**EXTRA CREDIT UNCC CIPHER CODE (WHO SHOT WHO??)**

This exercise is inspired by Harvard’s CS50 course by David Malan.

The winner can tell me who shot who??!!

So each character on our keyboard had a corresponding ASCII code example: lowercase “a” is 97 and uppercase “A” is 65 etc. <http://www.asciitable.com/> Your job will be to use this table to make some basic ciphers using javascript.

Take a look at how Caesar’s cipher and Vigenere’s Cipher work.

<https://en.wikipedia.org/wiki/Caesar_cipher> <https://en.wikipedia.org/wiki/Vigen%C3%A8re_cipher>

So basically, Vigenere’s cipher is like Caesar’s cipher but with a rotating key.

Your task is to build each cipher using the starter files and decrypt each of the following messages. Private Message me with your solutions.

1. *caesarkey* = 4 **aneyyhwlpkj**
2. *caesarkey* = 3 **cfobmixzb**
3. *caesarkey* = 19 **kljltily**
4. *caesarkey* = 16 **Iye rkfo mbkmuon dro Mkockb Mszrob**

5) *vigenerekey* = ball **saqadcadsh**

1. WHO SHOT WHO

*vigenerekey* = ?????? **laeesajscwatayzcy whkxozwtd tl olgouthxf xn s jipa**

*?????? the vigenerekey (all lowercase letters) is a precious transition metal.*

**HINTS**

* You are going to need to use the modulo operator
* Remember zero indexed letters
* For the vigenere cipher don’t worry about uppercase letters. Also any spaces in the vigenere message can be treated like screenshot8, this should make it easier.
* I don’t know how difficult this will be so definitely feel free to ask me for any hints or clarifications
* Please submit your code and the answers to the prompts. The winner is the one who solves the vigenere message and/or has the cleanest code. Good luck!!