

Introduction to PHP



Contents - the basics

- Introduction to PHP
- All about Variables
- Fun with Conditional Logic
- Showing off with HTML Forms
- Magic of Loops
- Working with Arrays

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- String Manipulation
- Your own Functions
- Security Issues
- Reading and writing files
- Playing with Date and Time
- PHP and MySQL

Contents - the hands-on

- Working with a MySQL Database
- Encryption in PHP
- Building the poll application
- Object Oriented PHP
- OOPing the poll application
- Say Hello to Laravel

Introduction to PHP



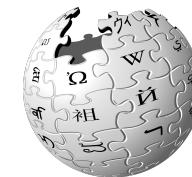


What is PHP?

- Most popular scripting language on the web servers
- Do things like login pages, create forums, surveys, applications
- Server-sided language
- PHP stands for is "Hypertext Pre-processor"
- v7.0



Popular things built on PHP



YAHOO!

source
forge®



Setting up your system

- Installing and Testing XAMPP server
- <https://www.apachefriends.org/xampp-files/7.0.30/xampp-win32-7.0.30-0-VC14-installer.exe>



hello world in php

```
<html>
  <body>
    <?php
      echo 'Hello world from Pradeep through PHP!';
    ?>
  </body>
</html>
```


All about variables





What is a variable?

- A variable is a storage area.
- Variable in php start with a \$ sign

```
<?php  
$itemCount = 35;  
?>
```



Understanding variables

- You count how many coats you have, and then give these to the man.
- You count how many shoes you have, and give these to the woman

```
<?php  
$mrCoats = 10;  
$mrsShoes = 25;  
  
$totalItems = $mrCoats + $mrsShoes;  
print $totalItems;  
?>
```



Putting text into variables

- You can store text by surrounding it in “ ” or ‘ ’

```
<?php  
$coats1 = "Winter Coats";  
?>
```



See it in action

- “ ” vs ‘ ’ in string variables
 - ‘ ’ are not parsed and “ ” are parsed
- variable of variables
 - \$\$variables

```
<?php  
$a = 'hello';  
$$a = 'world'  
echo $hello;  
?>
```



Combining text and variables

- . acts as concatenation operator

```
<?php  
$first_number = 10;  
print ('My variable contains the value of ' . $first_number);  
?>
```

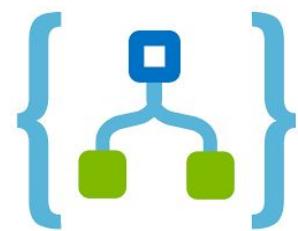


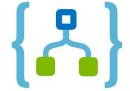
BODMAS in php

```
<?php  
  
$a = 1;  
$b = 2;  
$c = 3;  
$d = 4;  
  
print $a/$b+$c*($d+$d);  
  
?>
```


!Completed Notes!

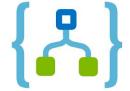
Conditional Logic





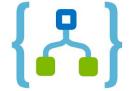
If Statements

- Design patterns – why and how
- Course – 3 sections
- Design patterns – examples, plain words, wiki, code, UML
- Have queries? – ask on forum or message me



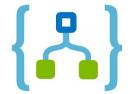
Using If Statements

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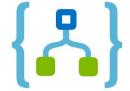
If ... else

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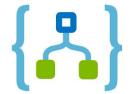
If ... else ... if

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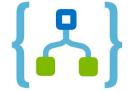
Comparison Operators

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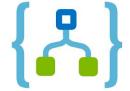
NOT Equal To

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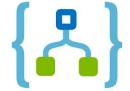
<, >, <=, >=

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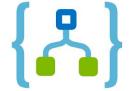
The switch statement

- Design patterns – why and how
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Logical Operators

- Design patterns – why and how
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Boolean Values

- Design patterns – why and how
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Showing off with HTML





The HTML Form

- Design patterns – why and how
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The Method Attribute

- Design patterns – why and how
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The Post Attribute

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The Action Attribute

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The Submit button

- Design patterns – why and how
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Getting values from a Text Box

- Design patterns – why and how
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Check for Submit button clicks

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More on the ACTION attribute



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Keep the data user entered

- Design patterns – why and how
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PHP and Radio Buttons

- Design patterns – why and how
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PHP and Checkboxes

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Magic of loops





For loops

- Design patterns – why and how
- Course – 3 sections
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Writing table of 2

- Design patterns – why and how
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While loop

- Design patterns – why and how
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do While loop

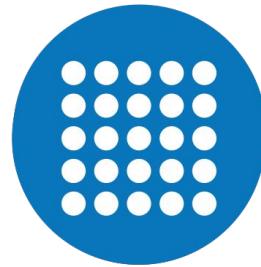
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break and continue

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Working with Arrays





What is an Array?

- Design patterns – why and how
- Course – 3 sections
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Setting up Arrays

- Design patterns – why and how
- Course – 3 sections
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Storing values in Arrays

- Design patterns – why and how
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Arrays - using text as keys

- Design patterns – why and how
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Arrays and foreach

- Design patterns – why and how
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Some examples

- Design patterns – why and how
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String Manipulation

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Changing case

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Trimming white space

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Shuffle characters

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- Design patterns – why and how
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Finding positions of string

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PHP and escaping

- Design patterns – why and how
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String functions

- Design patterns – why and how
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Your own Functions





Introduction to functions

- Design patterns – why and how
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Variable scopes and functions

- Design patterns – why and how
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Arguments of function

- Design patterns – why and how
- Course – 3 sections
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Returning values from functions



- Design patterns – why and how
- Course – 3 sections
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By Ref, By Val

- Design patterns – why and how
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PHP Server Variables

- Design patterns – why and how
- Course – 3 sections
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Security Issues





Form Elements

- Design patterns – why and how
- Course – 3 sections
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htmlspecialchars()

- Design patterns – why and how
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strip_tags()

- Design patterns – why and how
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Reading and writing files





Working With Files In PHP

- Design patterns – why and how
- Course – 3 sections
- Design patterns – examples, plain words, wiki, code, UML
- Have queries? – ask on forum or message me

Opening a file with readfile()



- Design patterns – why and how
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Opening a file with fopen()



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Options for fopen()



- Design patterns – why and how
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Writing to files

- Design patterns – why and how
- Course – 3 sections
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Working with CSV files

- Design patterns – why and how
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- Have queries? – ask on forum or message me

Reading a text file into an array



- Design patterns – why and how
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File Locations

- Design patterns – why and how
- Course – 3 sections
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Playing with Date and Time



date() function

- Design patterns – why and how
- Course – 3 sections
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getdate() Function

- Design patterns – why and how
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PHP and MySQL





PHP and MySQL

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- Have queries? – ask on forum or message me



Create a database

- Design patterns – why and how
- Course – 3 sections
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- Have queries? – ask on forum or message me



Setting up fields in tables

- Design patterns – why and how
- Course – 3 sections
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- Have queries? – ask on forum or message me



Add records to a MySQL Table

- Design patterns – why and how
- Course – 3 sections
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Working with a database



MySQL databases and PHP code



- Design patterns – why and how
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Adding records to a MySQL DB



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Read records from a MySQL DB



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Import & Export Database



- Design patterns – why and how
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PHP Prepared Statements

- Design patterns – why and how
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Insert, Update, Delete



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Encryption in PHP





Encrypting Passwords

- Design patterns – why and how
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Building the poll application



PHP Survey App - the database



- Design patterns – why and how
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How the PHP Survey works



- Design patterns – why and how
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Setting a question for the Survey

- Design patterns – why and how
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The Code for the Survey

- Design patterns – why and how
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Viewing the Survey results

- Design patterns – why and how
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Adding a new Survey question



- Design patterns – why and how
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Object Oriented PHP



{OOP}

The HTML Form

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OOPing the poll application

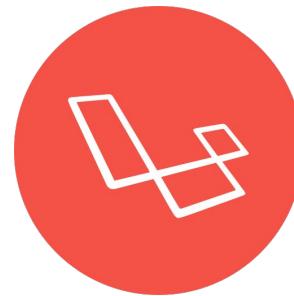




The HTML Form

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Intro to Laravel





What is a framework

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