

# Bacon's Bilateral Cipher

Math 135, January 25

In 1623, Francis Bacon created a cipher system using the techniques of substitution and *steganography* - the art of writing hidden messages in such a way that no one apart from the sender and receiver know of its existence. We describe his system using binary notation (rather than the a-b notation he used).

**Binary representation of the Roman alphabet:** We give a table which translates each letter of the alphabet to 5 bit binary words.

Table 1: Binary alphabet

A	B	C	D	E	F	G	H	I
00000	00001	00010	00011	00100	00101	00110	00111	01000
J	K	L	M	N	O	P	Q	R
01001	01010	01011	01100	01101	01110	01111	10000	10001
S	T	U	V	W	X	Y	Z	
10010	10011	10100	10101	10110	10111	11000	11001	

**Variation of Font:** Fix the rule that if a letter has a 0 above it remains in normal font while a letter with a 1 above it will be in boldface. (Note: Bacon used a much more subtle difference in font. see Barr pg. 14).

**Encryption:** Now assume you want to encipher the 23 letter plain text:

BACON TAUGHT ME HOW TO THINK

1. Choose any block of text (call it the message text) which is at least 5 (the number of binary bits in our alphabet) times the length of the message:

$$23 \times 5 = 115.$$

We will choose the text of the Wikipedia entry for Phrenology:

*"Phrenology is a theory which claims to be able to determine character, personality traits, and criminality on the basis of the shape of the head."*

2. Rewrite the message text in blocks of five letters

# Cipher Clues In Francis Bacons Work

**ML Morrison**



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