Myprosody

Example usage

```
Gender recognition and mood of speech: Function myspgend(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio_File directory (Python 3.7)
mysp.myspgend(p,c)
[] a female, mood of speech: Reading, p-value/sample size= :0.00 5
Pronunciation posteriori probability score percentage: Function
mysppron(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio_File directory (Python 3.7)
mysp.mysppron(p,c)
[]Pronunciation_posteriori_probability_score_percentage= :85.00
Detect and count number of syllables: Function myspsyl(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio_File directory (Python 3.7)
mysp.myspsyl(p,c)
[]number_ of_syllables= 154
<u>Detect</u> and <u>count</u> number of fillers and <u>pauses</u>: <u>Function</u> mysppaus(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio_File directory (Python 3.7)
mysp.mysppaus(p,c)
[]number of pauses= 22
```

```
Measure the rate of speech (speed): Function myspsr(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio_File directory (Python 3.7)
mysp.myspsr(p,c)
[]rate of speech= 3 # syllables/sec original duration
Measure the articulation (speed): Function myspatc(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio File directory (Python 3.7)
mysp.myspatc(p,c)
[]articulation_rate= 5 # syllables/sec speaking duration
Measure speaking time (excl. fillers and pause): Function myspst(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio_File directory (Python 3.7)
mysp.myspst(p,c)
[]speaking_duration= 31.6 # sec only speaking duration without pauses
Measure total speaking duration (inc. fillers and pauses): Function
myspod(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio_File directory (Python 3.7)
mysp.myspod(p,c)
[]original_duration= 49.2 # sec total speaking duration with pauses
```

```
Measure ratio between speaking duration and total speaking duration:
Function myspbala(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio_File directory (Python 3.7)
mysp.myspbala(p,c)
[]balance= 0.6 # ratio (speaking duration)/(original duration)
Measure fundamental frequency distribution mean: Function
myspf0mean(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio_File directory (Python 3.7)
mysp.myspf0mean(p,c)
[]fO_mean= 212.45 # Hz global mean of fundamental frequency distribution
Measure fundamental frequency distribution SD: Function myspf0sd(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio File directory (Python 3.7)
mysp.myspf0sd(p,c)
[]f0_SD= 57.85 # Hz global standard deviation of fundamental frequency
distribution
Measure fundamental frequency distribution median: Function
myspf0med(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio_File directory (Python 3.7)
mysp.myspf0med(p,c)
[]fO_MD= 205.7 # Hz global median of fundamental frequency distribution
```

```
Measure fundamental frequency distribution minimum: Function
myspf0min(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio_File directory (Python 3.7)
mysp.myspf0min(p,c)
[]fO_min= 77 # Hz global minimum of fundamental frequency distribution
Measure fundamental frequency distribution maximum: Function
myspf0max(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio_File directory (Python 3.7)
mysp.myspf0max(p,c)
[]f0 max= 414 # Hz global maximum of fundamental frequency distribution
Measure 25th quantile fundamental frequency distribution: Function
myspf0q25(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio_File directory (Python 3.7)
mysp.myspf0q25(p,c)
[]f0 quan25= 171 # Hz global 25th quantile of fundamental frequency distribution
Measure 75th quantile fundamental frequency distribution: Function
myspf0q75(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio_File directory (Python 3.7)
mysp.myspf0q75(p,c)
[]fO_quan75= 244 # Hz global 75th quantile of fundamental frequency distribution
```

```
Overview: Function mysptotal(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio_File directory (Python 3.7)
mysp.mysptotal(p,c)
number_ of_syllables
                        154
number_of_pauses
                        22
rate_of_speech
                         3
articulation_rate
                         5
speaking_duration
                       31.6
original_duration 49.2
balance
                        0.6
f0_mean
                    212.45
                      57.85
f0_std
f0_median
                     205.7
f0_min
                         77
f0_max
                        414
f0_quantile25
                        171
f0_quan75
                        244
Compared to native speech, here are the prosodic features of your
speech: Function mysp.myprosody(p,c)
import myprosody as mysp
p="Walkers" # Audio File title
c=r"C:\Users\Shahab\Desktop\Mysp" # Path to the Audio_File directory (Python 3.7)
mysp.myprosody(p,c)
Compared to native speech, here are the prosodic features of your speech:
average_syll_pause_duration:
                                (:Out of Range)
                                25.000000 (% percentile )
No._long_pause:
                                25.000000 (% percentile )
speaking time:
```

```
ave_No._of_words_in_minutes: (:Out of Range)
articulation_rate:
                                 66.666667 (% percentile )
No._words_in_minutes:
                                 25.000000 (% percentile )
formants_index:
                                 25.000000 (% percentile )
f0_index:
                                 66.666667 (% percentile )
f0_quantile_25_index:
                                 (:Out of Range)
f0_quantile_50_index:
                                 (:Out of Range)
f0_quantile_75_index:
                                  33.333333 (% percentile )
f0_std:
                                 25.000000 (% percentile )
f0_max:
                                 33.333333 (% percentile )
f0_min:
                                 (:Out of Range)
                                 25.000000 (% percentile )
No._detected_vowel:
                                 66.666667 (% percentile )
perc%._correct_vowel:
(f2/f1)_mean:
                                 66.666667 (% percentile )
(f2/f1) std:
                                 33.333333 (% percentile )
                                 25.000000 (% percentile )
no. of words:
no._of_pauses:
                                 25.000000 (% percentile )
                                 33.333333 (% percentile )
intonation_index:
(voiced_syll_count)/(no_of_pause): 66.666667 (% percentile )
TOEFL Scale Score:
                                  66.666667 (% percentile )
                                  66.666667 (% percentile )
Score_Shannon_index:
                                  25.000000 (% percentile )
speaking rate:
```

Development

My-Voice-Analysis was developed by MYOLUTIONS Lab in Japan. It is part of New Generation of Voice Recognition and Analysis Project in MYSOLUTIONS Lab. That is planned to rich the functionality of My-Voice Analysis by adding more advanced functions.