

http://www.lockergnome.com/wp-content/uploads/2011/11/web-design.jpeg

Lesson 2: Setting Up a Web Server

HTTP vs. HTML

- HTTP: hypertext transfer protocol
 - The rules governing the conversation between a web client and a web server
- HTML: hypertext markup language
 - Definitions of tags that are added to Web documents to control their appearance

An HTML Example

• The HTML document is divided into two major parts:

<html> <head> HEAD-<title>New Zealand Dollar Rates</title> </head> <body> BODY-<<Contents...>> </body> </html>

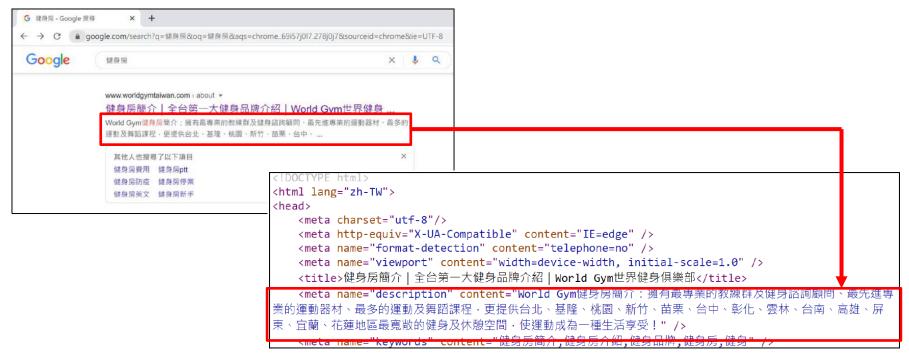
HTML Document Structure (1/4)

- HEAD- contains information about the document
 - Title of the page <title>NCKU, 國立成功大學...</title>
 - Appears at the top of the browser window



HTML Document Structure (2/4)

- HEAD- contains information about the document
 - Meta tags <meta>
 - used to describe the content (used by Search engines)



HTML Document Structure (3/4)

- HEAD- contains information about the document
 - JavaScript or Cascading Style Sheets (CSS)
 - JavaScript: adds some functionality, validates forms, communicates with the server ...
 - CSS: controls the style and layout of multiple web pages all at once

```
<!DOCTYPE html>
<html>
                                              My First CSS Example
<head>
<stvle>
body {
                                            This is a paragraph.
 background-color: lightblue;
 color: white;
 text-align: center;
 font-family: verdana;
  font-size: 20px;
</head>
<body>
<h1>My First CSS Example</h1>
This is a paragraph.
</body>
</html>
```

HTML Document Structure (4/4)

- BODY-Contains the actual content of the document
 - This is the part that will be displayed in the browser window



http://www.w3schools.com/html/tryit.asp?filename=tryhtml_intro

HTML Tags

- HTML tags almost appear pairwise
 - The start tag is often called the opening tag, and the end tag is called the closing tag
 - Example: <head> </head> & <body> </body>
- Standalone tags
 - There are a few HTML tags which do not use an end tag
 - ,
, <hr>...

Some Common HTML Tags

- <!-- -->: comments
-
: defines a single line break
- ...

```
Example:
```

This is some text!

This is some text!

...

```
Example:
```

成功大學成功大學

HTML tag list: https://www.w3schools.com/tags/default.asp

Developing Environment

- The common development environment is WAMP
 - Windows + Apache + MySQL + PHP
- Here are some good and open-source tools
 - Wampserver

http://www.wampserver.com/en/

- AppServ AppServ Open Project

https://www.appserv.org/en/

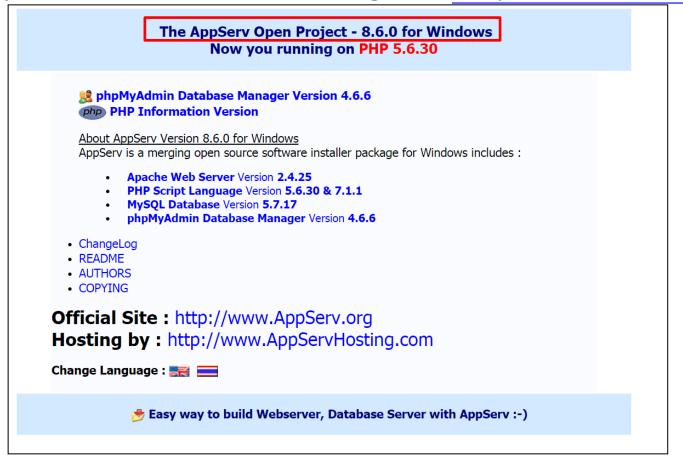
How to Install AppServ?



A good tutorial: https://sofree.cc/windows-appserv/

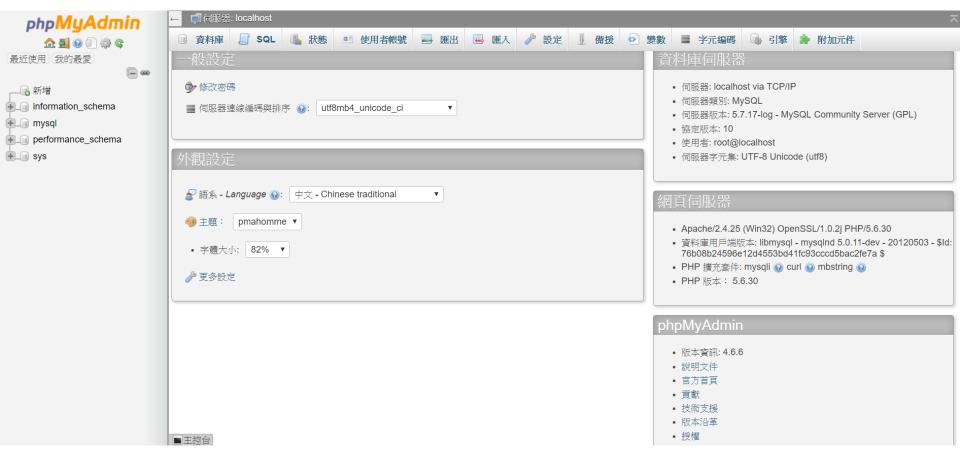
How to See If It Works?

Open a web browser and go to http://localhost



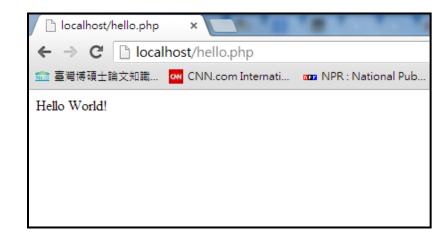
phpMyAdmin

You can handle MySQL with this management tool



Writing a First PHP Script

```
<?php
echo "Hello World!";
?>
```

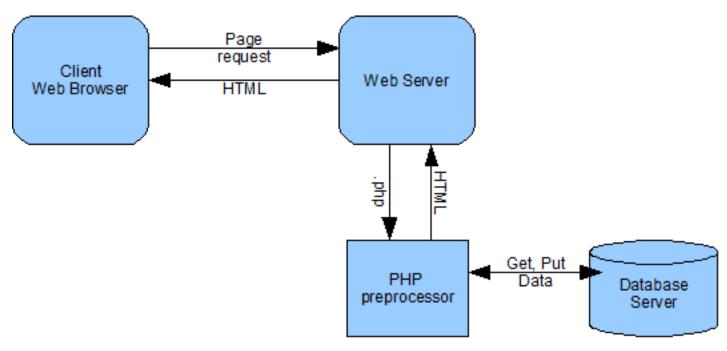


Step 1: Save as a php file named hello.php

Step 2: Put it in the C:\Appserv\www folder

Step 3: Go to http://localhost/hello.php to check if it works

How Does PHP Work?



http://www.classicpageworks.com/articles/images/PHP_Client_Server_Messaging.gif

