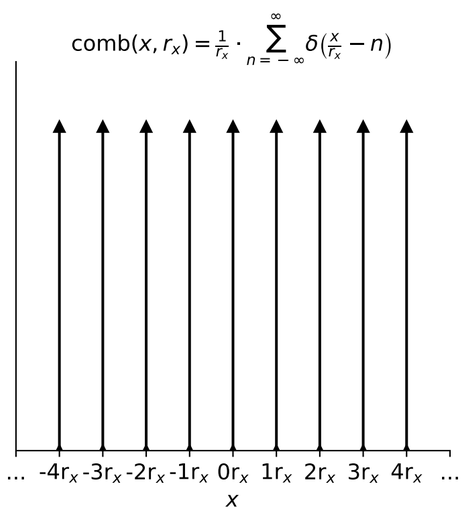
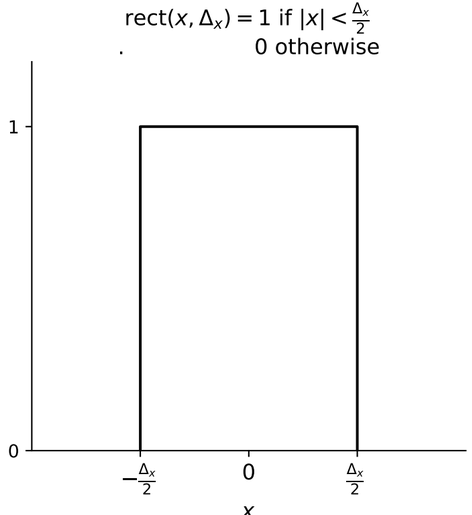
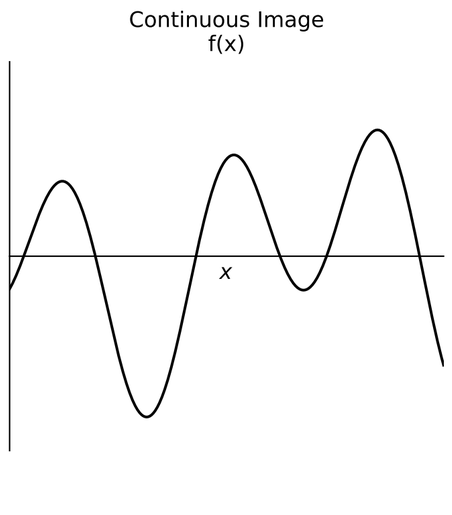
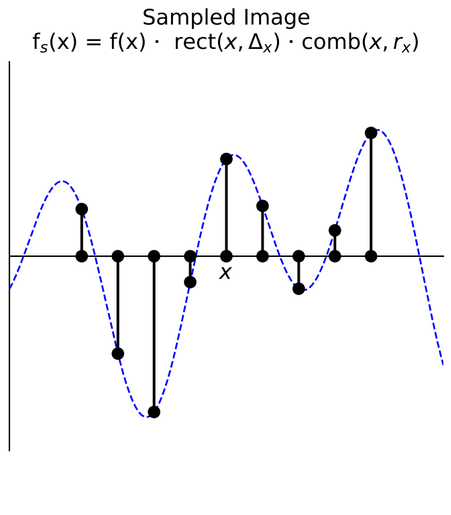

$\mathrm{comb}(x, r_x) = \frac{1}{r_x} \cdot \sum_{n=-\infty}^{\infty} \delta\left(\frac{x}{r_x} - n\right)$
... -4r_x -3r_x -2r_x -1r_x 0r_x 1r_x 2r_x 3r_x 4r_x ...
x


$\mathrm{rect}(x, \Delta_x) = 1 \text{ if } |x| < \frac{\Delta_x}{2}$
0 otherwise
1
0
$-\frac{\Delta_x}{2}$
0
$\frac{\Delta_x}{2}$
x


Continuous Image
f(x)
x


Sampled Image
$f_s(x) = f(x) \cdot \mathrm{rect}(x, \Delta_x) \cdot \mathrm{comb}(x, r_x)$
x