

# Wavelets in DSP

Final Research Project

ICS 180

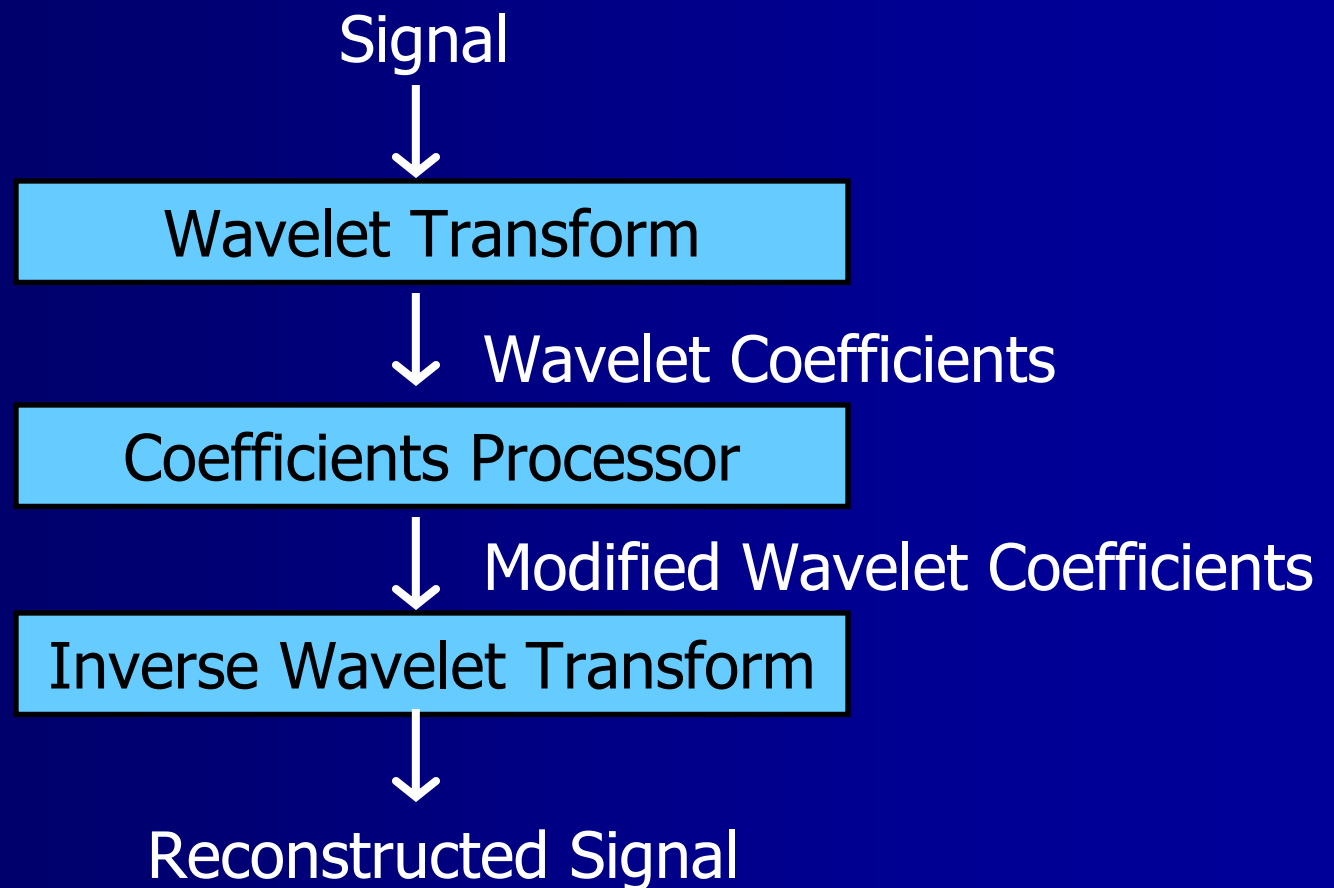
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# Basics of Wavelets

- Wavelet: small wavelike oscillating function that is localized in time
- Wavelets used to decompose signals into coefficients that give frequency and temporal information

# Wavelet DSP Framework



# Art's Wavelet Effects

- Java implementation of the Wavelet DSP Framework
- Haar and Daubechies wavelets used
- Visualization tool
- Simple examples of some effects:
  - Denoising
  - Filtering
  - Data Compression
  - Modulation