## 0110001

1110100 0111010 1111111 0000000 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 0110001 1110100 0111010 1111111 0000000 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 0110001 1110100 0111010 1111111

## Binary Code

Binary code is the system that most computers use to send, receive, and store information.



> Binary code is based on a two number system, 0 and 1.

> Combinations of these two numbers are responsible for everything you see on your computer screen!

110001 110100 111010

## Hello

0110001 1110100 0111010 1111111 0000000 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 0110001 1110100 0111010 11111 0000000 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 0110001 1110100 0111010 0000000 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 0110001 1110100 0111010 1111111 0000000 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 0110001 1110100 0111010 1111111

0000000 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 0110001

## Binary Code Alphabet

Each letter is represented by a series of 8 numbers ( 8 -bit code)

## Lowercase alphabet:

$$
\begin{aligned}
& \mathbf{a}=01100001 \\
& \mathbf{b}=01100010 \\
& \mathbf{c}=01100011 \\
& \mathbf{d}=01100100 \\
& \mathbf{e}=01100101 \\
& \mathbf{f}=01100110 \\
& \mathbf{g}=01100111 \\
& \mathbf{h}=01101000 \\
& \mathbf{i}=01101001 \\
& \mathbf{j}=01101010 \\
& \mathbf{k}=01101011 \\
& \mathbf{l}=01101100 \\
& \mathbf{m}=01101101
\end{aligned}
$$

110001 110100 111010

0110001 1110100 0111010 1111111 0000000 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 0110001 1110100 0111010 1111 0000000 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 $\begin{array}{lllllll}0 & 1 & 1 & 0 & 0 & 0 & 1 \\ 1 & 1 & 0 & 1 & 0 & 0\end{array}$ $\begin{array}{lllllll}11 & 1 & 0 & 1 & 0 \\ 0 & 1 & 1 & 0 & 1 & 0\end{array}$ 1111111 0000000 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 0110001 1110100 0111010 1111111 0000000 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 0110001 1110100 0111010 1111111

0000000 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 0110001

## Binary Code Alphabet

Each letter is represented by a series of 8 numbers ( 8 -bit code)

## Uppercase alphabet:

$$
\begin{aligned}
& \mathbf{a}=01100001 \\
& \mathbf{b}=01100010 \\
& \mathbf{c}=01100011 \\
& \mathbf{d}=01100100 \\
& \mathbf{e}=01100101 \\
& \mathbf{f}=01100110 \\
& \mathbf{g}=01100111 \\
& \mathbf{h}=01101000 \\
& \mathbf{i}=01101001 \\
& \mathbf{j}=01101010 \\
& \mathbf{k}=01101011 \\
& \mathbf{l}=01101100 \\
& \mathbf{m}=01101101
\end{aligned}
$$

110001 110100 111010

## 011000

 1110100 0111010 1111111
## 0000000

 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 0110001 1110100 0111010 1111111 0000000 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 0110001 1110100 0111010 1111111 0000000 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 0110001 1110100 0111010 1111111 0000000 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 0110001 1110100 0111010 1111111 0000000 1000101 0001011 1001110 1010011 0010110 1011000 0011101 1100010 0100111 1101001 0101100 0110001110001 110100 111010

## Write Your Name in Binary Code!

## Don't forget to leave a small space between each set of 8 numbers (8-bit code).



00000
00010
00101
00111
01001
01011
01100
01110
10001
10011
10100
10110
11000
11010
11101
11111
00000
00010
00101

00111
01001
01011
01100
01110
10001
10011
10100
10110
11000
11010
11101
11111
00000
00010
00101
00111
01001
01011
01100
01110
10001
10011
10100
10110
11000
11010
11101
11111
00000
00010
00101
00111
01001
01011
01100
01110
10001
10011
10100
10110
11000
11010
11101
11111
00000
00010
00101
00111
01001
01011
$\begin{array}{lllll}0 & 1 & 1 & 0 & 0 \\ 0 & 1 & 1 & 1 & 0\end{array}$

| 0 | 1 | 1 | 1 |
| :--- | :--- | :--- | :--- | :--- |
| 1 | 0 | 0 | 0 |

10011
10100
10110
11000

