

# DNS



The reason we don't memorize IP addresses for websites

## A Translator

DNS stands for Domain Name System. It can be compared to the phonebook of the internet. They exist to prevent the need of memorizing numbers for the thousands of pages one may browse. DNS is responsible for translating a URL into something a computer can read and vice versa. A user will type a domain name into the URL bar and the computer will reach out to the DNS servers and try to find an appropriate IPv4 address that corresponds to the website typed in plaintext. While IPv4 was not built to scale and is a factor in DNS translations, DNS is still designed for scalability. DNS will be able to handle future growth as we move onto IPv6 performing the same translations, but this time returning the proper IPv6 address associated with the websites.

## Onward

This page is created and brought to you by Sean Rogawski. Additional resources can be found in the following links.

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