

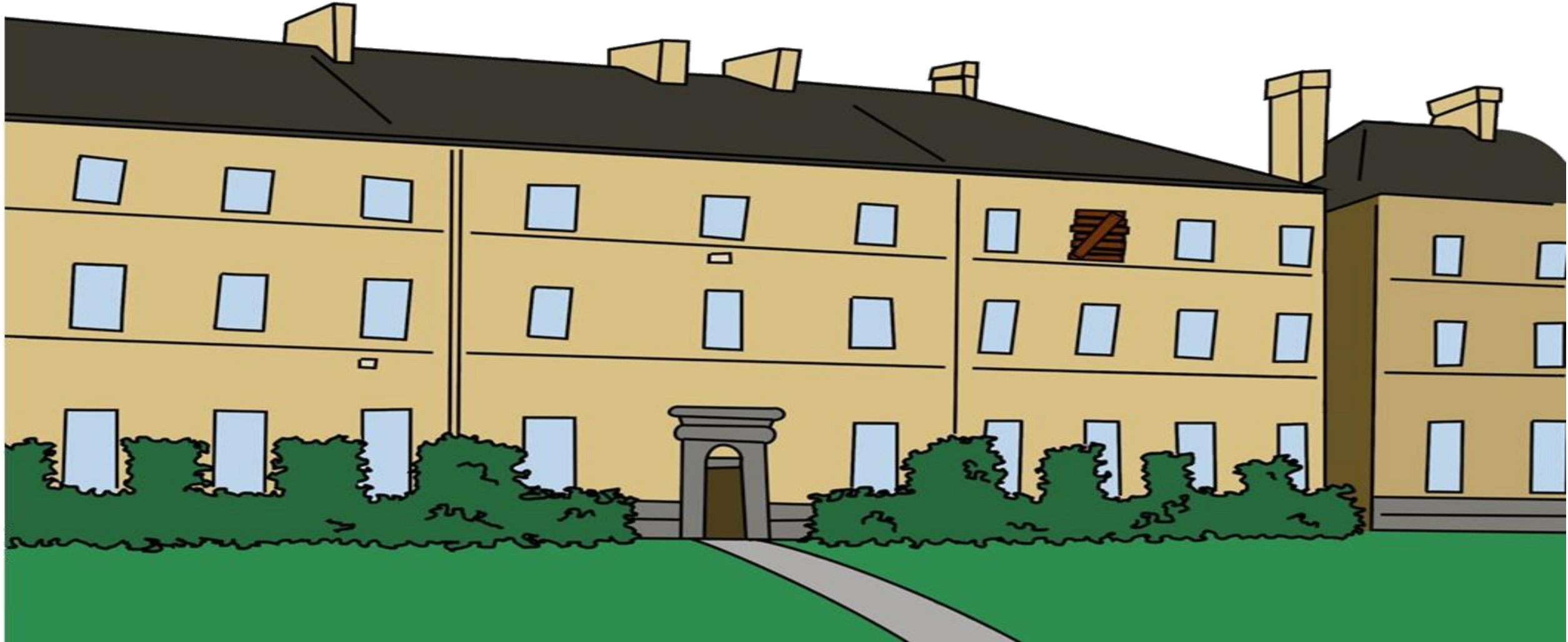
Baker Street *Elementary*

PRESENTS
"THE LIFE AND TIMES IN VICTORIAN LONDON"



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THE LIFE AND TIMES IN VICTORIAN LONDON
A051 -- MAKING SENSE OF THE MESSAGE -- FEBRUARY, 2022



WELCOME TO TOPIC # 051... TODAY, WATSON AND I
WILL LOOK AT CODES AND CIPHERS DURING OUR PERIOD.



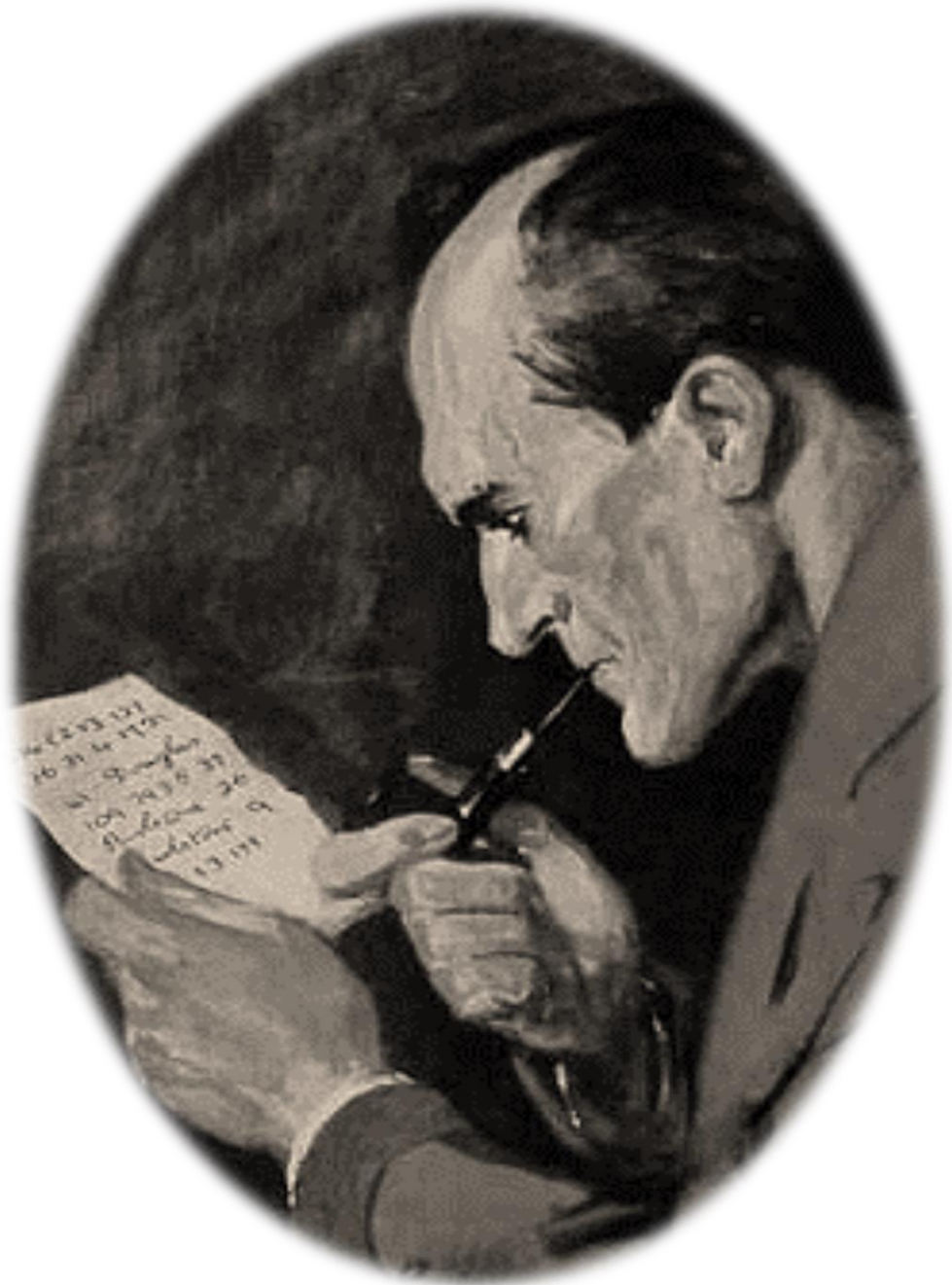
CIPHERS OR CODES WERE USED IN SIX OF THE SHERLOCK HOLMES' STORIES, OF WHICH FOUR I MUST CRACK TO SOLVE A CASE.





I NOTED IN 'THE ADVENTURE OF THE DANCING MEN' I HAD ANALYZED ONE HUNDRED-SIXTY CIPHERS AND DID COME ACROSS DIFFERENT ONES IN EACH OF THESE STORIES.





**IN THE VALLEY OF FEAR, I USED AN ALMANAC TO
LOCATE THE WORDS SPECIFIED BY A SERIES OF
NUMBERS AND LETTERS.**



IN 'THE ADVENTURE OF THE GLORIA SCOTT,' YOU DETERMINED EVERY THIRD WORD IN A NONSENSICAL MESSAGE WAS A WARNING TO THE RECIPIENT.



IN 'THE ADVENTURE OF THE DANCING MEN,' YOU USED YOUR KNOWLEDGE OF SUBSTITUTION CODES (MORE ABOUT THAT LATER) TO READ A SERIES OF MESSAGES SENT THROUGH A STRING OF STICK FIGURE DRAWINGS.



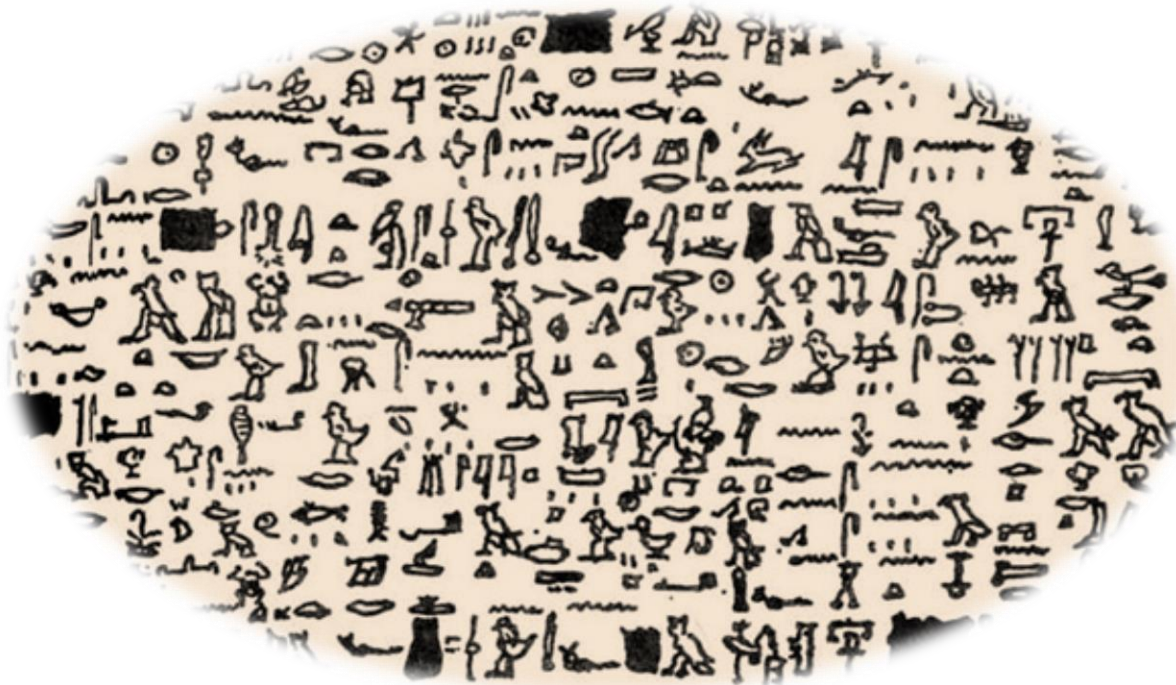
YOU USED A CODE YOU SAW IN THE PERSONAL COLUMNS TO CONTACT EMILIA LUCCIA IN 'THE ADVENTURE OF THE RED CIRCLE.'





THE OTHER TWO STORIES ('THE ADVENTURE OF
THE SECOND STAIN' AND 'HIS LAST BOW')
MENTIONED A CODE BUT NEITHER REQUIRED YOUR
DECIPHERING SKILLS.



CRYPTOGRAPHY, OR THE ART OF WRITING OR SOLVING CODES, HAS A HISTORY GOING BACK TO ANCIENT EGYPT WHERE A TEXT REARRANGED THE LETTERS IN A STONE CARVING TO KEEP THE MESSAGE SECRET.



IN A TIME BEFORE THE INTERNET OR TELEPHONE,
 SUCH MESSAGES HAD USES FROM LOVERS SENDING
 SECRET MESSAGES TO POLITICAL AND RELIGIOUS
 INTRIGUE TO WARFARE.

A	 or 	H	 or 	O		V	
B		I		P		W	
C	 or 	J		Q		X	
D		K		R		Y	 or 
E		L		S		Z	
F		M		T			
G		N		U			

SH = CH = KH ●

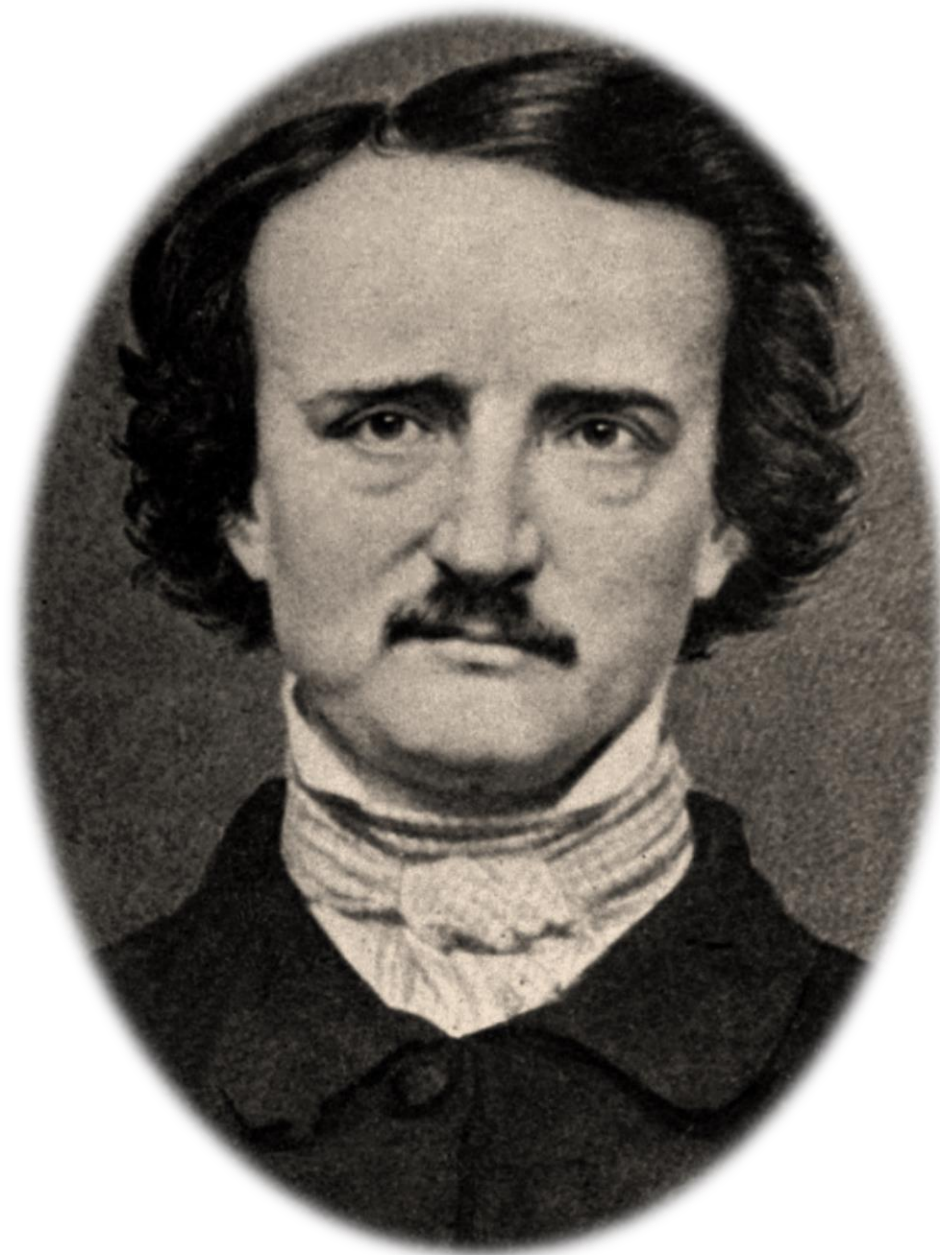
 or 



LETTERS COULD BE STOLEN AND USED FOR
BLACKMAIL, AS IN 'THE ADVENTURE OF THE
SECOND STAIN.'



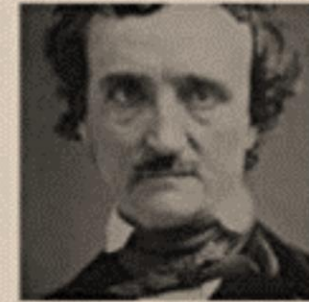
THE 1800s, HOWEVER, SAW A SURGE IN THE PRACTICE, RELATED IN PART TO EDGAR ALLAN POE'S ESSAYS AND EFFORTS TO SOLVE CODED MESSAGES...



*...AS WELL AS CHARLES BABBAGE'S SOLVING OF
MORE COMPLICATED CIPHERS DURING THE BRITISH
CRIMEAN WAR.*



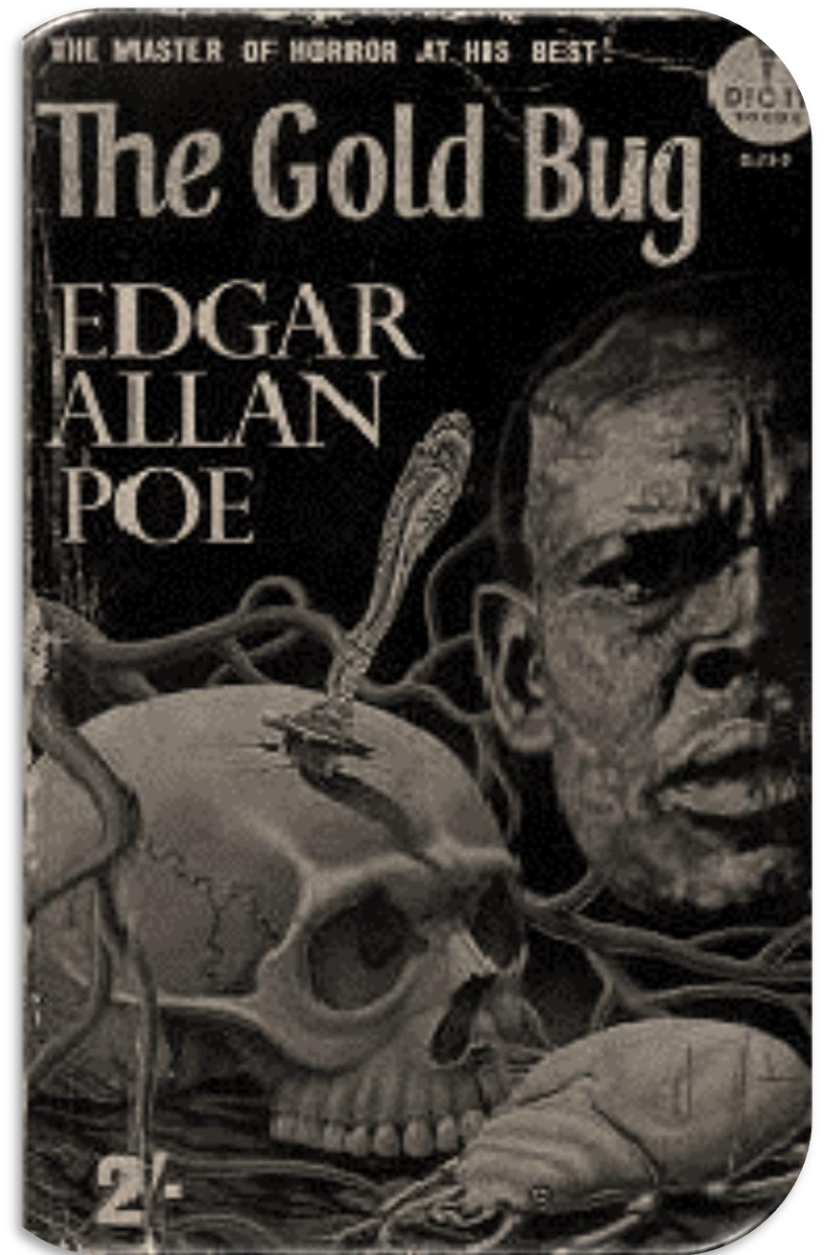
POE'S FASCINATION WITH CRYPTOGRAPHY WAS
QUITE APPARENT IN A SERIES OF ESSAYS 'A FEW
WORDS ON SECRET WRITING' WHERE HE
DISCUSSED THE USE OF...



*A Few
Words on
Secret Writing*

Edgar Poe

...SUBSTITUTION CODES, WHICH HE USED IN HIS SHORT STORY 'THE GOLD BUG' AND CHALLENGED HIS READERS TO SUBMIT MESSAGES FOR HIM TO DECIPHER.



SUBSTITUTION CODES INVOLVE USING A 26-WORD PHRASE (OR A SERIES OF 26 SYMBOLS) WHERE THE ALPHABET IS WRITTEN UNDERNEATH, AND THE MESSAGE IS THEN REWRITTEN USING THE NEW LETTERS OR SYMBOLS.

Substitution Codes

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

Can you crack my code?

- | | | | |
|------------|-------------|---------------|----------------|
| 1. $g + o$ | 6. $i - j$ | 11. $k - q$ | 16. $kp - m$ |
| 2. m^2 | 7. dg | 12. $j^2 + g$ | 17. $m - u$ |
| 3. $a + g$ | 8. $r - g$ | 13. $b - f$ | 18. $k(j - m)$ |
| 4. $q - y$ | 9. gk | 14. f^2 | 19. $h(k^2)$ |
| 5. $f + w$ | 10. $d + f$ | 15. $e^2 - y$ | |

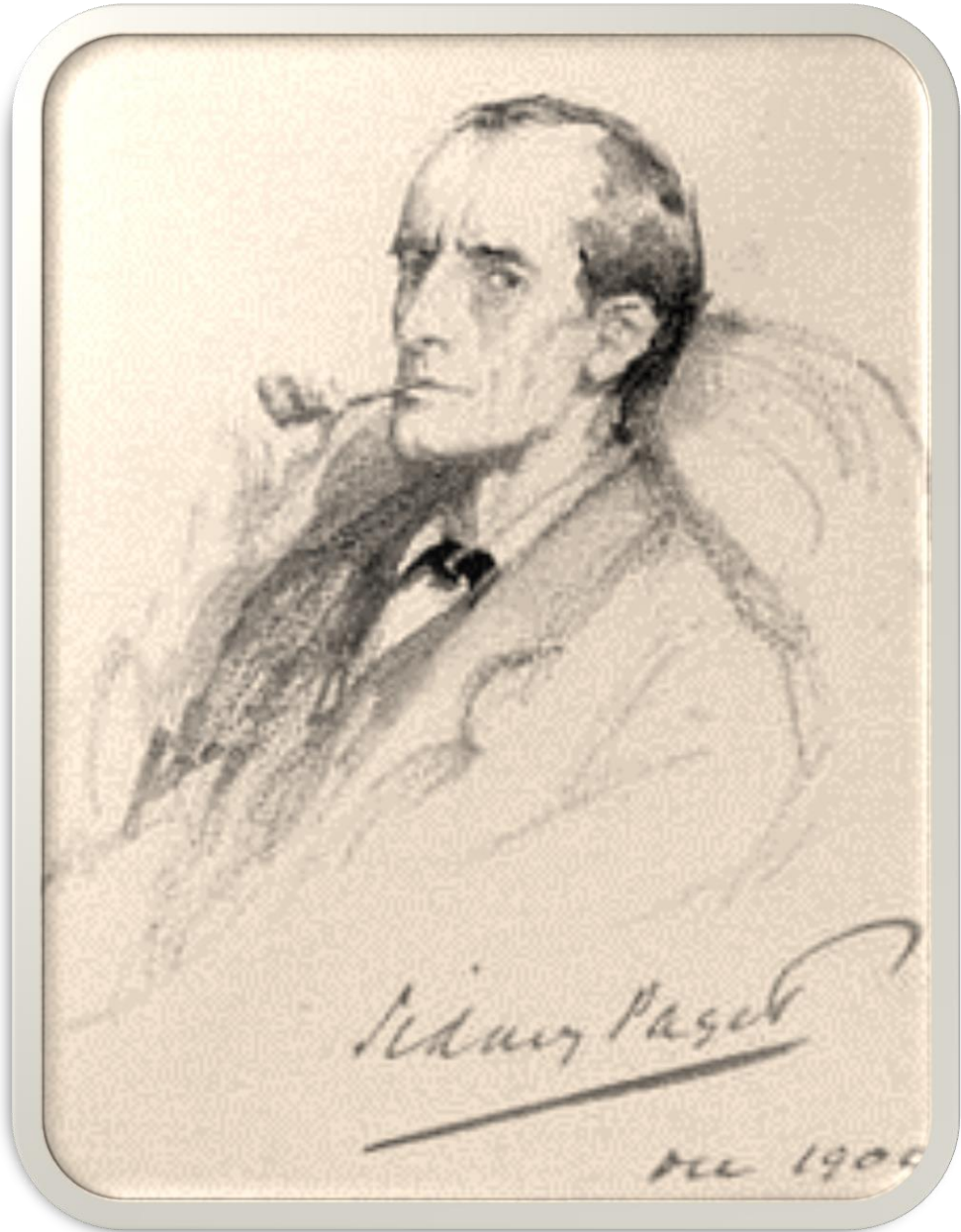


FOR EXAMPLE, USING THE LATIN PHRASE
'SAUVITER IN MODO, FORTITER IN RE' ('GENTLE
IN MANNER, FIRM IN DEED'), THE NEW, CODED,
ALPHABET WOULD BE:

SAUVITERINMODOFORTITERINRE
ABCDEFGHIJKLMNPOQRSTUVWXYZ

Sauviter In modo fortiter In re
Abcdefgh ij klmn opqrstuv wx yz





'SHERLOCK HOLMES' BECOMES 'IRIOUM RFODIS.'



AS YOU DESCRIBED IN 'THE ADVENTURE OF THE
DANCING MEN,' DECODING SUCH MESSAGES
INVOLVED KNOWLEDGE OF THE MOST FREQUENTLY...



...OCCURRING LETTERS IN ENGLISH AND USING THOSE, THROUGH TRIAL AND ERROR, TO DEDUCE THE WORDS UNTIL THE MESSAGE MADE SENSE.



Dancing Man Code (Sherlock Holmes)

A	B	C	D	E	F	G	H	I	J	K	L	M
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	2	3	4	5	6	7	8	9	0			

IN AN ESSAY IN 1841, POE ANNOUNCED AFTER TWO YEARS OF CRACKING ALL HE HAD RECEIVED, HE FAILED AT TWO SUBMITTED BY W.B. TYLER... THE SECOND CIPHER WAS NOT SOLVED UNTIL 2000 BY A CANADIAN SOFTWARE ENGINEER.



To EDGAR A. POE, Esq.

Da qir OGKEW P₂FyX ngUH JIA VQ5M00
x0Tj0 SNB nVLYK3Y3 CP TAd H-Zou02
LUXif rY ng00L 000 hJXrXrXg 200000 T2
QURBXP0E yGndU0 0A 0LA 000 000DVR0
000 0FK000Z0N0000 000 000 000 000 M00
wV000X00B 000L 000 0000 0000DV 000000000
S000 00000W 0000000000000000 0000X000
000 (C) 000 000000 0000T 000 000 0000P
0000 000000 000 0000 000 000 000000000
000 000 0000 000000 0000W 000 000 000
U000000 000 VFHA 0000 X000T000 000 000 000W
X0000000000 000 0000 0000 000 000000
N0000000 000 0000 000000 0000 0000 0000
KZ00K 000 000 0000000000 000000000
000L 0000 000 000000 000 000000000
0000000 000 0000 000 000000 000000000
000 00000 000 0000000 000 000000 000
000000 000000 000 0000 0000 000000000
000 000 000000 000 000000 000 000000
000 000 000000 000 000000 000 000000
K00 000 0000 0000 0000 0000 000000000

THE MESSAGES TYLER SUBMITTED WAS NOT THE
SUBSTITUTION CODE POE HAD REQUESTED.

DR TIK OGWEX Pjufy nBUH JIA VQSMgD xDTbj
SNB csVLNKSyD JCP TAl HIZGUG LUYI ar nDdL
LMO hJFXIRI gLHAWeE Ta QJATBXPeE yGmdUJ R
SLAU uVZ tCGDYRQ dNB XFKXDGf ZONSMELL Rk O
ONI zPh Mfg wViegXHB vUuL nNDAFKSO iyvDv brsfs-
gJIT Spzi CEJNSW bGerlh aNjma sEvaThLa XakiX-
Dix wJ Cj JIK oFQAYI nDOTY kcr Qm dTBp SEB
dNBLQu Lph nNJA aIsa diky MLO cEpiwXyA sAJZ eIf
kMx xyKSSg HlitvW qP qTio dEj rVv Uoicame nk
VFHA IDah XMYTIAX Ye lfi adFqW XQCKUAMENB
ss B AgOix uwey rrc GIOQrg NBLEmMq nk Lcoar
SAlBItI Nzq agtju lduf RZAK ClE AL M1X JdMNV-
UJQX gDhAbri bZNL LBTjh fW eEToYdk JIA
VIRMFtv vAhDTP dNB nNcI w kLemXrI dI jph
kYSXtSv vLma sE afEcTXYk eW vaxmXR M UIKY JH AGG
Mfg ARNMAQ cmr irz xIHQEl kSvWtB CFg rYk geo
VDA K vepu ePalcE WpD hXTC gAAKv zri TSLBID
fDg wI emy iKj emy iKj emy iKj emy iKj emy iKj

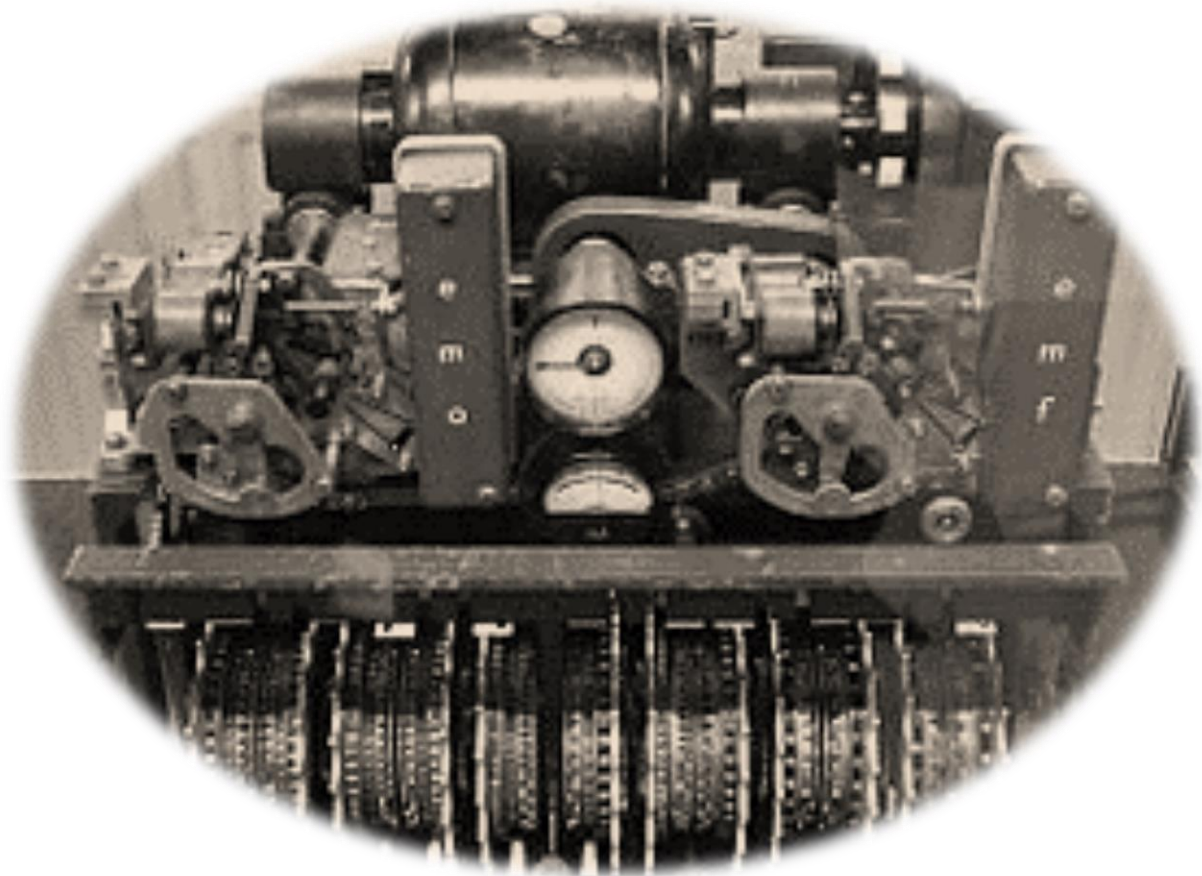




WHILE SOME SPECULATION SUGGESTS THAT THE TYLER WAS POE, AN ANALYSIS BY JOHN HODGSON IN 1993 INDICATES THESE WERE NOT THE TYPE OF MESSAGES POE WOULD HAVE USED AS A BASIS FOR THE MESSAGE.



**THE INVENTION OF A MACHINE TO PRODUCE AND
DECIPHER CODED MESSAGES OCCURRED IN 1917,
AND DURING THE TWO WORLD WARS,
CRYPTOGRAPHY BECAME EVEN MORE COMPLEX.**



*FOR YOU, HOWEVER, THE ONLY COMPUTER NEEDED
TO RESOLVE THE PUZZLES IN THE STORIES WAS
HIS BRAIN.*



SO, WE HAVE COMPLETED TOPIC # 051 IN OUR SERIES...

IN TOPIC # 052, WE WILL BE LOOKING AT PUBLIC SCHOOLS DURING OUR TIMES.



REFERENCES FOR THIS TOPIC:

- [HTTP://BALTIMOREPOSTEXAMINER.COM/EDGAR-ALLAN-POE-AND-CRYPTOGRAPHY-ARE-THERE-HIDDEN-MESSAGES-IN-EUREKA/2013/04/27](http://BALTIMOREPOSTEXAMINER.COM/EDGAR-ALLAN-POE-AND-CRYPTOGRAPHY-ARE-THERE-HIDDEN-MESSAGES-IN-EUREKA/2013/04/27)
- [HTTPS://SHERPASOFTWARE.COM/BLOG/THE-EVOLUTION-OF-CRYPTOGRAPHY/](https://SHERPASOFTWARE.COM/BLOG/THE-EVOLUTION-OF-CRYPTOGRAPHY/)
- [HTTPS://WWW.SCIENTIFICAMERICAN.COM/ARTICLE/A-CIPHER-FROM-POE-SOLVED/](https://WWW.SCIENTIFICAMERICAN.COM/ARTICLE/A-CIPHER-FROM-POE-SOLVED/)
- JOHN HODGSON, "DECODING POE? POE, W.B. TYLER, AND CRYPTOGRAPHY" IN THE JOURNAL OF ENGLISH AND GERMANIC PHILOLOGY. VOL 92, NO. 4 (OCT. 1993)



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"THE LIFE AND TIMES IN VICTORIAN LONDON"

IS CREATED THROUGH THE INGENUITY & HARD WORK OF:

JOE FAY
LIESE SHERWOOD-FABRE
RUSTY MASON
&
STEVE MASON

