

# Coding Challenge Week 6 Day 4

The coding challenge for today is to implement asynchronous features using callbacks. I want you to build a function called `decipherText`, which takes two main arguments, and a callback function argument. The 2 main arguments are

- 1) string to be deciphered
- 2) key.

Let me give you some plain examples without callbacks so that you can understand the working of it. The function returns a string which consists of letters forward by the position number mentioned in key. So if the string is abc and key is 2, then the string should be cde, as c is 2 letters away from a, d is 2 letters away from b and e is 2 letters away from c. One edge case would be for the letter z, in that case just come back to a for counting. So letter z with key 3 would be c, as c is 3 letters away from z if connected back to letter a. Hope you understood it.

```
decipherText ( "icecream", 2) => "kegetgco"
```

```
decipherText("zambya", 5) => "efrgdf"
```

Now the challenge is not to do it synchronously but by using async callbacks. Consider this process takes 5 seconds, and then return the string. If the user entered the argument for string as a number, then you should have an error as "Invalid string". Same goes for key, the key

argument should accept only numbers. So I should expect an output like the following.

```
decipherText("Sundeeep", 3, function (err, result) {  
  if (err) alert(err); // Error message (after 5  
seconds)  
  else console.log(result); // "Vxpghhs" (after 5  
seconds)  
});
```

Good luck :)