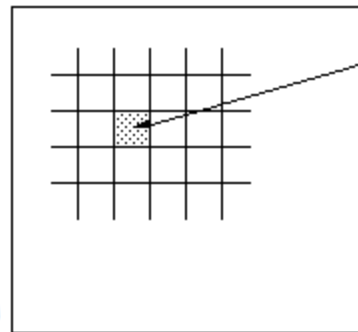


Bicubic Interpolation*



Final image

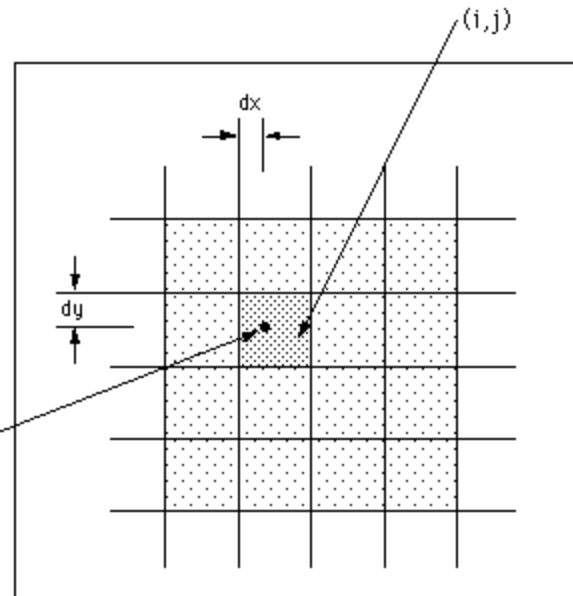
Point to estimate (i',j')

$$F(i',j') = \sum_{m=-1}^2 \sum_{n=-1}^2 F(i+m, j+n) R(m-dx) R(dy-n)$$

$$R(x) = \frac{1}{6} [P(x+2)^3 - 4P(x+1)^3 + 6P(x)^3 - 4P(x-1)^3]$$

$$P(x) = \begin{cases} x & x > 0 \\ 0 & x \leq 0 \end{cases}$$

Exact transformed position of (i',j')



Original image

http://en.wikipedia.org/wiki/Bicubic_interpolation