Null & Undefined

Learn two more variable types in JavaScript: null and undefined. Learn what they represent, how they differ, and how to use them.

There are two more variable types that we should discuss.

undefined

undefined is meant to represent the idea that something doesn't exist. When we try to use a variable that has no value, we get undefined. Here's an example.

```
1 let variable;
2 console.log(variable); // -> un
```

When we declare a variable using let but don't give it a value, it receives the default value of undefined. This is JavaScript telling us that we're trying to use something that isn't there.

We'll see this pop up again in future lessons, following the same guideline. **undefined** is a special variable type used to indicate that something is **missing.** If we see it, it usually means something is wrong with our code.

For example, we'd have no reason to use a variable if we haven't given it a value, so when we do try to use it, JavaScript gives us undefined.

We can use it ourselves and assign the value to variables directly.

```
1 let variable = 'abc';
2 console.log(variable); // -> al
3
4 variable = undefined;
5 console.log(variable); // -> un
```





Although we can do this, we pretty much never want to assign a variable a value of undefined. It's meant to show that something has gone wrong and some value is missing.

If we want to specify that something has no value, we should use null.

nul1

null is another variable type. It represents something that's empty. The difference between null and undefined lies in they're implemented by JavaScript and used by developers.

null is something that is safe to use and to assign to variables.



undefined vs null

As mentioned, the JavaScript engine will make variables that have no value undefined. If we want to specify that a variable should be empty, the "correct" way to do so is to make it equal to null.

Code will work whether we use undefined or null. However, the development community often has a set of standard "best practices" to make code easier to read, interpret, and debug.

Preferring null over undefined is one of those best practices. Setting a variable to null is clear and communicates that we want to essentially delete the variable. We're done with it.

Setting it to undefined will make people look twice. They'll see it, be confused, and might look down upon the failure to follow common practice.

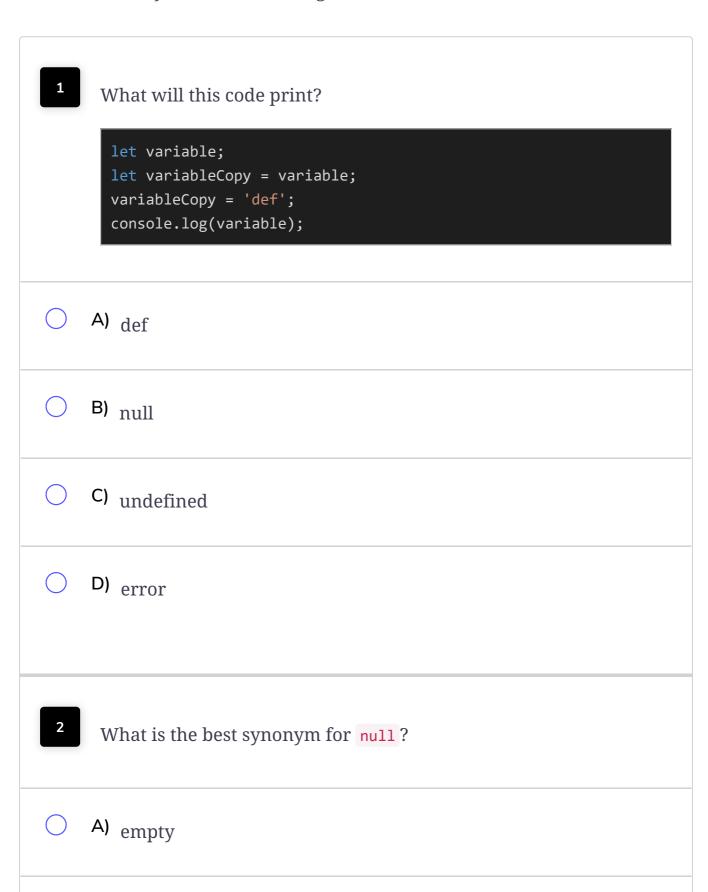
At this point, the concept of null and maybe undefined may seem confusing. When would we ever want to set a variable to null? These questions will be answered later

anovici ca fateri

At this point, just know that these are two more variable types in JavaScript. We won't be using them too much.

Quiz

Feel free to test your understanding.



O B) missing
C) undefined
What is the best synonym for undefined?
O A) empty
O B) missing
O C) null
CHECK ANSWERS