

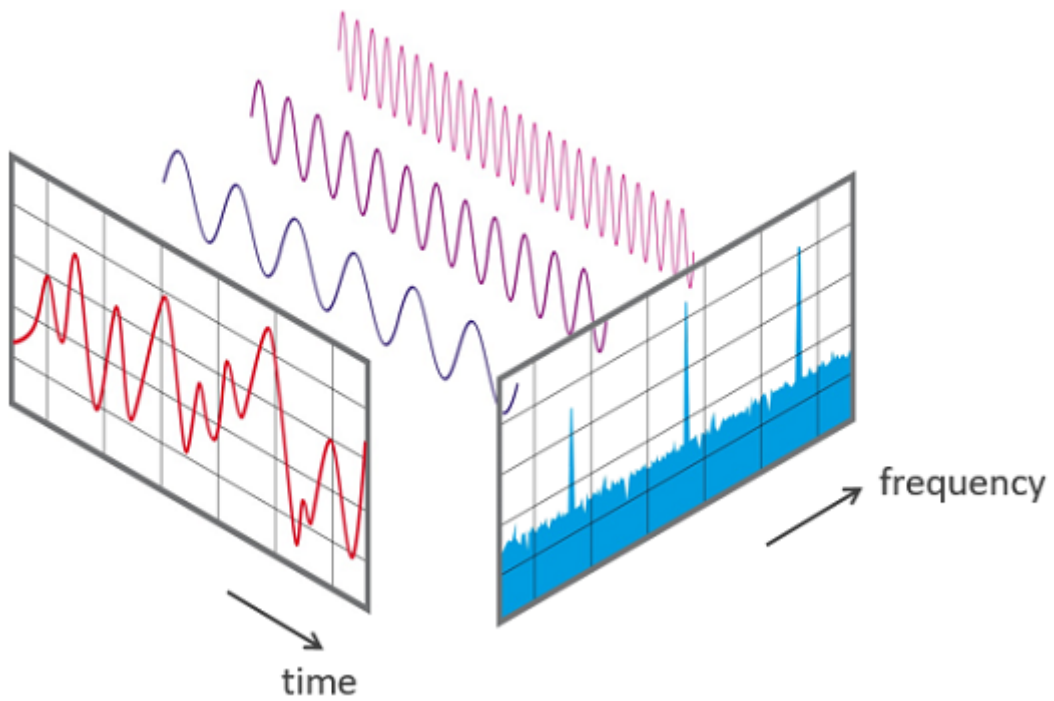


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(Fourier Transform)

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Fourier Transform

Fourier Transform is a process that converts a signal from the time domain to the frequency domain.

This transformation reveals which frequency components are present in the frequency domain and plays a crucial role in various applications such as signal analysis, filtering, spectrum analysis, and signal synthesis.

Key features and explanations of Fourier Transform:

1. **Time Domain to Frequency Domain:** Fourier Transform converts a signal from the time domain to the frequency domain. This allows us to examine the frequency components of a signal over time.
2. **Frequency Component Analysis:** Fourier Transform enables us to determine the frequency components present in a signal. This is particularly useful for tasks like analyzing audio sources, performing spectrum analysis, and vibration analysis.
3. **Inverse Fourier Transform:** The process of reversing the transformation from the frequency domain to the time domain is known as the Inverse Fourier Transform. It is used to convert filtered signals from the frequency domain back to the time domain.
4. **Analysis of Complex Signals:** Fourier Transform is used to break down complex signals into simpler frequency components. This facilitates tasks such as signal processing, frequency analysis, pattern recognition, and more.

Fourier Transform is widely employed across various fields to analyze and manipulate signals in the frequency domain, allowing us to understand and manipulate different frequency components.

FFT

Fast Fourier Transform,

- https://ko.wikipedia.org/wiki/%EA%B3%A0%EC%86%8D_%ED%91%B8%EB%A6%AC%EC%97%90_%EB%B3%80%ED%99%98



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Last update: **2025/03/27**

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