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Discrete Fourier Transform (DFT)

- The DFT provides uniformly spaced samples of the Discrete-Time Fourier Transform (DTFT)

- DFT definition:

$$X[k] = \sum_{n=0}^{N-1} x[n] e^{-j \frac{2\pi k n}{N}} \quad x[n] = \frac{1}{N} \sum_{k=0}^{N-1} X[k] e^{j \frac{2\pi k n}{N}}$$

- Requires N^2 complex multiplies and $N(N-1)$ complex additions

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