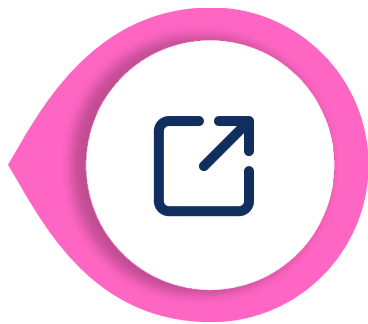


HOW BROWSERS LOAD WEBPAGES



URL - INPUT

- **Input** – You type the website address.
- **Address** – The unique name for a web resource.
- **Request** – The browser prepares to fetch data.



DNS RESOLUTION

- **Lookup** – Finds the server linked to the name.
- **Resolve** – Converts domain to IP address.
- **IP** – The actual address of the server.



TCP/TLS

- **Connect** – Starts communication with server.
- **Handshake** – Sets up a trusted link.
- **Secure** – Encrypts the connection for safety.



HTTP REQUEST

- **Method** – Defines the type of action (GET, POST).
- **Header** – Sends extra info like browser type.
- **Send** – Delivers the request to the server.



SERVER RESPONSE

- **Status** – Shows if request was successful (e.g., 200 OK).
- **Content** – Sends back HTML, CSS, etc.
- **Deliver** – Data reaches your browser.



BROWSER PARSES

- **Parse** – Reads and understands the HTML.
- **Construct** – Builds structure (DOM).
- **Load** – Loads scripts, styles, and assets.



PAGE RENDERED

- **Render** – Turns code into visible page.
- **Display** – Shows layout and visuals.
- **Interact** – Enables user actions and features.