

## Setting up the MAMP PHP/MySql Environment on a Macintosh

We will install the MAMP bundled PHP/MySql system. Installing the MAMP (or similar) bundle is much easier than installing all the components separately.

### Pre-Requisite: Atom, TextWrangler or some other Programming Editor

<https://atom.io/>

### Installing MAMP

There is a screen cast of this process below on YouTube. You can watch the screen cast and follow along to complete the tasks. There are notes below the YouTube video as well. You may want to print this page to have the notes as you follow the steps in the video.



### Installation Notes

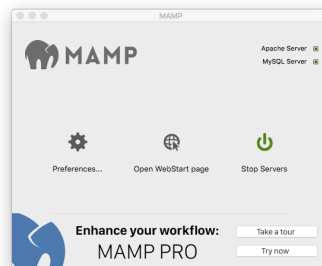
Download the installation package from:

<http://mamp.info>

It will download into your **Downloads** folder as a rather large ZIP file. Depending on your browser, it may auto-extract the ZIP into a file like **MAMP\_MAMP\_PRO\_4.1.pkg**. If your browser does not auto-extract ZIP files, click on the ZIP file to produce the PKG file. Click on the PKG file to perform the actual install. Make sure you are doing this on an administrator account. You probably will have to enter the password for the administrator account during installation.

Then Navigate into **/Applications/MAMP/MAMP** to start the control panel. The first time you start MAMP it might suggest you use MAMP Pro - you can ignore this.

To stop the nagging, **uncheck** the check box and click on **Launch MAMP** - that should stop the nagging for a while.



When MAMP starts you should see a control panel and it should start both the MySQL and Apache Servers automatically. It also generally opens the start page automatically as well. The control panel allows you to start and stop the servers and go the the start page. Once the control panel is working - you don't use it very much.

The start page is located at **<http://localhost:8888/MAMP/>** and it is generally the way you work with MAMP and MySQL.



## Your First PHP Program

Open a text editor (i.e. Atom) and put the following text in the file putting your own name in instead of mine:

```
<h1>Hello from Dr. Chuck's HTML Page</h1>
```

We will start simple and since PHP is simply an extension of HTML, our first program is just an HTML file.

Save this file as:

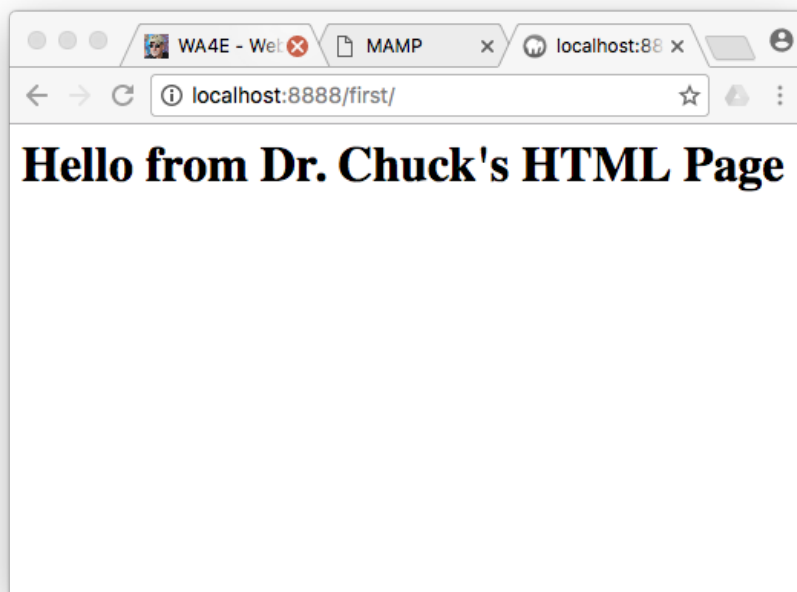
**`/Applications/MAMP/htdocs/first/index.php`**

Create the folder **first** under the **htdocs** folder when you save the file.

Once you have saved this file, navigate your browser to:

<http://localhost:8888/first/index.php>

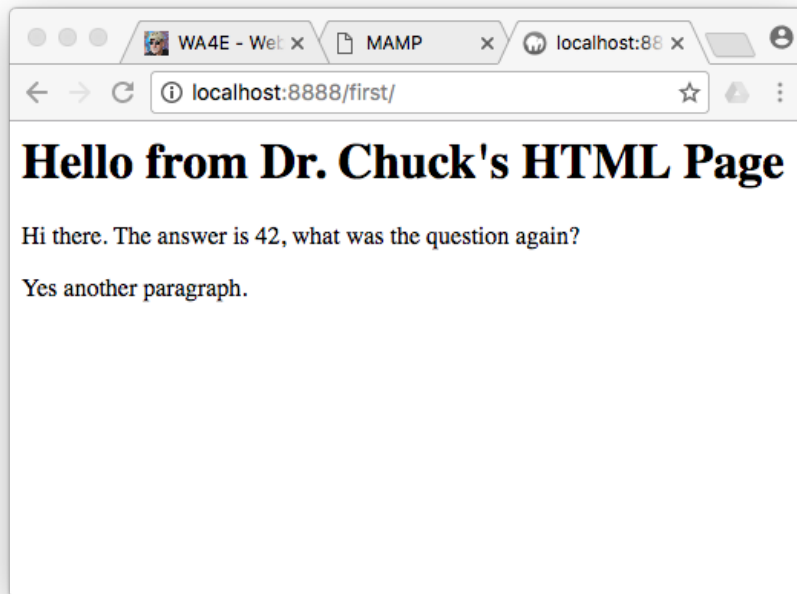
And you should see your web page in your browser.



Once that works, lets add a little PHP to our HTML. Change your file to be as follows and re-save:

```
<h1>Hello from Dr. Chuck's HTML Page</h1>
<p>
<?php
    echo "Hi there.\n";
    $answer = 6 * 7;
    echo "The answer is $answer, what was the question again?\n";
?>
</p>
<p>Yes another paragraph.</p>
```

After you save, press "Refresh" in your browser and it should appear as follows:



Congratulations, you have written your first PHP program.

## Displaying Syntax Errors

MAMP usually comes configured by default **not** to display errors when you make a mistake in your PHP code. This is an appropriate setting for production servers but very inconvenient when developing PHP code.

The solution is to find and edit the **php.ini** file that controls the XAMPP configuration, search for the setting **display\_errors** and set the value to **On** and then restart your Apache server.

On MAMP the php.ini file is located here:

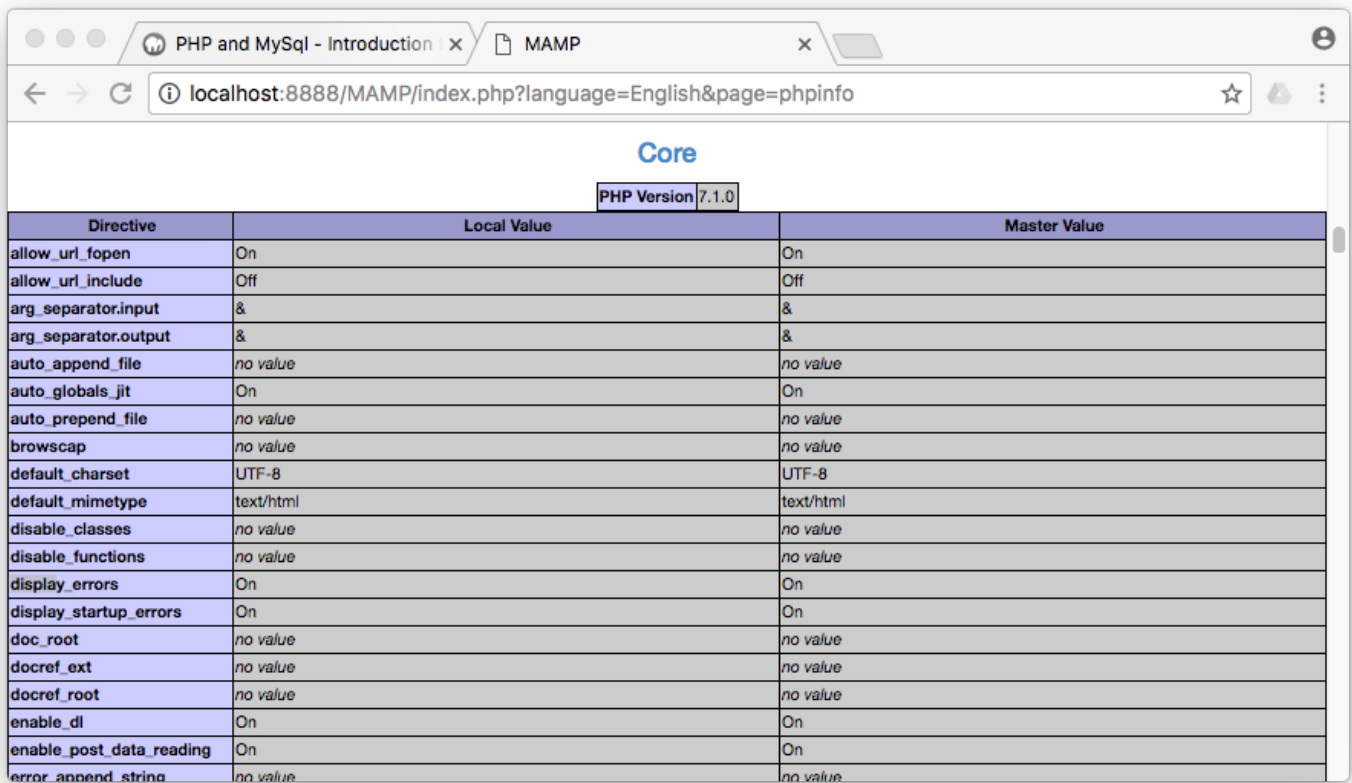
```
/Applications/MAMP/bin/php/php7.1.0/conf/php.ini
```

The "7.1.0" might be different on your system. You can always find where php.ini is by looking at your PHPInfo screen.

You should find and change the setting to be:

```
display_errors = On
```

Then you will need to stop and restart the Apache and MySQL servers using the MAMP, control panel and when you are done, you can use **phpinfo** check to make sure that your setting was successfully changed.



Directive	Local Value	Master Value
allow_url_fopen	On	On
allow_url_include	Off	Off
arg_separator.input	&	&
arg_separator.output	&	&
auto_append_file	no value	no value
auto_globals_jit	On	On
auto_prepend_file	no value	no value
browscap	no value	no value
default_charset	UTF-8	UTF-8
default_mimetype	text/html	text/html
disable_classes	no value	no value
disable_functions	no value	no value
display_errors	On	On
display_startup_errors	On	On
doc_root	no value	no value
docref_ext	no value	no value
docref_root	no value	no value
enable_dl	On	On
enable_post_data_reading	On	On
error_append_string	no value	no value

It is important that you change this setting right away or you will be rather confused when your PHP code fails and you never see any error message.