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# Module **training**

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## Functions

```
def convert_data(data_augumentation=0)
```

Reads audio from the specified path and converts it to WAV format in PCM 16 bit format.

**Args:**

`data_augumentation` : Flag indicating whether to perform data augmentation. Default is 0 (no data augmentation).

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```
def extract_input_target()
```

Extract the path of each songs.

**Returns:**

A list of song paths

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```
def read_audio_from_filename(filename, shift=0)
```

Read audio from the specified path and .

**Args:**

`filename` : Path of the audio to read.

`shift` : Argument used only if we want perform data augumentation. Shift the song with the selected number of semitones.

**Returns:** Audio is a matrix composed by 22050 columns and 60 rows. Each row contains the samples of 0.5 seconds of the track from 15.0s to 45.0s.

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