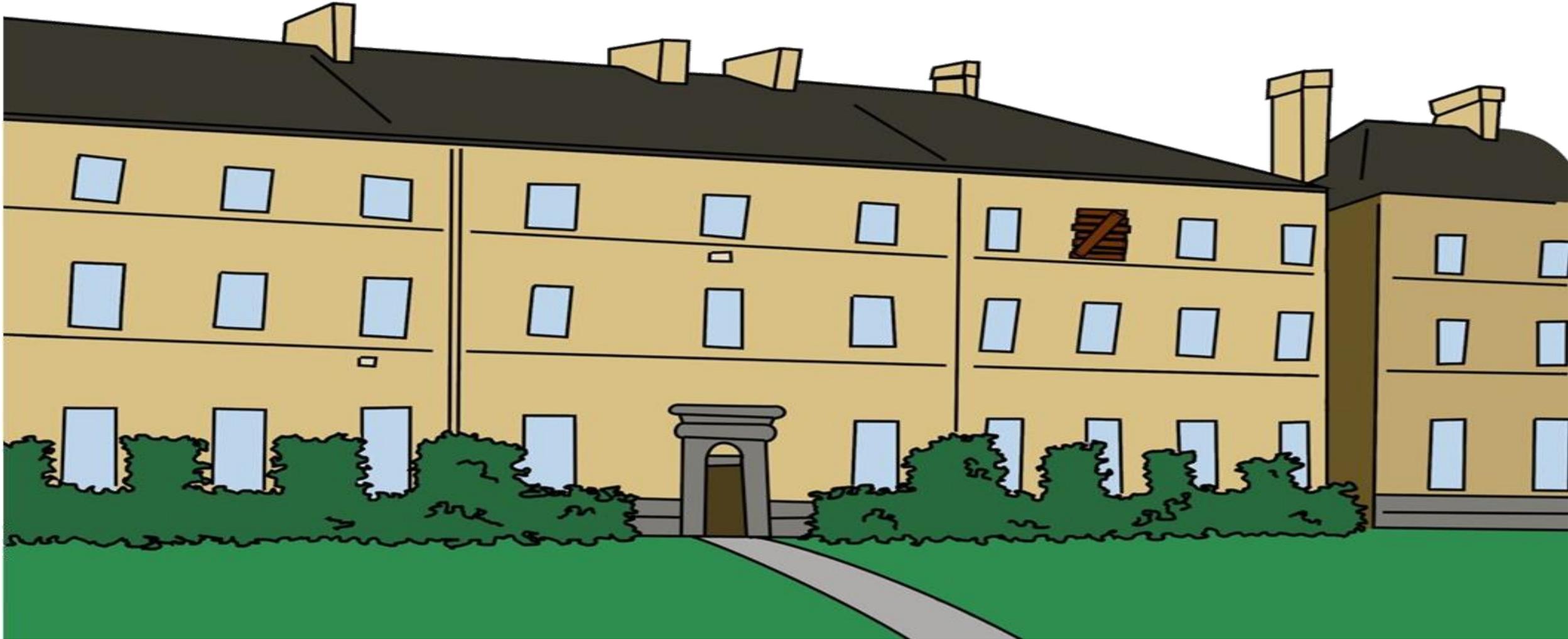


Baker Street *Elementary*

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.



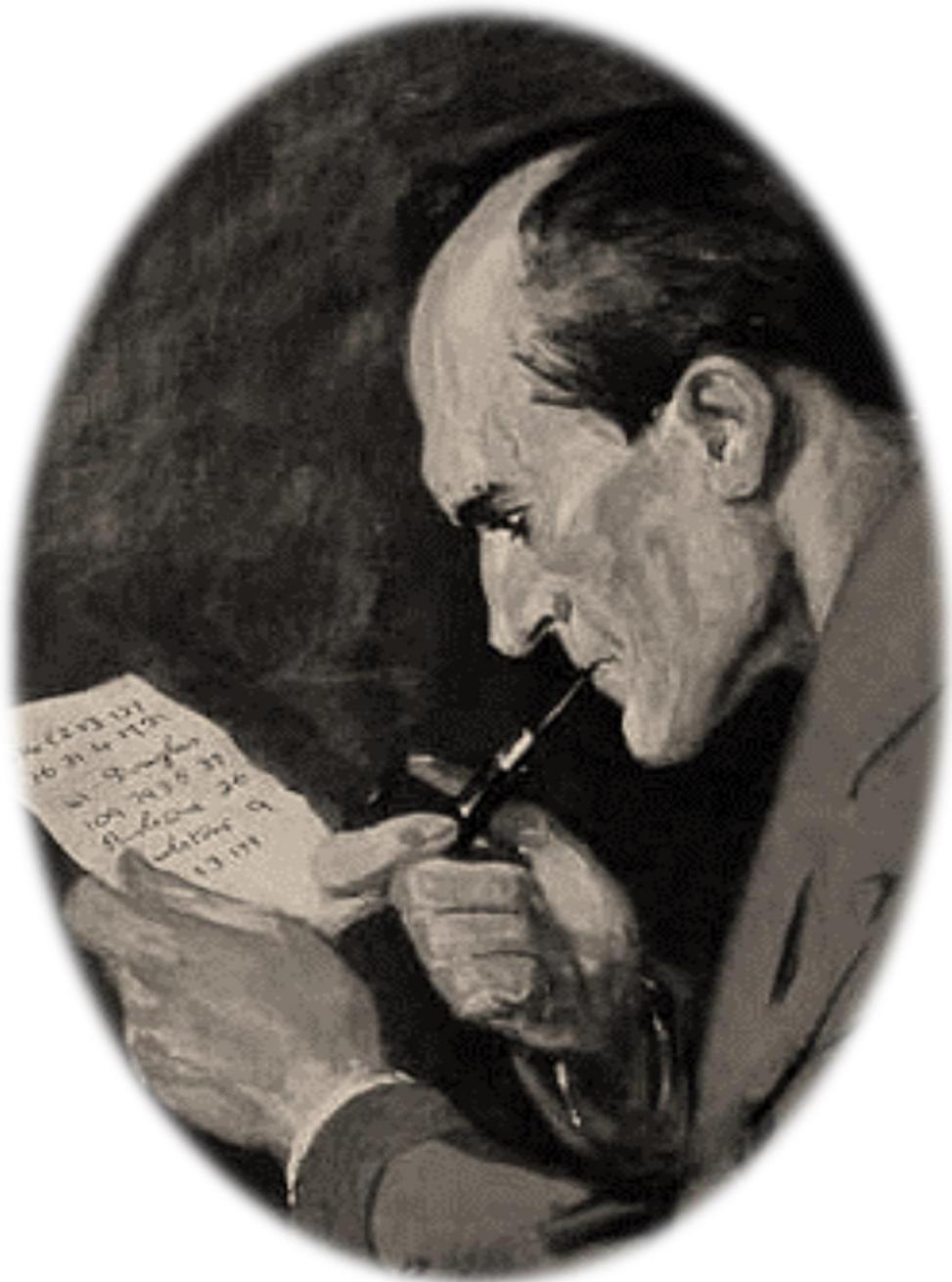
CIPHERS OR CODES WERE USED IN SIX OF THE SHERLOCK HOLMES' STORIES, OF WHICH FOUR I MUST CRACK TO SOLVE A CASE.





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.



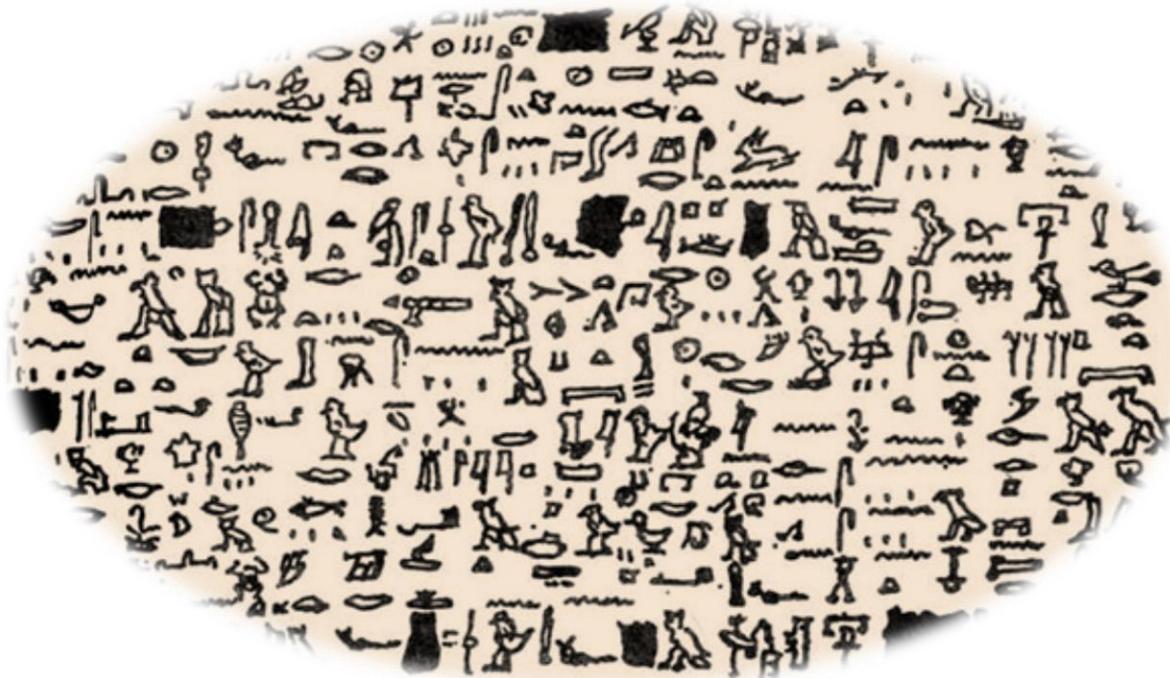
YOU USED A CODE YOU SAW IN THE PERSONAL COLUMNS TO CONTACT EMILIA LUCCIA IN 'THE ADVENTURE OF THE RED CIRCLE.'



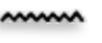
THE OTHER TWO STORIES ('THE ADVENTURE OF THE SECOND STAIN' AND 'HIS LAST BOW') MENTIONED A CODE BUT NEITHER REQUIRED YOUR DECIPHERING SKILLS.



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.

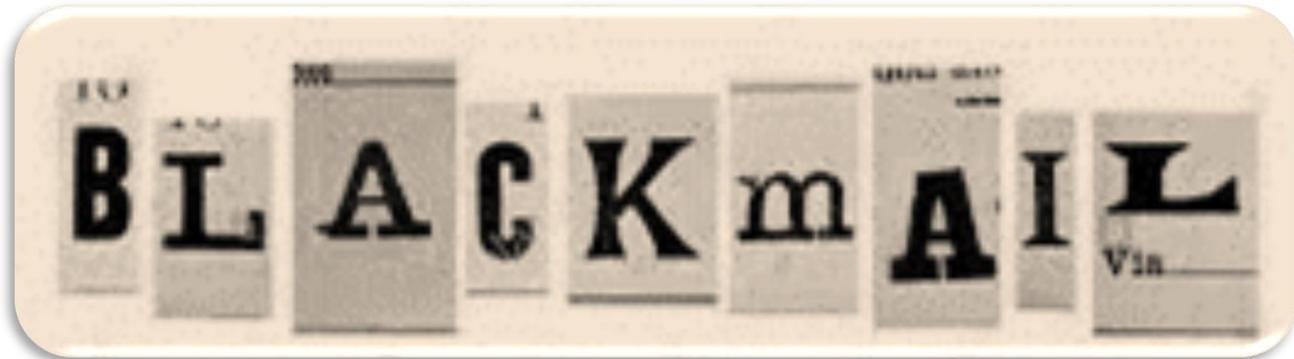
A	 or 	H	 or 	O		V	
B		I		P		W	
C	 or 	J		Q		X	
D		K		R		Y	 or 
E		L		S		Z	
F		M		T			
G		N		U			

SH = CH = KH ●

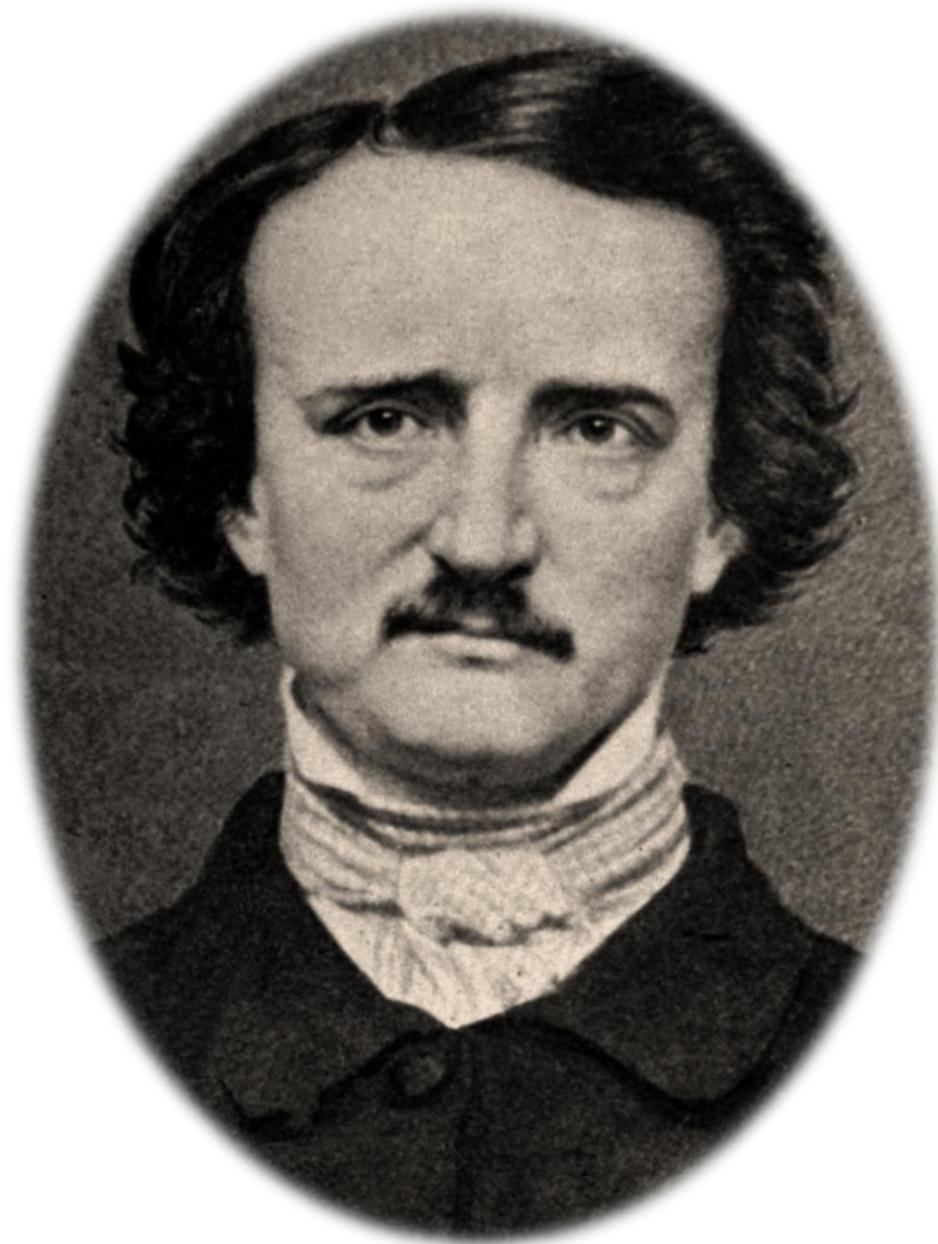
 or 



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



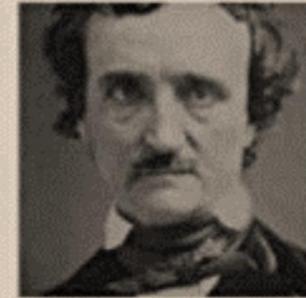
THE 1800s, HOWEVER, SAW A SURGE IN THE PRACTICE, RELATED IN PART TO EDGAR ALLAN POE'S ESSAYS AND EFFORTS TO SOLVE CODED MESSAGES...



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



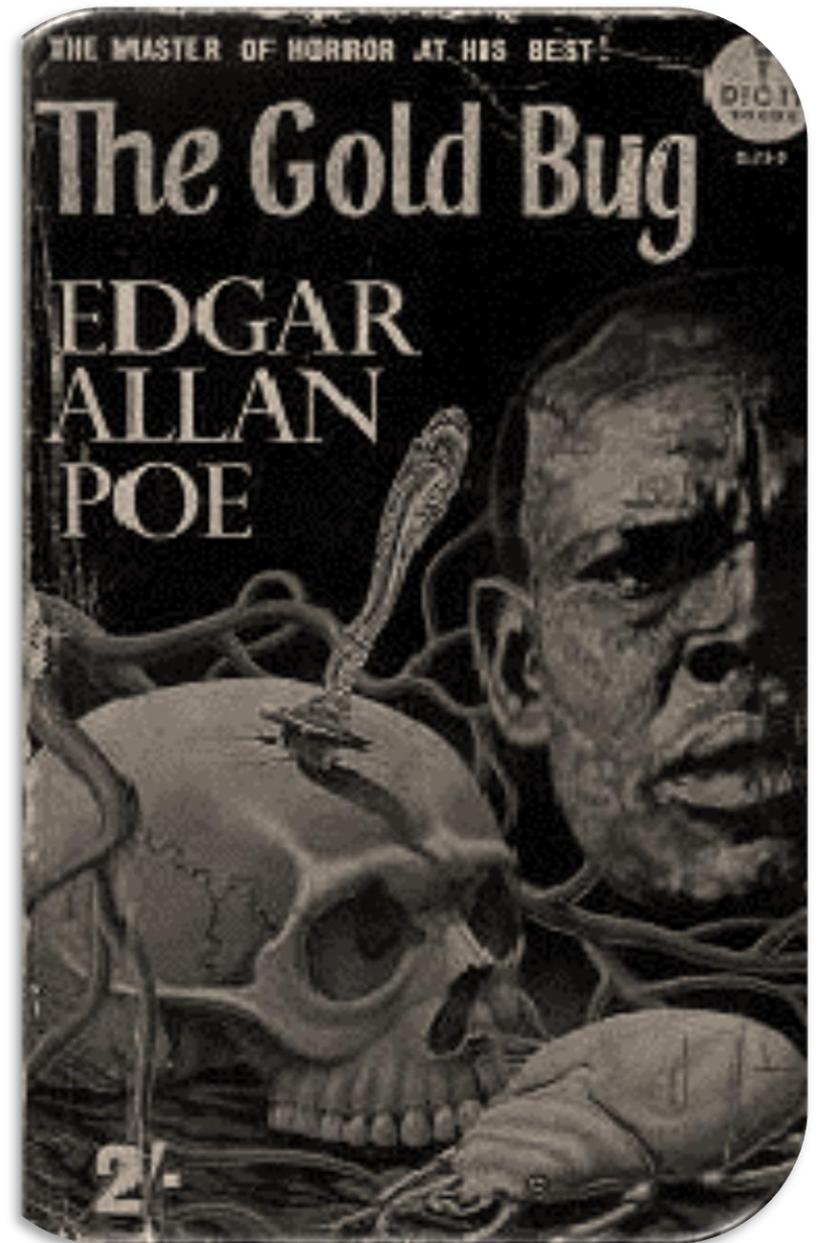
POE'S FASCINATION WITH CRYPTOGRAPHY WAS
QUITE APPARENT IN A SERIES OF ESSAYS 'A FEW
WORDS ON SECRET WRITING' WHERE HE
DISCUSSED THE USE OF...



*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. $e^2 - y$ | |

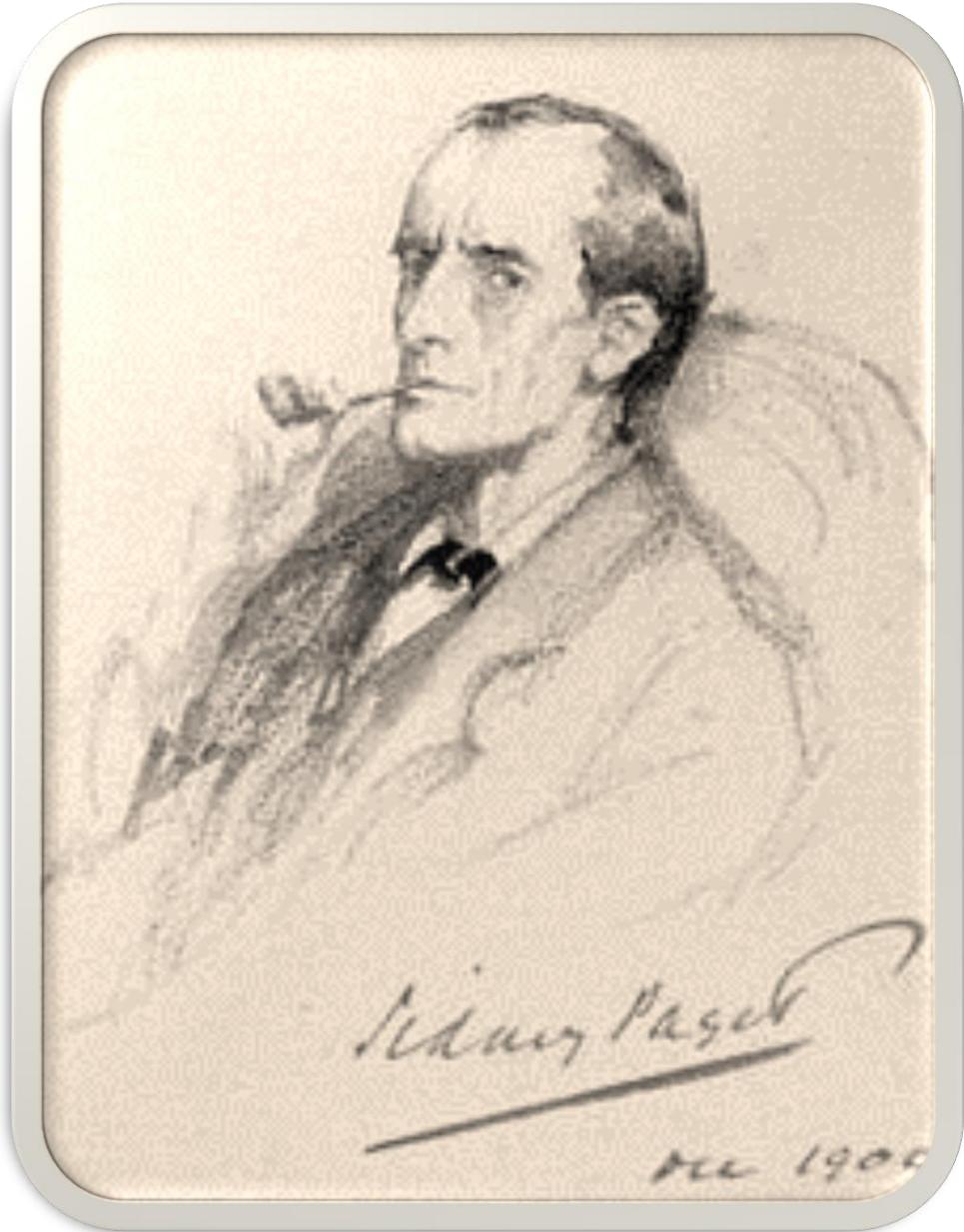


FOR EXAMPLE, USING THE LATIN PHRASE
'SAUVITER IN MODO, FORTITER IN RE' ('GENTLE
IN MANNER, FIRM IN DEED'), THE NEW, CODED,
ALPHABET WOULD BE:

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-Zou00
LUXif rY ng00L 000 hJXrX00 T0
QURBXP0E yGndU0 0A 0LA 000 000DVR0
000 0FK000 Z0N000 000 000 000 000 M00
wV00X00B ywL n00 A000 000DV 00000000
S00I C00K00W 0G000 0N000 00000 000X000
n00 (C) 000 00000 0000T 000 000 0000P
000 000000 000 000 000 000 00000000
000 000 000 00000 0000W 000 000 000
U000000 000 VF00A 0000 X000T000 Y0 000 0000W
X0000000000 000 00000 0000 000 000000
N0000000 000 0000 000000 0000 00000 00000
0000K C00 00 000 0000000000 00000000
000L 0000 W 000000 000 V0000000
V0000P 000 000 000 000000 00000000
000 00000 000 0000000 000 00000 000
A000 000 00000 000 000 00000 00000
C00 00 00 000000 000 000000 0000
000 000 0000 0000 0000 0000 0000
K0 000 00 000

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

DR TIK OGWEX Pjufy nBUH LIA VQSMoD xDTbj
SNB csVLNKSyD JCP TAOl HIZGUC LUYI ar nDdL
AAO hJFXIRI gLHAWeE Ta QJATBXPeE yGmdUJ R
SLAAU hVZ tCGDYRQ dNB XFKXDGf ZONsmELL kR O
oJNl zDh Mfg wViegXHB vUuL nNDAFKSO iyvDv brsfs-
gJLT Spzi CEJNSW bGerlh aNjma sEvaThLa XakiX-
Dix wE JCI JIK oFQAYI nDOTY kcr Omi dTBp SEB
dNBLQu Lph nNJA aIsa diky MAO cEpiwXya sJZ eIf
kMx xyKSSg HlitvW qP qTio dEj rVv Uoicame nk
VFHA IDah XMYTIAX Ye aI adFqW XQCKUAMENB
ss B AgOix uuey rrc GIOQrg NBLEmMq nk Lcoar
SAlBTLI NZq agtju lduf RZAK ClE AL M1X JdMNV-
UJQX gDhAbri bZNL LBTjh FW eEToYdk LIA
VIRMFtv vAhDTP dNB nNcE w kLemXrj dI jph
kYSXtSv Lma ss aFectXyK eW vaxmXR M UIKY JH AGG
Mfg ARNMAQ cmr irz xIHQEl SxWtB CFg rYk geo
VDA K vepu ePalcE WpD hXTC gAAKv zri TSLBID
fDg wI emy iKj emy iKj emy iKj emy iKj emy iKj



THE FIRST INVOLVED A MORE COMPLEX CIPHER
REQUIRING A KEY... THE SECOND EMPLOYED MORE THAN
ONE CODE USED FOR EACH LETTER OF THE ALPHABET.

(S:1)(.72),[:72,t.);,S[π,,:π!(\$C,+S;R(7)7,..(41;([,π*.+{S;πS;π}L,+S}
 eht luos eruces ni rehecnets i xe[se]jimsta eht nward reggad dnasei fedsT- i tni opeht s
 The soul secure in her existence smiles at the drawn dagger and defies its point. The
 ?(\$::C[-1C*:(C,*S;:[*:,)]π!π]7.!π,1\$πA..(1;,(72\$C;-Eπ;π[π[?C,
 rats ll ahseda f yawaeht nus fl esmih worg mid h ti wega dn aeruta n k ni sni srae
 stars shall fade away the sun himself grow dim with age and nature sink in years
 ;\$+3-:]i\$S:(1[1[π[π]:*;*:(S?)!π[π];\$2+1;π,π!(,1\$?(1*)[S;';:,;†
 ytu b uohttlahs hsiruolfnilatrom[m]ihtuoy truhnu dimaehrt raw fost n[em]jeleeh
 but thou shalt flourish in immortal youth unhurt amid the war of elements the
 \$-Eπ;π[π[?C,7!1*]7,\$S(!:;:(,†S+{+!)*][1:?)π
 t k cerw fo rett amdnaeht hsurc f osd lrow
 wreck of matter and the crush of worlds

S. Tomakiyo

Tyler's first cryptogram
published by Edgar Allan Poe and
solved independently by Terence Whalen and John Hodgson

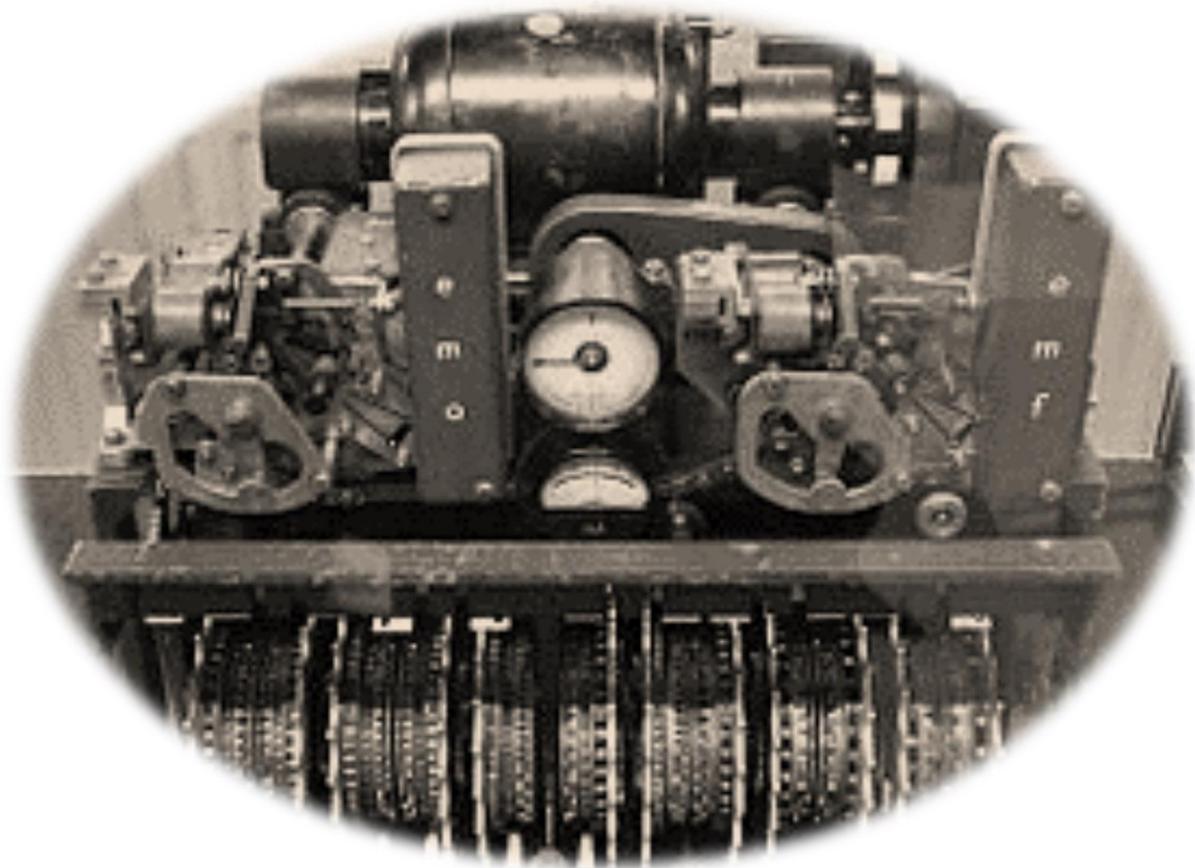




WHILE SOME SPECULATION SUGGESTS THAT THE TYLER WAS POE, AN ANALYSIS BY JOHN HODGSON IN 1993 INDICATES THESE WERE NOT THE TYPE OF MESSAGES POE WOULD HAVE USED AS A BASIS FOR THE MESSAGE.



**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

