

C# Math.Log2() – Syntax & Examples

C# Math.Log2() – Examples

In this tutorial, we will learn about the C# Math.Log2() method, and learn how to use this method to compute base 10 logarithm of a specified number, with the help of examples.

Log2(Double)

Math.Log2(d) returns the base 2 logarithm of a specified number `d`.

Syntax

The syntax of Log2() method is

```
Math.Log2(Double d)
```

where

Parameter	Description
d	The double value, whose base 2 logarithm is to be found.

Return Value

The method returns value of type double.

Example 1 – Log2(d)

In this example, we will find the base 2 logarithm of the following numbers.

- Positive Value
- Negative Value
- Positive Infinity
- Negative Infinity
- Zero

- zero

C# Program

```
using System;

class Example {
    static void Main(string[] args) {
        Double d, result;

        d = 8;
        result = Math.Log2(d);
        Console.WriteLine($"Log2({d}) = {result}");

        d = -7;
        result = Math.Log2(d);
        Console.WriteLine($"Log2({d}) = {result}");

        d = Double.PositiveInfinity;
        result = Math.Log2(d);
        Console.WriteLine($"Log2({d}) = {result}");

        d = Double.NegativeInfinity;
        result = Math.Log2(d);
        Console.WriteLine($"Log2({d}) = {result}");

        d = 0;
        result = Math.Log2(d);
        Console.WriteLine($"Log2({d}) = {result}");
    }
}
```

Output

```
Log2(8) = 3
Log2(-7) = NaN
Log2(∞) = ∞
Log2(-∞) = NaN
Log2(0) = -∞
```

Conclusion

In this [C# Tutorial](#), we have learnt the syntax of C# `Math.Log2()` method, and also learnt how to use this method, with the help of C# example programs.

C# Math

- ◆ [C# Math.Abs\(\)](#)
- ◆ [C# Math.Acos\(\)](#)
- ◆ [C# Math.Acosh\(\)](#)

▼ C# Math Methods

◆ C# Math.Asin()

◆ C# Math.Asinh()

◆ C# Math.Atan()

◆ C# Math.Atan2()

◆ C# Math.Atanh()

◆ C# Math.BigMul()

◆ C# Math.BitDecrement()

◆ C# Math.BitIncrement()

◆ C# Math.Cbrt()

◆ C# Math.Ceiling()

◆ C# Math.Clamp()

◆ C# Math.CopySign()

◆ C# Math.Cos()

◆ C# Math.Cosh()

◆ C# Math.DivRem()

◆ C# Math.Exp()

◆ C# Math.Floor()

◆ C# Math.FusedMultiplyAdd()

◆ C# Math.IEEERemainder()

◆ C# Math.ILogB()

◆ C# Math.Log()

◆ C# Math.Log10()

⇒ **C# Math.Log2()**

◆ C# Math.Max()

◆ C# Math.MaxMagnitude()

◆ C# Math.Min()

◆ C# Math.MinMagnitude()

◆ C# Math.Pow()

◆ C# Math.Round()

◆ C# Math.ScaleB()

◆ C# Math.Sign()

◆ C# Math.Sin()

◆ C# Math.Sinh()

◆ C# Math.Sqrt()

◆ C# Math.Tan()

◆ C# Math.Tanh()

◆ C# Math.Truncate()

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