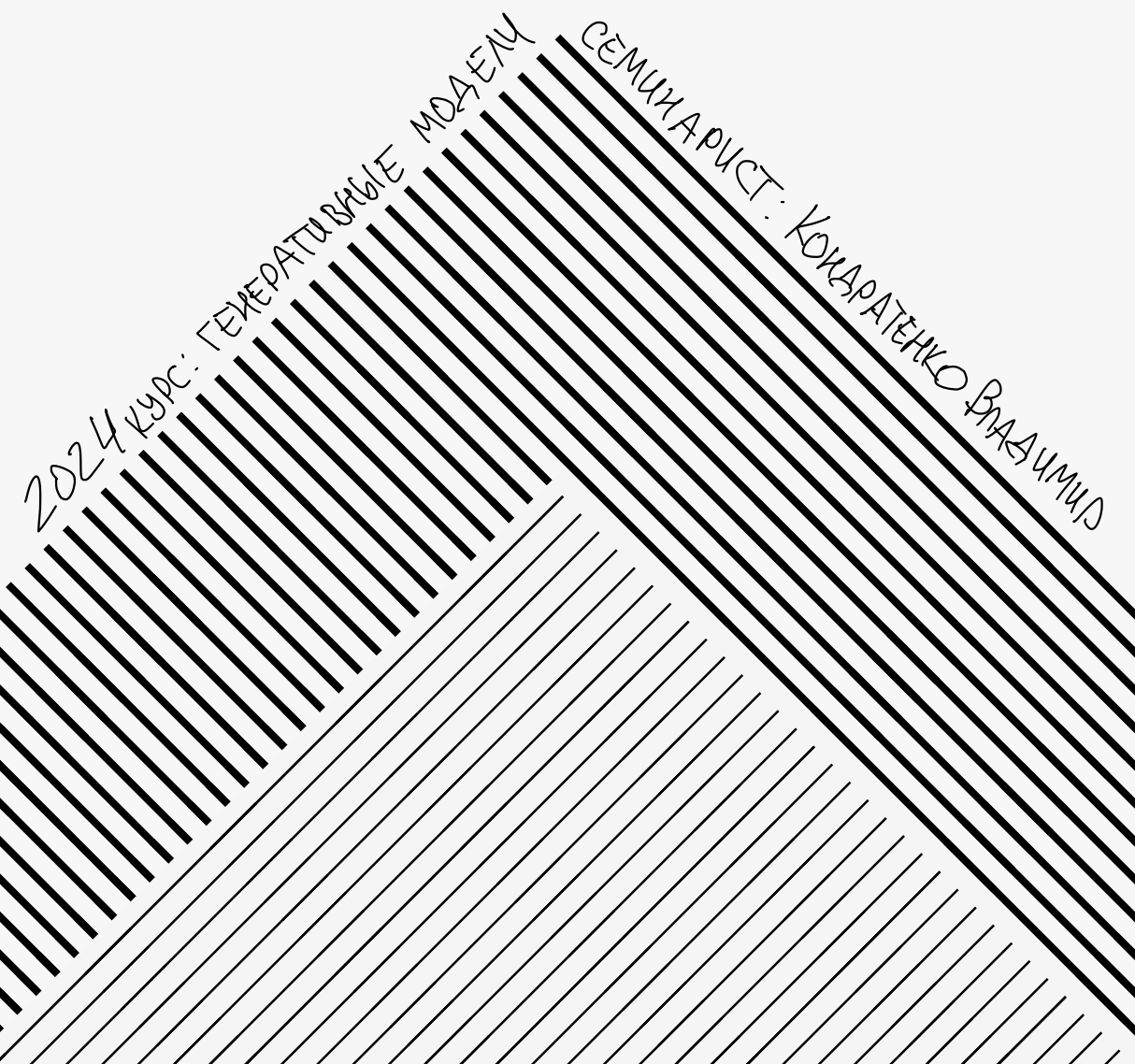
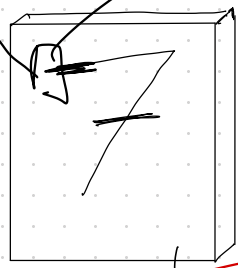


# Семинар 2

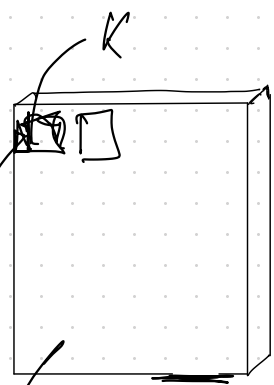


$[0, 255]$   $[0, 1]$  (K)



28  
(1)

Pixel CNN



28  
(1, 28, 28)  
CH H W

(2) (~~K~~ CH, 28, 28)  
H W

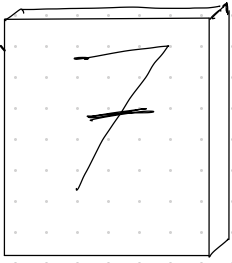
BIN  $K=2$   
 $K=256$

(3)  $P(x, \theta)$   
 $P(x_2 | x_1, \theta)$   
 $P(x_{i+1} | x_{1:i}, \theta)$

$x_1, \dots, x_i$   
 $x_{i+1}$   
 $(x_2 | x_1)$   
 $0 \dots 1$   
 $1 \dots 1$

$(p^{i+1}_1, p^{i+1}_2, \dots, p^{i+1}_K)$

- 1) Image  $\rightarrow$  PixelCNN Параметры  
пакета  
( $p^{i+1}_1, p^{i+1}_2, \dots, p^{i+1}_K$ )
- 2) Генерировать
- 3) GOTO (1)



$(CH, H, W)$

$1 \times CH \cdot H \cdot W$

$(K, CH, H, W)$