

System Layers

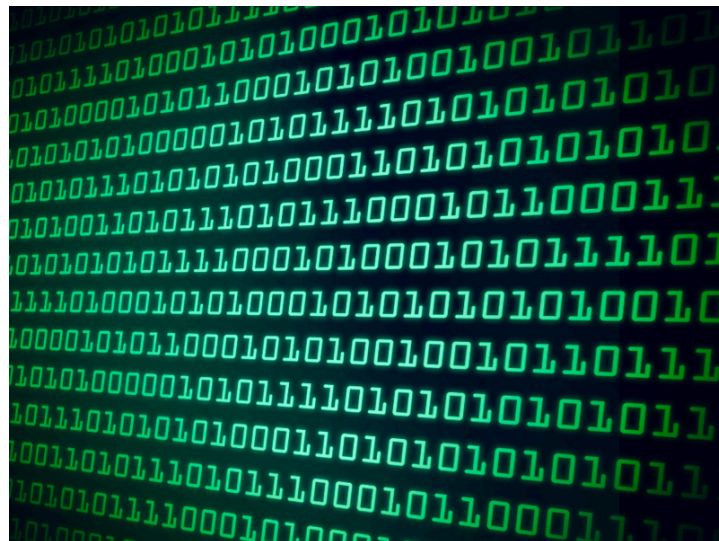
```
#include <stdio.h>

int main() {

    printf("Hello, World!\n");

    return 0;
}
```

Data Representation



Typical Data Sizes

Data Type	Bytes
char	1
short	2
int	4
long	8
float	4
double	8

Numbering Systems

	Hex	Decimal	Binary
0	0	0000	
1	1	0001	
2	2	0010	
3	3	0011	
4	4	0100	
5	5	0101	
6	6	0110	
7	7	0111	
8	8	1000	
9	9	1001	
A	10	1010	
B	11	1011	
C	12	1100	
D	13	1101	
E	14	1110	
F	15	1111	