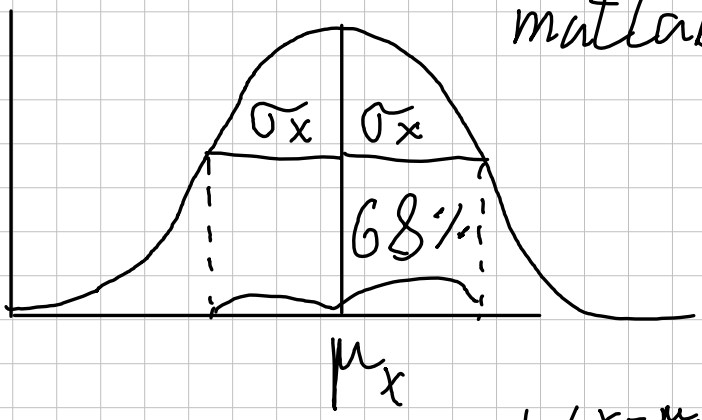
Case normalfordeling

$$X \sim N(\mu, \sigma^2)$$

matlab : norm pdf



$$f_X(x) = \frac{1}{\sqrt{2\pi} \cdot \sigma_X} \cdot e^{-\frac{1}{2} \cdot \left(\frac{x-\mu_X}{\sigma_X}\right)^2}, \quad x \in \mathbb{R}$$

k = antal standardavvigelser.

k	$P(\lvert x-\mu_X \rvert \leq k \cdot \sigma_X)$
1	68%
2	95%
3	99%

$$P(a \leq X \leq b) = \int_a^b f_X(x)\,dx = F_X(b) - F_X(a)$$

matlab: normcdf