

TAKE 2 MINUTES TO LEARN NaN in JS



You Must know

[Don't Miss It]



What is NaN ?

- NaN stands for "Not a Number" and is a special value in JavaScript to indicate that a value is not a valid number.
- It is returned when an arithmetic operation or a mathematical function fails to produce a meaningful result.

```
▼ Object {money: "1800", Le
  ipos: NaN
  jpos: NaN
  level: "1"
  money: "1800"
  offset_x: -32
  offset_y: -250}
```



Common Scenarios Leading to NaN

```
JS

const result = 10 / 0;
// Outputs: Infinity

const invalidResult = "Hello" / 5;
// Outputs: NaN

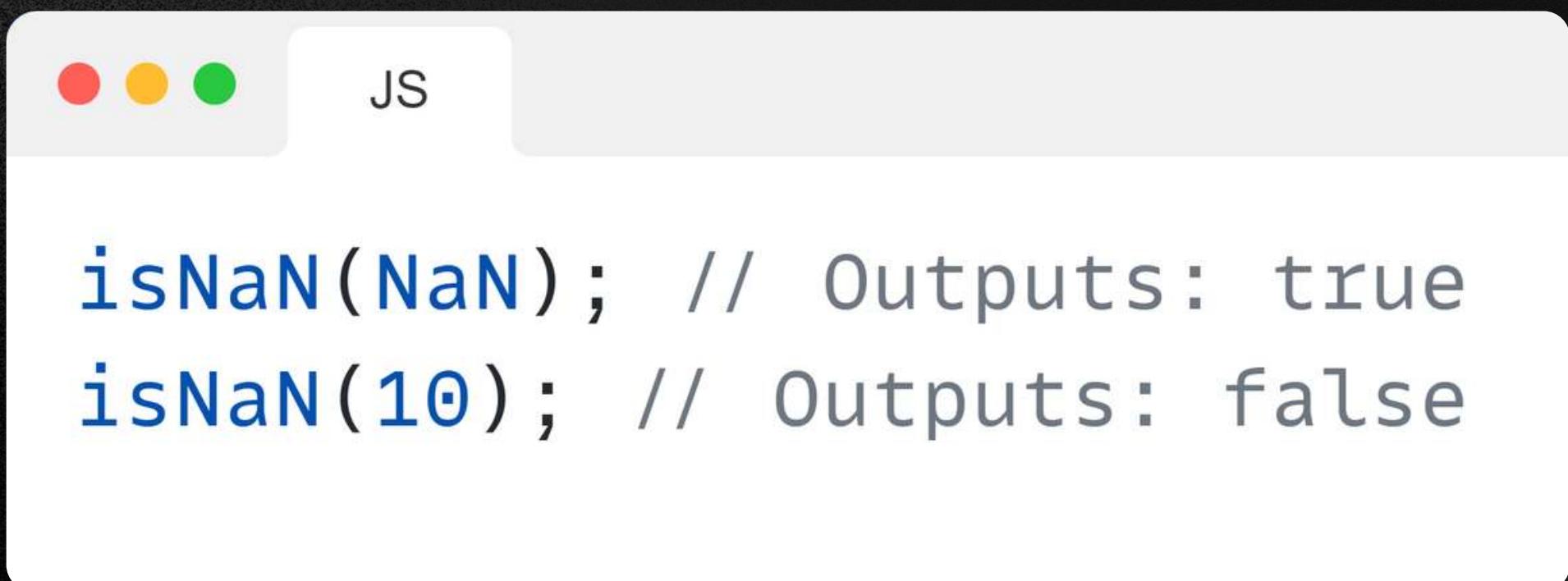
const invalidOperation = Math.sqrt(-1);
// Outputs: NaN

const invalidNumber = parseInt("Hello");
// Outputs: NaN
```



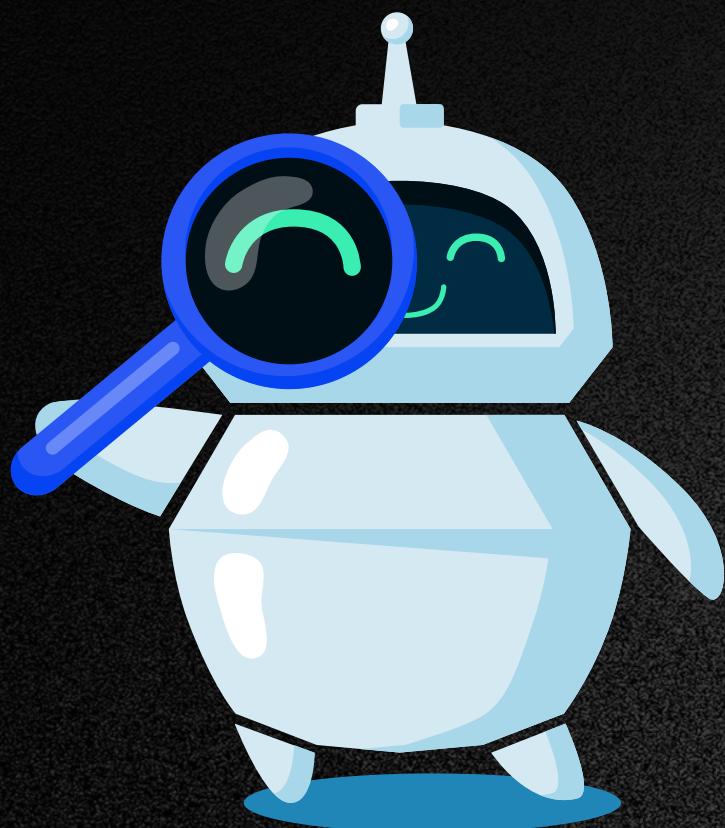
Detecting NaN

- Use the isNaN() function to check if a value is NaN:



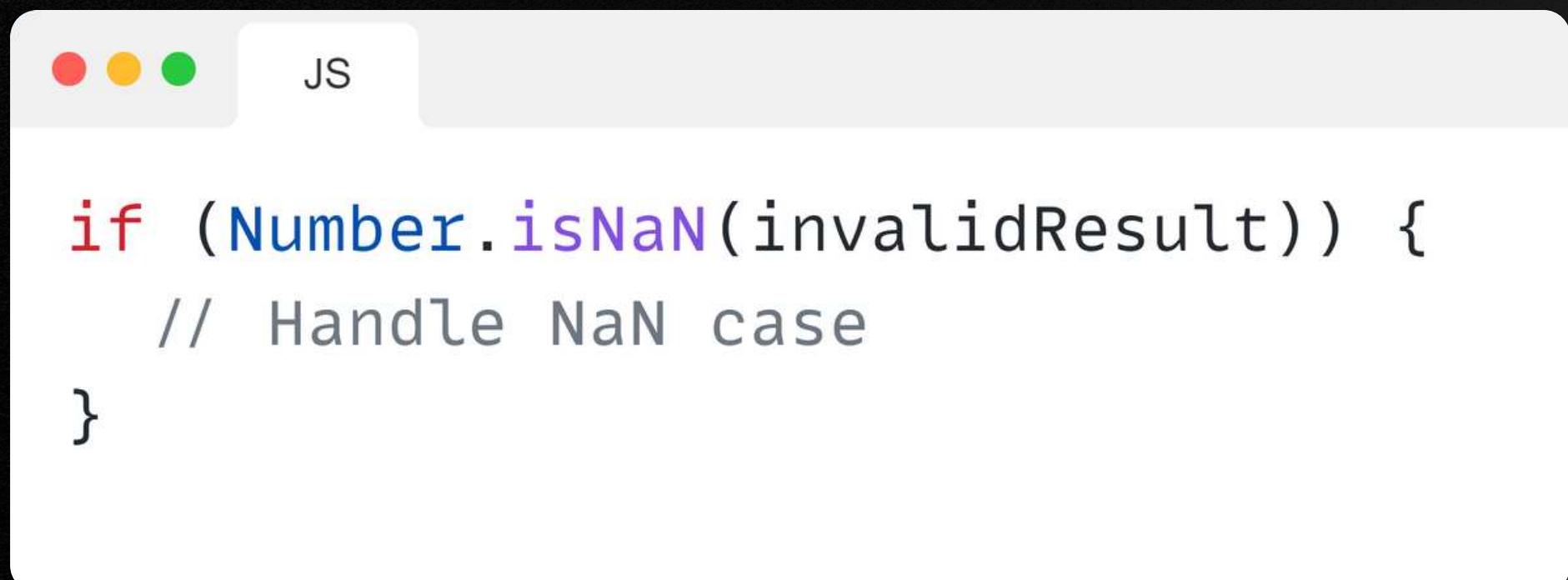
The image shows a screenshot of a web browser window. In the top left corner, there are three colored circular icons: red, yellow, and green. To the right of these icons, the letters "JS" are displayed, indicating the language being used. Below this, the browser's address bar contains the URL "https://www.w3schools.com/jsref/tryit.asp?filename=tryjsref_isnan". The main content area of the browser displays two lines of JavaScript code:
`isNaN(NaN); // Outputs: true`
`isNaN(10); // Outputs: false`

```
isNaN(NaN); // Outputs: true
isNaN(10); // Outputs: false
```



Handling NaN

- Implement error-checking mechanisms to handle scenarios where NaN might occur, ensuring graceful degradation of functionality.
- Use conditional statements or the Number.isNaN() method for more accurate NaN detection in modern JavaScript



The image shows a screenshot of a code editor interface. At the top left, there are three colored circular icons (red, yellow, green). To their right, the letters "JS" are displayed, indicating the language. The main area contains the following JavaScript code:

```
if (Number.isNaN(invalidResult)) {  
    // Handle NaN case  
}
```



Bonus Interview Question

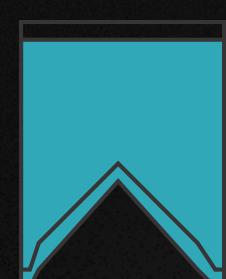
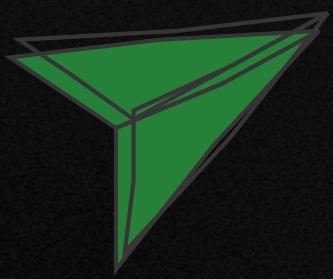
Predict the output
`console.log (NaN === NaN)`



Surprisingly, NaN is not equal !!
It prints “**false**”
To check if a value is NaN, use
`isNaN()` instead of direct
comparison.



**DID
YOU FIND
IT
HELPFUL ?**



Share this with a friend who needs it!



VINCENT RAJA
FULL STACK WEB DEVELOPER