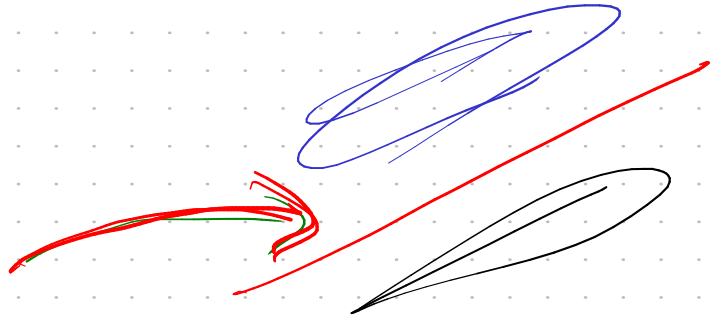
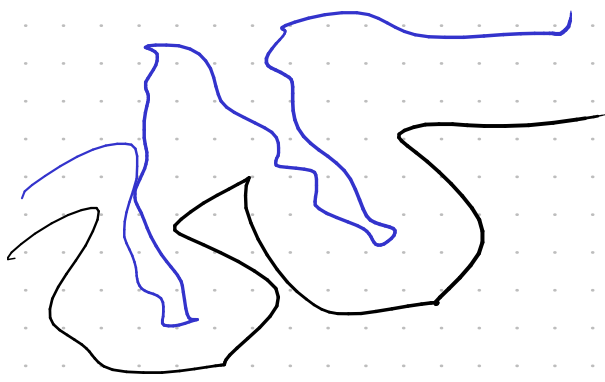


$$\sigma(a) = \frac{1}{1 + e^{-a}}$$

$$p(C_1|x) = \frac{1}{1 + e^{-\log \frac{p(x|C_1)p(C_1)}{p(x|C_2)p(C_2)}}}$$

probit

$$\Phi(a) = \int_{-\infty}^a \frac{1}{\sqrt{2\pi}} e^{-\frac{z^2}{2}} dz$$



$$p(\theta) \sim D \sim \underbrace{p(\theta|D)} \sim D' \sim \underbrace{p(\theta|D, D')} \sim \dots$$

$\propto p(\theta) p(D|\theta)$
 $\propto p(\theta|D) p(D'|\theta)$

