

PHP (P)

1. Introduction to PHP

- Learn how PHP works
- Learn the basic syntax of PHP
- Learn to create dynamic interactive pages with PHP
- Learn to manipulate files with PHP
- Learn to work with arrays in PHP
- Learn to validate forms with PHP
- Learn to write functions in PHP
- Learn to manipulate and manage database data with PHP
- Learn to authenticate users with PHP
- Learn to manage sessions with PHP
- Learn to work with the PEAR:DB module
- Learn advanced form validation with regular expressions
- Learn to send email with PHP
- PHP Tags
- PHP Statements and Whitespace
- Comments
- PHP Functions
- Hello World!

2. Variables

- Variable Types
- Variable Names (Identifiers)
- Type Strength
- Hello Variables!
- Variable Scope
- Superglobals

- Constants
- Variable-Testing and Manipulation Functions
- First PHP Script
- PHP Operators
- Creating Dynamic Pages
- Single Quotes vs. Double Quotes
- Passing Variables on the URL
- Passing Variables via the Query String

3. Flow Control

- Conditional Processing
- If Conditions
- Working with Conditions
- Loops
- while
- do...while
- for
- break and continue
- Working with Loops

4. Arrays

- Enumerated Arrays
- Initializing Arrays
- Appending to an Array
- Reading from Arrays
- Looping through Arrays
- Working with Enumerated Arrays
- Associative Arrays
- Initializing Associative Arrays

- Reading from Associative Arrays
- Looping through Associative Arrays 4. Superglobal Arrays
- Working with Associative Arrays
- Two-dimensional Arrays
- Reading from Two-dimensional Arrays
- Looping through Two-dimensional Arrays
- Array Manipulation Functions

5. PHP and HTML Forms

- HTML Forms
- How HTML Forms Work
- A Sample HTML Form
- Form Variables
- Processing Form Input

6. String Manipulation

- Formatting Strings
- Concatenation
- String Manipulation Functions
- Examples of String Functions
- Working with String Manipulation Functions
- Magic Quotes
- `magic_quotes_gpc`
- `magic_quotes_runtime`
- Recommendation on Magic Quotes

7. Reusing Code and Writing Functions

8. Including Files

- `require`
- `require_once`

- auto_prepend_file and auto_append_file
- 2. Adding a Header and Footer

9. User Functions

- Defining and Calling Functions
- Default Values
- Variable Scope
- By Reference vs. By Value
- Form Processing
- Code Organization
- Form Validation and Presentation Functions

10. Managing Data

- Querying a Database
- mysqli() Overview
- mysqli Methods and Properties
- Inserting and Updating Records
- mysqli Prepared Statements
- Inserting Records 8. PEAR:DB
- Advantages and Disadvantages of PEAR DB
- Why use a database abstraction layer?
- When not to use a database abstraction layer?
- Using PEAR DB
- Creating a Customer Report

11. Authentication with PHP and SQL

- A Database-less Login Form
- Authenticating Users

12. Regular Expressions

- Perl-compatible Regular Expression Functions

- preg_match()
- preg_replace()
- Regular Expression Tester
- Regular Expression Syntax
- Start and End (^ \$)
- Number of Occurrences (? + * { })
- Common Characters (. \d \D \w \W \s \S)
- Grouping ([])
- Negation (^)
- Subpatterns (())
- Alternatives (|)
- Escape Character (\)
- Form Validation Functions with Regular Expressions

13.Session Control and Cookies

- Sessions
- Configuring Sessions
- Session Functions
- Cookies
- Authentication with Session Control

14.Sending Email with PHP

- mail()
- Shortcomings of mail()
- PHPMailer
- Sending a Password by Email
- 13. File System Management
- Opening a File
- fopen()

- Reading from a File
- fgets()
- Writing to a File
- fwrite()
- Writing to a File
- File Locking
- flock() 6. Uploading Files via an HTML Form
- Getting File Information
- More File Functions
- Directory Functions
- Getting a Directory Listing
- Creating a Resume Management Page

Ajax

- Learn how Ajax works.
- Learn to write cross-browser Ajax code.
- Learn to use Ajax to make a call to the server without a page refresh.
- Learn to modify content blocks on a page without refreshing the whole page.
- Learn to use server-side form validation with Ajax.
- Learn to move elements around the page with Dynamic HTML.
- Learn to show and hide elements.
- Learn to manipulate XML documents with JavaScript using the DOM.
- Learn to manipulate XML documents with JavaScript using XSLT.
- Learn to program in JavaScript using Object-Oriented techniques.
- Learn to work with various JavaScript/Ajax libraries, such as Prototype, Scriptaculous, and Sarissa.

- Ajax Overview
- Ajax Technology Stack
- Ajax Implementations
- Installing and configuring HTML Ajax Pear Module
- Ajax Server
- Ajax Client
- Smarty Templates
- Smarty Overview
- Installing and configuring Smarty Pear Module
- Setting up a Template
- Passing Data to the Template
- Smarty for Template Designers
- Smarty for Programmers
- Smarty in N-Tier Architecture