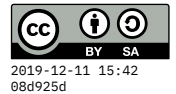


Assignment 8: Cryptography



16 December 2019

There are two parts to this assignment. Provide the requested answers and information on (or attached to) a GitLab wiki page called A8 in your main CS101 repository.

(1) Monoalphabetic cipher

Below are individualized links pieces of text encoded using a single-substitution (monoalphabetic) cipher. Your task is to **crack the code** and discover the secret poem. You should start by doing a **frequency analysis** of the letters in your text.

When finished, take a picture of your decrypted text, and attach it to your wiki page.

AL	9482	text16.crypt.pdf
AM	6470	text23.crypt.pdf
AM	9063	text12.crypt.pdf
AN	2026	text11.crypt.pdf
AR	8693	text09.crypt.pdf
AW	1120	text07.crypt.pdf
BJ	1758	text10.crypt.pdf
CB	0786	text04.crypt.pdf
CD	7177	text04.crypt.pdf
CF	7260	text05.crypt.pdf
CO	2217	text12.crypt.pdf
EV	1014	text06.crypt.pdf
GA	5341	text21.crypt.pdf
GR	3209	text17.crypt.pdf
HT	4995	text20.crypt.pdf
IP	7121	text03.crypt.pdf
JC	3866	text18.crypt.pdf
JV	2547	text14.crypt.pdf
KB	2597	text15.crypt.pdf
KG	0351	text03.crypt.pdf
KH	8171	text08.crypt.pdf
KR	8920	text11.crypt.pdf
KV	3181	text16.crypt.pdf
LC	5362	text22.crypt.pdf
LF	7631	text07.crypt.pdf
LJ	2323	text13.crypt.pdf
LJ	9222	text15.crypt.pdf
LK	6885	text02.crypt.pdf
MB	1002	text05.crypt.pdf
ML	4201	text19.crypt.pdf
MZ	8853	text10.crypt.pdf
NP	9205	text14.crypt.pdf
OS	1559	text09.crypt.pdf
SA	9088	text13.crypt.pdf
TR	7435	text06.crypt.pdf
VB	0068	text02.crypt.pdf
XW	1354	text08.crypt.pdf

(2) Vigenère cipher

1. Choose a password that is 5–8 letters, and write it down.
2. Write down a sentence that is about 4–6 times the length of your password.

3. Use the polyalphabetic substitution table to encode the sentence using your password.
4. Type the encrypted sentence **and the password** directly into your wiki page (does not need to be an attachment).
5. You'll get full credit for this portion only if I can make sense of your sentence by decrypting using your password. So you may want to give that a test run with a friend: give them your encrypted sentence and password, and see if they get it right.