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May 29, 2020

1.1 Try to say the same sentence twice, then plot the MFCC for both result.




MFCC

Time

0 0.5 1 1.5 2

-3 -2 -1 0 1 2

This spectrogram shows the MFCC coefficients for the word 'cat'. The x-axis represents time from 0 to 2 seconds, and the y-axis represents frequency from 0 to 8000 Hz. The color scale ranges from -3 (blue) to 2 (red). The plot shows a series of horizontal bands of energy, with a prominent formant structure that changes over time, characteristic of the word 'cat'.



MFCC

Time

0 0.5 1 1.5 2

-3 -2 -1 0 1 2

This spectrogram shows the frequency content of the word 'cat' over time. The x-axis represents time from 0 to 2 seconds, and the y-axis represents frequency from -3 to 2 kHz. The plot shows a series of horizontal bands of energy, with a prominent formant structure that changes over time, characteristic of the word 'cat'.

2.1 how to make gTTS speak other language?

```
class gttts.tts.gTTS(text, lang='en', slow=False, lang_check=True, pre_processor_funcs=[<function tone_marks>, <function end_of_line>, <function abbreviations>, <function word_sub>], tokenizer_func=<bound method Tokenizer.run of re.compile('(?<= ?).{0,6}(?![\d])([^\d\s]+)?') from: [<function tone_marks>, <function period_comma>, <function colon>, <function other_punctuation>]>) \[source\]
```