# What is the internet?

* Internet is just like a wire (A really long one)
* Servers = Online 24/7 ready to serve you all the data and files that we are requesting when we are trying to access a website
* Client = Any computers that user would use to access the **Server**
* If we go to google with our PC. What happens:
  + Client -> ISP -> DNS
  + ISP (Internet Service Provider) = People who we pay to get internet access. ISP relay the message to DNS
  + DNS (Domain Name System Server) = DNS server is simply just like a super phonebook. If we want to access google, it will find us the exact IP address of the website we are trying to access.
  + IP Address = Every single computer has IP address. So when people send and receive files, each computer can be located and contacted using their unique IP address. Once DNS find IP address for google, it will send it back to our browser through the ISP over the internet.
* This means, we can now make a direct request to the google servers to get data we want
* There is this cable undersea (hundreds of fiber optic fibers). Using laser to transmit up to 400Gbps of data per second

# How Website Works?

* HTML = Content of the website (Bricks)
* CSS = Style (Colour)
* JS = Functionality (On and Off of a lightbulb)