***Checkpoint1***

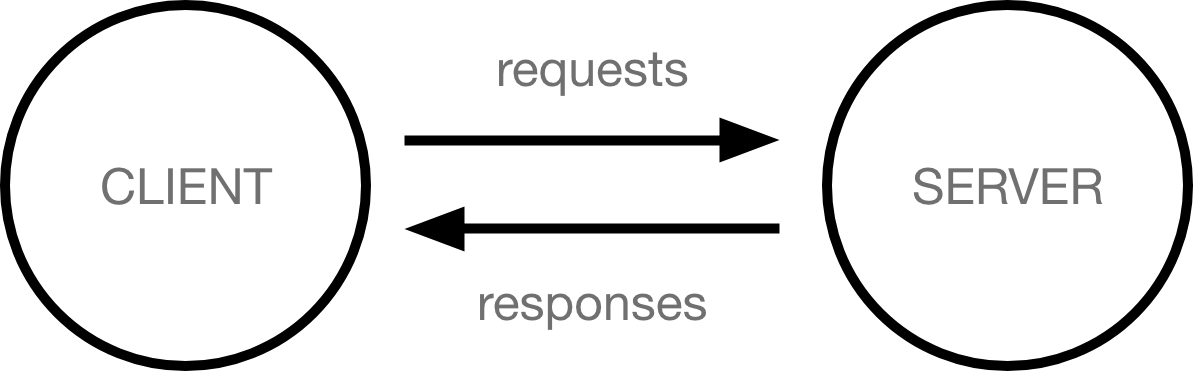
# How the Web works

How the web works provides a simplified view of what happens when you view a webpage in a web browser on your computer or phone.

This theory is not essential to writing web code in the short term, but before long you'll really start to benefit from understanding what's happening in the background.

## [Clients and servers](https://developer.mozilla.org/en-US/docs/Learn/Getting_started_with_the_web/How_the_Web_works#clients_and_servers)

Computers connected to the web are called **clients** and **servers**. A simplified diagram of how they interact might look like this:



* Clients are the typical web user's internet-connected devices (for example, your computer connected to your Wi-Fi, or your phone connected to your mobile network) and web-accessing software available on those devices (usually a web browser like Firefox or Chrome).
* Servers are computers that store webpages, sites, or apps. When a client device wants to access a webpage, a copy of the webpage is downloaded from the server onto the client machine to be displayed in the user's web browser.

## **Qualifications do you need to become a web developer**

While there are no formal or specific qualifications required to become a web developer, a numerate degree in a subject such as maths or science will be useful.

You should also ideally have an aptitude for - or experience of - elements such as:

* User experience (UX)
* User interface (UI)
* Visual design
* Coding languages including HTML and CSS
* Frontend web programing languages and skills such as JavaScript, Ajax and web animation techniques
* Backend web programing languages such as C# or Java, PHP and Ruby
* Design software like Photoshop and Illustrator and Sketch
* An understanding of SEO
* Web servers and how they function

The role of a web developer.

A Web Developer is responsible for the coding, design and layout of a website according to a company’s specifications. As the role takes into consideration user experience and function, a certain level of both graphic design and computer programming is necessary. Once a website has been created, a Web Developer will generally assist with the maintenance and upkeep of the website.