Caeser Cipher

Cleartext: `Maggie, Thursday, 7pm.`

ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

Caeser Cipher

Cleartext: `Maggie, Thursday, 7pm.`

```
ABCDEFGHIJKLMNOPQRSTUVWXYZ
DEFGHIJKLMNOPQRSTUVWXYZABC
```

```
Pdjjlh, Wkxuvgdb, 7sp.
```

Letter frequencies in English text[†]

	%		%		%
E	13.1	D	4.1	G	1.4
T	9.0	L	3.6	B	1.3
O	8.2	C	2.9	V	1.0
A	7.8	F	2.9	K	0.4
N	7.3	U	2.8	X	0.3
I	6.8	M	2.6	J	0.2
R	6.6	P	2.2	Q	0.1
S	6.5	Y	1.5	Z	0.1
H	5.9	W	1.5		

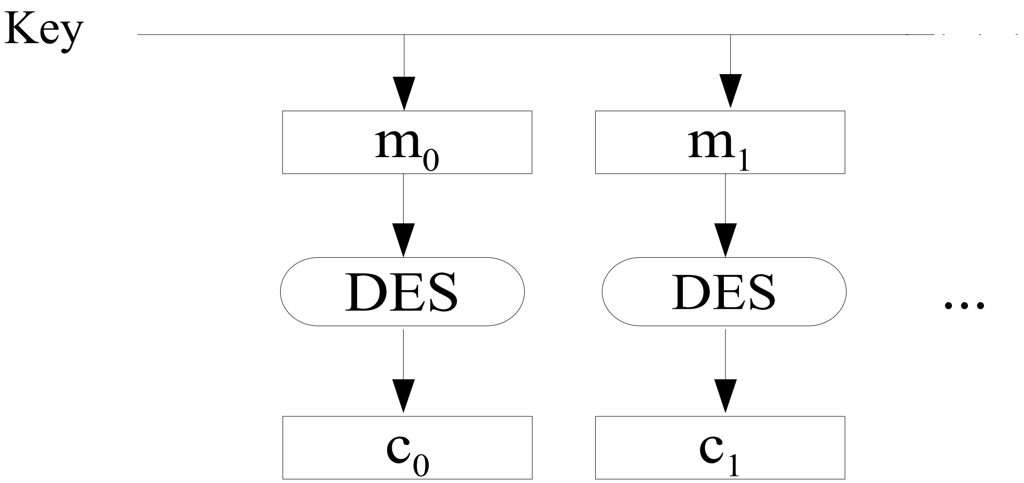
[†] Davies, D.W. & Price, W.L., "*Security for Computer Networks*", Wiley, 1989

Digrams and trigrams in English text[†]

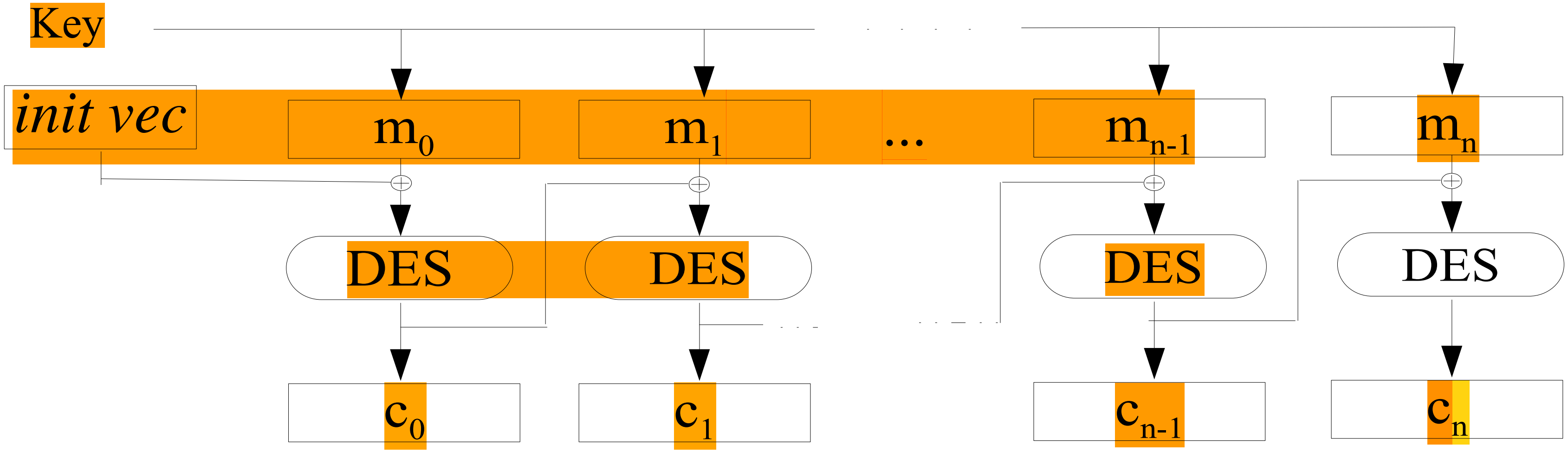
TH	THE
HE	AND
AN	THA
IN	ENT
ER	ION
RE	TIO
ES	FOR
ON	NDE
EA	HAS
TI	NCE

[†] Davies, D.W. & Price, W.L., "*Security for Computer Networks*", Wiley, 1989

DES Encryption



DES CBC Mode



RSA

c = cryptotext
m = message
public key = (e,n)
private key = d

- $c = m^e \bmod n$
- $m = c^d \bmod n$