JAVASCRIPT QUIRKS

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undefined
INDICATE THAT A
VALUE DOES NOT EXIST

NaN "NOT A NUMBER" (BUT STILL A NUMBER, null A SPECIFIC VALUE THAT DOES EXIST, BUT IS NULL

Infinity
A SPECIAL VALUE, BIGGER
THAN ANY NUMBER

EXAMPLE 31: UNDERSTANDING undefined

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undefined IS A SPECIAL VALUE FOR VALUES THAT DO NOT EXIST.

undefined IS NOT AN ERROR OR EXCEPTION, IT IS AN ACTUAL VALUE THAT YOU CAN TEST FOR

if(someVariable == undefined)

CASE #1: A VARIABLE HAS BEEN DECLARED, BUT NOT INITIALISED, ITS VALUE IS undefined

var someVariable; //undefined

CASE #2: A FUNCTION HAS NO RETURN VALUE, BUT YOU ATTEMPT TO ACCESS IT - ITS VALUE IS undefined

```
function getPerimeter(rectangle) {
  var perimeter = 2*(rectangle.length + rectangle.bre
  // missing return statement
  // return perimeter;
}
var someVariable = getPerimeter(rectangle);
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CASE #3: A VARIABLE DOES NOT EXIST, AND YOU ATTEMPT TO USE ITS VALUE, IT WILL BE undefined

console.log("Value of a non-existent variable = " +
noSuchVar);

CASE #4: A FUNCTION POES NOT EXIST, AND YOU ATTEMPT TO CALL IT - AN ERROR RESULTS - NOT undefined

nonExistentFunction();

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CASE #5: YOU ATTEMPT TO ACCESS A NON-EXISTENT PROPERTY OF AN OBJECT - undefined

console.log(rectangle.radius);

BTW, THIS IS TRUE WHETHER THE PROPERTY NEVER EXISTED, OR EVEN IF IT DID EXIST, BUT WAS DELETED.

```
CASE #6: YOU CALL THE typeof OPERATOR ON SOMETHING THAT IS undefined ALSO - undefined console.log("Type of undefined is ... wait for it.. " + (typeof unInitialisedVariable))
```

Type of undefined is ... wait for it.. undefined