# VoiceFixer

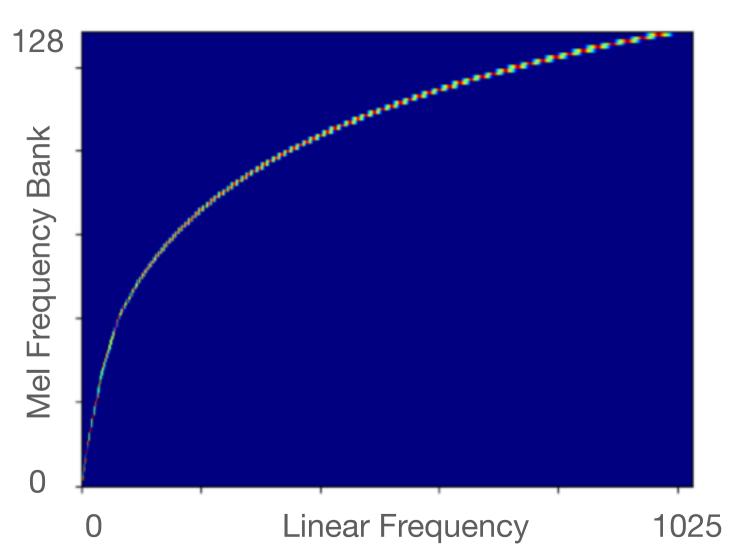
## Why using mel spectrogram?

Mimic human auditory sensitivity

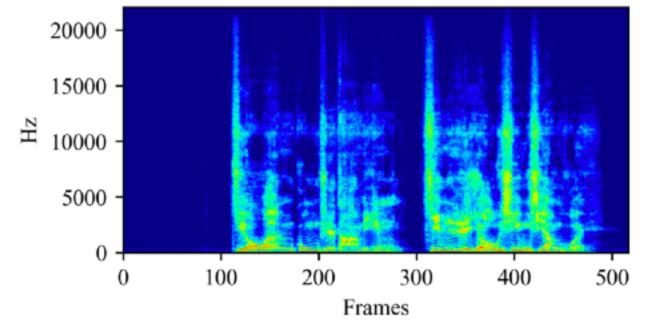
 High resolution at low frequency and low resolution at high frequency

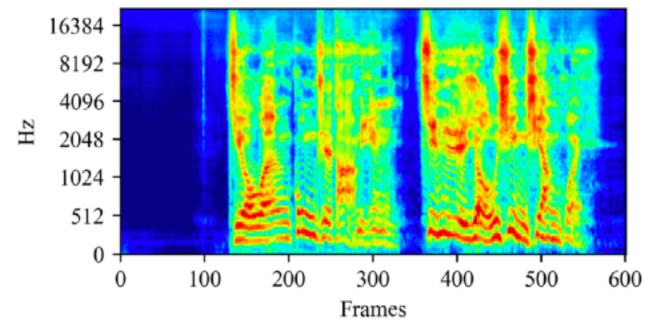
### Low dimensional feature

 Linear frequency 1025 Mel Frequencies 128









#### Log Scale Linear Spectrogram

#### Log Scale Mel Spectrogram

## resolution at high frequency

High resolution at low frequency and low

### frequency

Reduce the dimension of feature space

High resolution at low frequency and low resolution at high

 Linear frequency 1025 Mel Frequencies 128 Mimic human auditory sensitivity

Testset	Vocoder (TFGAN)	Original
ALL-GSR	3.74	3.95
VCTK-Demand	3.64	3.69
VCTK-Test	3.47	3.51

# Almost the same on perceptual quality!

#### Table.2 MOS score on three evaluation set