

# Basis Vectors and Matrix-Based Transforms

Image Processing

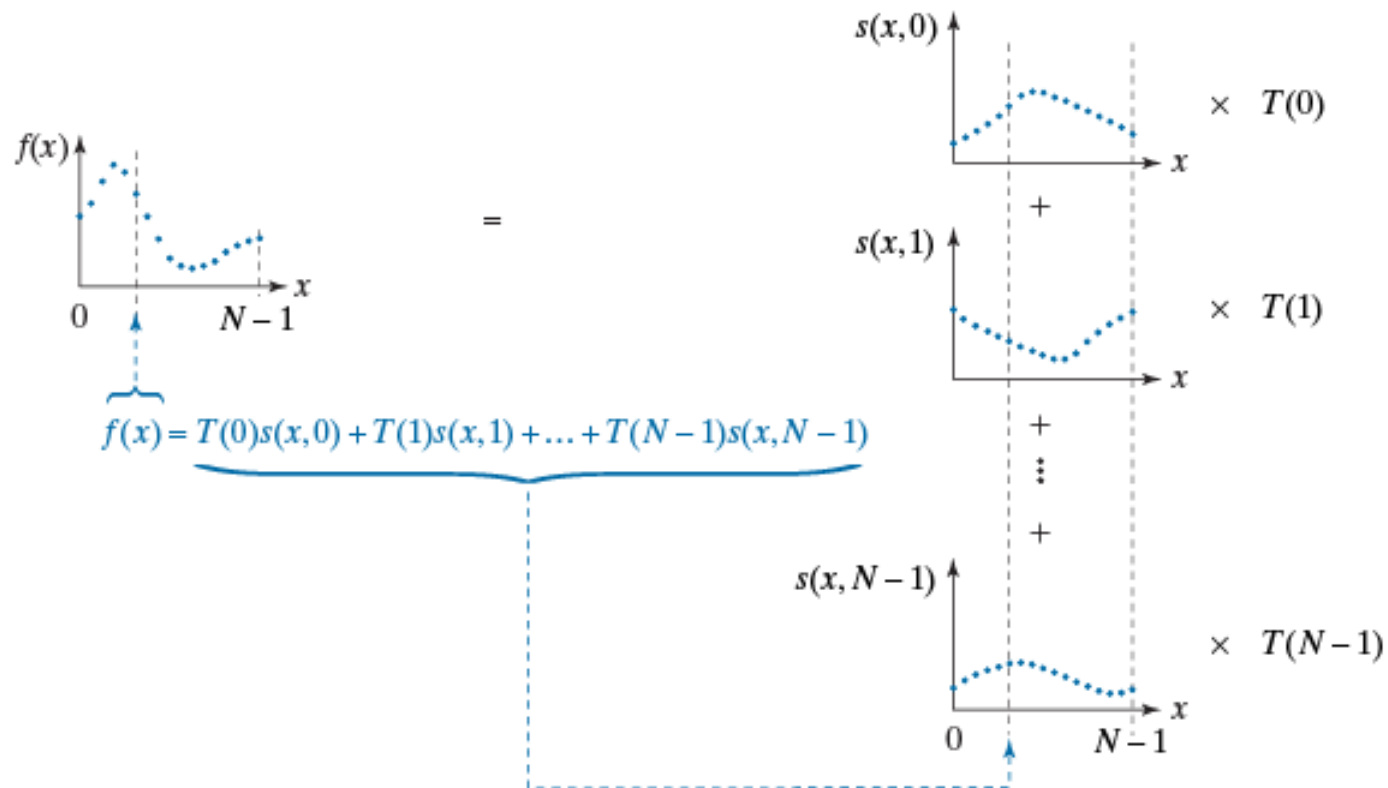
CSE 166

Lecture 11

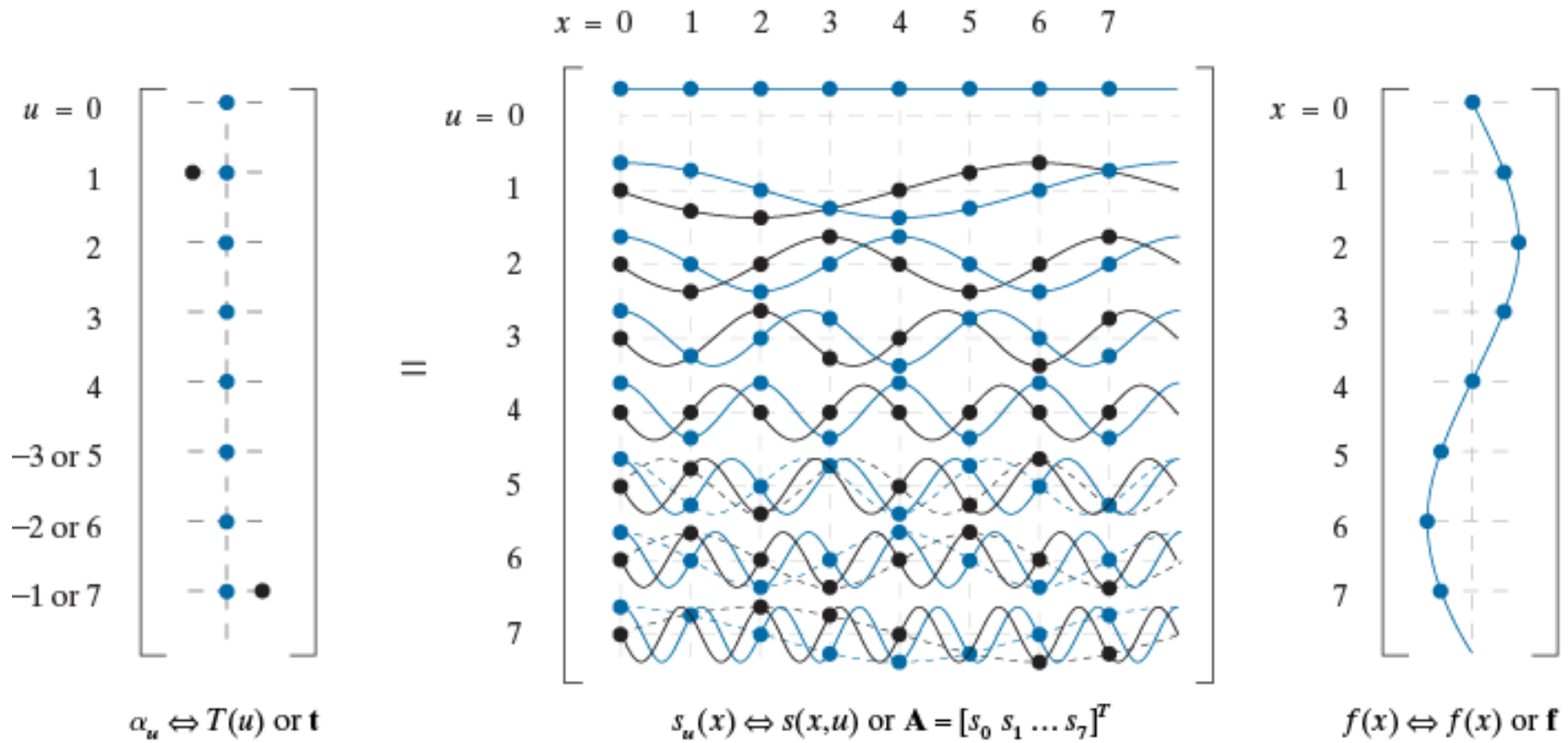
# Reading

- Digital Image Processing, 4th edition
  - Chapter 6: Wavelet and Other Image Transforms
    - Sections 6.1 and 6.2

# General inverse transform using basis vectors



# Matrix-Based Transform



8-point DFT of  $f(x) = \sin(2\pi x)$