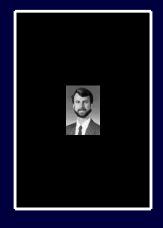
Interpolation: Image magnification

Original



Downsampled



Nearest neighbor



Cubic



Linear



Cubic b-spline

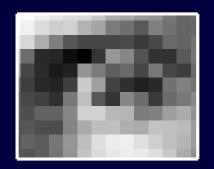


Interpolation: Image magnification

Original



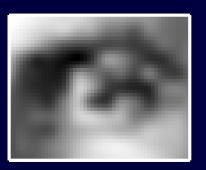
Nearest neighbor



Linear



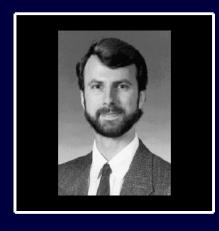
Cubic



Cubic b-spline



Interpolation: Image rotation



Shift each row



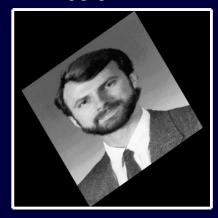
Interpolation: Image rotation



Shift each row



Shift each column



Interpolation: Image rotation



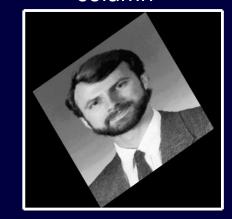
Shift each row



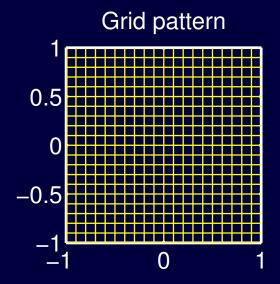
Shift each column

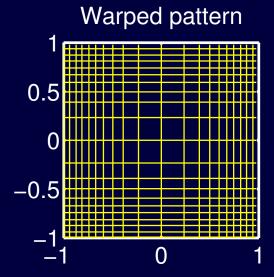


Shift each row

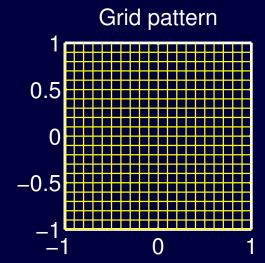


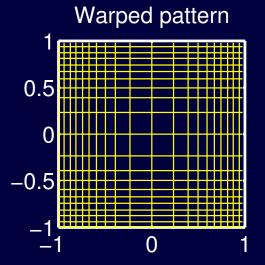
Interpolation: Image warping

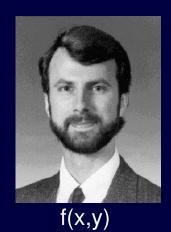


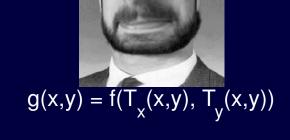


Interpolation: Image warping



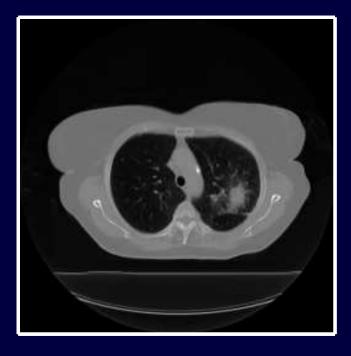






Interpolation: Image registration

f(x,y)



g(x,y)



Find $T_x(\cdot)$, $T_y(\cdot)$ s.t. $g(x,y) \sim f(T_x(x,y), T_y(x,y))$