Convolution vs. Correlation

Convolution:

$$g[i,j] = \sum_{m} \sum_{n} f[m,n] \underline{t[i-m,j-n]} = t * f$$

Correlation:

$$R_{tf}[i,j] = \sum_{m} \sum_{n} f[m,n] t[m-i,n-j] = t \otimes f$$

No Flipping in Correlation

Convolution = Correlation when Template is Symmetric