

JAVA.LANG.MATH.HYPOT METHOD

http://www.tutorialspoint.com/java/lang/math_hypot.htm

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Description

The **java.lang.Math.hypot***double***x, double**y returns $\sqrt{x^2 + y^2}$ without intermediate overflow or underflow. Special cases:

- If either argument is infinite, then the result is positive infinity.
- If either argument is NaN and neither argument is infinite, then the result is NaN.

Declaration

Following is the declaration for **java.lang.Math.hypot** method

```
public static double hypot(double x, double y)
```

Parameters

- **x** -- a value
- **y** -- a value

Return Value

This method returns $\sqrt{x^2 + y^2}$ without intermediate overflow or underflow

Exception

- **NA**

Example

The following example shows the usage of lang.Math.hypot method.

```
package com.tutorialspoint;

import java.lang.*;

public class MathDemo {

    public static void main(String[] args) {

        // get two double numbers
        double x = 60984.1;
        double y = -497.99;

        // call hypot and print the result
        System.out.println("Math.hypot(" + x + ", " + y + ")=" + Math.hypot(x, y));
    }
}
```

Let us compile and run the above program, this will produce the following result:

```
Math.hypot(60984.1, -497.99)=60986.133234122164
Loading [Mathjax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js
```