Translating Binary to Text		
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Contents

- 1. Introduction
- 2. The Binary System
- 3. Converting Binary to ASCII (Text)

Introduction:

We've all seen binary code. We've come to think of them as a bunch of ones and zeroes in long strings... 010010101010101010111

But these ones and zeroes can also represent decimal numbers. First off, I will show you how to read these numbers as the decimal numbers we're used to in our daily life. Then, I will show you how to use those numbers and your keypad to translate them into text. Note that your computer doesn't use the decimal system, so technically, when it converts binary to text, it doesn't go through the process I will show you. This is just a divertive way of explaining you how the binary system works.

The Binary System: Here's a simple example of binary: 10101

Let's think of the example above as empty slots:

First off, you read binary from right-to-left. It's just the way it's designed. The first slot from the right represents a value of one, the second from the right a value of two, the third from the right a value of four, the fourth from the right a value of eight, the fifth from the right a value of sixteen, and the cycle continues by multiples of 2. This will never change.

By putting a 1 or a 0 in those slots you are either saying you want to corresponding value that's attached to that slot or you don't. A 1 means yes, and a 0 means no. For example, putting a zero in the first slot from the right, but a 1 in the second slot from the right means you want a two, but not a one:

___10

As such, the number above equals to a decimal value of two.

As an example, let's say you want to represent eight in binary form. Well, thinking about the slots, you want the first slot to be 0 because you don't want a one, you want the second slot to also be 0 because you don't want a two, you want the third slot to also to be 0 because you don't want a four, but you want the fifth slot to be 1 because you want a value of eight. As such, eight in binary form is:

1 0 0 0 (or simply 1000 without those underlines)

Now it is important to note that the amount of zeroes that precede the first value of one from the left is unimportant. So for example:

1 0 0 0 is the same as 0 0 0 1 0 0 0 (1000 = 000100)

Answers:

a) 27

b] 6

c) 21

d) 22

If you got the above questions correct [without cheating], then you essentially understand the binary system. Understanding the binary system was the hard part. What follows is pretty easy.

3. Converting Binary to ASCII (Text)

ASCII is essentially the letters, numbers and symbols that are stored in our computers through the use of fonts. When the keyboard relays the buttons you pressed, it sends in a code which is then converted to the

ASCII equivalent of "k" or "5" or whatever key you pressed.

Here's an example of a message "hidden" in binary text: 010010000110010101101100011011011111

Okay, so our example message was separated into 8 digit strings. The decimal value for each of these strings in the example was calculated for you.

01001000 = 72 01100101 = 101 01101100 = 108 01101100 = 108 01101111 = 111

The result was 72,101,108,108,111. Now, there is something called the ASCII table. It essentially corresponds to the binary numbers from yore to the equivalent letters/symbols/numbers. But since we found the decimal values of these binary strings, we can use a major shortcut.

By pressing ALT + [The Number], you will get the ASCII equivalent of that number. For example, by pressing the ALT key and at then (while keeping it down) the numbers 72 in any text editor, you will get the corresponding "H" to show up.

Let's do so for the entire example message:

72 = H

101 = e

108 = 1

108 = I

111 = 0

So the entire "hidden" message translates to "Hello".