

PHP & PHP++

Curriculum

CORE PHP

- How PHP Works
- The php.ini File
- Basic PHP Syntax
- PHP Tags
- PHP Statements and Whitespace
- Comments
- PHP Functions
- Variables
- Variable Types
- Variable Names (Identifiers)
- Type Strength
- Variable Scope
- Constants
- Variable-Testing and Manipulation Functions
- PHP Operators
- Creating Dynamic Pages
- Single Quotes vs. Double Quotes
- Flow Control
- If Conditions
- Loops
- while
- do...while
- for
- break and continue
- Arrays
- Enumerated Arrays
- Initializing Arrays
- Appending to an Array
- Reading from Arrays
- Looping through Arrays
- Associative Arrays
- Initializing Associative Arrays
- Reading from Associative Arrays
- Looping through Associative Arrays
- Two-dimensional Arrays
- Reading from Two-dimensional Arrays
- Looping through Two-dimensional Arrays
- Array Manipulation Functions
- PHP and HTML Forms
- HTML Forms
- How HTML Forms Work
- A Sample HTML Form
- Form Variables
- String Manipulation
- Formatting Strings
- Concatenation
- String Manipulation Functions
- Examples of String Functions
- Magic Quotes
- magic_quotes_gpc
- magic_quotes_runtime
- Recommendation on Magic Quotes
- Reusing Code and Writing Functions
- Including Files
- Require
- require_once

- auto_prepend_file and auto_append_file
- User Functions
- Defining and Calling Functions
- Default Values
- Variable Scope
- By Reference vs. By Value
- Form Processing
- Code Organization
- Simple SELECTs
- Introduction to the Northwind Database
- Some Basics
- Comments
- Whitespace and Semi-colons
- Case Sensitivity
- Selecting All Columns in All Rows
- Selecting Specific Columns
- Sorting Records
- Sorting By a Single Column
- Sorting By Multiple Columns
- Sorting By Column Position
- Ascending and Descending Sorts
- The WHERE Clause and Operator Symbols
- Checking for Equality
- Checking for Inequality
- Checking for Greater or Less Than
- Checking for NULL
- WHERE and ORDER BY
- The WHERE Clause and Operator Words
- The BETWEEN Operator
- The IN Operator
- The LIKE Operator
- The NOT Operator
- Checking Multiple Conditions
- AND
- OR
- Order of Evaluation
- Sub queries, Joins and Unions
- Sub queries
- Joins
- Table Aliases
- Multi-table Joins
- Outer Joins
- Unions
- UNION ALL
- UNION Rules
- Inserting, Updating and Deleting Records
- INSERT
- UPDATE
- DELETE
- Managing Data
- Querying a Database

MySql Overview

- MySql Methods and Properties
- Inserting and Updating Records
- MySql Prepared Statements
- Authentication with PHP and MYSQL
- A Database-less Login Form
- Session Control and Cookies
- Sessions
- Session Functions
- Cookies
- Sending Email with PHP
- JavaScript language fundamentals

- mail()
- Shortcomings of mail()
- PHPMailer
- File System Management
- Opening a File
- fopen()
- Reading from a File
- fgets()
- Writing to a File
- fwrite()
- File Locking
- flock()
- Uploading Files via an HTML Form
- Getting File Information
- More File Functions
- Directory Functions
- Getting a Directory Listing
- Creating a Dreamweaver site
- Site creation - basic
- Site creation - advanced
- Database connections
- Database basics
- Introduction to MYSQL
- Server behaviors
- Querying the database
- Building a MYSQL query using the Simple view
- Building a MYSQL query using the Advanced view

Use of Dreamweaver

- Using Dreamweaver to automatically generate a form for updating the record
- Validating the edited information using JavaScript behaviors
- Building a confirmation page to display the result of updating the record
- Deleting records
- Precautions to take to ensure that records are not inadvertently deleted
- Building an appropriate record deletion interface, complete with confirmation dialog
- Implementing user login/logout with Dreamweaver
- Overview of Web application security issues
- Preferred approach: configuring the Web server to manage security
- Alternative approach: having Dreamweaver automatically generate code for logging users in, authenticating them, and logging them out
- In-depth instruction on using Dreamweaver with PHP to implement user login/logout and page-by-page authentication.

AJAX

- Ajax with PHP
- Ajax Overview
- Ajax Technology Stack
- Ajax Implementations
- Installing and configuring HTML_Ajax Pear Module
- Ajax Server
- Ajax Client

JQUERY

- What Are Javascript And JQuery?
- Document Object Model (DOM) And JQuery
- Programming/Coding Principles
- Separation Of Structure (HTML), Style (CSS) A
- Behaviors (Javascript/Jquery)
- JQuery Wrapper – DOM Elements As Array - \$()
- Selecting And Manipulating Elements
- JQuery API

- Element Properties And Attributes
- Browser Event Model
- JQuery Event Model
- Putting Events To Work
- Animation And Effects Overview
- Sliders, Tabs, Accordians
- Progress Bars
- Forms/Auto Completers
- Date Pickers
- Dialog Boxes

WordPress

Foundations of a WordPress-based website

- Understanding and Using domain names
- WordPress Hosting Options
- Installing WordPress on a Dedicated Server
- Understanding Directory Permissions

Basics of the WordPress User Interface

- Understanding the WordPress Dashboard
- Pages, Tags, Media and Content Administration
- Core WordPress Settings

Finding and Using WordPress Plugins

- Finding and Installing Plugins Quickly and Easily
- Upgrading WordPress Plugins
- Recommended WordPress Plugins

Working with WordPress Themes

- Understanding the Structure of WordPress Themes
- Finding Themes and Choosing the Right One
- Installing and Configuring Themes
- Editing and Customizing Themes
- Using Theme Frameworks and Parent-Child Themes
- Theme Best Practices

WordPress Content Management

- Understanding Posts Versus Pages
- Organizing Posts with Categories
- Connecting Posts Together with Tags
- Custom Post Types and Custom Taxonomies
- Managing Lists of Links

Creating and Managing Content

- Hands-On Training on the WordPress Editors
- Hands-On Training on the New Image Editor
- Adding Video and Audio Media to a WordPress Site

WordPress based Sites

- WordPress as a Blog vs. WordPress as a Website
- Converting a Website to WordPress
- WordPress as a Content Management System (CMS)
- Beyond blogging: Other Uses for WordPress

Magento

Basics of Magento

- General OOP and MVC concepts
- Event-driven architecture
- Magento module-based architecture
- Magento directory structure/naming conventions/code pools/namespaces/module structure
- Configuration XML
- Factory and functional class groups
- Class overrides
- Event observer Page 6 v.021811
- Request Flow

- Application initialization
- Front controller
- URL rewrites
- Request routing
- Modules initialization
- Design and layout initialization
- Structure of block templates
- Flushing data (output)

Rendering

- Template structure
- Blocks
- Design layout SML schema, CMS content directives

Working with Database in Magneto

- Models resource and collections
- Magneto Object Relational Mapping
- Write, install and upgrade scripts using set up resources

Entity-Attribute-Value model

- Model concepts
- EAV entity
- Load and Save
- Attributes management

Admin HTML

- Common structure/architecture
- Form and Grid Widgets
- System configuration XML and configuration scope
- ACL (permissions)
- Enabling and configuring extensions

