|  |  |  |
| --- | --- | --- |
| **Name** | **Equal to:** | **Size in Bytes** |
| Bit | 1 bit | 1/8 |
| Nibble | 4 bits | 1/2 (rare) |
| Byte | 8 bits | 1 |
| Kilobyte | 1,024 bytes | 1,024 |
| Megabyte | 1,024 kilobytes | 1,048,576 |
| Gigabyte | 1,024 megabytes | 1,073,741,824 |
| Terrabyte | 1,024 gigabytes | 1,099,511,627,776 |
| Petabyte | 1,024 terrabytes | 1,125,899,906,842,624 |
| Exabyte | 1,024 petabytes | 1,152,921,504,606,846,976 |
| Zettabyte | 1,024 exabytes | 1,180,591,620,717,411,303,424 |
| Yottabyte | 1,024 zettabytes | 1,208,925,819,614,629,174,706,176 |

Then there is the hypothetical "Googolbyte" which would be a number of bytes equal to a 10 followed by 100 zeroes.

|  |  |
| --- | --- |
| **Name** | **Example(s) of Size** |
| Byte | A single letter, like "A." |
| Kilobyte | A 14-line e-mail. A pretty lengthy paragraph of text. |
| Megabyte | A good sized novel. Shelley's "Frankenstein" is only about four-fifths of a megabyte. |
| Gigabyte | The multi-player version of Diablo II, installed. About 300 MP3s. About 40 minutes of video at DVD quality (this varies, depending on maker). A CD holds about three-fourths of a gigabyte. |
| Terrabyte | About thirty and a half weeks worth of high-quality audio. Statistically, the average person has spoken about this much by age 25. |
| Petabyte | The amount of data available on the web in the year 2000 is thought to occupy 8 petabytes (theorized by Roy Williams). |
| Exabyte | In a world with a population of 3 billion, all information generated anually in any form would occupy a single exabyte. Supposedly, everything ever said by everyone who is or has lived on the planet Earth would take up 5 exabytes. |
| Zettabyte | Three hundred trillion MP3s; Two hundred billion DVDs. If every person living in the year 2000 had had a 180 gigabyte hard drive filled completely with data, all the data on all those drives would occupy 1 zettabyte. |
| Yottabyte | ??? |