



WHAT HAPPENS WHEN YOU TYPE A URL?

You press Enter and the page appears in under a second. Five things happen in that moment.

THE 5 STEPS

1. **DNS:** the browser asks a DNS server (the internet's phonebook) for the IP address of the name you typed.
2. **Secure connection:** the browser connects to that server. With HTTPS they agree on a secret key, so everything is encrypted (the lock icon).
3. **Request:** the browser sends an HTTP request: "give me the homepage".
4. **Response:** the server answers with a status code (200 = OK) and files: HTML, CSS, JavaScript.
5. **Rendering:** HTML gives structure, CSS gives style, JavaScript makes it interactive.

STATUS CODES TO KNOW

Code	Meaning
200	OK, everything worked
301	Moved permanently (redirect)
404	Page not found
500	Server error (their fault, not yours)

TRY IT YOURSELF

1. Open any website, press F12 → Network tab
2. Reload the page and watch every request appear
3. Click the first one to see its status code

Terminal: `nslookup google.com` # see the IP address

REMEMBER: NAME → IP → SECURE → REQUEST → RENDER



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