# **TagCloud**

Generate TagClouds from input, with the bigger text represent frequency of the word.

#### Live

http://www.datatagcloud.com/

## Repo

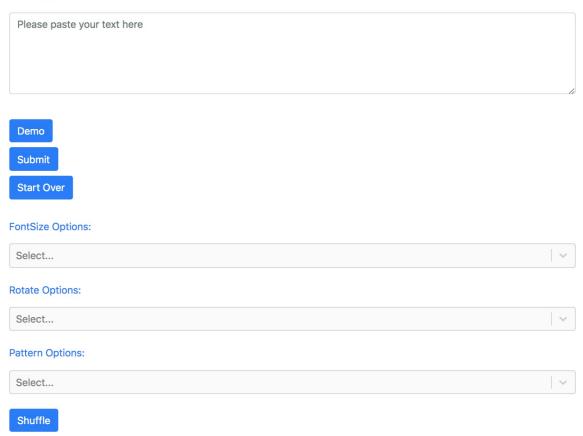
https://github.com/klhang/wordCloud/



## **Usage**

npm install
npm run build
npm start

## **TagCloud**



### **Features**

- 1. User can submit texts and generate tag clouds
- 2. User can also see the effect of animation for the cloud by clicking demo
- 3. Animation options include:
  - a. change of font size: 10px, 15px, 20px
  - b. rotation of the cloud: -45°, -30°, 0°, 30°, 45°
  - c. pattern by frequency: most frequent, least frequent
  - d. shuffle positions of words in the cloud
- 4. Validation for input is implemented to check if there is enough unique words provided, restrictions include:
  - a. the amount of unique words should be between 20 120
  - b. numbers and punctuations are not consider valid
  - c. single letter is not considered valid
  - d. empty space is not considered valid
- 5. Algorithm to auto select initial font size for cloud generation based on unique word count of the input to achieve better visual effect
  - a. auto select font size of 10px if word count > 100
  - b. auto select font size of 20px if word count < 40

- 6. Project is deployed to AWS ec2 instance with a unique domaine for public access
- 7. Project repo is open to public with concise installation info and detail code comments

## **Stacks**

- 1. react
- 2. d3-cloud
- 3. react-d3-cloud
- 4. react-select
- 5. JavaScript

## **Future Features**

- 1. Download tag cloud as svg
- 2. Upload photo to be the appearence pattern of the tag cloud
- 3. Social media sharing of the tag cloud
- 4. More animation options