JAVASCRIPT INTERVIEW QUESTIONS
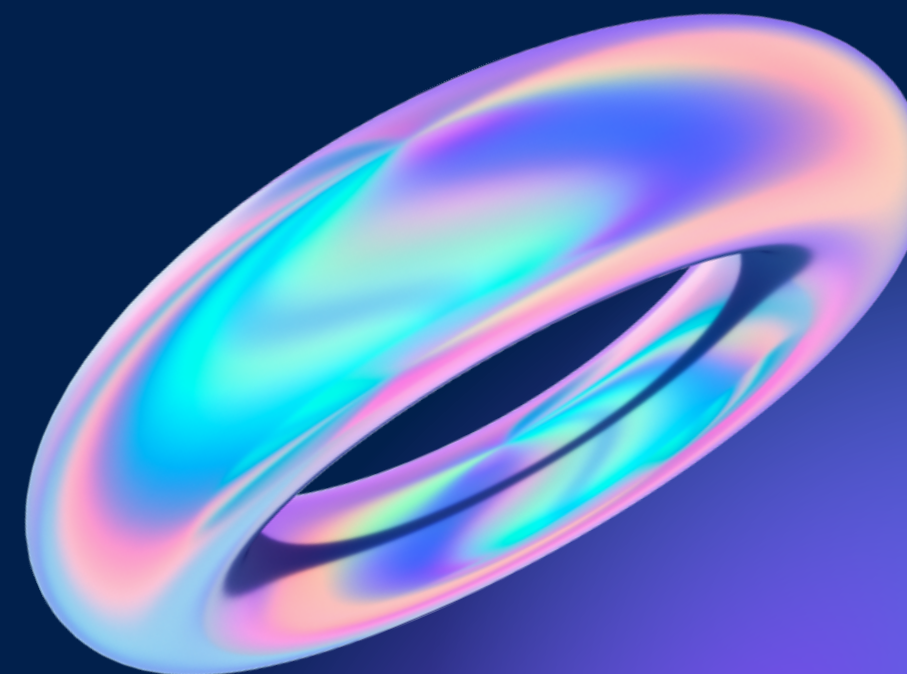
"In JavaScript, both `map` and `forEach` are array iteration methods, but they have some differences in terms of behavior and use cases. Let's compare the performance implications and discuss scenarios where one might be preferred over the other:"

1) `map` Method:

- Behavior:
  - Returns a new array by applying a provided function to each element of the original array.
  - The result is a transformed array with the same length as the original.

- Performance:
  - Creates and returns a new array.
  - Suitable for transforming each element and producing a modified copy of the array.

- Use Cases:
  - When you want to create a new array with the results of applying a function to each element.
  - When you want to avoid mutating the original array.

2) `forEach` Method:

- Behavior:
 - Iterates over each element of the array and performs a provided function with no return value.
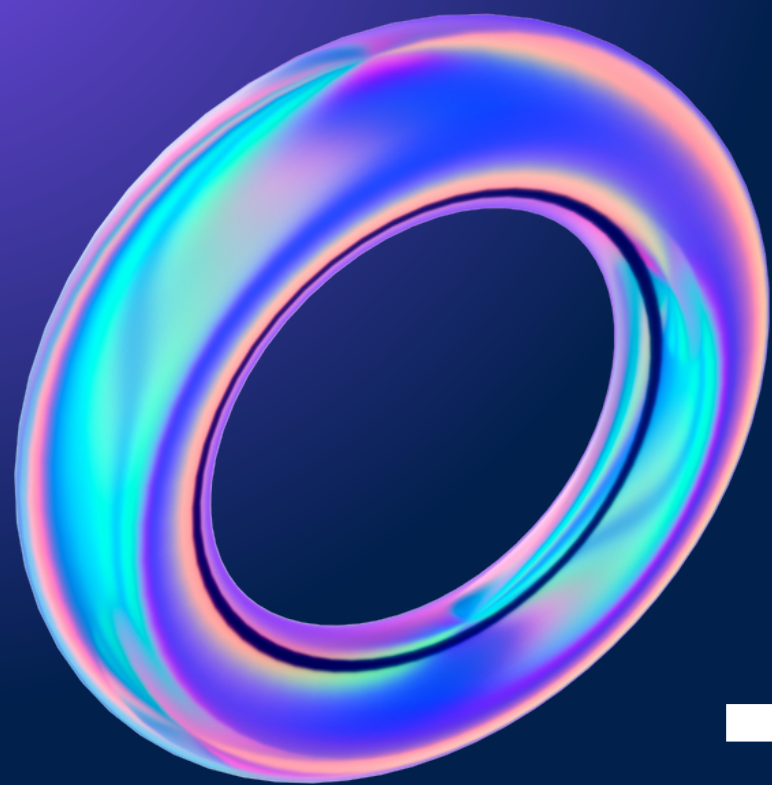 - Does not create a new array; it's mainly used for side effects.

- Performance:
 - Does not create a new array, making it potentially more memory-efficient.
 - Suitable for situations where you don't need a transformed array and only want to perform actions on each element.

- Use Cases:
 - When you want to perform a side effect (e.g., logging, updating external state) for each element.
 - When you don't need to create a new array.

THANK YOU

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