

GarraTT's JavaScript Cheatsheet

A practical JavaScript reference for modern web projects. Focused on patterns you'll use in blogs, static sites, and apps: data, async, DOM, and modules.

Basics and Modern Syntax

Concept	Use	Example
const / let	Prefer const, use let when reassigned	<code>const site = "gcampton"; let views = 0; views += 1;</code>
Template strings	Readable interpolation	<code>const url = `/blog/\${slug}`;</code>
Destructuring	Pick fields cleanly	<code>const { title, date } = post;</code>
Default params	Safe function defaults	<code>function greet(name = "friend") { ... }</code>
Optional chaining	Avoid crashes on null	<code>const city = user?.profile?.city;</code>

Types and Equality

Topic	Rule of thumb	Example
typeof	Quick type checks	<code>typeof x === "string";</code>
Arrays	Use <code>Array.isArray</code>	<code>Array.isArray(items);</code>
Strict equality	Use <code>===</code> and <code>!==</code>	<code>0 === false; // false</code>
Nullish coalescing	Fallback only for null/undefined	<code>const name = input ?? "Untitled";</code>

Functions

Pattern	Use	Example
Arrow fn	Short callbacks	<code>const add = (a, b) => a + b;</code>
Named fn	Better stack traces	<code>function slugify(s) { return s.toLowerCase(); }</code>
Rest params	Variadic args	<code>function sum(...nums) { return nums.reduce((a,n)=>a+n,0); }</code>
IIFE	Local scope	<code>((() => { /* setup */ }))();</code>

Arrays

Method	Use	Example
map	Transform	<code>posts.map(p => p.title);</code>
filter	Keep matching	<code>posts.filter(p => p.published);</code>
find	First match	<code>posts.find(p => p.slug === s);</code>
reduce	Accumulate	<code>posts.reduce((acc,p)=>acc+p.views,0);</code>
sort	Custom ordering	<code>posts.sort((a,b)=>b.date.localeCompare(a.date));</code>

Objects

Pattern	Use	Example
Shallow copy	Clone with spread	<code>const copy = { ...post };</code>
Merge	Combine objects	<code>const merged = { ...a, ...b };</code>
Computed key	Dynamic property names	<code>const obj = { [key]: value };</code>
Object.entries	Iterate key/value	<code>for (const [k,v] of Object.entries(meta)) { ... }</code>

Async and Promises

Tool	Use	Example
async/await	Readable async flow	<code>const res = await fetch(url); const data = await res.json();</code>
try/catch	Handle failures	<code>try { ... } catch (err) { console.error(err); }</code>
Promise.all	Run in parallel	<code>const [a,b] = await Promise.all([fa(), fb()]);</code>
Timeout	Abort slow work	<code>const ctl = new AbortController(); setTimeout(()=>ctl.abort(), 8000);</code>

DOM Essentials

Task	Use	Example
Select	Grab elements safely	<code>const el = document.querySelector(".card");</code>
Create	Build nodes	<code>const li = document.createElement("li"); li.textContent = title;</code>
Insert	Append/prepend/replace	<code>list.append(li); el.replaceChildren(list);</code>
Events	Click, input, submit	<code>btn.addEventListener("click", () => { ... });</code>

fetch and JSON

Case	Use	Example
GET JSON	Load data	<code>const res = await fetch("/api/posts"); const posts = await res.json();</code>
POST JSON	Send data	<code>await fetch("/api/subscribe", { method: "POST", headers: { "Content-Type": "application/json" }, body: JSON.stringify({ email }) });</code>
Check status	Avoid silent failures	<code>if (!res.ok) throw new Error(`HTTP \${res.status}`);</code>

Modules and Tooling

Concept	Use	Example
Export	Expose functions	<code>export function slugify(s) { ... }</code>
Default export	Single main export	<code>export default function Page() { ... }</code>
Import	Use modules	<code>import { slugify } from "./slugify.js";</code>
npm scripts	Common commands	<code>"scripts": { "dev": "vite", "build": "vite build" }</code>

Debug and Quality

Tip	Why	Example
<code>console.*</code>	Inspect quickly	<code>console.log({ x, y }); console.table(posts);</code>
Guard clauses	Reduce nesting	<code>if (!user) return; if (!user.email) return;</code>
Prefer early returns	Readable logic	<code>if (res.ok) return data; throw new Error("Bad response");</code>
Lint + format	Consistent style	<code>eslint + prettier (or biome) in CI</code>