|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | Frequency | | Textbook | | Provided | | Found | |
| KA | DA | KA | DA | KA | DA | KA | DA |
| deer | 0.2692307692307692 | 0.26471001263867433 | 0.5384615384615384 | 0.09563263586574919 | 1.0 | 1.0 | 1.0 | 1.0 |
| forest | 0.04 | 0.18313618441006976 | 0.0 | 0.032817713072490144 | 0.11764705882352941 | 0.08333333333333333 | 0.72 | 0.9141037306642402 |
| pangram | 0.0 | 0.0 | 0.0 | 0.0 | 0.48 | 0.5882352941176471 | 0.23076923076923078 | 0.4 |
| tree | 0.34615384615384615 | 0.4207882047009518 | 0.6923076923076923 | 0.15185942588805573 | 1.0 | 1.0 | 1.0 | 1.0 |
| woodm | 0.13636363636363635 | 0.1769436997319035 | 0.0 | 0.05630026809651475 | 0.95 | 0.9759036144578314 | 1.0 | 1.0 |
| 1984 | 0.125 | 0.08 | 0.0 | 0.0 | 1.0 | 1.0 | 0.0625 | 0.038461538461538464 |
| finnegan | 0.16 | 0.1746495327102804 | 0.0 | 0.006717289719626168 | 0.9473684210526315 | 0.9625 | 1.0 | 1.0 |

URL: <https://www.guballa.de/substitution-solver>

1. The choice of key used to encrypt the text files affect the results of evaluation. Because whenever you change the key, you changed the mapping of the keys, and this will affect the results of the evaluation.
2. Conclusion: The frequency analysis decipher does not really work for decipher. The key accuracy and the decipherment accuracy is low. The message it decrypts out is long way away from the correct text.
3. The tree text get the highest accuracy scores. The key accuracy for tree text in frequency analysis, is the highest which means, the map of the key is closed to the frequency analysis key map. Also since the high key accuracy for pattern-based solver, that means, the pattern key should be really clear enough.
4. Doing the English dictionary (or other languages dictionary) check to fix the key map.