

# PHP Course Overview

- Introduction to the Internet.
- Introduction to web development.
- Frontend basics:
  - HTML
  - CSS
- Frontend frameworks
  - Bootstrap
- Frontend Advanced
  - Javascript
  - jQuery
  - Ajax
- Building local environment (server)
- Working with terminal

# PHP Course Overview

- PHP Fundamentals
- Managing database
- SQL
- APIs
- Object oriented programming
- Design patterns
- Error handling
- Security
  - Encryption
  - Avoiding attacks
  - Authorization
- PHP libraries
- Capstone
- Going further (overview)
  - WordPress
  - Laravel

# Introduction

# Module Overview

- Why PHP?
- What is the Internet?
- The Internet vs. The Web
- How Does the Web Work and What are HTTP requests?
- What Is A Web Server?
- Frontend Vs Backend
- What are HTML, CSS, & JS?
- What do they each do?
- Get the right tools.



**Why this course?**

# PHP is easy to learn

```
<?php
$name = "Mike";
?>
<!DOCTYPE html>
<html>
  <head>
    <title>I love PHP!</title>
  </head>
  <body>
    <h1>Hello Mr. <?php echo $name; ?></h1>
  </body>
</html>
```



# Strong Community & Sources

Google

YouTube

Git Hub

php.net

StackOverFlow

geeksforgeeks.org

W3Schools

# Many Frameworks

Laravel

CakePHP

Symphony

Slim

Yii

CodeIgniter

Phalcon

FuelPHP

Zend Framework

PHPixie



# Many CMSs

WordPress

Drupal

Magento

Joomla

OpenCart

ExpressionEngine

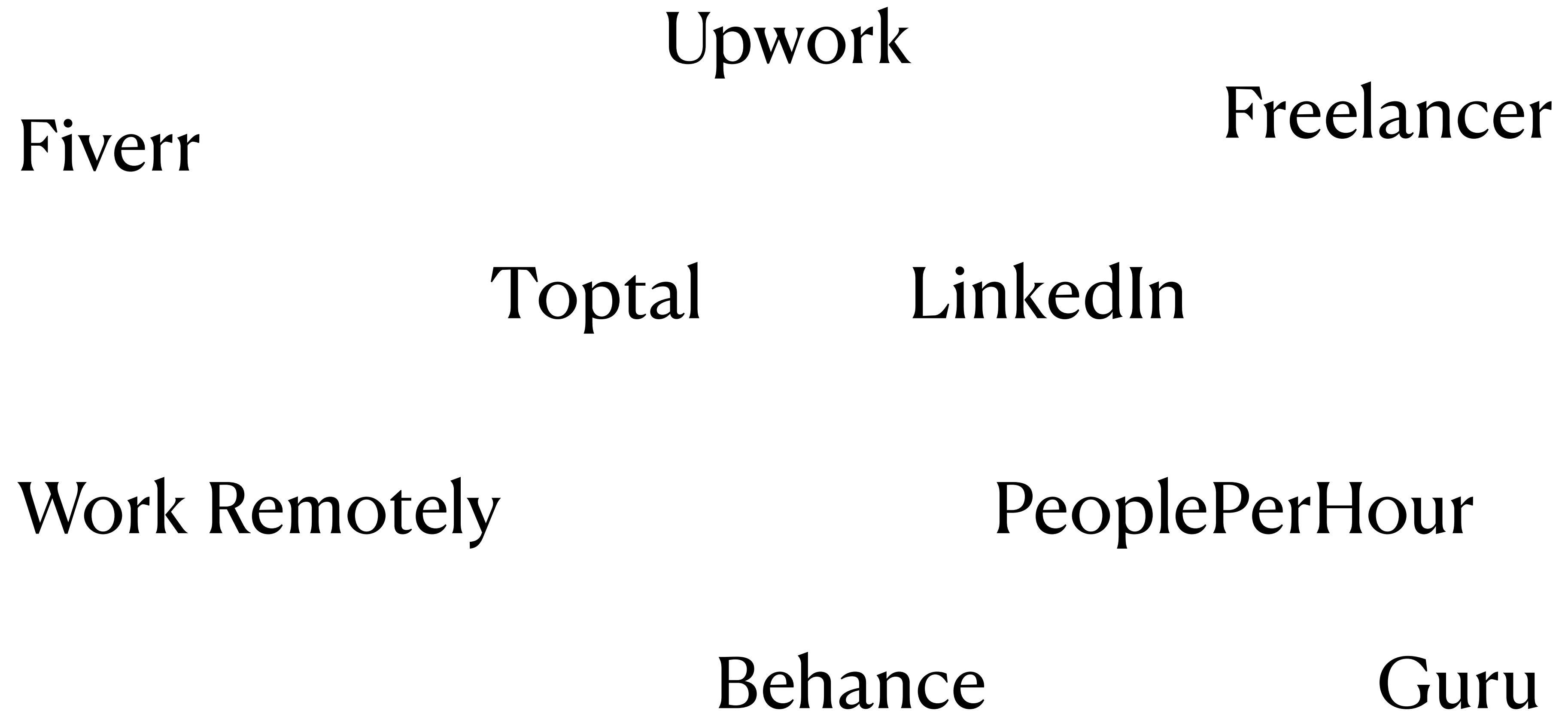
OctoberCMS

PyroCMS

TYPO3

Craft CMS

# Easy to start a business with

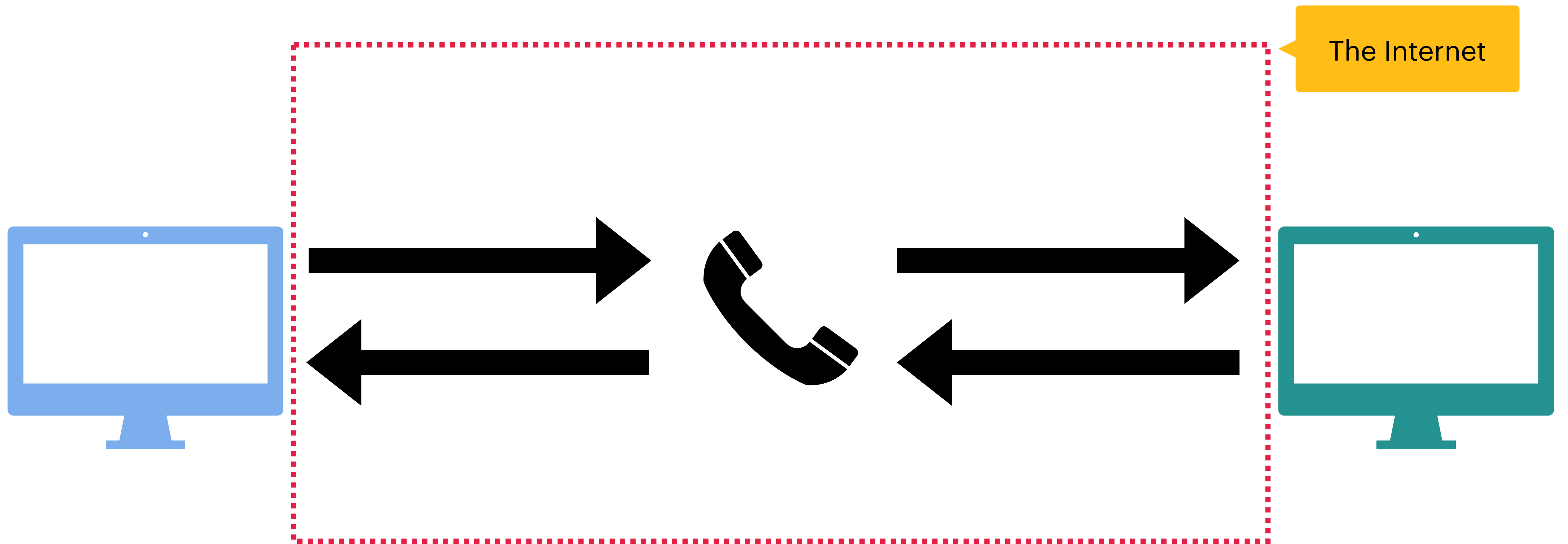




**What is the internet?**

# What is the internet?

- It's a very complicated topic.
- A global network of networks, a bunch of connected computers.
- <https://www.infrapedia.com/app>
- Computers connect to each other through many protocols such as IP, TCP and so on. The IP address is the cornerstone of internet connections.





**The Web!**

# The Web

- The World Wide Web
- It is an information system that makes documents and other resources available on the internet.
- Gopher, is one of the web alternatives

# Can I use the internet without using the web?

- Email (POP/IMAP protocols)
- Copy files remotely (FTP)
- Login into a remote server (SSH)
- File sharing
- Gaming



# Remember!

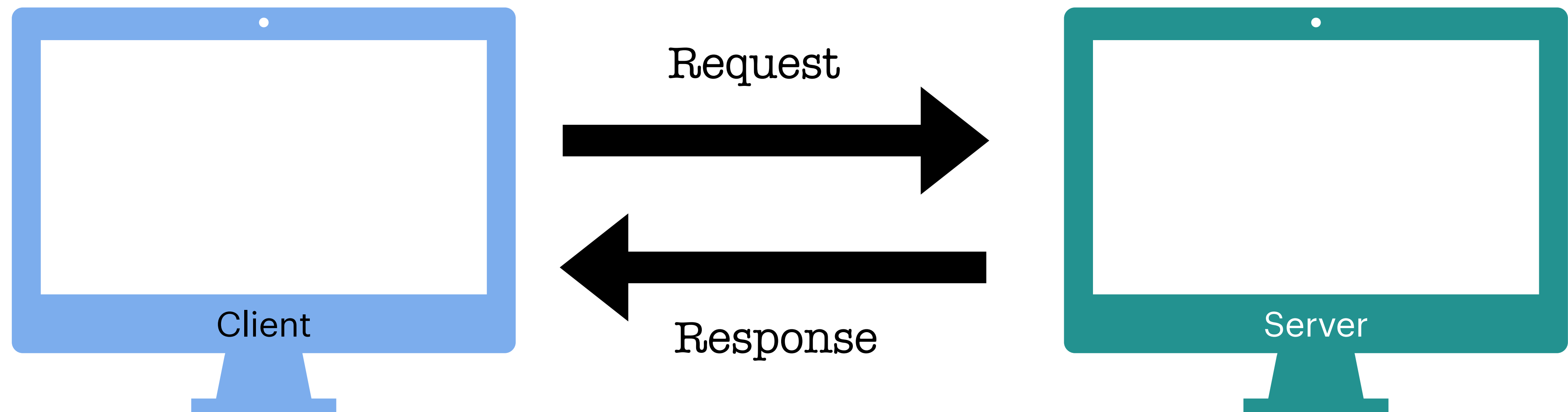
Whenever I use a Web browser, I am using the Web

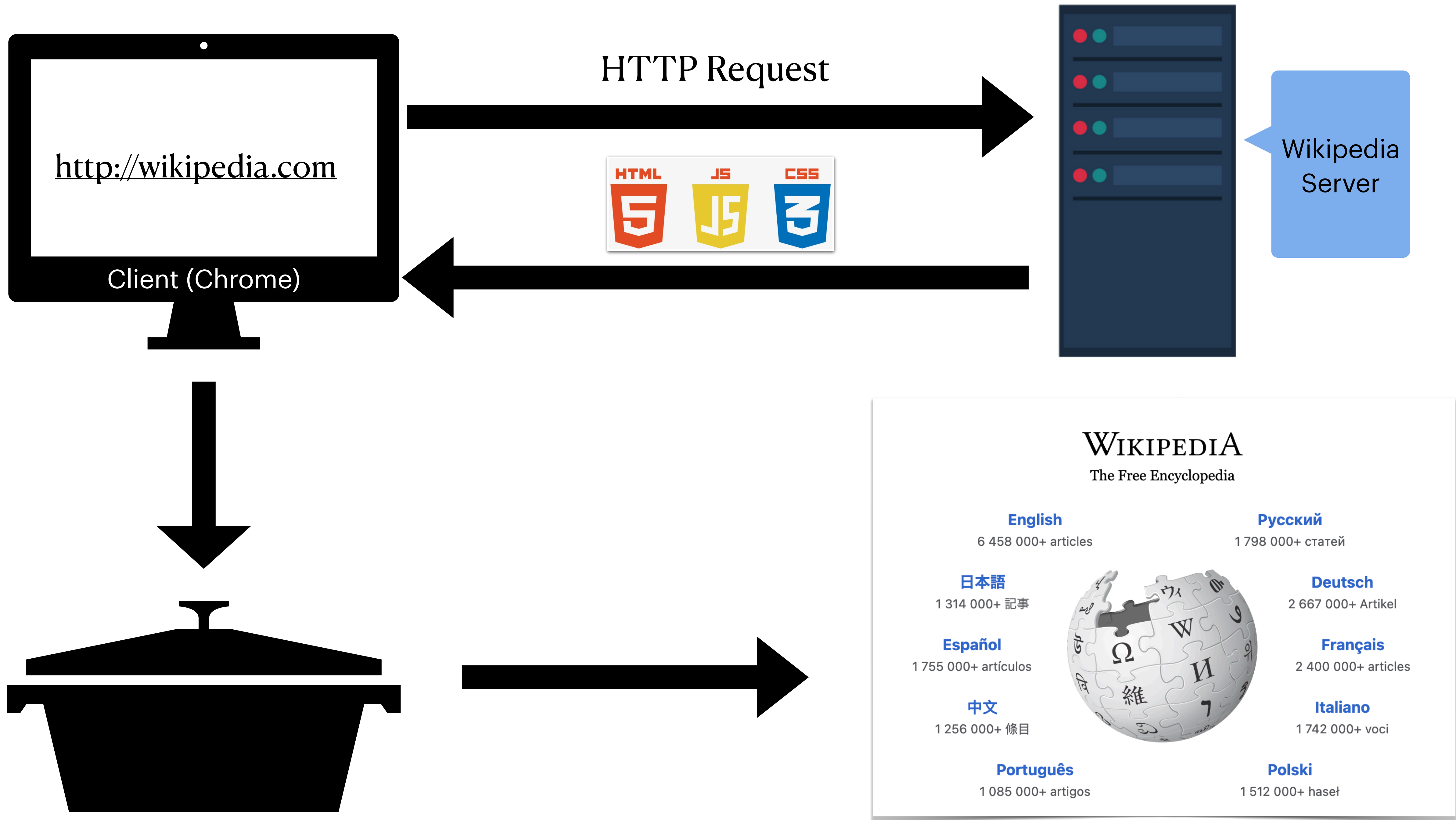
**How does it work!**  
**.. HTTP ..**

# How Does It Work?

- It all starts with 💪 **http://** 💪
- HTTP (Hyper Text Transfer Protocol) is the protocol which is responsible for transferring the documents through the web over the internet.

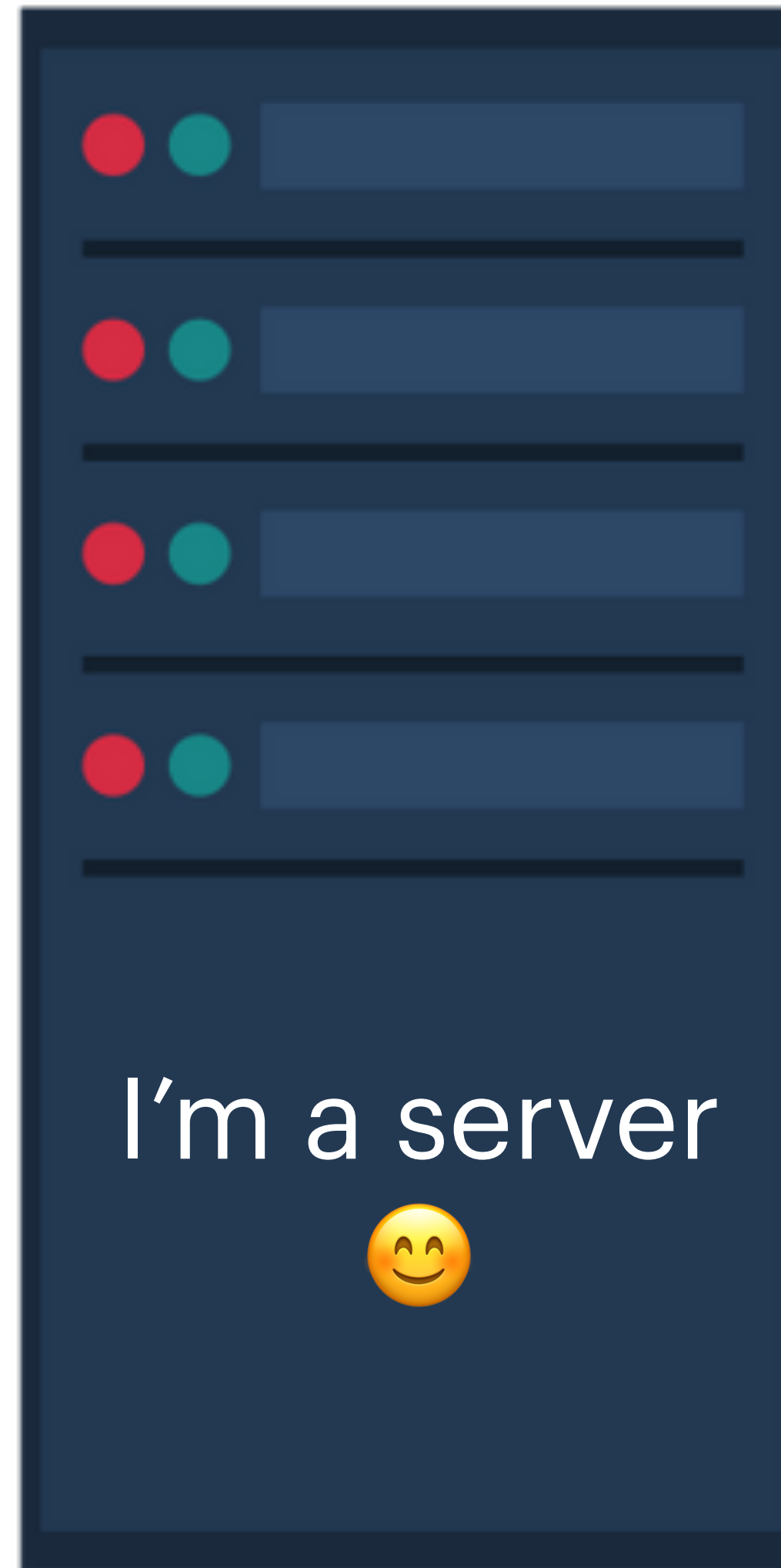
## HTTP Requests







**What is a web server?**



I'm a simple  
computer

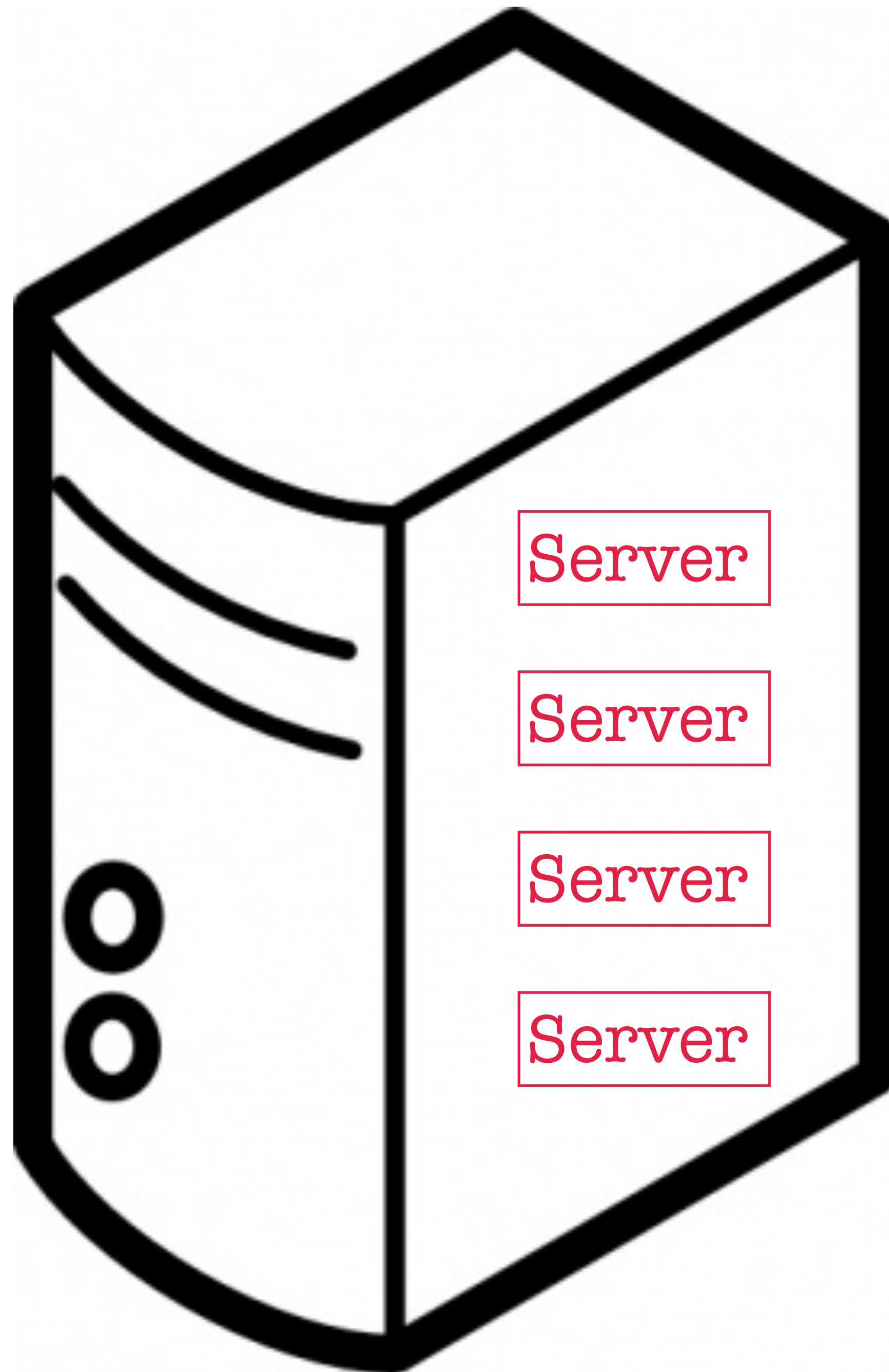
I have a CPU,  
RAM, &  
Storage

I run 24/7

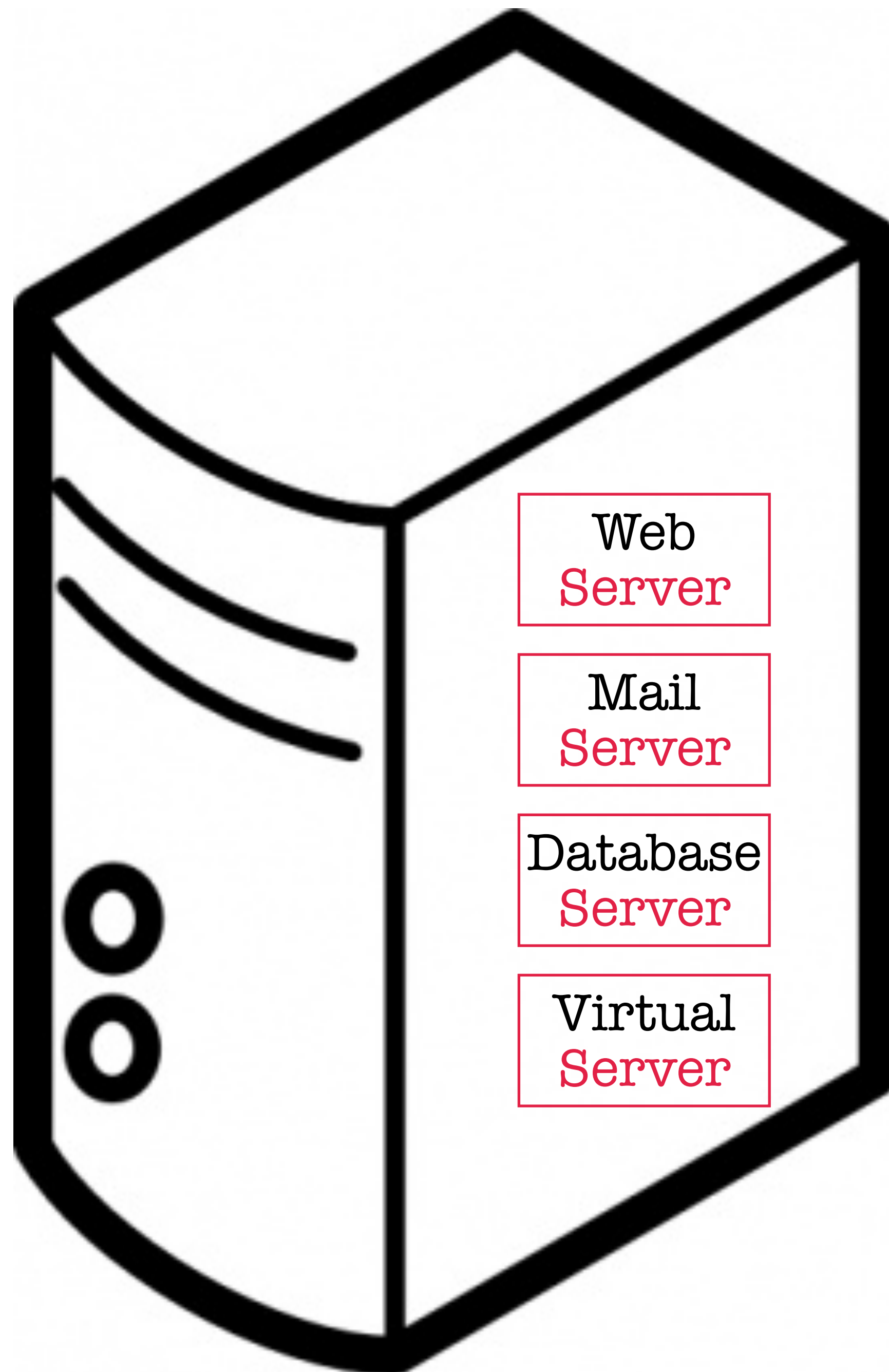
There are  
many types of  
me

**BTW**

Server is something different than **Server**







Web  
Server

Mail  
Server

Database  
Server

Virtual  
Server

# A Server

- **Web server**: a computer program that serves requested HTML pages or files. In this case, a web browser acts as the client.
- **Proxy server**: software that acts as an intermediary between an endpoint device, such as a computer, and another server from which a user or client is requesting a service.
- **Mail server**: an application that receives incoming emails from local users -- people within the same domain -- and remote senders and forwards outgoing emails for delivery.
- **Virtual server**: a program running on a shared server that is configured in such a way that it seems to each user that they have complete control of a server.
- **File server**: a computer responsible for the central storage and management of data files so that other computers on the same network can access them.
- **Policy server**: a security component of a policy-based network that provides authorization services and facilitates tracking and control of files.
- **Database server**: this server is responsible for hosting one or more databases. Client applications perform database queries that retrieve data from or write data to the database that is hosted on the server.

# **Frontend Vs Backend**

Front-end

Back-end

<http://wikipedia.com>

Client (Chrome)

HTTP Request

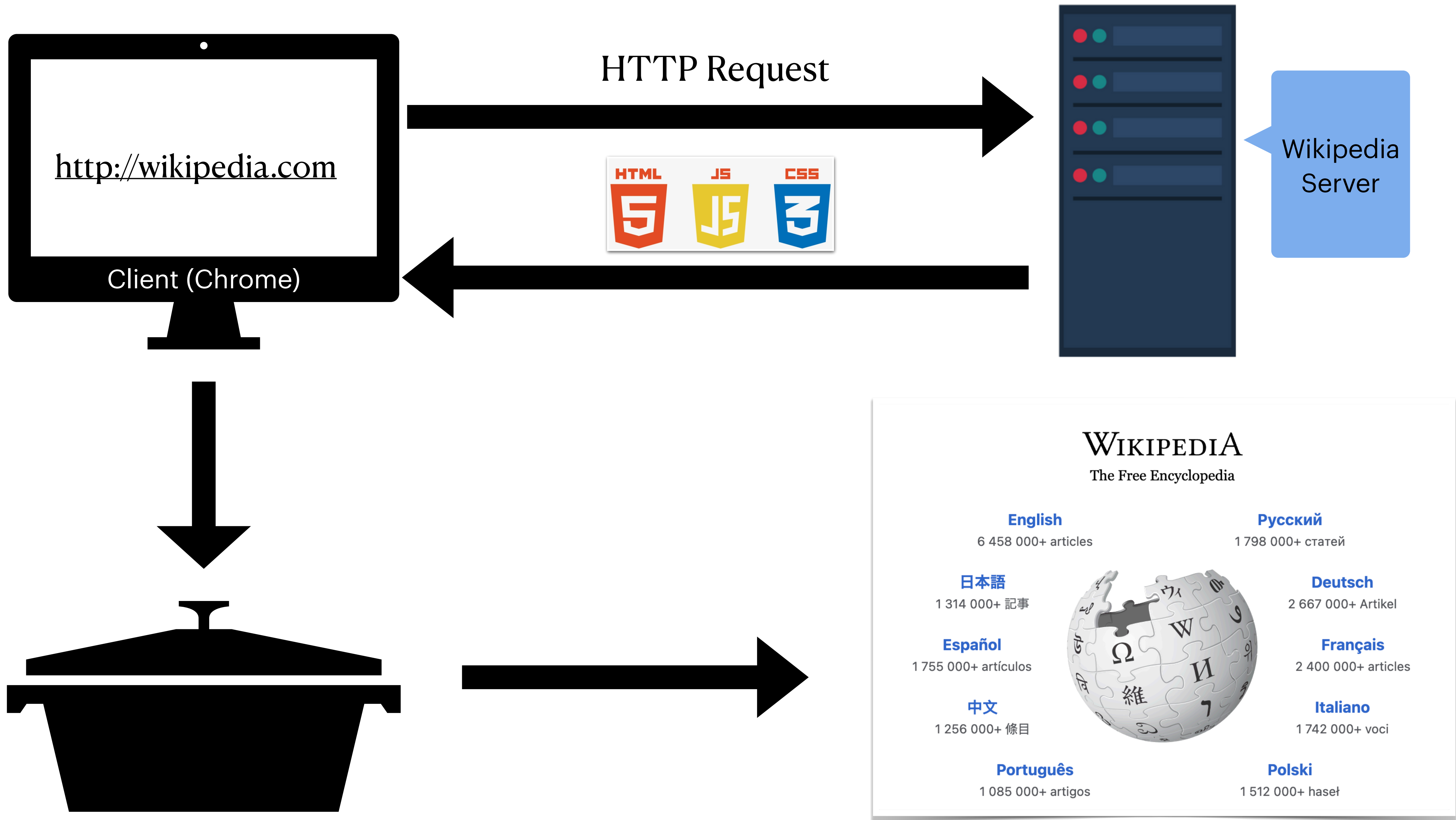


Web  
Server

Mail  
Server

Database  
Server

Virtual  
Server





# Some Terminologies

- Frontend Vs Backend environment
- Frontend Vs Backend development
- Frontend Vs Backend languages
- Client-side Vs Server-side languages

# HTML, CSS, & JS

**HTML**      HyperText Markup Language

**CSS**        Cascading Style Sheets

**JS**          JavaScript



**The**

**Gray**

**Cat**

**Danced**

Adjective

Noun

Verb

CSS

HTML

JS





**Let's Hack Google!**

# Tools



&

