

# Audio Classification 101

# Audio Classification

## Introduction

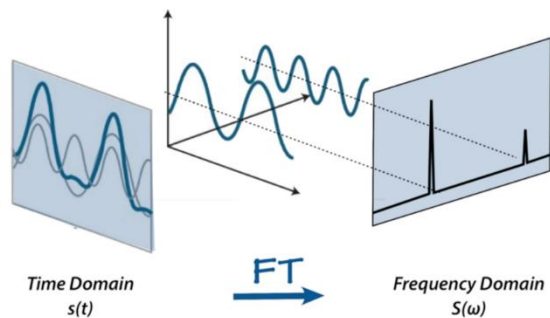
- PyTorch can be used to work with Audio-files
- Two options to treat data:
  - Time series
  - **Images**
- package torchaudio available
  - audio and signal processing
  - provides
    - I/O, signal, and data processing functions
    - datasets
    - model implementations



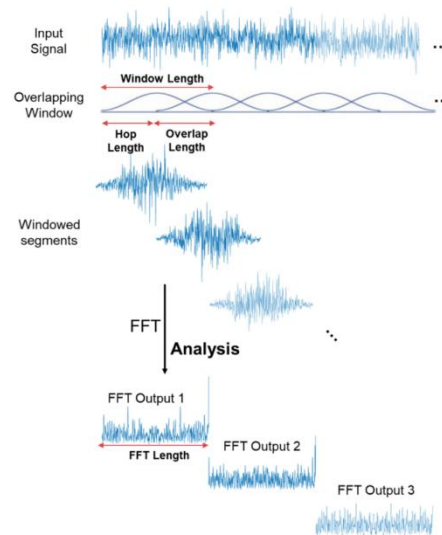
# Audio Classification

How to convert Audio to Images

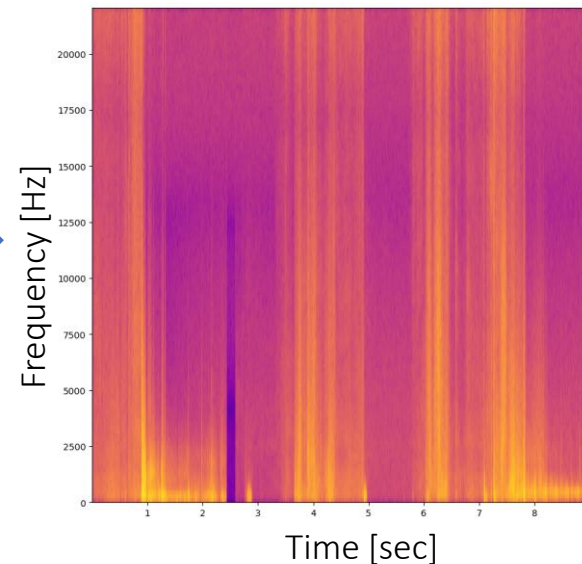
## Fast Fourier Transformation



## Conversion



## Spectrum



Source: <https://aavos.eu/glossary/fourier-transform/>

Source: <https://www.mathworks.com/help/dsp/ref/dsp.stft.html>