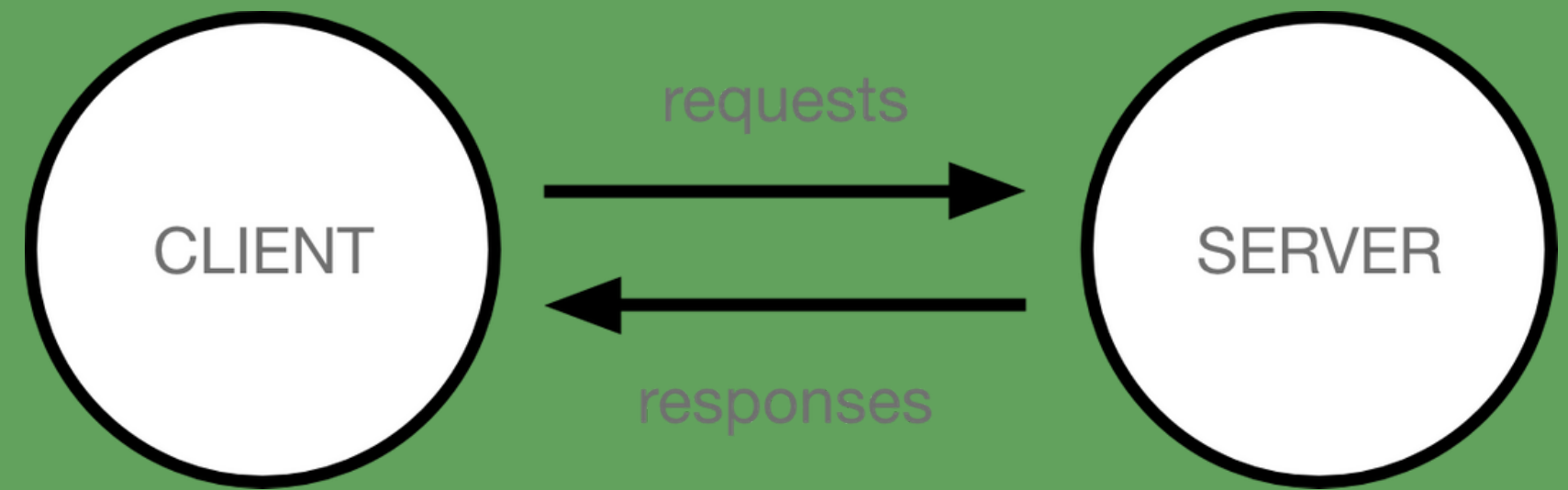# Web Fundamentals

What do you need to be a web developer

Languages: HTML, CSS and JavaScript , …

Libraries and Frameworks: Bootstrap and jQuery

Optional: Design Software Sketch and Photoshop

How the Web works

Clients are the typical web user's internet-connected devices and web-accessing software available on those devices

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Servers are computers that store webpages When a client device wants to access a webpage, a copy of the webpage is downloaded from the server onto the client machine

other parts of the toolbox

TCP/IP: Transmission Control Protocol and Internet Protocol are communication protocols that define how data should travel across the internet.

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.

HTTP: Hypertext Transfer Protocol is an application protocol that defines a language for clients and servers to speak to each other.

What's the role of a web developer

Web developers typically construct the layout of a website, creating a visually interesting home page and user-friendly design, and may sometimes write content for the website. After a website is up and running, developers make sure that the site is functional on all web browsers, testing and updating as needed.