

Installing PHP & MySQL



Why bother?

So far you've been creating great websites with HTML and CSS, but your users can't do anything more than passively read your website, the communication has only been one way. But you want more.

You want two way communication, you want content to save and load dynamically, you don't want to edit your content in HTML ever again, you want your website to have users, for those users to add content, and for the website to send out emails.

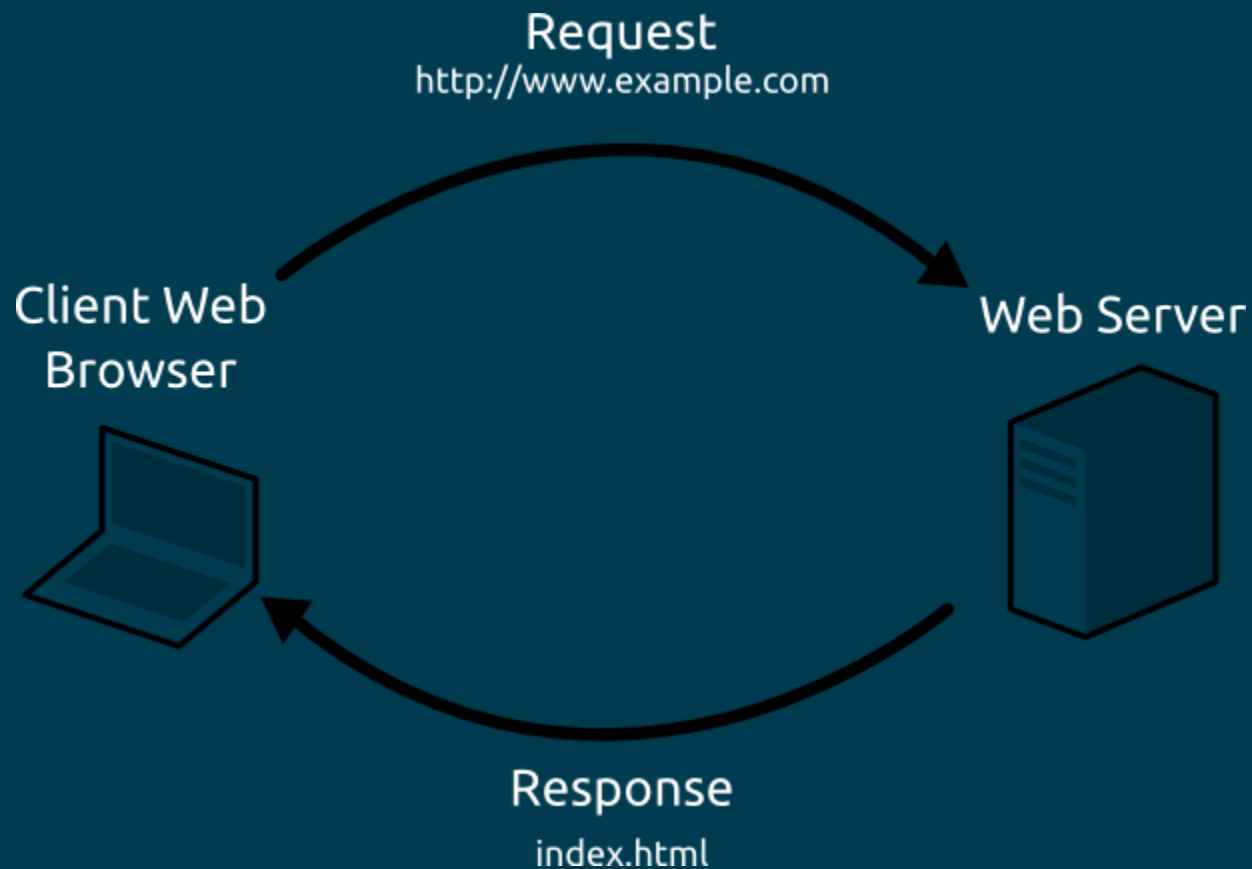
You want your website to come to life.

You want a dynamic website built with a server-side script and a database.

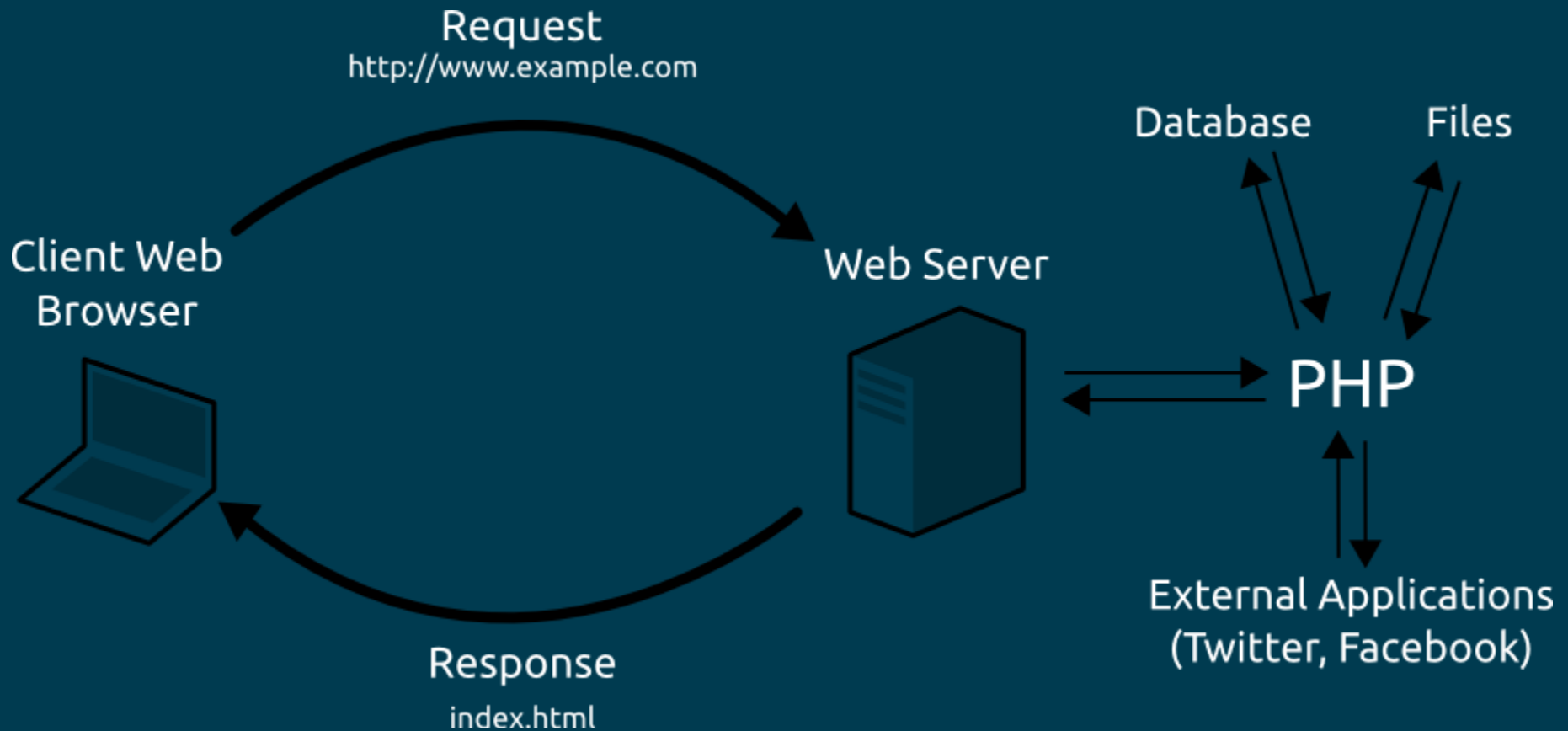
Why PHP?

- Most popular server-side language
- Open source
- Free!
- Easy to learn
- Great developer community

HTTP Model



HTTP Model + PHP



In a nutshell...

The server turns PHP code into HTML code.

Client & Server-Side Code

In web programming, code can exist in 2 places; client-side and server-side.

Client side-code is downloaded to the client (or user's) computer and is interpreted by the browser.

Client-side code: HTML, CSS, JavaScript

Server-side code exists on the server and is interpreted by software on the server.

Server-side code: PHP, SQL

What's A Server?

A server is a computer just like any other, except it has a special purpose. Its purpose is to be connected to a network (eg. the internet) and to serve content to anyone requesting it.

To make a computer a server, install server software onto it (eg. Apache) so it can handle requests, and keep it connected to a network at all times.

PHP on Mac

Mac comes with Apache and PHP already installed, but not MySQL.

Using Mac's built in software isn't great because you have to install MySQL yourself and upgrading everything can require a bit more work.

MAMP (Mac, Apache, MySQL, PHP)

We use MAMP to solve this for us.

It's a one-click install of everything we need.

Test That It Works

1. Create a file called 'index.php' and put it in:
/Applications/MAMP/htdocs
2. Put this line of code into it:
`<?php phpinfo(); ?>`
3. Visit 'localhost:8888' in your browser.

Configuration Files

PHP

`/Applications/MAMP/bin/php/php5.3.6/conf/php.ini`

Apache

`/Applications/MAMP/apache/httpd.conf`

Configure PHP

Error reporting is disabled because PHP is configured by default for production servers. Because we are on development servers we want to enable error reporting.

Enable the 'error_reporting' and 'display_errors' settings.

Now Break It

Break some PHP code to test that we get some errors.

Code Editors

- Free
 - Aptana
 - Eclipse
 - Netbeans
- Paid
 - Dreamweaver
 - TextMate
 - Coda
 - Espresso
 - Sublime Text 2
 - PHP Storm

Sites

- php.net
- w3schools.com/php
- phpmaster.com
- net.tutsplus.com

Recommended/Encouraged Reading

- Head First PHP & MySQL
- PHP Cookbook*
- Sams Teach Yourself SQL in 10 Minutes*

*Bookable in the library