|  |  |
| --- | --- |
| a | 01100001 |
| b | 01100010 |
| c | 01100011 |
| d | 01100100 |
| e | 01100101 |
| f | 01100110 |
| g | 01100111 |
| h | 01101000 |
| i | 01101001 |
| j | 01101010 |
| k | 01101011 |
| l | 01101100 |
| m | 01101101 |
| n | 01101110 |
| o | 01101111 |
| p | 01110000 |
| q | 01110001 |
| r | 01110010 |
| s | 01110011 |
| t | 01110100 |
| u | 01110101 |
| v | 01110110 |
| w | 01110111 |
| x | 01111000 |
| y | 01111001 |
| z | 01111010 |
| Space | 00100000 |

You have now learnt all about how computers use binary to represent numbers. What happens when computers need to use letters?

To achieve this a computer uses a special binary code to represent each letter of the alphabet.

Here you can see the code for each letter.

If a computer needed to store the word it would store the binary pattern:

|  |  |  |
| --- | --- | --- |
| b | o | x |
| 01100010 | 01101111 | 01111000 |

Can you work out what this secret message is (remember to work in blocks of 8 from left to right?

01101001~00100000~01101100~01101111~01110110~01100101

00100000~01100011~01101111~01101101~01110000~01110101

01110100~01101001~01101110~01100111

Answer

I love computing

Now you can have a go. Can you write the binary code for your name?

0100001001100101011011100110101001100001011011010110100101101110 0010000001001000011001010111001001100010011001010111001001110100

Ben Herbert –

0100001001100101011011100010000001001000011001010111001001100010 011001010111001001110100