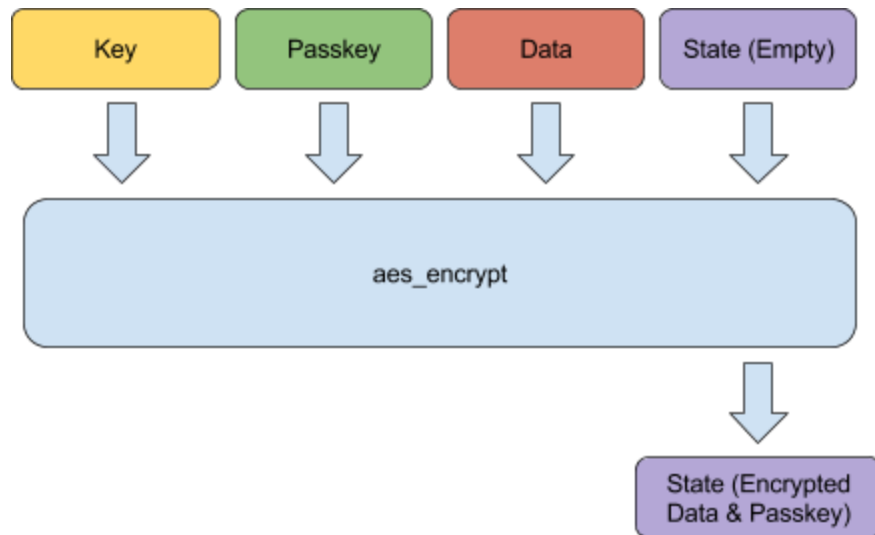
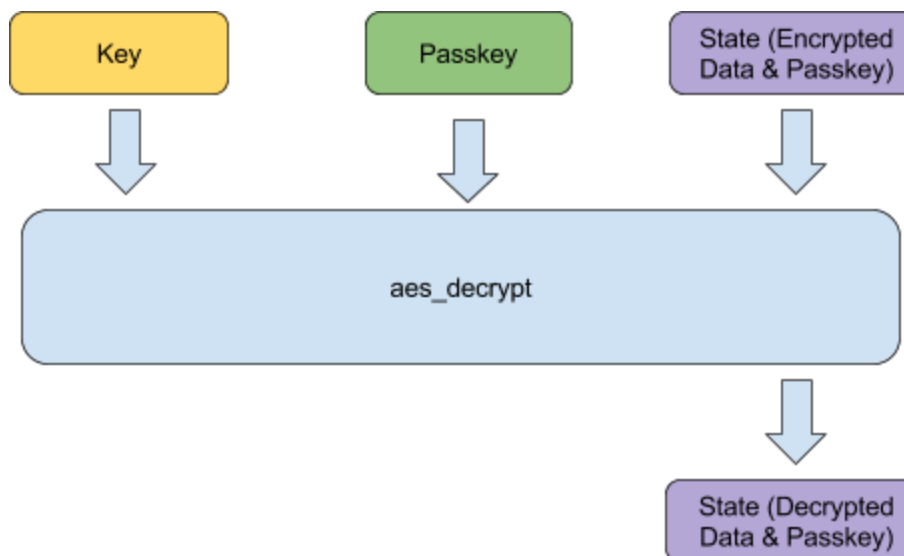


## Encryption:



## Decryption:



**Key:** A 16 bytes key use to encrypt the message.

**Passkey:** A 16 bytes key use to verify if the decryption is successful.

**Data:** Message will be encrypted. (Maximum 240 Bytes).

**State:** A 256 bytes array use to store the encrypted data.

## Testing results:

```
C:\Users\Yuen\Documents\MemSat_AES\MemSat_AES.exe
```

```
State: 709

Original data: Bananananananananananananananana NA NA NA...

State with data and passkey: Banananananananananananananananana NA NA NA...00000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000 R memsat.space

Encrypted state: "H[L8f0hZd7n".p>1s"u÷$æ!!(5-ü'UAg6%FH@_U1^`sgQ7Pi:zfáEê€θ+±l0"M±e-
→fáEê€θ+±l0"M±e-→fáEê€θ+±l0"M±e-→fáEê€θ+±l0"M±e-→fáEê€θ+±l0"M±e-→fáEê€θ+±l0"M±e-→fáEê€θ+±l0"M±e-
→fáEê€θ+±l0"M±e-→fáEê€θ+±l0"M±e-→fáEê€θ+±l0"M±e-→fáEê€θ+±l0"M±e-→fáEê€θ+±l0"M±e-→fáEê€θ+±l0"M±e-
→fáEê€θ+±l0"M±e-→fáEê€θ+±l0"M±e-→fáEê€θ+±l0"M±e-→fáEê€θ+±l0"M±e-→fáEê€θ+±l0"M±e-→fáEê€θ+±l0"M±e-
passkey matched

Decrypted state: Banananananananananananananananana NA NA NA...00000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000 R memsat.space

-----
Process exited after 0.007649 seconds with return value 0
Press any key to continue . . .
```

**Result for passing an array with empty spaces.**

```
C:\Users\Yuen\Documents\MemSat_AES\MemSat_AES.exe
```

State: 70-

Original data: We the People of the United States, in Order to form a more perfect Union, establish Justice, ensure domestic Tranquility, provide for the common defence, promote the general Welfare, and secure the Blessings of Liberty to ourselves and our70-

State with data and passkey: We the People of the United States, in Order to form a more perfect Union, establish Justice, ensure domestic Tranquility, provide for the common defence, promote the general Welfare, and secure the Blessings of Liberty to ourselves and our R memsat.space

[oee!!\$U [E] " ]%LI jJ u<||Z\*?A↑↑#|~]d↓i-ç<-btffôda r≥[L f n ||f±AÇ s y i 07j0<<-||^k! /ââ[L U  
[v w u g - e t s ↓ J 3 á ú d , é 6 F N á v c U , ð ü D , K á i 8 · 7 arñ†ûx0+>%>P á #00σBç ||ñúO<æη!!|çä-4A·#ðj÷÷¿↓a  
á i u F = < . à % → + kœ [ | ° > E ç : | m l l N x | = ð n + u ÷ † !!É U c ñ  
í f ^ Å ` A | | S | ± u | f C β u ≥ è H è I ≤ ù p ~ È & í \$ va i o 0 r 42

passkey matched

Decrypted state: We the People of the United States, in Order to form a more perfect Union, establish Justice, ensure domestic Tranquility, provide for the common defence, promote the general Welfare, and secure the Blessings of Liberty to ourselves and our R memsat.space

-----  
Process exited after 0.00747 seconds with return value 0  
Press any key to continue . . .

**Result for passing more than 256 bytes. (A longer than expected array)**

