C# Built-In Data Types

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| **Keyword** | **.NET Class** | **Type** | **Width (bits)** | **Bytes** | **Range** |
| **byte** | Byte | Unsigned integer | 8 | 1 | 0 to 255 |
| **sbyte** | SByte | Signed integer | 8 | 1 | -128 to 127 |
| **int** | Int32 | Signed integer | 32 | 4 | -2,147,483,648 to 2,147,483,647 |
| **uint** | UInt32 | Unsigned integer | 32 | 4 | 0 to 4294967295 |
| **short** | Int16 | Signed integer | 16 | 2 | -32,768 to 32,767 |
| **ushort** | UInt16 | Unsigned integer | 16 | 2 | 0 to 65535 |
| **long** | Int64 | Signed integer | 64 | 8 | -9223372036854775808 to 9223372036854775807 |
| **ulong** | UInt64 | Unsigned integer | 64 | 8 | 0 to 18446744073709551615 |
| **float** | Single | Single-precision floating point type | 32 | 4 | -3.402823e38 to 3.402823e38 |
| **double** | Double | Double-precision floating point type | 64 | 8 | -1.79769313486232e308 to 1.79769313486232e308 |
| **char** | Char | A single Unicode character | 16 | 2 | Unicode symbols used in text |
| **bool** | Boolean | Logical Boolean type | 8 | 1 | True or false |
| **object** | Object | Base type of all other types |  |  |  |
| **string** | String | A sequence of characters |  |  |  |
| **decimal** | Decimal | Precise fractional or integral type that can represent decimal numbers with 29 significant digits | 128 | 16 | ±1.0 × 10e−28 to ±7.9 × 10e28 |

ASCII Table

