audio-collector
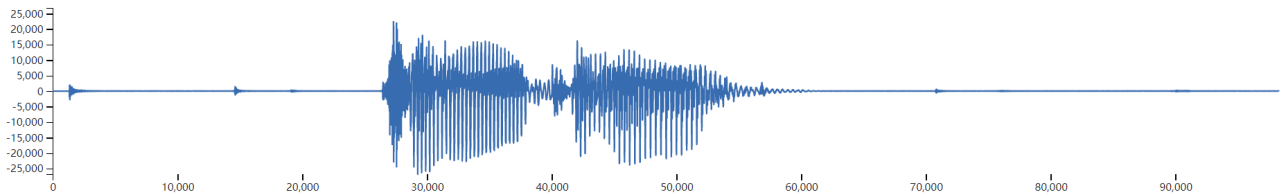
Audio collecting website for building a **speech dataset** of 20 isolated words for *Digital Signal Processing Spring 2019* course project

DSP	🎤

Student ID	No.
16307130000	5

第1轮04: 中国

▶ 0:02 / 0:02

Dataset

The speech dataset collected by this website is on https://github.com/czhongyu/DSPSpeech-20

Vocabulary

Each individual is required to record the following 20 words 20 times each word.

00	01	02	03	04	05	06	07	08	09
数字	语音	语言	识别	中国	总工	北京	背景	上海	商行

10	11	12	13	14	15	16	17	18	19
复旦	饭店	Speech	Speaker	Signal	Process	Print	Open	Close	Project

Parameters

Format	AudioFormat	NumChannels	SampleRate	BitRate	BitDepth	length
`.wav`	PCM	1	16 kHz	256 kbps	16 bits	~2 s

These are the important parameters regarding the audio files. If you'd like to get more information about the audio files, you can look closely at the header of the files. While doing so, keep in mind that it's **little-endian** format!

Website

https://czhongyu.github.io/audio-collector/

- **wave curve** shows the wave pattern of your last recording
- **Bezier curve** visually shows the volume of what the mic captures
- **volume bar** shows the volume with its value (0 ~ 100) and a green bar
- **Student ID input field** input your ID here
- **No. input field** input a `number` (1 ~ 400) here
- **round** (1 ~ 20) `round = number / 20 + 1`
- **label** (00 ~ 19) `label = number % 20`
- **prompt word** will change as the label changes
- **mic button** starts recording
- **ear button** plays back the recording
- **download button** downloads the recording

Browser Compatibility

- It works on **Google Chrome** and **360 Secure Browser**.
- It does NOT work on **Safari**, **Microsoft Edge** and **Internet Explorer**!

Usage

- Visit the above website and enter the recording page
- Input your student ID and the `number`
- Click **mic button** to start recording and say the prompt word clearly in 2 seconds
- Click **ear button** to confirm your recording
- Click **download button** to download your recording
- Repeat the above process as the `number` changes from 1 to 400
- Put the 20 x 20 correctly named recordings in a folder named after your student ID

Attention

- It works best with full screen as the charts are not adaptive!
- If the browser is not compatible, you will be alerted and please use another browser!
- If access to your mic is blocked, the start button will remain disabled and you will also be alerted!
- If you click **download button** with no ID input, download will fail and you will also be alerted!
- Remember to enable the mic as well!

Author

Zhongyu Chen