

Título

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Fecha

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# 1 Chapter 1

## 1.1 Code

### 1.1.1 Method 1: Simple Markdown Code Block

```
import numpy as np

def incmatrix(genl1,genl2):
    m = len(genl1)
    n = len(genl2)
    M = None #to become the incidence matrix
    VT = np.zeros((n*m,1), int) #dummy variable

    #compute the bitwise xor matrix
    M1 = bitxormatrix(genl1)
    M2 = np.triu(bitxormatrix(genl2),1)

    for i in range(m-1):
        for j in range(i+1, m):
            [r,c] = np.where(M2 == M1[i,j])
            for k in range(len(r)):
                VT[(i)*n + r[k]] = 1
                VT[(i)*n + c[k]] = 1
                VT[(j)*n + r[k]] = 1
                VT[(j)*n + c[k]] = 1

            if M is None:
                M = np.copy(VT)
            else:
                M = np.concatenate((M, VT), 1)

            VT = np.zeros((n*m,1), int)

    return M
```

### 1.1.2 Method 2: LaTeX Minted (Better Syntax Highlighting)

```
1 import numpy as np
2
3 def incmatrix(genl1,genl2):
4     m = len(genl1)
5     n = len(genl2)
6     M = None #to become the incidence matrix
7     VT = np.zeros((n*m,1), int) #dummy variable
8
9     #compute the bitwise xor matrix
10    M1 = bitxormatrix(genl1)
11    M2 = np.triu(bitxormatrix(genl2),1)
12
13    for i in range(m-1):
14        for j in range(i+1, m):
15            [r,c] = np.where(M2 == M1[i,j])
16            for k in range(len(r)):
17                VT[(i)*n + r[k]] = 1
18                VT[(i)*n + c[k]] = 1
19                VT[(j)*n + r[k]] = 1
20                VT[(j)*n + c[k]] = 1
21
22            if M is None:
23                M = np.copy(VT)
24            else:
25                M = np.concatenate((M, VT), 1)
26
27            VT = np.zeros((n*m,1), int)
28
29    return M
```

## 1.2 Image example

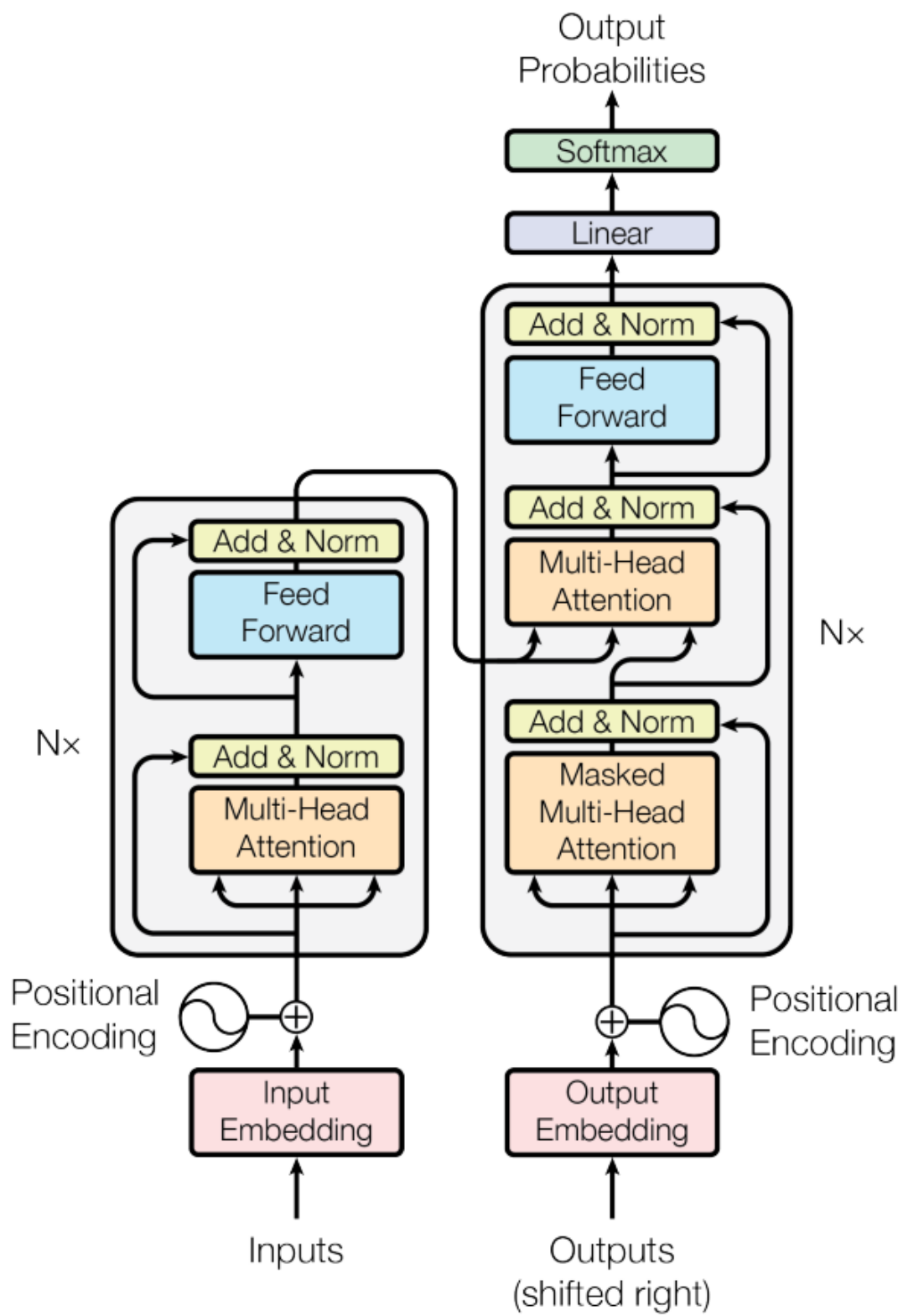


Figure 1: Transformer Architecture



### 1.3 Subtitle

## 2 Appendix

Content