



TAKE 2 MINUTES
TO LEARN
NaN in JS



You Must know

[Don't Miss It]



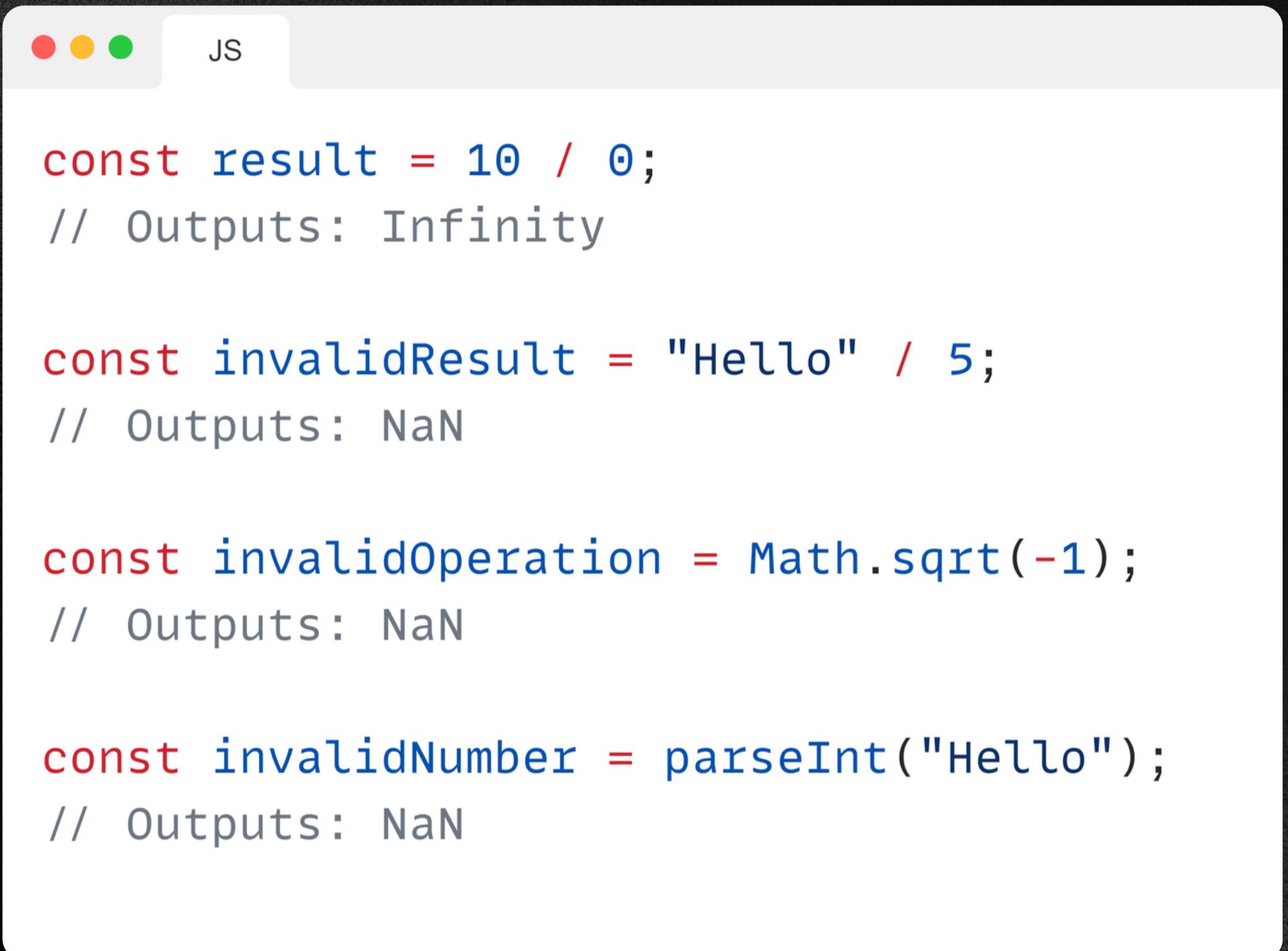
What is NaN ?

- 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: "1000", Le
  ipos: NaN
  jpos: NaN
  level: "1"
  money: "1000"
  offset_x: -32
  offset_y: -250}
```



Common Scenarios Leading to NaN



The image shows a screenshot of a web browser window with a light gray header bar containing three colored circular icons (red, yellow, green) and the text "JS". Below the header is a white content area containing four examples of JavaScript code. Each example consists of a red "const" keyword followed by a blue assignment operator (=), then a blue variable name, and finally a red comment block starting with "// Outputs:". The first example shows division by zero, the second shows a string divided by a number, the third shows a square root of a negative number, and the fourth shows parsing a non-integer string.

```
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
```



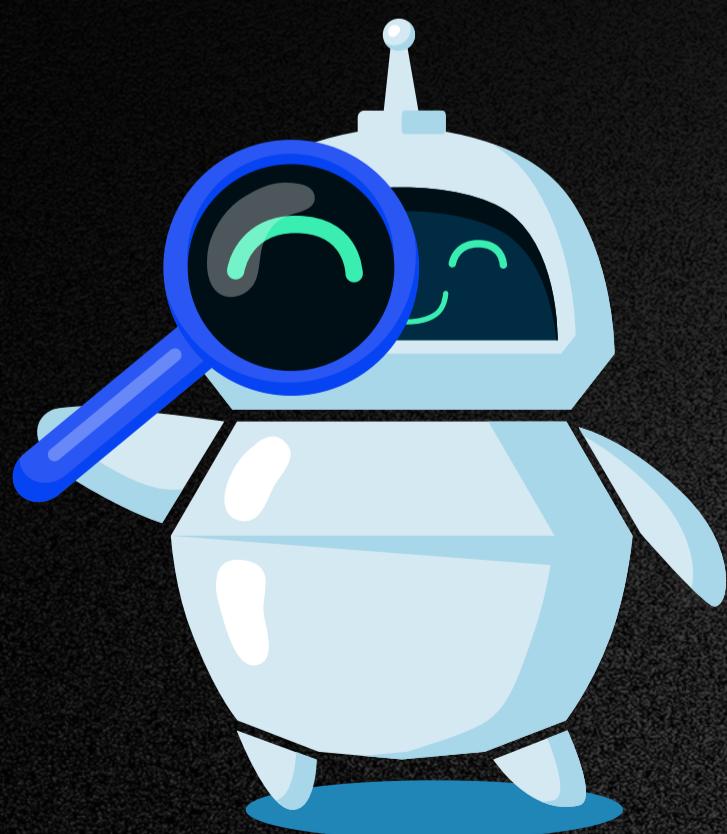
Detecting NaN

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



JS

```
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



JS

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



Bonus Interview Question

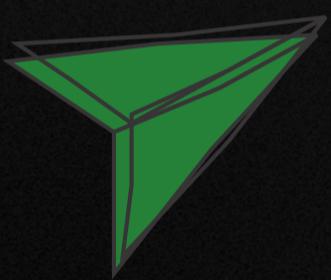
Predict the output
`console.log (NaN === NaN)`



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