## How Browser Make the Website out of the bundle?

Request Response Build DOM
HTML Parsing

CSS JS

Render Blocking Parser Blocking

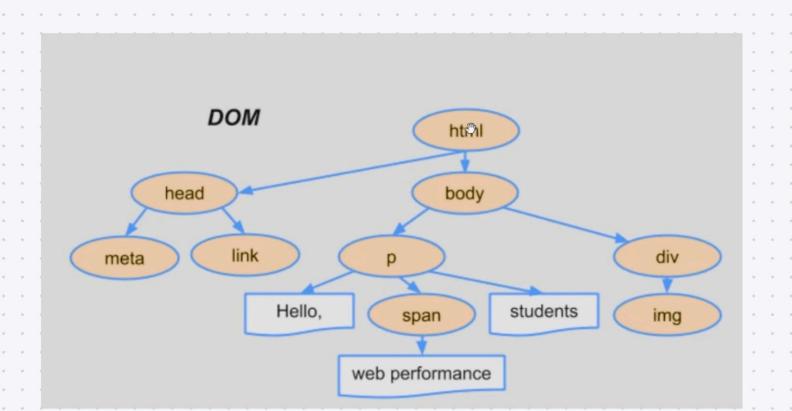
**Definition:** A resource (like CSS or some JS) that **prevents the page from rendering** until it is loaded and processed.

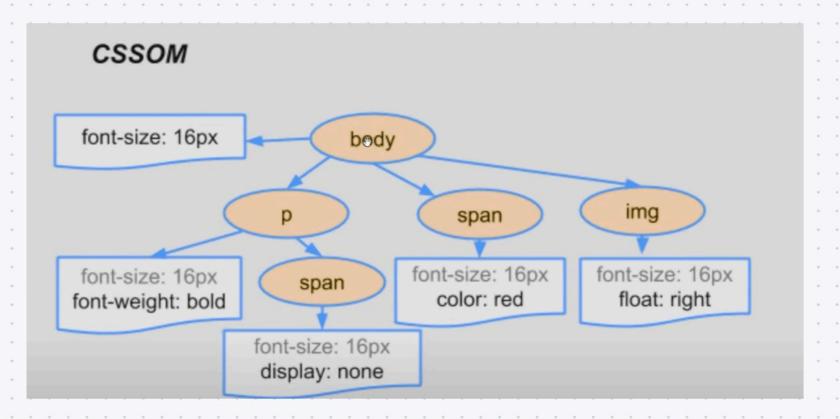
**Common Cause:** CSS files are render-blocking by default because the browser needs to apply styles before it can paint content.

**Definition:** A script that stops the **HTML parser** from continuing until it has been fetched and executed.

Common Cause: Regular JavaScript tags (<script>) without async or defer.

CSSOM Tree





Parsing

Execute JS

Build CSSOM

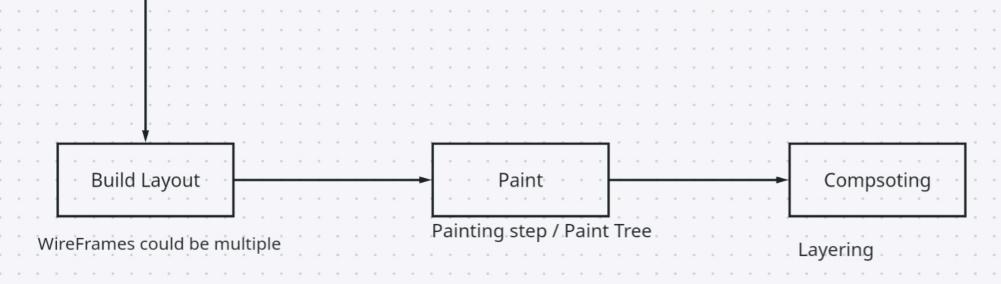
Merge DOM and

CSSOM

Render Tree

Rendering in the UI

Build Layout



A **wireframe** is a **visual guide** or **blueprint** that represents the skeletal structure of a web page or application. It focuses on **layout and functionality**, not colors, images, or final styling.