Fourier Transforms

with Stine

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2. Import the fft library.

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1. Understand complex numbers in NumPy.
2. Import the fft library.
3. Find the 1-dimensional Fourier transform of a signal.

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1. Understand complex numbers in NumPy.
2. Import the fft library.
3. Find the 1-dimensional Fourier transform of a signal.
4. Smooth out a 1-dimensional signal.

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We will learn to:

1. Understand complex numbers in NumPy.
2. Import the fft library.
3. Find the 1-dimensional Fourier transform of a signal.
4. Smooth out a 1-dimensional signal.
5. Compress an image with the 2-dimensional Fourier transform.

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Content

We will learn to:

1. Understand complex numbers in NumPy.
2. Import the fft library.
3. Find the 1-dimensional Fourier transform of a signal.
4. Smooth out a 1-dimensional signal.
5. Compress an image with the 2-dimensional Fourier transform.

Exercise Set

The exercise set will focus on finding the Fourier transform of a sound signal.