The Enigmatic Machine [SOMEWHAT OF A SOL. DOC]

These repeat transmissions seem to add up… but I could only get the first letter so far.

PLEASE REFER TO THE LOEVINGER DOC FOR A MACHIINE-BY-MACHINE RUN-THRU

$RED = \#FF0000$

$BLUE = \#0047AB$

All colors can be double-checked or double-dipped for accuracy with www.colorhexa.com

All sites are lowercase

APPLE	APPLE	8722

BRSPJ	FTSNF	1999

## *THE MECHANISM OF THE FUNCTION:*

THE PUZZLE IS ALL ABOUT FIGURING OUT HOW TO BACKSOLVE THIS IMAGINARY FUNCTION BOX WHICH IS SHOWN IN 3 INITIAL EXAMPLES. ***The function described shifts the top letters by a sequentially increasing amount***. THE **"LEFT-FACING FUNCTION"** starts the shift from the left and works right, and the **"RIGHT-FACING FUNCTION"** does the opposite. The **ARROW COLOR** showcases the initial value of the shift, which increases in a Fibonacci sequence.

EACH LETTER IS COUNTED AS A SEPARATE DIGIT. ANY OVERFLOW IS TREATED TO THE MOD. OF THAT COUNTING SYSTEM (26 for letters, 10 for nums) (* for examples)
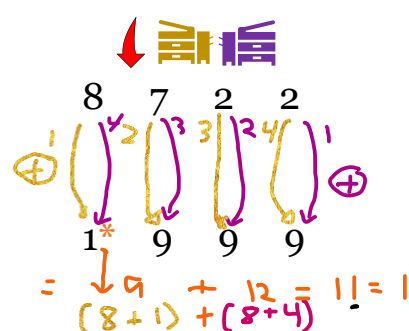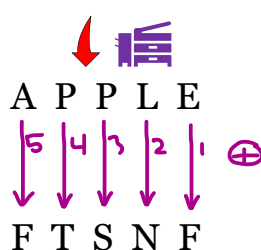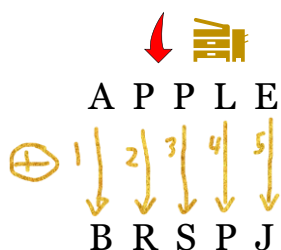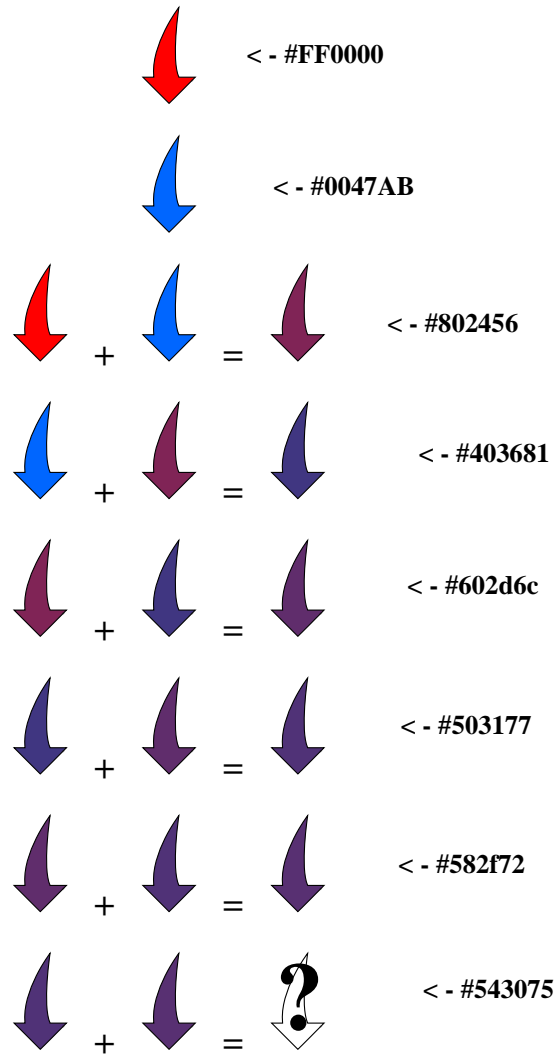

WHEN IT COMES DOWN TO IT, FOR ANY LETTER OR NUMBER **A** *(in an input of **n** values)* , THE *(red arrow)*

DOUBLE FUNCTION = [2(A) + (n+1)] %10 *(or %26 in context of letters)*
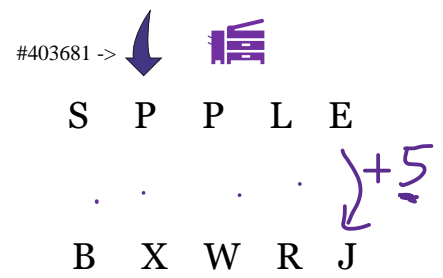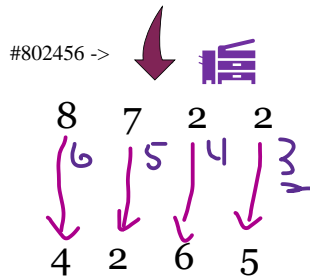
TO EXPLAIN THE HEX COLORS:

Each color is gotten as a fibbonaci addition of the two seed colors, red and blue on www.colorhexa.com

< - #FF0000

< - #0047AB

< - #802456

< - #403681

< - #602d6c

< - #503177

< - #582f72

< - #543075

Something that will be a common mis-step for the puzzlers: **the hexadecimal code is just to keep track of the exact color value to make sure you know that it is truly Fibonacci.** *The only time the color code is needed to solve the puzzle is on the later website bit where it blatantly asks for the question mark's color code.*

What the colors do though is alter the equation's initial shift by an increasing Fibonacci amount:

EXAMPLES OF DIFF. ARROW COLORS:

8   7   2   2

5   4   3   2

3   1   5   4

#802456 ->

8   7   2   2

6   5   4   3

4   2   6   5

#403681 ->

S   P   P   L   E

.   .   .   .   +5

B   X   W   R   J
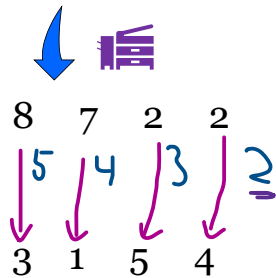
IN THE END.... Imo best way to think about the function

DOUBLE FUNCTION $= [2(A) + (n+1) + 2F(n)]$ **%10** *(or %26 in context of letters)*

NOW ... TO BACKSOLVE!!!!

EACH LETTER ON THE BOTTOM GIVES 2 POSSIBLE LETTERS UPSTAIRS DUE TO A +26/+10 MOD SHIFT

EUREKA THE CONSTANT IS 31415

IOIIUA MOI ECAKMAAM QK 17375

~~~

E????? ??? ???????? ?? ?????

KQKKWC OQK GECMOCCO SM 39597

~~~

E????? ??? ???????? ?? ?????

#802456 ->

MSMMYE QSM IGEOQEEQ UO 51719

~~~

E????? ??? ???????? ?? ?????

#403681 ->

QWQQCI UWQ MKISUIIU YS 95153

~~~

E????? ??? ???????? ?? ?????

WCWWIO ACW SQOYAOOA EY 51719

~~~

E????? ??? ???????? ?? ?????

GMGGSY KMG CAYIKYYK OI 51719

~~~

#582f72 ->

XZPLFFF

E????? ??? ???????? ?? ?????

WCWWIO ACW SQOYAOOA EY 17375

do-you-wonder-what-comes-next

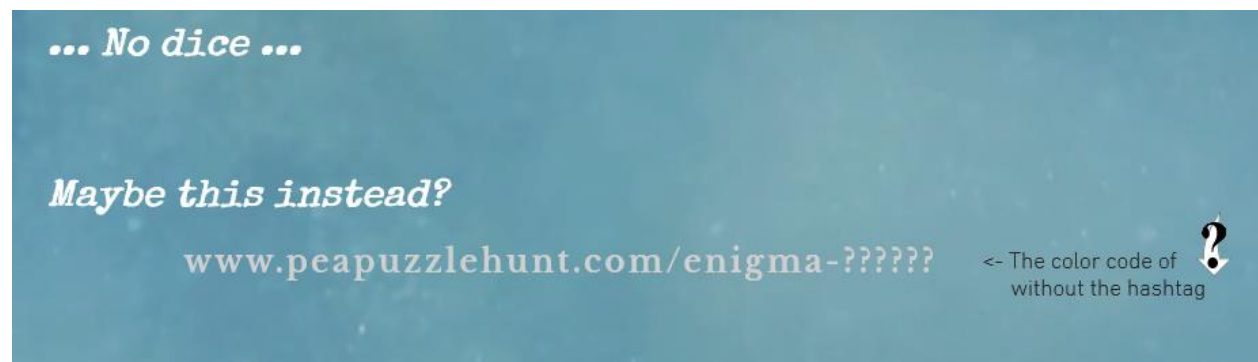*www.peapuzzlehunt.com/*??-???-??????-????-?????-????

SITES IN ORDER:

https://www.peapuzzlehunt.com/uq-kqc-gqouww-gcoa-sqmwy-owia

The Führer is trying to fool us again! He has scattered the decryption code across multiple hidden pages on this site...

Let's see if this works:
www.peapuzzlehunt.com/enigma-[the constant]

➔ *Pi is the "constant" from the Eureka repeats. This is just to prove that they know how to backsolve*

www.peapuzzlehunt.com/enigma-pi

... No dice ...

Maybe this instead?

www.peapuzzlehunt.com/enigma-??????   <- The color code of ? without the hashtag

➔ *? color is #543075. This is just to prove that they know how to fib. Add the colors*

www.peapuzzlehunt.com/enigma-543075

Bingo! This seems to be the final layer of encryption...

www.peapuzzlehunt.com/enigma-???????

#562f74->

OQGCWWW

<- A translated note from a German official: "It either rhymes with Führer or is part of the name of a Beatles song... I forget which"

➔ **Now the final puzzle. A specific backsolve for the color right before the question mark color.** The answer of what is a real word is purposely hard, and, miraculously, ABJURER and NOWHERE both work!! (hinted by the side note)
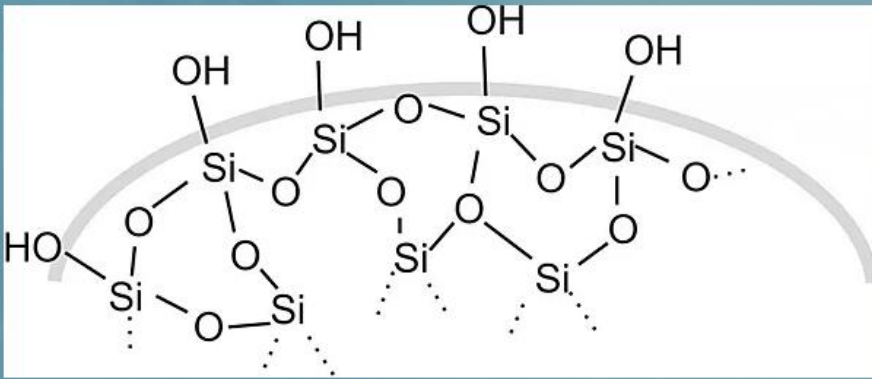
www.peapuzzlehunt.com/enigma-abjurer

Decryption key part 2/2

Witch

www.peapuzzlehunt.com/enigma-nowhere

Decryption key part 1/2

Sand

ANSWER: SANDWICH