TTS:
https://github.com/JasonWei512/Tacotron-2-Chinese/tree/deb9add0b6abc27b07b69bf86969a1c6d1a1ca5b

Dataset requirement (for training):

1. .wav files are required for the data set.
2. transcription of the.wav file
3. .interval file for indicating all starts and stops of pronunciation
4. a .txt file for mapping of all resources

```
000001	卡尔普#2陪外孙#1玩滑梯#4。
	ka2 er2 pu3 pei2 wai4 sun1 wan2 hua2 ti1
000002	假语村言#2别再#1拥抱我#4。
	jia2 yu3 cun1 yan2 bie2 zai4 yong1 bao4 wo3
000003	宝马#1配挂#1跋涉鞍#3，貂蝉#1怨枕#2董翁榻#4。
	bao2 ma3 pei4 gua4 bo3 luo2 an1 diao1 chan2 yuan4 zhen3 dong3 weng1 ta4
000004	邓小平#2与#1撒切尔#2会晤#4。
	deng4 xiao3 ping2 yu3 sa4 qie4 er3 hui4 wu4
000005	老虎#1幼崽#2与#1宠物犬#1玩耍#4。
	lao2 hu3 you4 zai3 yu2 chong3 wu4 quan3 wan2 shua3
000006	身长#2约#1五尺#1二寸#1五分#2或#1以上#4。
	shen1 chang2 yue1 wu2 chi3 er4 cun4 wu3 fen1 huo4 yi3 shang4
000007	赵荻#2约#1曹云腾#2去#1鬼屋#4。
	zhao4 di2 yue1 cao2 yun2 teng2 qu4 gui3 wu1
```

Figure 1. capture of '000001-010000.txt',

000001.interval | new 1

```
File type = "ooTextFile"
Object class = "TextGrid"

0
2.66
<exists>
1
"IntervalTier"
"000001.interval"
0
2.66	audio length
17	numb of interval
0	start of 'si1'
0.27958612055419324	end of 'si1' (in seconds)
"sil"	interval word
0.27958612055419324
0.406291189066745
"k"
0.406291189066745
0.5165142974475827
"a2"
0.5165142974475827
0.6143759357296349
"er2"
0.6143759357296349
0.743141249258651
"p"
0.743141249258651
0.8997198705099344
"u3"
0.8997198705099344
0.9749188136108798
"p"
```

Figure 2. an example of an interval file

Data-preprocess:

Add padding to ensure all input share equal length

Recording true length (all non-padding value)

Convert all .wav file to numpy expression

Train:

Provide the data, [x:sentence label,y:numpy list].

Evaluate:

See example in the Colab notebook

Colab Notebook
https://colab.research.google.com/drive/1dEZtktOnY-QgIJc7XinzrXrPkyIKqx-E?usp=sharing
(if you get access denied from reaching the notebook, try the github link and manual upload)

Github repo:
https://github.com/markm812/Bi-T2S

For the environment used,
You may check it with
!pip list
In the notebook

For Cantonese version:

Same requirement for the dataset:

.wav

.interval with timestamp

.txt for mapping

Potential source for dataset:
http://compling.hss.ntu.edu.sg/hkcancor/
https://github.com/liesenf/MYCanCor