

WHAT IS IT?

Wrapper on top of any function

```
function calculate (number = 10000000) {
   console.time('calculate');
   let result = 0;
   for (let index = 0; index < number; index += 1) {
      result = result += index;
   }
   console.timeEnd('calculate');
   return result;
}</pre>
```

```
function memo (func) {
       const cache = {};
 2
 3
 4
       return function memoiedFunc (arg) {
 5
            if (cache[arg]) {
 6
                return cache[arg];
 9
            // result
10
           cache[arg] = func(arg);
11
12
            return cache[arg];
13
       };
14 }
```

```
function memo (func) {
 2
       const cache = {};
 3
 4
       return function memoiedFunc (arg) {
 5
           const date = Date.now();
 6
           if (cache[arg]) {
                console.log('EXISTING in memoiedFunc = ' + (Dat
 8
                return cache[arg];
 9
10
11
           // result
12
           cache[arg] = func(arg);
           console.log('NEW in memoiedFunc = ' + (Date.now() -
13
14
15
           return cache[arg];
```

```
function memo (func) {
 2
       const cache = {};
 3
 4
       return function memoiedFunc (...args) {
 5
           if (cache[args]) {
 6
                return cache[args];
8
 9
           // result
10
           cache[args] = func.apply(this, args);
11
12
           return cache[args[0]];
13
       };
14 }
15
```

```
return cache[args];
10
           cache[args] = func.apply(this, args);
           return cache[args[0]];
16
   rand = memo(Math.random.bind(Math));
17
   rand(25, 35);
18
   rand(12, 11);
  rand(12, 6);
19
   rand(12, 11); // warm
20
```

DETAILS

Good decorators implementation

@decorator proposal