

Basic steps of binary code decoding

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Today, TipsMake.com will guide you how to convert binary code to alphanumeric characters that we still use everyday. We will use the number 1001001 as an example in this article.

Use website to convert binary numbers to decimal

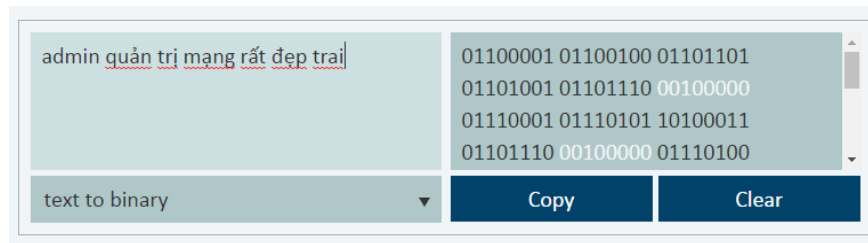
This is the fastest way to decode binary numbers, you do the following:

1. Visit: <https://www.binarytranslator.com/>
2. Choose binary to decimal
3. Paste the binary number to convert into the box on the left
4. Looking at the box on the right, do you see results?

Picture 1 of Basic steps of binary code decoding

In addition, with this website you can also convert text into binary numbers, using that number to troll friends is also quite fun or to confess love to "crush" is also good. You can switch between binary, decimal, hexadecimal and text, you like, slowly discover dentist. If you like the function of switching between text and binary, then you can add <http://www.unit-conversion.info/texttools/convert-text-to-binary/> when decoding from binary to Font without font error.

Compile "admin network administration so handsome" to binary would read: 01100001 01100100 01101101 01101001 01101110 00100000 01110001 01110101 11100001 10111010 10100011 01101110 00100000 01110100 01110010 11100001 10111011 10001011 00100000 01101101 11100001 10111010 10100001 01101110 01100111 00100000 01110010 11100001 10111010 10100101 01110100 00100000 11000100 10010001 11100001 10111010 10111001 01110000 00100000 01110100 01110010 01100001 01101001, while the shift to 1.36333674698E + 103.



If you want your brain to have more wrinkles, please read on to solve the other binary code below.

Use manual methods to solve binary numbers

Binary systems have only 2 numbers 0 and 1, corresponding to 2 states OFF and ON (False and True). Binary read from right to left.

To decode a binary sequence, we do the following:

Step 1: Write binary numbers into ranges

Step 2: From right to left, write the exponent of 2 below the number, from 2^0 to the end

Step 3: Convert exponents to values

Step 4: Remove the values ??at 0, get the value at 1

Step 5: Add the values ??taken, we will get the conversion result

Example decoding binary sequence number 1001001:

Step 1 1 0 0 1 0 0 1 **Step 2** 2^6 2^5 2^4 2^3 2^2 2^1 2^0 **Step 3** 64 32 16 8 4 2 1 **Step 4** 64 x x 8 x x 1

Table of binary numbers to decimal

After step 4 we have the values ??to be taken as 64, 8, 1, and their sum is $64 + 8 + 1 = 73$. So the binary number 1001001 in decimal is 73.

In step 4, remove the value at 0 that has been turned off because the decimal number is essentially $1 * 64 + 0 * 32 + 0 * 16 + 1 * 8 + 0 * 4 + 0 * 2 + 1 * 1 = 73$, but because 0 multiplied by every number is 0, so I give up the trouble.

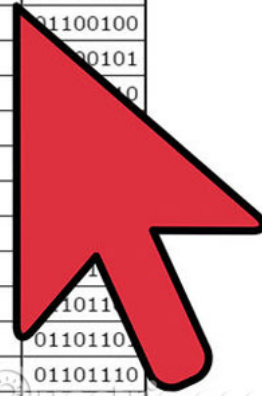
Can you imagine how to convert 73 back to binary?

If you want to convert the letter to binary and vice versa, see the following conversion table: Symbol is a letter, Decimal is a decimal, Binary is a Binary.

ASCII Alphabet Characters

Symbol	Decimal	Binary
A	65	01000001
B	66	01000010
C	67	01000011
D	68	01000100
E	69	01000101
F	70	01000110
G	71	01000111
H	72	01001000
I	73	01001001
J	74	01001010
K	75	01001011
L	76	01001100
M	77	01001101
N	78	01001110
O	79	01001111

Symbol	Decimal	Binary
a	97	01100001
b	98	01100010
c	99	01100011
d	100	01100100
e	101	01100101
f	102	01100110
g	103	01100111
h	104	01101000
i	105	01101001
j	106	01101010
k	107	01101011
l	108	01101100
m	109	01101101
n	110	01101110
o	111	01101111



The second way is only for you to understand the conversion algorithm, but with the range of 20 numbers 0 and 1, it is very frustrating. Don't be forced to use method 1 quickly.

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Having fun!

You finished reading the article "**Basic steps of binary code decoding**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.