Coding Challenge #42.1: Markov Chains - Part 1

1st May 2020 at 8:59pm

Coding Challenges   csharp

- https://www.youtube.com/watch?v=eGFJ8vugIWA&feature=youtu.be
- The Coding Train page for the project has a lot of interesting references I'm not listing because I'm not going to look at them in depth right now
  - https://thecodingtrain.com/CodingChallenges/042.1-markov-chains.html

What is the purpose of this exercise?

- Understand Markov chains to some degree
- Create a basic bullshit generator
- Introduce Michael to basic programming

What should I get out of doing this exercise?

- Improve my ability to manipulate text
- Improve my Git collaboration skils

What I have got from doing this so far?

- I found an article for adding a Output/debug console to a WPF application
  - https://social.technet.microsoft.com/wiki/contents/articles/12347.wpf-howto-add-a-debugoutput-console-to-your-application.aspx
- I gained a better understanding of Equals override
- I wrote pretty clean code
- I've improved may ability to manipulate text in csharp
- I reviewed and used git branch, push, pull, checkout
  - Didn't do any manual merges

Specifications

- Programmatically break a string into every possible n-gram
- Output auto generated strings composed of n-grams based on probability

Possible Modifications

- Generate text at the word level instead of the character level
- Implement the project with a WPF UI

- Fetch text automatically from some news organization or other source
  - Maybe a random wikipedia article
  - Popular reddit post

References

1. https://en.wikipedia.org/wiki/Markov_chain
2. https://en.wikipedia.org/wiki/N-gram