Markov Chain Sentence Generator

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A JavaScript implementation of Markov Chain used to generate sentences based on text file.

1. How it works?

.TXT file is transformed into an array of words (unnecessary commas, hyphens, multiple spaces are being cut). Then the array without duplicates is transformed into array of Word objects(key: String, next: Arr[Object]). Words from previous array are being used as index of Word objects, the one-way connections are made.

2. File system

Node.js project:

1. -src:

index.js - user interface file read.js - read-from-file function is stored here chain.js - all other functions are stored here

2. -data:

A directory for .TXT files Imported .TXT files:

- i. Harry Potter and the Sorcerer's Stone by J.K. Rowlings
- ii. Hamlet by William Shakespeare
- iii. Lalka by Bolesław Prus
- 3. -es5out

A directory with ES5 versions of .js files.

3. Depedencies

- 1. lodash
- 2. nodemon
- 3. eslint
- 4. babel
- 5. fs
- 6. axios (not used yet)

4. How to use

Available functions:

Instruction:

- 1. Put your .txt file into data directory
- 2. Create chain using fileToChain("yourfile.txt") function
- 3. You can print sentences by using printSentences function
- 4. You can get array of following words using getNextArr function