

A. C# Simple Data Types

The simple data types provided by the C# programming language are as follows:

Category	Size	C# Data Type	Convert Support	Values
Signed integral	8	<code>sbyte</code>	<code>Convert.ToInt16</code>	-128 to 127
	16	<code>short</code>	<code>Convert.ToInt32</code>	-32,768 to 32,767
	32	<code>int</code>	<code>Convert.ToInt64</code>	-2,147,483,648 to 2,147,483,647
	64	<code>long</code>	<code>Convert.ToInt64</code>	-9,223,372,036,854,775,808 to 9,223,372,036,854,775,807
Unsigned integral	8	<code>byte</code>	<code>Convert.ToByte</code>	0 to 255
	16	<code>ushort</code>	<code>Convert.ToUInt16</code>	0 to 65,535
	32	<code>uint</code>	<code>Convert.ToUInt32</code>	0 to 4,294,967,295
	64	<code>ulong</code>	<code>Convert.ToUInt64</code>	0 to 18,446,744,073,709,551,615
Floating point	32	<code>float</code>	<code>Convert.ToSingle</code>	to , 7-digit precision
	64	<code>double</code>	<code>Convert.ToDouble</code>	to , 15-digit precision
High-precision decimal	128	<code>decimal</code>	<code>Convert.ToDecimal</code>	to , 28-digit precision
Boolean	8	<code>bool</code>	<code>Convert.ToBoolean</code>	<code>true</code> or <code>false</code>
Unicode character	16	<code>char</code>	<code>Convert.ToChar</code>	Any character from the Unicode character set (all letters, numbers, symbols, control characters, etc.)