Professional Diploma in Commercial Web Design

Lesson 1

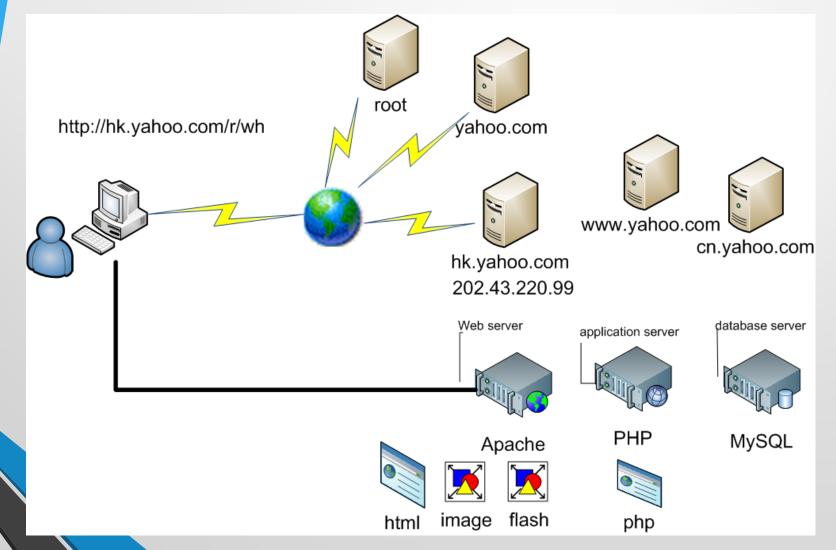
PHP

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Overview

- What is PHP
- History
- Who is using PHP
- Platform
- What is PHP for
- Why do we use PHP
- Strengths

LAMP



1XX In	formational	4XX C	lient Error Continued
100	Continue	409	Conflict
101	Switching Protocols	410	Gone
102	Processing	411	Length Required
2XX S	uccess	412	Precondition Failed
200	ок	413	Payload Too Large
201	Created	414	Request-URI Too Long
202	Accepted	415	Unsupported Media Type
203	Non-authoritative Information	416	Requested Range Not Satisfiable
204	No Content	417	Expectation Failed
205	Reset Content	418	I'm a teapot
206	Mary Mary Control of Control	421	Misdirected Request
	Partial Content	422	Unprocessable Entity
207	Multi-Status	423	Locked
208	Already Reported	424	Failed Dependency
226	IM Used	426	Upgrade Required
BXX R	edirectional	428	Precondition Required
300	Multiple Choices	429	Too Many Requests
301	Moved Permanently	431	Request Header Fields Too Large
302	Found	444	Connection Closed Without Respo
303	See Other	451	Unavailable For Legal Reasons
304	Not Modified	499	Client Closed Request
305	Use Proxy	200000	onuar Error

Response

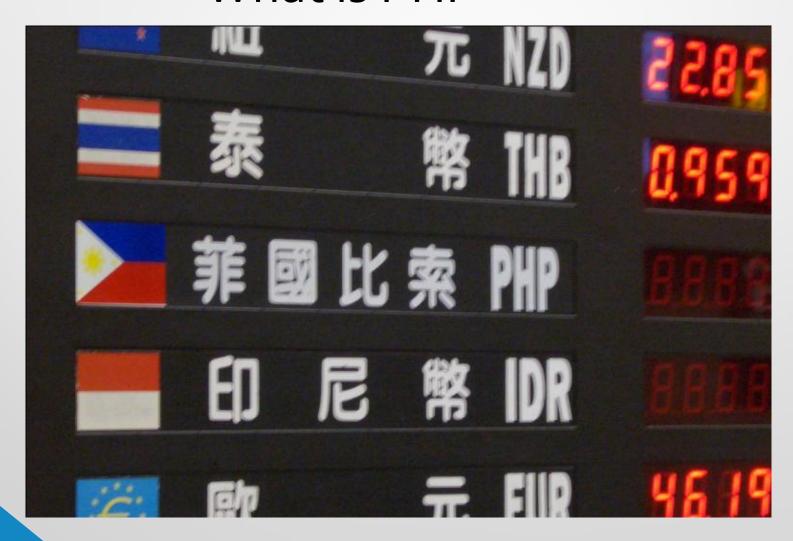
3XX Redirectional		428	Precondition Required
300	Multiple Choices	429	Too Many Requests
301	Moved Permanently	431	Request Header Fields Too Large
302	Found	444	Connection Closed Without Response
303	See Other	451	Unavailable For Legal Reasons
304	Not Modified	499	Client Closed Request
305	Use Proxy	5XX Server Error	
307	Temporary Redirect		
308	Permanent Redirect	500 Internal Server Error 501 Not Implemented	
4XX Client Error		502	Bad Gateway
400	Bad Request	503	Service Unavailable
401	Unauthorized	504	Gateway Timeout
402	Payment Required	505	HTTP Version Not Supported
403	Forbidden	506	Variant Also Negotiates
404	Not Found	507	Insufficient Storage
405	Method Not Allowed	508	Loop Detected
406	Not Acceptable	510	Not Extended
407	Proxy Authentication Required	511	Network Authentication Required
408	Request Timeout	599	Network Connect Timeout Error

HTTP STATUS CODES

When a browser requests a service from a web server, an error may occur.

This is a list of HTTP status messages that might be returned.

What is PHP



What is PHP

- Widely-used general-purpose scripting language that is especially suited for Web development and can be embedded into HTML.
- A server side scripting language designed for creating dynamic web pages
- Written in C
- Open Source and Freeware
- Official Name: PHP: Hypertext Preprocessor
- Stand for Personal Home Page

History

- Conceived in 1994 by Rasmus Lerdorf for simple set of Perl scripts for tracking accesses to his online resume
- Personal Home Page / Forms Interpreter 2.0 in 1997
- PHP Hypertext Preprocessor 3.0 in 1998
- Rewrite the core engine for PHP 4.0
- PHP 5.6 then 7.0. No PHP 6.0
- Newest version is PHP 7.x now

What's new in PHP5

- Real Object-oriented programming (OO)
- Exceptions procedures that happen when something goes wrong with unexpected error.
- Try/Catch/Throw
- Namespace
- Improved MySQL Extension

What's new in PHP6

The project closed down because of the bad performance.

What's new in PHP7

- Up to 100% faster without rewrite PHP
- Constructors with name same as class
- Change in password_hash() function
- Calling static methods
- https://codingsec.net/2016/05/php-cheatsheet-upgradephp7-5/

Who is using PHP

- Yahoo! 3.5 billion/day
- Flickr, Facebook, Friendster, Second life, Hong Kong Art Festival
- Magento, WordPress, Joomla, Drupal, Discus
- www.php.net/usage.php
- https://www.google.com.hk/trends/explore#q=php
- http://trends.builtwith.com/framework/PHP

Who is using Zend



Zend's premier web development partner scales with Zend Performance Suite



| Scales | using the | Zend Performance | Suite



Scales
using the
Zend Performance
Suite



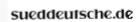
Develops using the Zend Studio



Develop & Scales with Zend



Protects using the Zend Encoder



Scales using the Zend Performance Suite



Develops using the Zend Studio



| Scales | using the | Zend Performanc | Suite



Develops using the Zend Studio



Scales
using the
Zend Performance
Suite



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Protects
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Zend Encoder



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Protects
using the
Zend Encoder



Develops using the Zend Studio



Scales
using the
Zend Performance
Suite



Develops using the Zend Studio



Develop, Protect & Scales with Zend

Platform

- Compatible for Linux, Mac OS X and Windows
- Android
- Best work with Apache, Ngnix
- Also work on IIS

Using PHP for

- User authentication and personalization
- Shopping carts
- Content management systems
- Web-based email
- Mailing list managers
- Web forums
- Document generation

Why do we use PHP

- Similar to html
- Script no need to compile
- Using programming syntax

Strengths

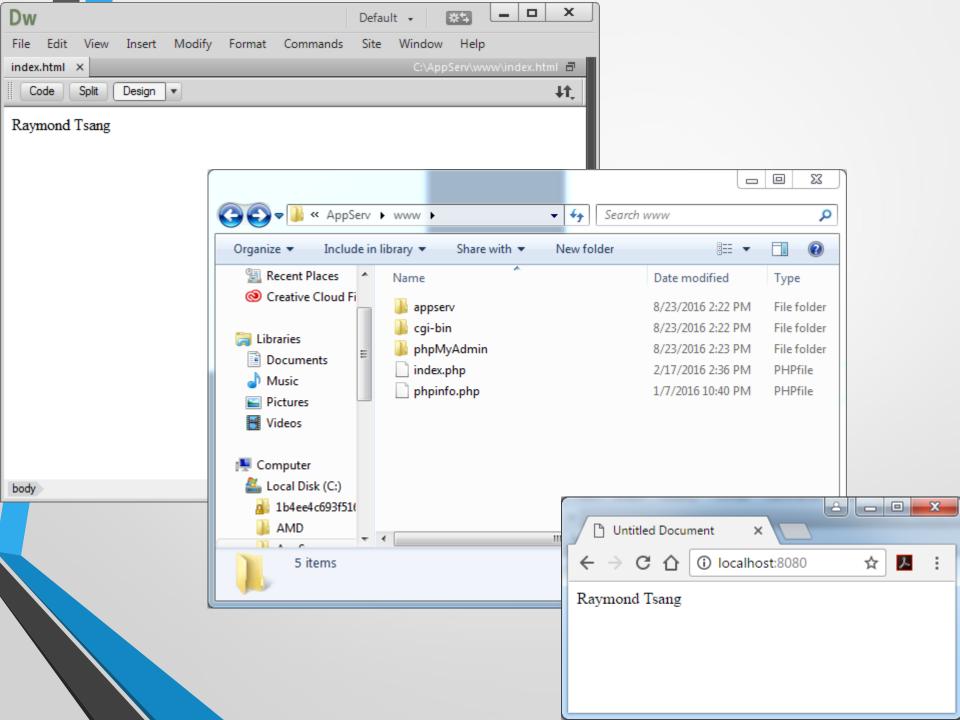
- High performance
- Interfaces to many different database systems
- Built-in libraries for many common web tasks
- Many free out-of-the-box system ready to use
- Low cost
- Ease of learning and use
- Portability

Overview

- How to upload
- phpinfo();
- echo
- Function
- Variables
- Operands
- pre- & post-increment

First html

- Open Dreamweaver -> New Document -> HTML
- Type your name
- Save it to C:\AppServ\www
- Save as index.html
- http://localhost:8o8o/index.html



First PHP page

- Dreamweaver -> File -> new -> Dynamic page -> PHP
- <?php
- phpinfo();
- ?>

phpinfo.php

phpinfo();

- Outputs information about PHP's configuration
- Commonly used to check configuration settings
- Usually used for testing the PHP engine on the web server

PHP style

- <? phpinfo(); ?> short style
- <?php phpinfo(); ?> XML style
- <script Language='php'> phpinfo(); </script> script style
- <% phpinfo(); %> ASP style

Statements

- Tell the PHP interpreter what to do
- Ends with a semicolon
- Without a semicolon, you will see an error page indicating the line with an error

White space

- White space include new line, spaces, tabs
- Browsers ignore white spaces in both html and PHP
- Encourage to use white space for readability usually one statement per line

Comments

- Notes for reading the code
- Usually used to explain the purpose of the script, when it was last modified
- /* Author:Ray */ multiline comment
- // Author:Ray single line comment (programming style)
- # Author:Ray single line comment (shell style)

Echo

- Outputs all parameters
- echo "Hello, this is my first php page";
- echo.php

Print

- Similar to echo, it also outputs all parameters.
- Print returns a value of 1 and has precedence so that it can be used in the middle of a longer expression. However, the need for this is rare, and the fact that is returns a value makes it ever so slightly slower than echo. So we use echo.
- Using with <<<, it prints all html
- print.php

html in PHP

- Nothing to change for the html code
- Encapsulate PHP code before and after html code
- echo "Hello
;

Classwork

- Open a new php file and save as "birthday.php"
- Echo your name in PHP
- Browse http://localhost:8o8o/birthday.php

Install PHP + MySQL

- Download XAMPP from http://www.xampp.org
- Install to c:\
- Open XAMPP Control Panel, start Apache, MySQL
- Test Apache http://localhost
- Test PHP. Save your php files under c:\xampp\htdocs\
- Test your web page: http://localhost/filename.php

Functions

- echo date("H:i, jS F");
- echo date("I dS \of FY h:i:s A");
- Case sensitive
- date.php
- gmdate('H:i:s', time()+8*3600);
- date_default_timezone_set('Asia/Hong_Kong');
- http://hk2.php.net/manual/en/function.date.php

Classwork

- Open birthday.php
- Echo your birthday as YYYYMMDD format.
- EG. (31-Jan-1990) echo "19900911";
- Echo today date as YYYYMMDD format
- EG. echo date("xxx");

Functions

- Find an integer of a decimal number
- echo round(3.4);
- echo round(3.5);
- echo floor(3.4);
- echo floor(3.5);
- roundFloor.php
- Q: How to find the next integer value?

Variable I

- Each variable start with a dollar sign (\$)
- PHP is case sensitive \$car<>\$Car
- Hello.php

Variable II

- "\" is used for special command or character
- "\n" is next line in email, same as
 in html
- "\r" = carriage return
- "\t" = tab
- "\\$" is printing the \$ sign
- "\\" is printing the \ sign
- "\"" = ?

Variable III

- Examples of valid variables names are: \$total, \$_cell1,
 \$length_of_string
- Examples of invalid variables names are: \$1_total,
 \$2_length, \$!total
- \$oneTwoThreeFour
- \$thisIsVariable

Variable Types

- Integer whole number, "1"
- Double real number, "1.00"
- Character "A", "B" .. "z"
- String strings of characters, "Hello"
- Boolean true or false, 1 or o
- Array multiple data types items, "scar[I]", array.php
- Object instances of classes, "scar->tire=good"

Classwork

- Open birthday.php
- Store your name in variable \$name
- Store your birth year in \$birthday
- Store today date in \$today
- Echo the value in the variables so people can see your name and date of birth in the web page.

Operands I

- +, -, *, /, %
- \$a=7; \$b=3;
- \$sum=\$a+\$b;
- \$difference=\$a-\$b;
- sproduct=sa*sb;
- \$quotient=\$a/\$b;
- \$mod=\$a%\$b;
- operand.php

Errors

- Errors will be shown in the page with line number
- Ctrl+G to go the line

Debug

- Ctrl+backspace Delete a word on the left
- Ctrl+Delete Delete a word on the right

Exercise

- Find out your age
- Age = this year your birth year
- Use date function to find out this year in the format (yyyy). EG. 2017
- Calculate your age.
- Display your age.

More Exercise

- Open birthday.php
- Find your age by \$age=\$today-\$birthday
- How to remove the last four digit?
- How to cut off the decimal places?

20170131 -20001231 168900

Best hosting server

http://www.zaturday.com

Sites (eng)

- http://www.php.net
- http://www.phpbuilder.com
- http://www.phpfreaks.com/
- http://phpnuke.org
- http://www.phpbuddy.com
- http://www.php-security.org/

Sites (eng) 2

- http://www.devshed.com
- http://px.sklar.com/
- http://www.phpgroupware.org
- http://www.phpclasses.org

Sites (eng) 3

- https://github.com/ziadoz/awesome-php
- http://www.phptherightway.com/
- https://packagist.org/

Sites (中文)

http://www.phpini.com/

Download Server

- http://www.apache.org/
- http://www.php.net
- http://www.mysql.com/
- http://www.phpmyadmin.com
- http://www.appservnetwork.com/
- http://www.apachefriends.org
- http://www.xampp.org

Facebook

- www.facebook.com/groups/teachonetofish/
- www.facebook.com/teachonetofish/

QUESTIONS