Oppsummering

Diskrete SF	Kont. ST
Uniform (empirisk) SF	
Hypergeometrisk SF	
$h(x; N, n, k) = \frac{\binom{k}{x}\binom{N-k}{n-x}}{\binom{N}{n}}$	
$N \gg n$, $p = \frac{k}{N}$ $\downarrow$	Normal ST
Binomisk SF $(q = 1-p)$	$n(x; \mu, \sigma) = \frac{1}{\sqrt{2\pi}\sigma} \exp\left\{-\frac{1}{2}\left(\frac{x-\mu}{\sigma}\right)^2\right\}$; $-\infty < x < \infty$
$b(x; n, p) = \binom{n}{x} p^x q^{n-x}$ $\xrightarrow[n \to \infty]{}$	$n(x; np, \sqrt{npq})$
$\downarrow$ $\left.\begin{matrix} n \to \infty \\ p \to 0 \end{matrix}\right\} \mu = np$	
Poisson SF	
$p(x; \mu) = \frac{\mu^x}{x!} e^{-\mu}$; $x = 0, 1, \ldots$	
Geometrisk SF $\frac{1}{p}$ ~	$\frac{1}{\lambda}$ Eksponensial ST
$g(x; p) = p q^{x-1}$; $x = 1, 2, \ldots$	$\lambda e^{-\lambda x}$; $x \geq 0$
Negativ binomisk SF	Gamma ST
$b^*(x; k, p) = \binom{x-1}{k-1} p^k q^{x-k}$ ~	$\frac{\lambda^\alpha}{\Gamma(\alpha)} x^{\alpha-1} e^{-\lambda x}$; $x \geq 0$
$x = k, k+1, \ldots$ $k \sim \alpha$	$(\beta = \frac{1}{\lambda})$