Text Suggestion Presentation

https://cwl286.shinyapps.io/TextSuggestion/

cwl

Introduction

Objective

- Build a predictive model of English text
- Develop an interface for our model via a Shiny application.
- When a user type text, he can see predictions for his next word

Background

- Final task in the Data Science Capstone to create a usable data product

Data

- Provided by the Data Science Capstone
- en_US.blogs.txt, en_US.news.txt, en_US.twitter.txt

Model

- Apply N-gram to build our model
- (N-gram: a contiguous sequence of n items from a given sample of text)

Preprocessing

- Remove URLs
- Remove punctuation
- Remove numbers
- Remove English stopwords
- Remove special characters

N-gram

- Train Bigram, Trigram, 5-grams and 7-gram

Application Features

- Automatic suggestion
- Build your own model
- Generate "composition"
- Interactive selection
- Suggestion visualization

How to use

- Type a text for suggestions for the next word. Suggested words are in the Wordcloud and the bar chart.
- Click the word cloud and the bar chart as an input
- Suggestions are automatically updated if Auto-Suggestion is selected
- Can build your model by uploading a text file.
- After you built your model, you can select to use our default model or your prediction model.
- Our application can generate an English-like composition based on your input.

Futher Information

- Shiny application: Text Suggestion
- View Source
- View course information (Data Science Capstone)
- Report bug