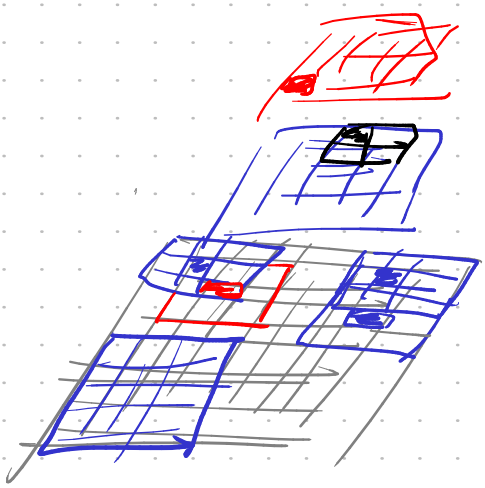
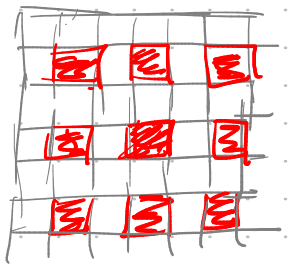


atrous conv.
dilated conv.



Naive Bayes

$x \longmapsto y$

$$p(\bar{x}, y) = p(y) \cdot \prod_{i=1}^{d} p(x_i | y)$$

$$D = \{(\bar{x}_n, y_n)\}_{n=1}^{N}$$

$$p(y=k) \approx \frac{\#[y_n = k]}{N}$$

$$p(y|\bar{x}) = \frac{p(\bar{x}, y)}{p(\bar{x})} \propto p(\bar{x}, y) = p(y) \cdot \prod_i p(x_i | y)$$

$$p(x_i^{=m} | y^{=k}) \approx \frac{\#[y_n = k, x_i = m]}{\#[y_n = k]}$$