

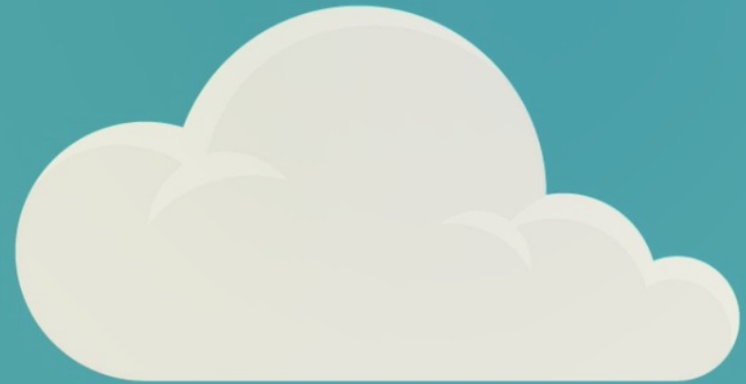
Front-End Web Development



How does the internet actually work?

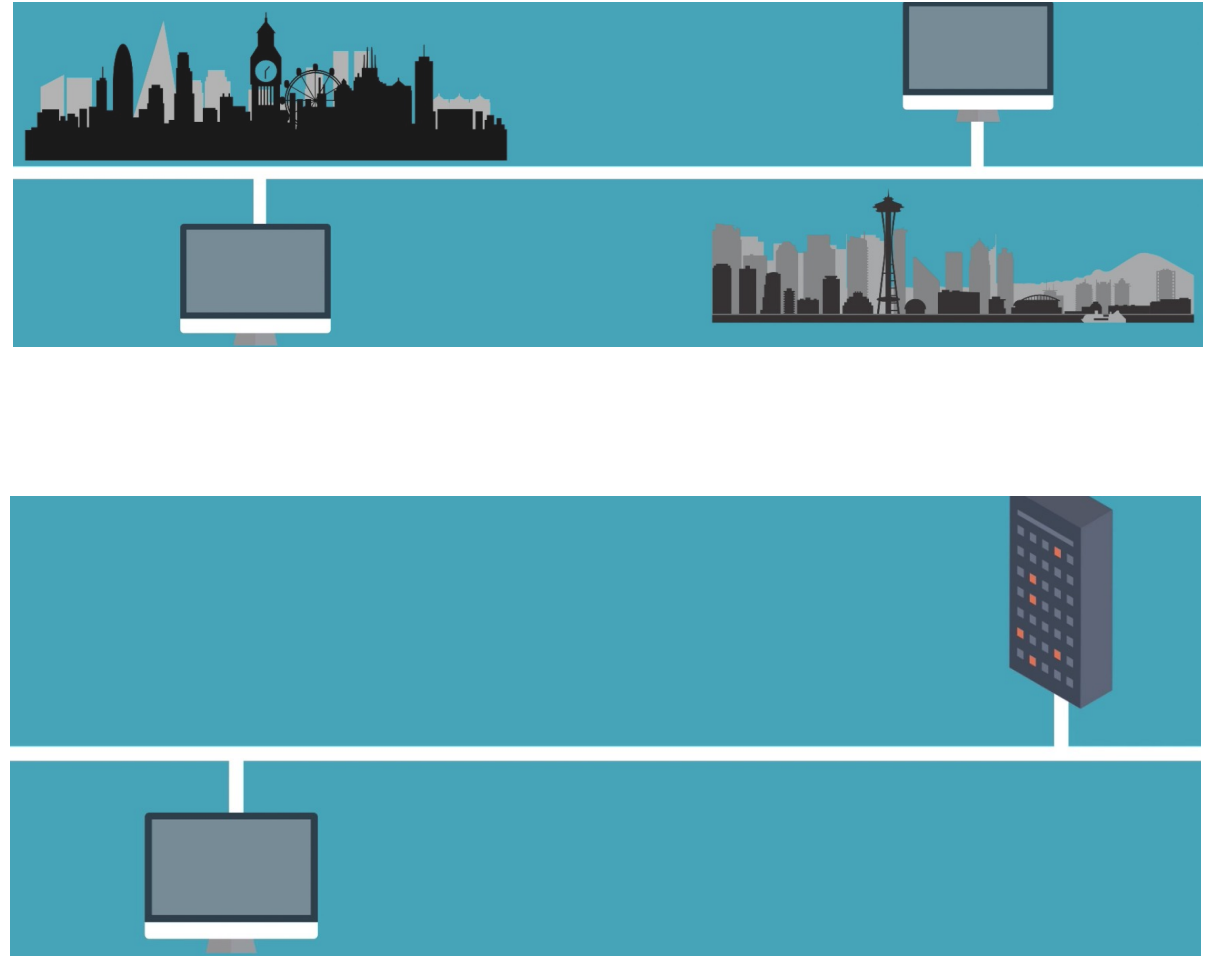
- A lot of people think of it as a cloud. Something that is hanging around in the sky, it is super complex. Super difficult to understand but actually that is not it at all.

The Internet



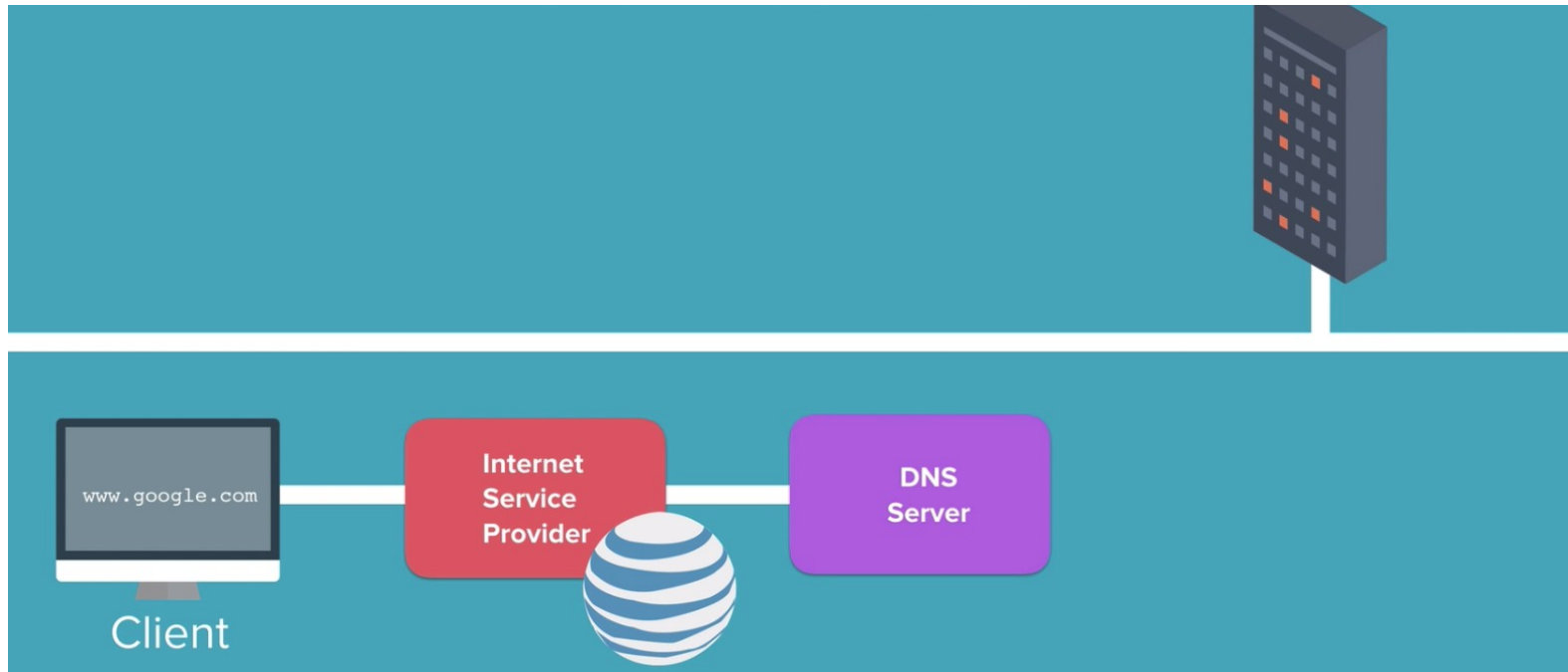
The internet is really simple

- The internet is just a long piece of wire and the wire connects different computers to each other. Ex: a computer in Seattle and other in Spain.
- Some of these computers attached to the internet have a very special job. They have to be online 24/7 and transfer data to this giant wire.

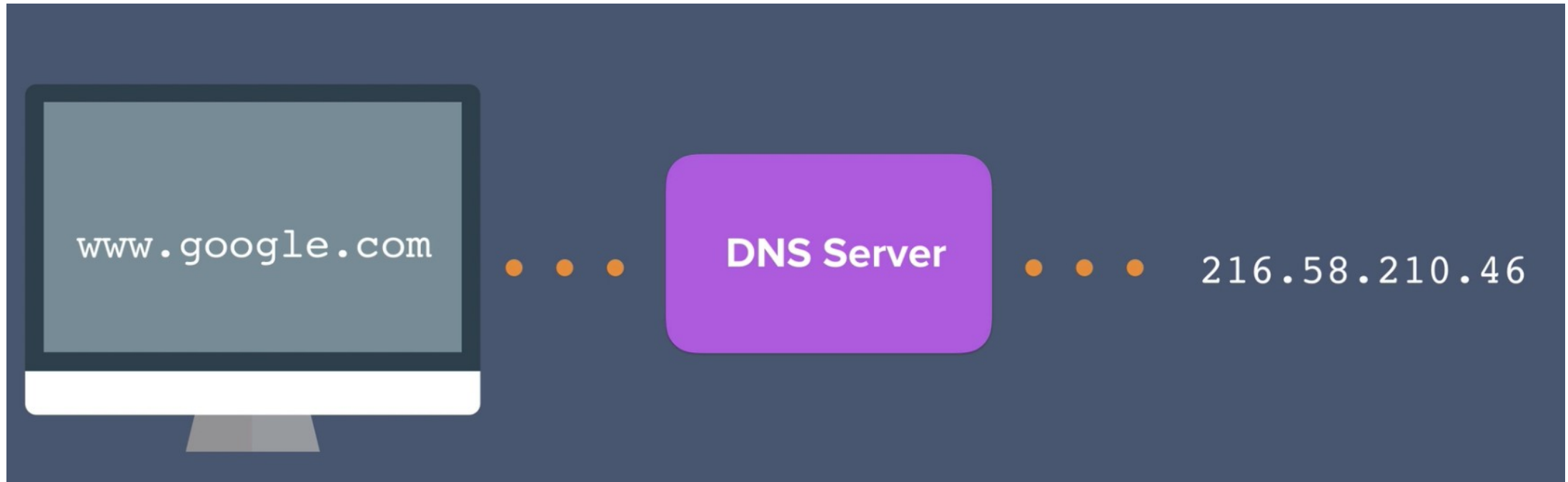


- The computers are going to be ready to serve you all of the data and the files that you are requesting when you try to access websites and the computers that are doing that job,

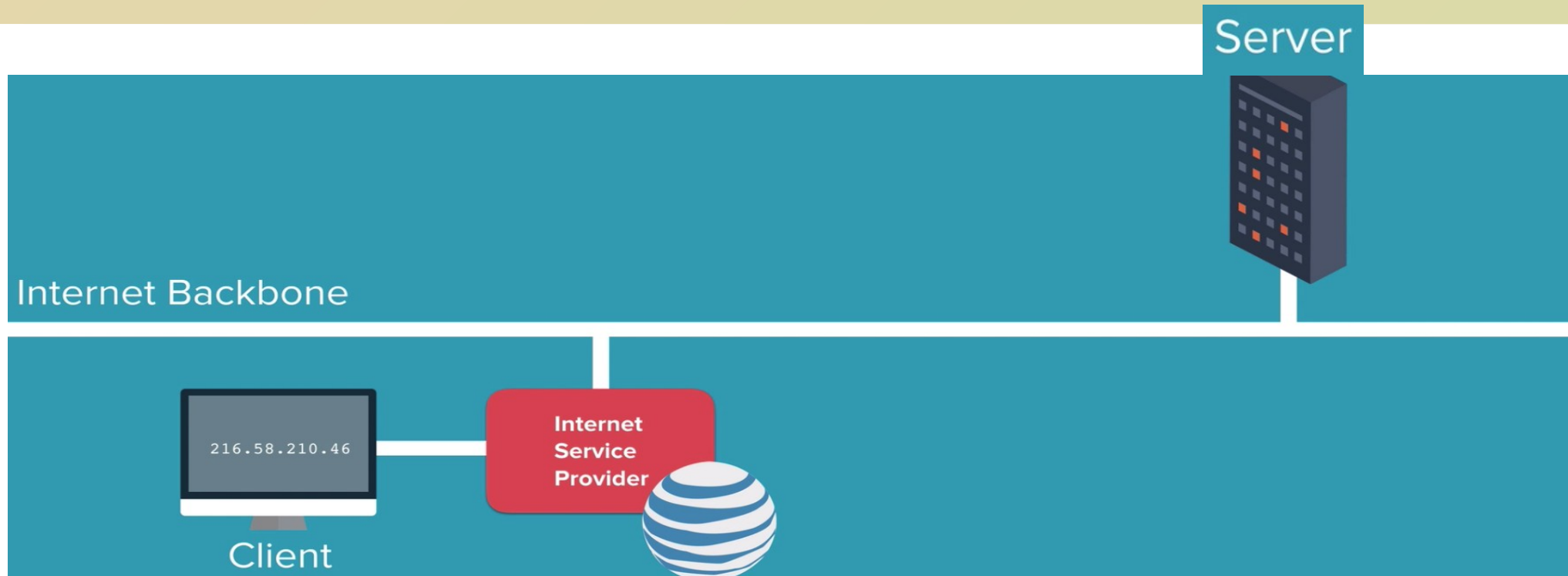




- Let's say that you are sitting at home on your computer, and you type in google.com because you want to head over to the main google homepage. What happens behind the scenes is that your browser will send a message to your ISP. These are the people who you pay to have internet. ISP send the msg to the DNS server. The DNS server is essentially a just souped-up phonebook.



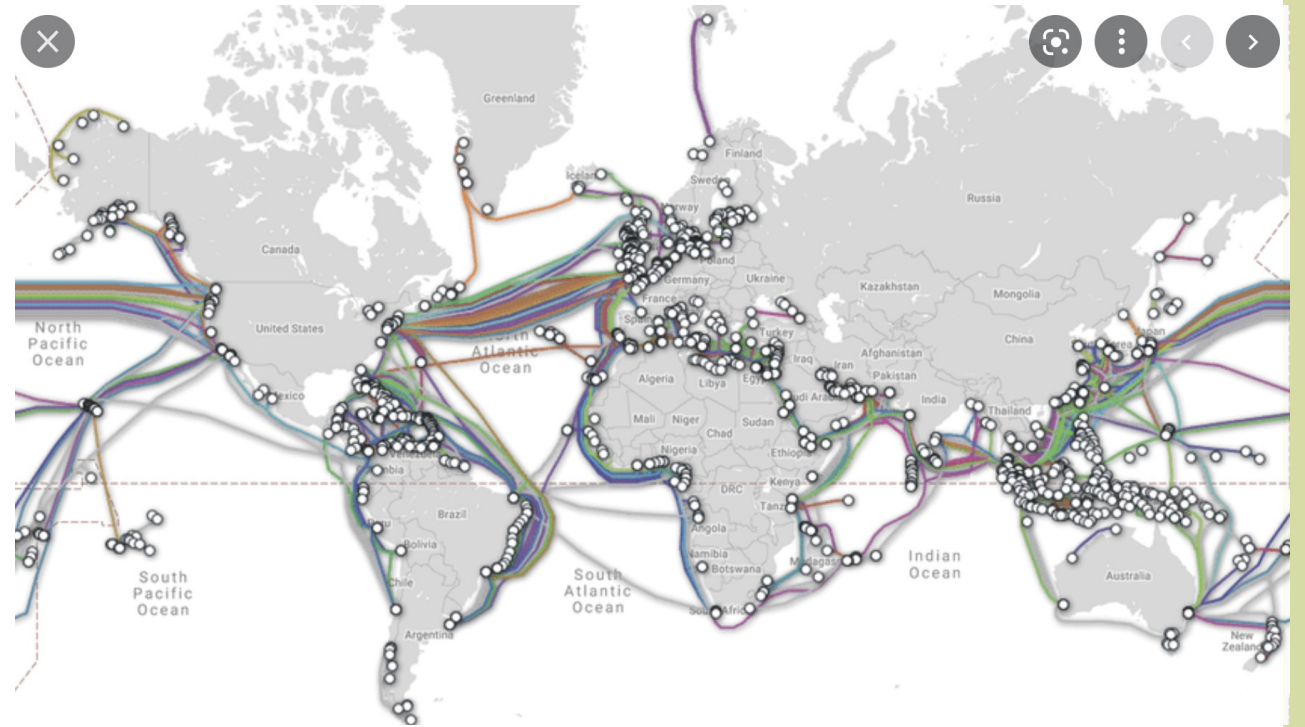
- The DNS server will look up in its database as to what is the exact IP address of that website that you are trying to access. Every single computer that is connected to the internet has an IP address. When the DNS server finds the address – it will send it back to your browser. So now, you know the exact address where you can find the google homepage.



- The next thing that happens is you will send a direct request to that address through your ISP and this message will be delivered via what is called the internet backbone.

The internet backbone – submarine cable map

- The internet back bone is not some sort of analogy for some clever programming. It is literally the backbone of the internet.

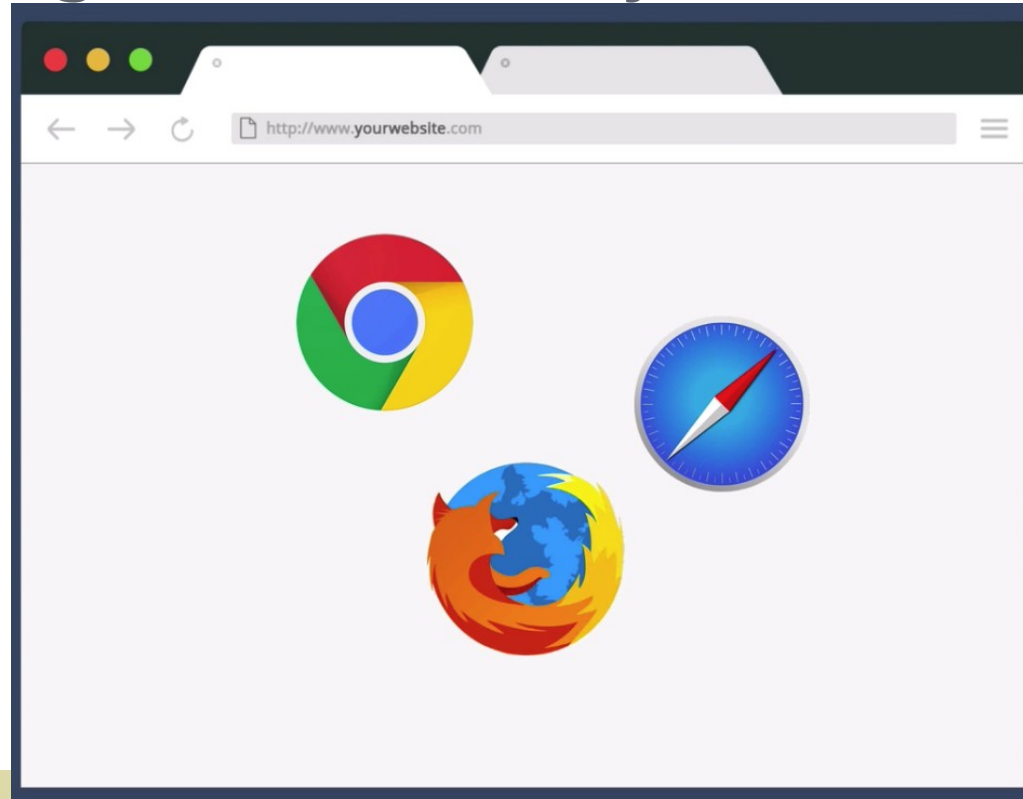


Underwater cable that powers the internet.

How do websites work?

What does HTML, CSS and JS do?

- In order to go to a website, you need a browser such as:

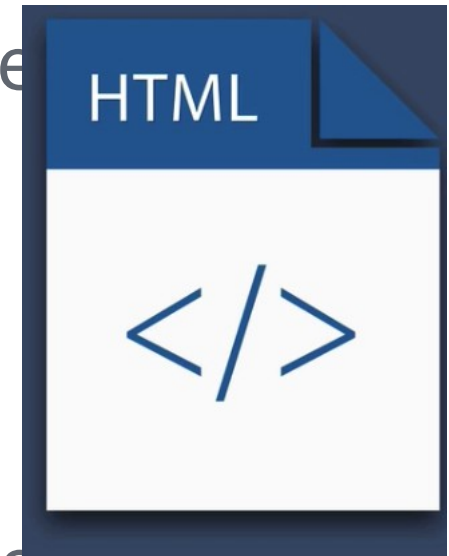


- These are all pieces of software that allow you to look up the ip address of your website and be able to receive data that it can render into this beautiful websites that we see.
- The data that you receive from the server usually consist of three type of files.



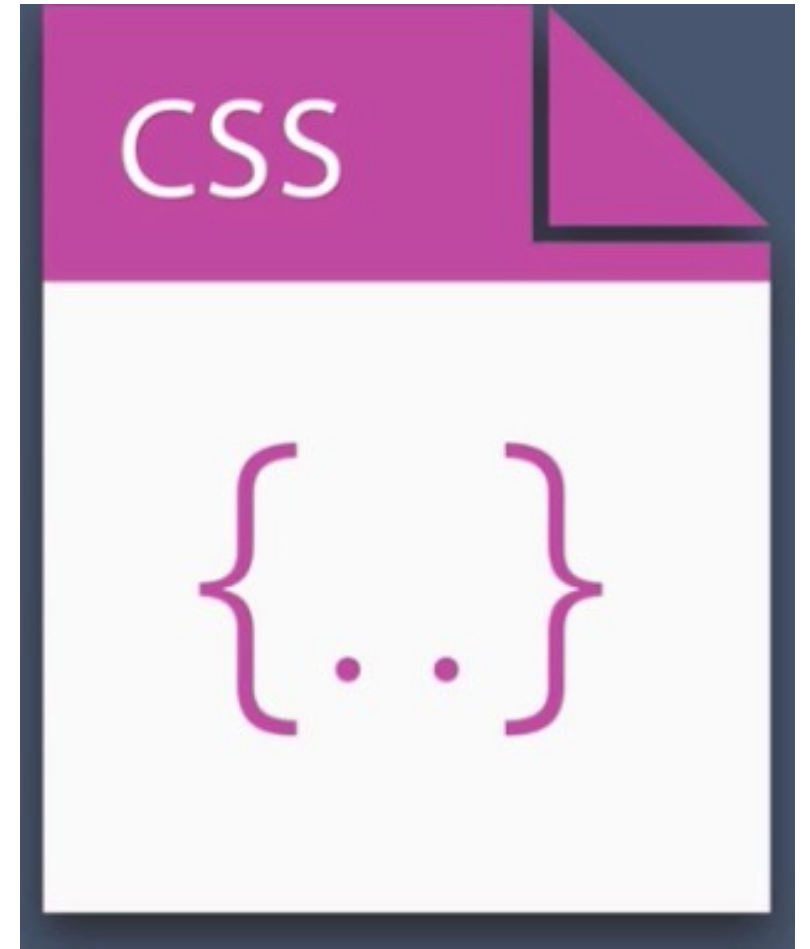
HTML FILE

- It is responsible of the structure of the website
- If a website was a house, then the HTML
- would be the builder who would come in to
- Build the walls or put the toilet. It establish the
- Structure of the house.



CSS fILE

CSS IS THE ONE RESPONSIBLE TO STYLE YOUR WEBSITE.



JavaScript file

- This is the code that allows your website to do this – add behavior. And if you were building a house, you would have the electrician to come in who would be able to connect the wires so that your light bulbs actually turn on.
- It allows your website to do things.

