

JavaScript Math acos() method

The JavaScript math **acos()** method returns the arccosine of the given number in the form of radians. The acos() method must be in the range -1 to 1, otherwise it returns **NaN**.

Syntax

The acos() method is represented by the following syntax:

```
Math.acos(num)
```

Parameter

num - A number.

Return

The arccosine of the number.



JavaScript Math acos() method example

Here, we will understand acos() method through various examples.

Example 1

Let's see a simple example of acos() method.

```
<script>  
document.writeln(Math.acos(-1)+"<br>");  
document.writeln(Math.acos(0)+"<br>");
```

```
document.writeln(Math.acos(0.5)+"<br>");  
document.writeln(Math.acos(1));  
</script>
```

Test it Now

Output:

```
3.141592653589793  
1.5707963267948966  
1.0471975511965979  
0
```

Example 2

Let's see some cases where acos() method returns NaN.

```
<script>  
document.writeln(Math.acos()+"<br>");  
document.writeln(Math.acos(2)+"<br>");  
document.writeln(Math.acos(-2));  
</script>
```

Test it Now

Output:

```
NaN  
NaN  
NaN
```

Example 3

Here, you can test acos() method with your own test cases.

```
<script>  
function display()  
{  
    var x=document.getElementById("num").value;
```

```
document.getElementById("result").innerHTML=Math.acos(x);
}
</script>
<form>
  Enter a number: <input type="text" id="num">
  <input type="button" onclick="display()" value="submit">
</form>
<p><span id="result"></span></p>
```

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