

# Date cipher

My cipher will be based on using a date as a key to cipher the message.

For this example I'll use the date on which the bootcamp started: **8/30/2021** as the key

## 1 - Format date into single integer

key = 8302021

## 2 - Apply changes to the message characters by changing the characters according to the key digits. If the digits run out, start repeating them again.

key = 8302021

message = hello

Original message	Transformation	Cipher Message
H	H+8	P
E	E+3	H
L	L+0	L
L	L+2	N
O	O+0	O

## Example by code

### CIPHERING A MESSAGE

```
Alfonso@Alfonso-MBP ~/Documents/DevMountain/Labs/cryp
to-security lab/part 2  main ? @3  node index.js
Welcome to cypher!
Enter action (c => cipher, d => decode) and your message:
c ilovecryptography
Your encrypted message: qooxeesgstqgtbxy
```

### DECODING A CIPHERED MESSAGE

```
Alfonso@Alfonso-MBP ~/Documents/DevMountain/Labs/cryp
to-security lab/part 2  main ? @3  node index.js
Welcome to cypher!
Enter action (c => cipher, d => decode) and your message:
d qooxeesgstqgtbxy
Your decrypted message: ilovecryptography
```