|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **File Storage Capacity by Powers of Two (Base 2)** | | | | | | | | | |
|  | **bit** | **byte** | **Kilobyte** | **Megabyte** | **Gigabyte** | **Terabyte** | **Petabyte** | **Exabyte** | **Zettabyte** |
| **bit** | 2^0 | 2^3 | 2^13 | 2^23 | 2^33 | 2^43 | 2^53 | 2^63 | 2^73 |
| **byte** | 2^3 | 2^0 | 2^10 | 2^20 | 2^30 | 2^40 | 2^50 | 2^60 | 2^70 |
| **Byte ~ Decimal** |  | 1 | 10^3 | 10^6 | 10^9 | 10^12 | 10^15 | 10^18 | 10^21 |
| **Human readable** |  | one | thousand | Million | Billion | Trillion | Quadrillion | Quintillion | Sextillion |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **File Storage Capacity by Bits and Bytes** | | | | | |
|  | **bit** | **byte** | **Kilobyte** | **Megabyte** | **Gigabyte** |
| **bit** | 1 | 8 | 8,192 | 8,388,608 | 8,589,934,592 |
| **byte** | 8 | 1 | 1,024 | 1,048,576 | 1,073,741,824 |

**Time conversions**

|  |  |
| --- | --- |
| 60 seconds | 1 minute |
| 60 minutes | 1 hour |
| 24 hours | 1 day |
| 3,600 seconds | 1 hour |
| 86,400 seconds ~ 86x10^3 | 1 day |
| 7 days | 1 week |
| 168 hours | 1 week |
| 28, 29, 30 or 31 days | 1 month |
| 365 days | 1 year |
| 366 days | 1 leap year |
| 12 months | 1 year |
| 31,536,000 seconds ~ 31x10^6 | 1 year |
| 31622400 seconds ~ 31x10^6 | 1 leap year |