

The Internet: HTTP, DNS, IPs & APIs! 😱

{JS} JavaScript Mastery



The Internet is Just a Big Conversation

Every time you visit a website, **your device has a conversation with a server.**

But for this to happen, computers must **speak the same language** and know where to find each other.



The Language of the Web – **HTTP**

The internet runs on **protocols**, which are **rules for communication**.

The most important one? **HTTP (Hypertext Transfer Protocol)**.

It's how your browser requests pages from servers. **HTTPS (the secure version) ensures your data stays safe.**

How Do Computers Find Each Other?

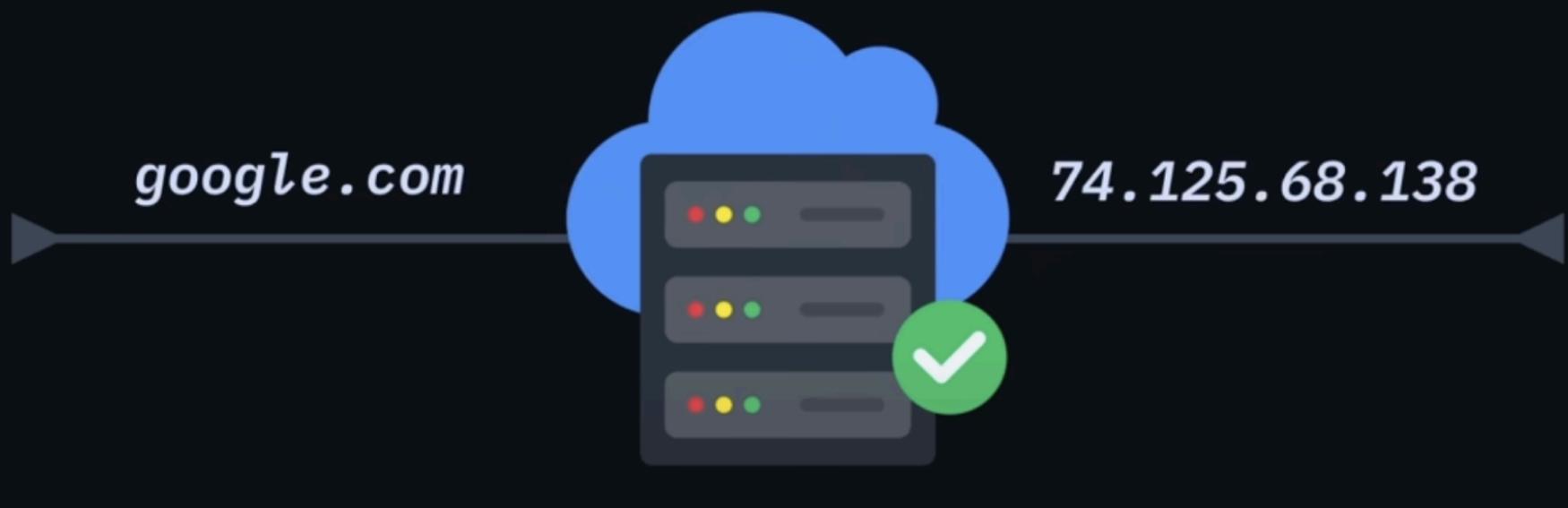
Every device connected to the internet has a **unique address**, called an **IP address** - like a home address for your device.

- **IPv4 (e.g. 192.168.1.1):** The old format, but we're running out of them.
- **IPv6:** The newer format designed to support more devices.

Why We Need DNS – The Internet's Phone Book

We remember names like **google.com**,
but computers use **IP addresses**.

DNS (Domain Name System)
translates domain names into IP addresses so your browser can find the right server.



The Journey of a Web Request

You type google.com in your browser.



The browser checks if it already knows the IP. If not, it asks a DNS server to find it.

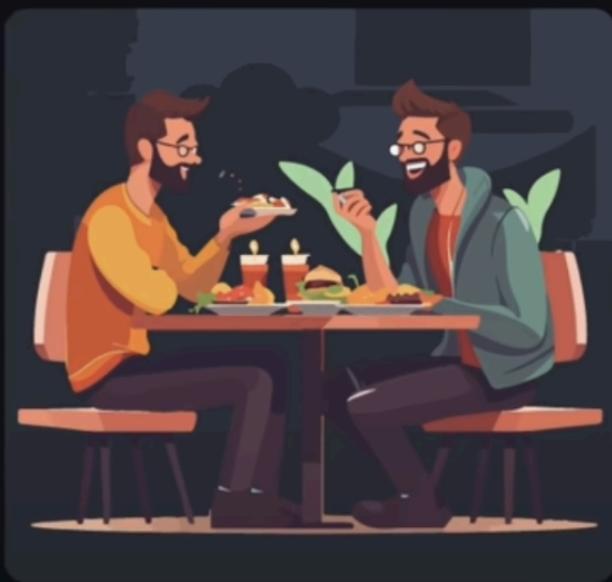


Once found, your browser connects to Google's server and loads the page.

What Happens Next? Enter APIs!

Now your device knows **how to connect to a server**. But how does it know what to ask for?

That's where **APIs (Application Programming Interfaces)** come in! 🔥





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Adrian Hajdin 
Founder and CEO of JS Mastery

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