

JS

Memoization

in JavaScript

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What is Memoization?

Memoization is a technique for **speeding up** applications by caching the results of expensive function calls and returning them when the same inputs are used again.

The purpose of the cache is to **avoid** performing the **same work** more than once, **speeding up** subsequent calls of time-consuming functions.



When is Memoization used?

- In speeding up slow-performing, costly or time-consuming **function calls**
- When anticipating **multiple calls** of the **same function** under the same circumstances

Note: It should be **avoided** when the same function is called multiple times under very different circumstances



Consider this example :



```
function memoisedFibonacci(n, cache) {  
    cache = cache || [1, 1]  
    if (cache[n])  
        return cache[n]  
    return cache[n] =  
        memoisedFibonacci(n-1, cache) +  
        memoisedFibonacci(n-2, cache);  
}
```

Instead of doing the **same operation** again we just retrieve back the result from **cache object**.



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