

My-Voice Analysis

Example usage

Gender recognition and mood of speech: Function *myspgend(p,c)*

```
mysp=__import__("my-voice-analysis")

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)*

```
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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)*

```
mysp=__import__("my-voice-analysis")

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
```

Detect and count number of fillers and pauses: Function *mysppaus(p,c)*

```
mysp=__import__("my-voice-analysis")

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)*

```
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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)*

```
mysp=__import__("my-voice-analysis")

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)*

```
mysp=__import__("my-voice-analysis")

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)*

```
mysp=__import__("my-voice-analysis")

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)*

```
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p="Walkers" # Audio File title
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mysp.myspbala(p,c)

[ ]balance= 0.6 # ratio (speaking duration)/(original duration)
```

Measure fundamental frequency distribution mean: Function *myspf0mean(p,c)*

```
mysp=__import__("my-voice-analysis")

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)

[ ]f0_mean= 212.45 # Hz global mean of fundamental frequency distribution
```

Measure fundamental frequency distribution SD: Function *myspf0sd(p,c)*

```
mysp=__import__("my-voice-analysis")

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)*

```
mysp=__import__("my-voice-analysis")

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)

[ ]f0_MD= 205.7 # Hz global median of fundamental frequency distribution
```

Measure fundamental frequency distribution minimum: Function

myspf0min(p, c)

```
mysp=__import__("my-voice-analysis")
```

```
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)
```

```
[]f0_min= 77 # Hz global minimum of fundamental frequency distribution
```

Measure fundamental frequency distribution maximum: Function

myspf0max(p, c)

```
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```

```
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)

```
mysp=__import__("my-voice-analysis")
```

```
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)

```
mysp=__import__("my-voice-analysis")
```

```
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)
```

```
[]f0_quan75= 244 # Hz global 75th quantile of fundamental frequency distribution
```

Overview: Function *mysptotal(p,c)*

```
mosp=__import__("my-voice-analysis")
```

```
p="Walkers" # Audio File title
```

```
c=r"C:\Users\Shahab\Desktop\Mosp" # Path to the Audio_File directory (Python 3.7)
```

```
mosp.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
f0_std	57.85
f0_median	205.7
f0_min	77
f0_max	414
f0_quantile25	171
f0_quan75	244

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.
