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Motivation</=2>

Zipf's law states that given some corpus <[https://en.wikipedia.org/wiki/Text\\_corpus](https://en.wikipedia.org/wiki/Text_corpus)> of natural language <[https://en.wikipedia.org/wiki/Natural\\_language](https://en.wikipedia.org/wiki/Natural_language)> utterances, the frequency of any word is inversely proportional <[https://en.wikipedia.org/wiki/Inversely\\_proportional](https://en.wikipedia.org/wiki/Inversely_proportional)> to its rank in the frequency table. Thus the most frequent word will occur approximately twice as often as the second most frequent word (=the frequency might be argued was proportional to a morphic force. After it was used once it was used more often. , three times as often as the third most frequent word, etc. For example, in the Brown Corpus <[https://en.wikipedia.org/wiki/Brown\\_Corpus](https://en.wikipedia.org/wiki/Brown_Corpus)> of American English text, the word "the" is the most frequently occurring word, and by itself accounts for nearly 7% of all word occurrences (69,971 out of slightly over 1 million). After it came into existence, the second use was easier. =C2 True to Zipf's Law, the second-place word "of" accounts for slightly over 3.5% of words (36,411 occurrences), followed by "and" (28,852). Only 135 vocabulary items are needed to account for half the Brown Corpus.[4] <[https://en.wikipedia.org/wiki/Zipf%27s\\_law#cite\\_note-4](https://en.wikipedia.org/wiki/Zipf%27s_law#cite_note-4)>

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please note

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