What Are Binary And Hexadecimal Numbers

Binary number

A binary number is a number expressed in the base-2 numeral system or binary numeral system, a method for representing numbers that uses only two symbols...

Binary code

decimal or hexadecimal notation. There are many character sets and many character encodings for them. A bit string, interpreted as a binary number, can...

0 (section Symbols and representations)

no tens, and five ones. The same principle applies in place-value notations that uses a base other than ten, such as binary and hexadecimal. The modern...

Double-precision floating-point format (redirect from 64-bit binary floating-point format)

binary floating-point is a commonly used format on PCs, due to its wider range over single-precision floating point, in spite of its performance and bandwidth...

Binary file

data as a sequence of hexadecimal (or decimal, binary or ASCII character) values for corresponding bytes of a binary file. If a binary file is opened in a...

1 (section Symbols and representation)

technology, data is represented by binary code, i.e., a base-2 numeral system with numbers represented by a sequence of 1s and 0s. Digitised data is represented...

Floating-point arithmetic (redirect from Binary floating point)

mainframes support IBM's own hexadecimal floating point format and IEEE 754-2008 decimal floating point in addition to the IEEE 754 binary format. The Cray T90...

Base64 (category Binary-to-text encoding formats)

Hexadecimal to octal transformation is useful to convert between binary and Base64. Such conversion is available for both advanced calculators and programming...

Single-precision floating-point format (redirect from 32-bit binary floating-point format)

examples are given in bit representation, in hexadecimal and binary, of the floating-point value. This includes the sign, (biased) exponent, and significand...

IEEE 754 (redirect from IEEE Standard 754 floating-point numbers)

for Testing IEEE Decimal–Binary Conversion, Manuscript, CiteSeerX 10.1.1.144.5889 IEEE 754 2008, §5.12.3 "6.9.3. Hexadecimal floating point literals —...

List of numbers

notable numbers and articles about notable numbers. The list does not contain all numbers in existence as most of the number sets are infinite. Numbers may...

CPC Binary Barcode

below and record the hexadecimal numbers that they correspond to. (e.g. K1-A-0-B1 becomes 32-07-A-C2.) Convert those hex numbers to binary, and add leading...

Metric prefix (redirect from Demi (binary prefix))

in which M means 1000. Binary prefix – Prefix indicating a power of 2^10 (1,024) CJK Compatibility E1 series (preferred numbers) – Series of preferred...

Numeral (linguistics) (redirect from Names of numbers)

Tolkien's Elvish languages, which used duodecimal as well as decimal. Hexadecimal systems are based on the number 16. The traditional Chinese units of measurement...

Dot-decimal notation (section Version numbers)

numerical data expressed as a string of decimal numbers each separated by a full stop. For example, the hexadecimal number 0xFF000000 may be expressed in dot-decimal...

Numerical digit (section Palindromic numbers and Lychrel numbers)

(0 to 9), and binary (base 2) requires only two digits (0 and 1). Bases greater than 10 require more than 10 digits, for instance hexadecimal (base 16)...

Byte (redirect from Peta binary byte)

a nibble, also nybble, which is conveniently represented by a single hexadecimal digit. The term octet unambiguously specifies a size of eight bits. It...

Numeral system (redirect from Numbers And Numerals)

Positional systems obtained by grouping binary digits by three (octal numeral system) or four (hexadecimal numeral system) are commonly used. For very large integers...

Ternary numeral system (redirect from Binary–coded ternary)

representation of ternary, similar to how octal and hexadecimal systems are used in place of binary. In certain analog logic, the state of the circuit...

NaN

In the IEEE 754 binary interchange formats, NaNs are encoded with the exponent field filled with ones (like infinity values), and some non-zero number...

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