

Advanced JavaScript Cheatsheet



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Swipe



Closures



```
1  function createCounter() {  
2      let count = 0;  
3  
4      return function() {  
5          count++;  
6          return count;  
7      };  
8  }  
9  
10 let counter1 = createCounter();  
11 let counter2 = createCounter();  
12  
13  
14 console.log(counter1()); // Output: 1  
15 console.log(counter1()); // Output: 2  
16 console.log(counter2()); // Output: 1  
17
```



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Getters and Setters

```
1  class Student {
2      constructor(name, age) {
3          this._name = name;
4          this._age = age;
5      }
6
7      get name() {
8          return this._name;
9      }
10
11     set name(newName) {
12         this._name = newName;
13     }
14
15     get age() {
16         return this._age;
17     }
18
19     set age(newAge) {
20         this._age = newAge;
21     }
22 }
23
24 const student = new Student("Rodrigo", 28);
25 console.log(student.name); // Output: "Rodrigo"
26 console.log(student.age); // Output: 28
27
28 student.name = "Alexa";
29 student.age = 20;
30 console.log(student.name); // Output: "Alexa"
31 console.log(student.age); // Output: 20
```



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Async Await



```
1  async function fetchData(url) {  
2  
3      try {  
4  
5          const response = await fetch(url);  
6          const data = await response.json();  
7  
8          return data;  
9  
10     } catch (error) {  
11         console.error(error);  
12     }  
13 }  
14  
15 async function run() {  
16  
17     console.log("Before fetching data");  
18  
19     const data = await fetchData("https://jsonplaceholder.typicode.com/posts");  
20  
21     console.log("After fetching data");  
22 }  
23  
24 run();  
25
```



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Template Literals



```
1  const name = "Rodrigo";  
2  const age = 28;  
3  
4  const message = `Hello, my name is ${name} and I am ${age} years old.`;
```



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Promise

```
1  const fetchData = () => {
2      return fetch("https://api.example.com/data")
3          .then(response => {
4              if (!response.ok) {
5                  throw new Error(response.statusText);
6              }
7              return response.json();
8          })
9          .catch(error => {
10             console.error(`Promise rejected:`, error);
11         });
12 };
13
14 fetchData()
15     .then(data => {
16         console.log(`Promise resolved:`, data);
17     })
18     .catch(error => {
19         console.error(`Promise rejected:`, error);
20     });
21
```



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Async/Await

```
1  async function fetchData(url) {
2
3      try {
4
5          const response = await fetch(url);
6          const data = await response.json();
7
8          return data;
9
10     } catch (error) {
11         console.error(error);
12     }
13 }
14
15 async function run() {
16
17     console.log("Before fetching data");
18
19     const data = await fetchData("https://jsonplaceholder.typicode.com/posts");
20
21     console.log("After fetching data");
22 }
23
24 run();
25
```



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Meta Programming



```
1  const person = {};  
2  
3  Object.defineProperty(person, "name", {  
4    get: function() {  
5      return this._name;  
6    },  
7    set: function(value) {  
8      this._name = value.toUpperCase();  
9    }  
10 });  
11  
12 person.name = "Rodrigo";  
13 console.log(person.name); // "Rodrigo"  
14
```



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