

How does the web work?



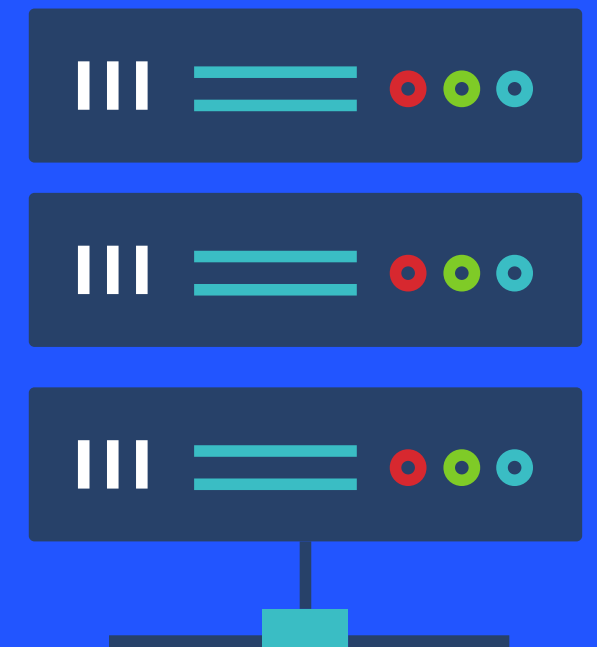
Clients and Servers



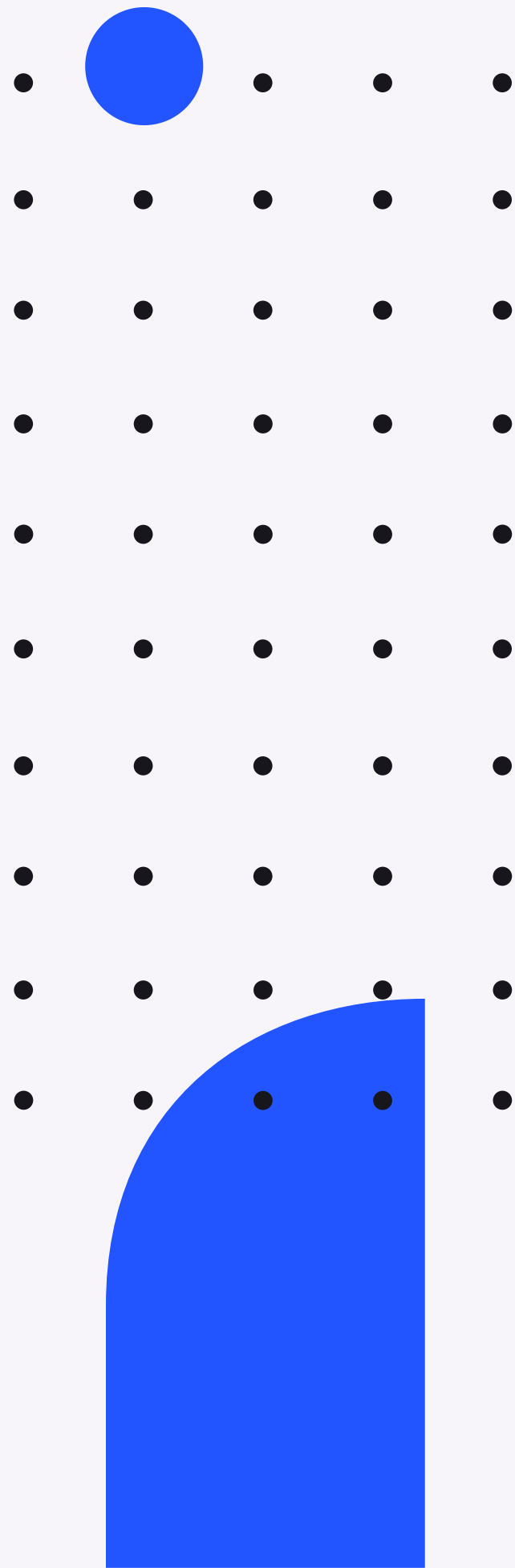
The web can be summarized as series of interactions between two types systems, clients and servers.



Client



Server



Web Architecture

The client and server we've described above don't tell the whole story. There are many other parts involved, and we'll describe them ahead.

● Your internet connection :

Allows you to send and receive data on the web. It's basically like the street between your house and the shop.

● DNS :

Domain Name Servers are like an address book for websites. When you type a web address in your browser, the browser looks at the DNS to find the website's real address before it can retrieve the website. The browser needs to find out which server the website lives on, so it can send HTTP messages to the right place (see below). This is like looking up the address of the shop so you can access

● TCP/IP :

Transmission Control Protocol and Internet Protocol are communication protocols that define how data should travel across the internet. This is like the transport mechanisms that let you place an order, go to the shop, and buy your goods. In our example, this is like a car or a bike (or however else you might get around).

● HTTP :

Hypertext Transfer Protocol is an application protocol that defines a language for clients and servers to speak to each other. This is like the language you use to order your goods.

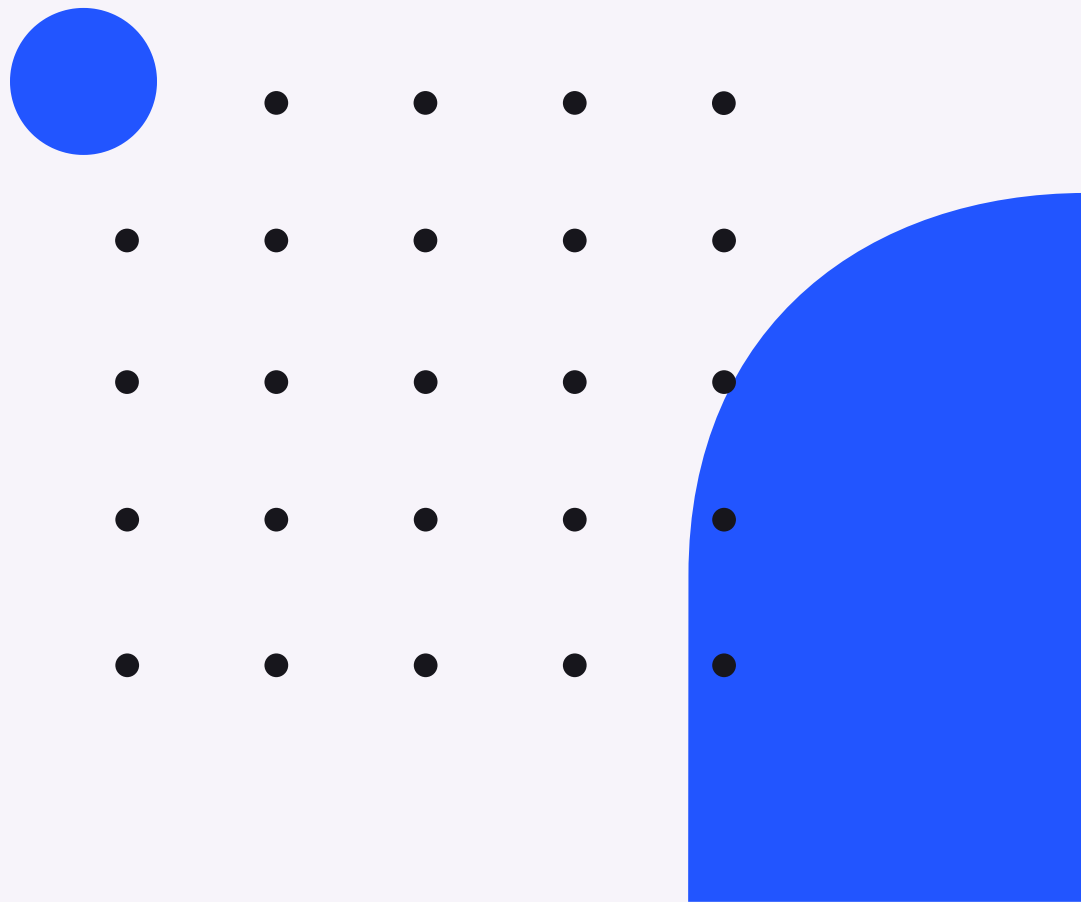


To be a Web developer

To become a Web Developer, you need an understanding of HTML, CSS, and JavaScript.



{.js}
JavaScript



The role of a Web Developer

A Web Developer makes and maintains websites, either by using a Web Content Management System (CMS) or by building them from scratch while writing clean and efficient code. Web Developers are split into two categories.

- Front-End Web Developers : responsible for a website's appearance. They make the website's layout and integrate applications, graphics, and other content. In certain cases, a front-end developer could also write content for the site.
- Back-End Web Developers : handles a website's technical or construction aspects. They make the site's basic framework and ensure it functions properly. They create the programs and code that power the website's databases, server, and any other applications it could contain.

