

PHP

1. PHP Basics

- a. How PHP Works
- b. How PHP differs from ASP.NET
- c. The php.ini File
- d. Basic PHP Syntax
- e. Variables
- f. PHP Operators
- g. Creating Dynamic Pages
 - i. Single Quotes vs. Double Quotes
 - ii. Howdy World!

2. Flow Control

- a. Conditional Processing
 - i. If Conditions
- b. If Conditions
- c. Loops
 - i. while
 - ii. do...while
 - iii. for
 - iv. break and continue

3. Arrays

- a. Enumerated Arrays
- b. Initializing Arrays
- c. Appending to an Array
- d. Reading from Arrays
- e. Looping through Arrays
- f. Associative Arrays
- g. Superglobal Arrays
- h. Two- and multi-dimensional Arrays
- i. Reading from Two-dimensional Arrays
- j. Looping through Two-dimensional Arrays
- k. Array Manipulation Functions

4. PHP and HTML Forms

- a. How HTML Forms Work
- b. A Sample HTML Form
- c. Form Variables
- d. GET versus POST

5. String Manipulation

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- a. Formatting Strings
 - i. Concatenation
 - ii. String Manipulation Functions
 - iii. Examples of String Functions
- b. Magic Quotes
 - i. magic_quotes_gpc
 - ii. magic_quotes_runtime
 - iii. Recommendation on Magic Quotes
 - iv. Conclusion

6. Reusing Code and Writing Functions

- a. Including Files
 - i. require
 - ii. require_once
 - iii. auto_prepend_file and auto_append_file
- b. User Functions
 - i. Defining and Calling Functions
 - ii. Default Values
 - iii. Variable Scope
 - iv. By Reference vs. By Value
- c. Form Processing
- d. Code Organization

7. Managing Data

- a. Querying a Database with mysqli
 - i. mysqli() Overview
 - ii. mysqli Methods and Properties
 - iii. Inserting and Updating Records
 - iv. mysqli Prepared Statements
- b. Querying a database with PDO
 - i. What is PDO
 - ii. Common PDO Drivers
 - iii. Connections and Exceptions
 - iv. Inserts and Updates with PDO
 - v. Placeholders (Named and Unnamed)
 - vi. Selecting Data
- c. How the Drupal database abstraction layer works

8. Authentication with PHP and SQL

- a. A Database-less Login Form
- b. Conclusion

9. Session Control and Cookies

- a. Sessions

- i. Configuring Sessions
 - ii. Session Functions
- b. Cookies
- c. PHP and Databases

10. Object-Oriented PHP

- a. Building a Class
- b. Working with Properties and Functions
- c. Private, Protected, Public modifiers
- d. Inheritance
- e. Interfaces
- f. Building a Web Page Object
- g. PHP Objects in N-Tier Web Architecture
- h. Importance of PHP Business Objects

11. Drupal 7 Basics

- a. How Drupal began
- b. What is Drupal 7
- c. What Technology Does Drupal Use?
- d. What is Drupal
 - i. Content Management System
 - ii. Content Management Framework
 - iii. Web Application Framework
- e. Drupal terminology
 - i. Modules
 - ii. Themes
 - iii. Nodes
 - iv. Blocks
- f. Drupal Workflow
 - i. Bootstrap
 - ii. Hooks and Callbacks

12. Getting started

- a. Installing Drupal 7
- b. The Admin Interface
 - i. Creating Content
 - ii. Managing Content
 - iii. Site Building
 - iv. Site Configuration
 - v. User Management
 - vi. Reports
 - vii. Help

13. Out of the Box Modules

- a. Core Required
- b. Core Optional-enabled
- c. Core Optional-disabled

14. User Contributed Modules

- a. What They Are
- b. Where They Are
- c. What They Do
- d. Downloading and Enabling
- e. Popular Modules
- f. Module selection and evaluation

15. Layouts in Drupal

- a. Blocks and Regions
- b. Default Blocks
- c. Custom Blocks
- d. Configuring Blocks
 - i. Enabling Default Blocks and Controlling the Front Page

16. File System

- a. Download Methods
- b. File Module
- c. Image Module
- d. Storing user uploaded materials

17. Custom Content Types with the Fields Module

- a. The PAGE and the ARTICLE
- b. Input Filters
- c. Creating Custom Content-Types
- d. Field Permissions
- e. Adding Custom Fields to Content-Types
- f. Using the Manage Display Settings
 - i. Teaser / Body Displays
 - ii. Labels
 - iii. Display Formats

18. Working with Taxonomy

- a. What is taxonomy?
- b. Vocabularies
 - i. Required Vocabulary
 - ii. Controlled Vocabulary

- c. Terms
 - i. Single and Multiple Terms
 - ii. Adding Terms
- d. View Content by Term
- e. Storing Taxonomies
- f. Module-Based Vocabularies
- g. Common Functions

19. VIEWS: Advanced Displays With Contributed Module

- a. Overview of VIEWS
- b. VIEW Types
 - i. Default Views
 - ii. Overridden Views
 - iii. Normal Views
- c. Displays
 - i. Basic Settings
 - ii. Display Types
- d. Creating a VIEW With the VIEWS User Interface
 - i. Basic Settings
 - ii. Fields vs Node
 - iii. Filters
 - iv. Arguments
 - v. Relationships

20. The Form API

- a. Form Processing
- b. Validation
- c. Form Submission
- d. Redirection
- e. Creating Basic Forms
 - i. Custom Module Basics
 - ii. Creating your own Custom Module
- f. Enabling the Custom Form Module
- g. Accessing the Custom Form
- h. Form API Properties

21. XML-RPC and REST

- a. What is XML-RPC?
- b. XML-RPC Clients
- c. A Simple XML-RPC Server
- d. REST (with the Services Module)
 - i. Creating a Drupal REST Server
 - ii. Testing your REST Server

22. Theming

- a. Architecture of the Theme System
 - i. Theme Templates
 - ii. The .info file
 - iii. Theme Engine
 - iv. Hooks
- b. Creating a Theme
 - i. Where are the files?
 - ii. Installing a Theme
 - iii. Creating and Enabling a Customized Sub-Theme
 - iv. Theme Inheritance and Sub-Themes
- c. Responsive Design with Adaptive Themes
 - i. Mobile First Design
 - ii. CSS Structure
 - iii. Responsive Stylesheets
 - iv. Progressive Enhancement
 - v. Adaptive Theme Settings
- d. Theming with CSS
- e. Theming with a custom stylesheet
- f. Overriding Theme Behavior with PHP

23. Creating Interactive Forms with the Webforms module

24. Creating Rules with the Rules module

25. Drupal's Database Abstraction Layer

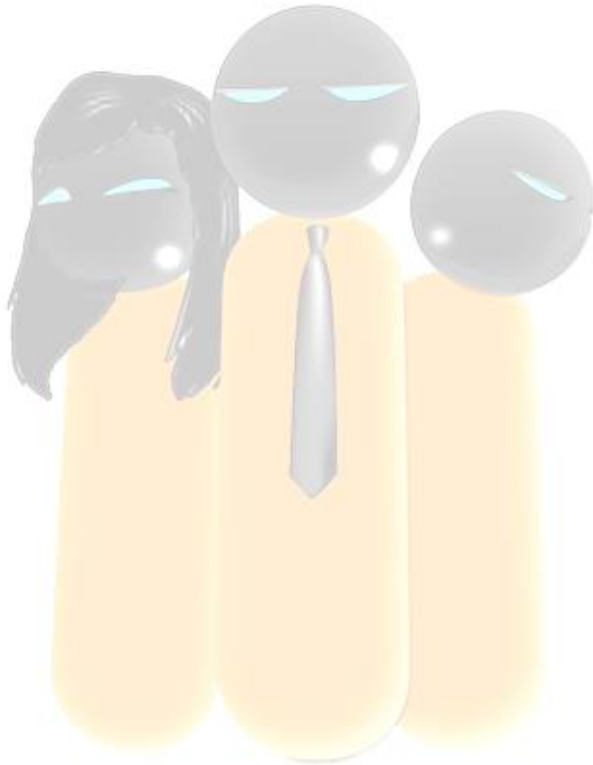
- a. Functions and Methods
- b. Drupal Database Connections
- c. Selecting records with DB_QUERY
- d. Custom Database Connections with PDO
- e. Advanced Concepts
 - i. The Schema API
 1. Adding tables to a module
 2. Adding Schema definition to a module
 - ii. DB_SELECT
 1. Building a page display with DB_SELECT
 - iii. Maintaining tables with module_update functions

26. DRUSH

- a. What is DRUSH
- b. Installation and Configuration
- c. Getting Started

- d. Useful Commands
- e. Database Updates
- f. Backup Site and Databases
- g. Summary of Commands
- h. Site Aliases
- i. Scripting with DRUSH

27. Conclusion



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