TEXT TO SPEECH AUDIO

INDEX

1. Introduction to TTS

2. ESPnet

3. Results

4. Conclusion and resources

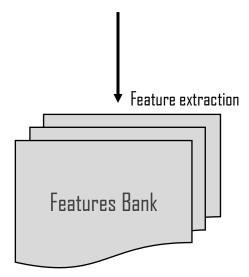
INTRODUCTION TO TTS

Hello, how are you?



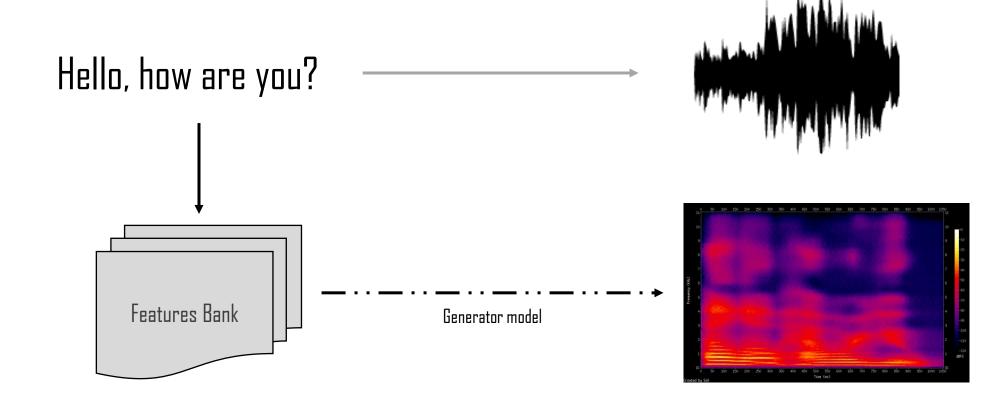
INTRODUCTION TO TTS (1)

Hello, how are you?

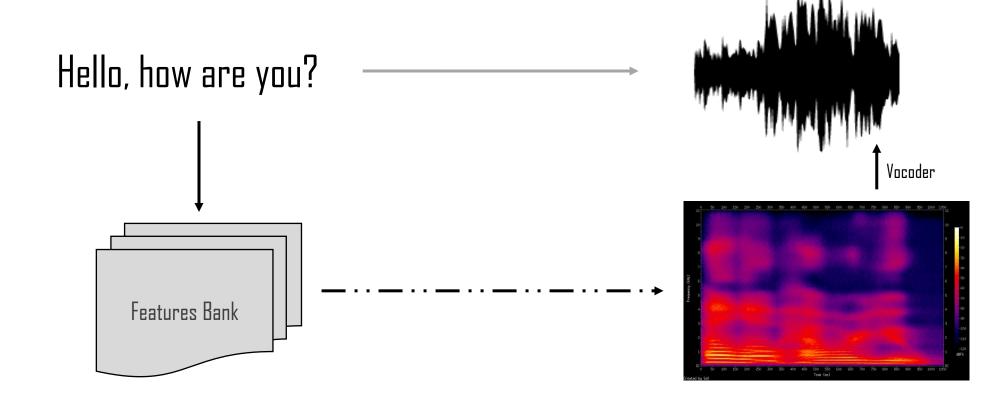




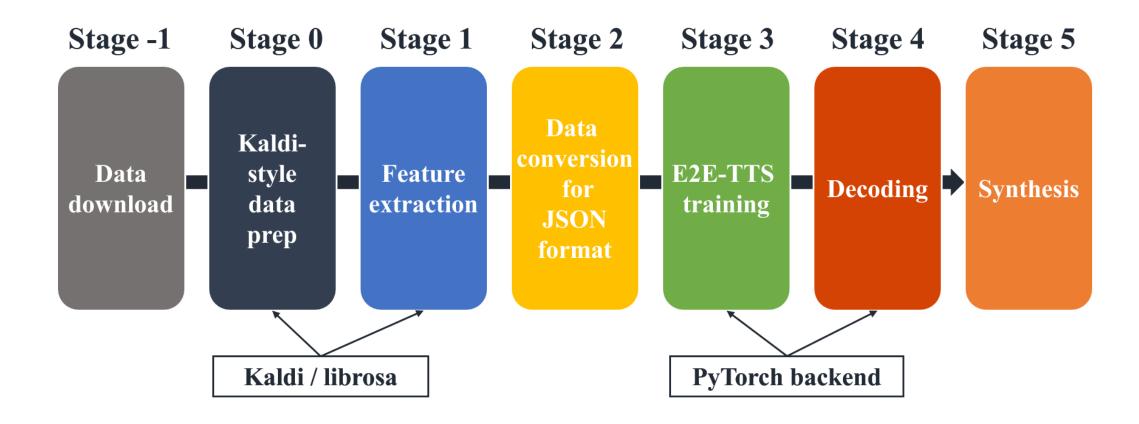
INTRODUCTION TO TTS (2)



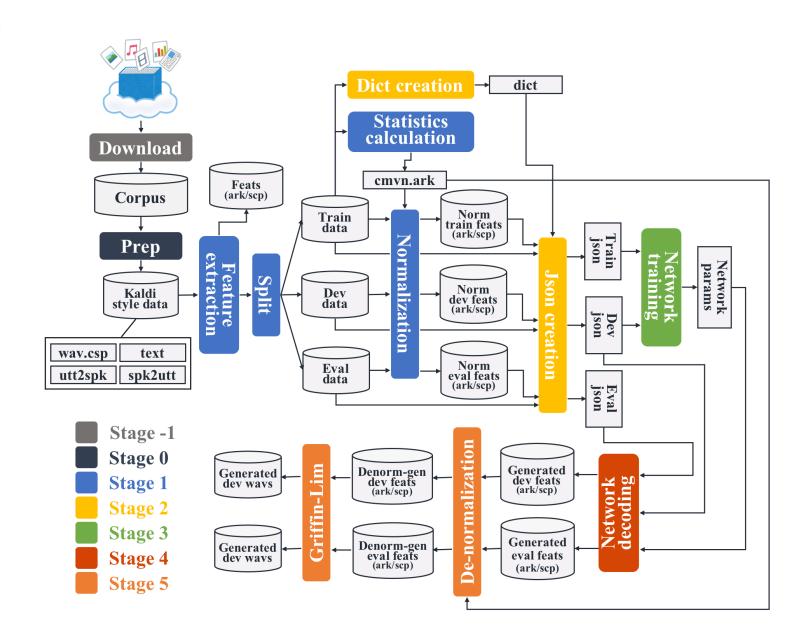
INTRODUCTION TO TTS (3)



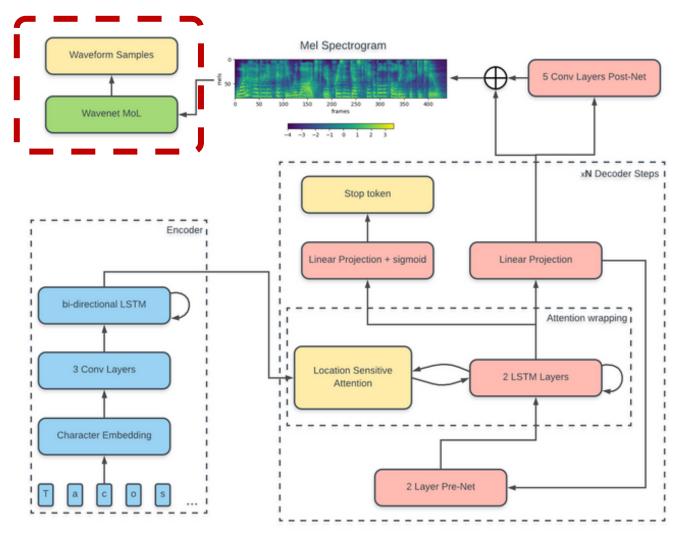
ESPNET



ESPNET



ESPNET (TACOTRON.2)

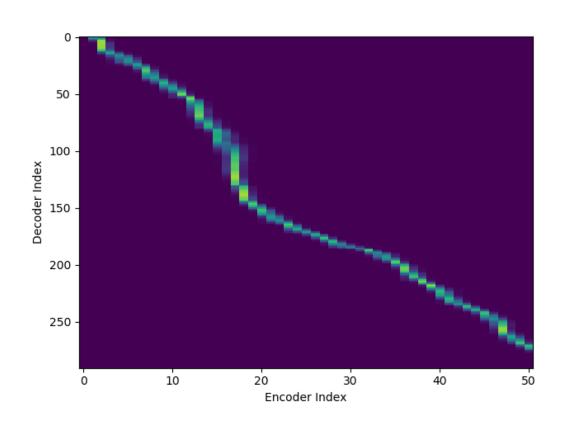


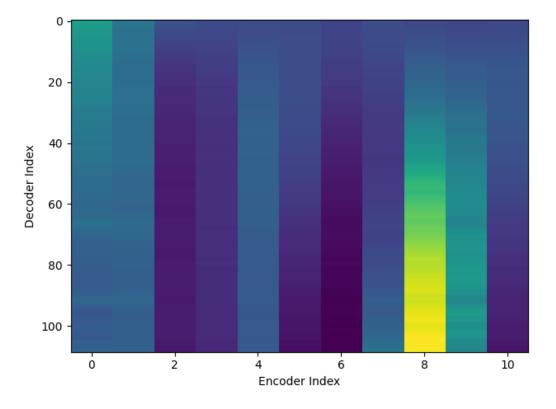
RESULTS (EVALUATION)

Subjective evaluation: MOS (Mean Opinion Score)

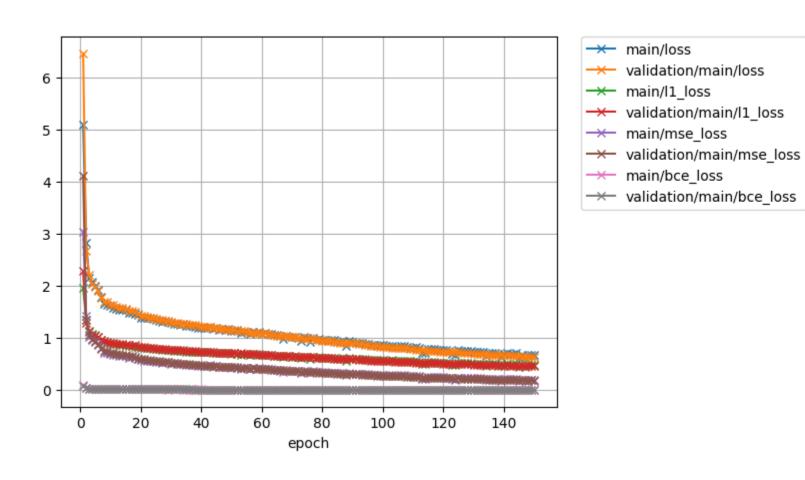
Objective evaluation: MCD (Mel Cepstral Distortion)

RESULTS





RESULTS



RESULTS (Trained model)

tacotron2

- Based on Attention Network



JANUARY SEVENTH NINETEEN SIXTY SEVEN



Yes



No



MARGARETMORRISON

RESULTS (Pre-trained model)

Hello, how are you?

```
ljspeech.fastspeech.v1

ljspeech.tacotron2.v3

ljspeech.tacotron2.v3 + Vocoder
```

CONCLUSIONS

pip install --upgrade google-cloud-texttospeech

pip install --upgrade google-cloud-speech

RESOURCES colab

https://github.com/JorgeMunnozAguado/Audio Project

https://github.com/espnet/interspeech2019-tutorial

- (TTS) https://cloud.google.com/text-to-speech/docs/libraries#client-libraries-install-python
- (ASR) https://cloud.google.com/speech-to-text/docs/libraries?hl=es-419

Shen, Jonathan, et al. "Natural tts synthesis by conditioning wavenet on mel spectrogram predictions." 2018 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP). IEEE, 2018.