

1.3 EXCHANGING DATA · 1.3.4

JavaScript & web forms

Interactivity, the DOM, and validating forms on both sides. Spec 1.3.4(a).

01 JavaScript basics

What Scripting language for **interactive** pages.

Where Runs **client-side** in the browser; in `<script>` tags.

Interpreted Not compiled → **portable** across any processor.

Change text `getElementById("x").innerHTML = "..."`

Read input `getElementById("x").value`

Pop-up `alert("message")`

02 Validate both sides

● Client (JS)

Fast, instant feedback, less server load. **Can be bypassed.**

● Server

Re-checks after submit. **Secure** — can't be bypassed.

Why both UX from client; trust/security from server.

03 The three web languages

HTML Structure / content.

CSS Appearance / style.

JavaScript Behaviour / interactivity (client-side).

FINAL PASS BEFORE THE EXAM

Rapid exam tips

Six slips on JavaScript questions.

01

HTML structure · CSS style · **JavaScript behaviour**.

02

"Interpreted not compiled" → **portability** across processors.

03

Validate **both** sides — client can be bypassed, server is secure.

04

DOM syntax:
`document.getElementById("id").innerHTML` —
capitals matter.

05

`.value` reads an input; `.innerHTML` changes content.

06

Client-side advantage = **speed/no round-trip**; not security.