**📝 JavaScript Frontend Cheatsheet (Beginner – up to fetch)**

**📌 1. Basics**

**✅ Variables**

js

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let name = "Alice"; // reassignable

const age = 30; // constant (can’t change)

var oldWay = true; // avoid 'var' in modern JS

**✅ Data Types**

* **String** – "Hello"
* **Number** – 42, 3.14
* **Boolean** – true, false
* **Array** – ["a", "b", "c"]
* **Object** – { key: "value" }
* **null** – no value
* **undefined** – declared but no value yet

**📌 2. Functions**

**✅ Function Declaration**

js

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function greet(name) {

return "Hello, " + name;

}

**✅ Arrow Function (ES6)**

js

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const greet = (name) => "Hello, " + name;

**📌 3. Conditionals**

js

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if (score > 90) {

console.log("Great job!");

} else if (score > 70) {

console.log("Nice work!");

} else {

console.log("Keep trying!");

}

**✅ Logical Operators**

* == – loose equality (ignores type)
* === – strict equality (checks type)
* && – AND
* || – OR
* ! – NOT

**📌 4. Loops**

**✅ For Loop**

js

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for (let i = 0; i < 5; i++) {

console.log(i);

}

**✅ For…of Loop**

js

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for (let item of array) {

console.log(item);

}

**📌 5. DOM Manipulation**

**✅ Selecting Elements**

js

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document.querySelector("h1"); // first match

document.querySelectorAll(".item"); // NodeList

document.getElementById("myId"); // by ID

**✅ Changing Content**

js

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element.textContent = "New Text";

element.innerHTML = "<strong>Bold</strong>";

**✅ Styling**

js

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element.style.color = "blue";

**📌 6. Events**

js

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const button = document.querySelector("#clickMe");

button.addEventListener("click", () => {

alert("Button clicked!");

});

**🔥 Common Events:**

* click
* submit
* mouseover
* keydown
* keyup

**📌 7. Arrays & Objects**

**✅ Array Methods**

js

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arr.push(4); // add to end

arr.pop(); // remove last

arr.shift(); // remove first

arr.unshift(0); // add to start

arr.map(x => x \* 2); // transform

arr.filter(x => x > 5); // filter

arr.forEach(x => console.log(x)); // loop

**✅ Object Access**

js

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const user = { name: "Alice", age: 30 };

console.log(user.name); // "Alice"

console.log(user["age"]); // 30

**📌 8. Template Literals**

js

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const name = "Bob";

const greeting = `Hello, ${name}!`; // backticks ``

**📌 9. Destructuring**

**✅ From Objects**

js

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const person = { name: "Jane", age: 25 };

const { name, age } = person;

**✅ From Arrays**

js

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const [first, second] = [10, 20];

**📌 10. Fetch API**

**✅ GET Request**

js

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fetch("https://api.example.com/data")

.then(response => response.json())

.then(data => {

console.log(data);

})

.catch(error => {

console.error("Error:", error);

});

**✅ POST Request**

js

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fetch("https://api.example.com/data", {

method: "POST",

headers: {

"Content-Type": "application/json"

},

body: JSON.stringify({ name: "Alice" })

})

.then(response => response.json())

.then(data => console.log(data));

**📌 11. JSON**

**✅ Converting Between JSON and JS**

js

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const jsonStr = '{"name":"Alice"}';

const obj = JSON.parse(jsonStr); // JSON string → object

const backToString = JSON.stringify(obj); // object → JSON string