Let's Build a Website!

U₃A – 23rd January 2013 Peter Orchard

myGardenBirds.com: Specification

About birds that use our garden in winter

- * Our Garden: Introduction
- * My Blog: Diary of notable events as they happen
- * Identification Guide: Gallery of photographs
- * Statistics: Weekly count data
- * Data: Input of count data

These are the tools we will need to build our site:

- * HTML: Hypertext Mark-up Language
- * CSS: Cascading Style Sheets
- * XML: Extensible Mark-up Language
- * Javascript: Advanced function
- Linux or Windows: our operating system
- * Apache: Server function controls
- * PHP: Hypertext Pre-processor language
- * MySQL: Structured Query Language
- jQuery: Library of standard JS functions
- * Json: JavaScript Object Notation
- * Javascript/XML processor
- * And possibly others!

These are provided by our **BROWSER**:

- HTML: Hypertext Mark-up Language
- * CSS: Cascading Style Sheets
- * XML: Extensible Mark-up Language
- Javascript: Advanced function
- Linux or Windows: our operating system
- Apache: Server function controls
- * PHP: Hypertext Pre-processor language
- * MySQL: Structured Query Language
- jQuery: Library of standard JS functions
- * Json: Javascript extensions
- Ajax: Asynchronous Javascript/XML processor
- * And possibly others!

These are provided by our **SERVER**:

- HTML: Hypertext Mark-up Language
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- XML: Extensible Mark-up Language
- * Javascript: Advanced function
- * Linux or Windows: our operating system
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- * PHP: Hypertext Pre-processor language
- * MySQL: Structured Query Language
- * jQuery: Library of standard JS functions
- * Json: Javascript extensions
- Ajax: Asynchronous Javascript/XML processor
- * And possibly others!

These are provided by our DRUPAL:

- HTML: Hypertext Mark-up Language
- CSS: Cascading Style Sheets
- * XML: Extensible Mark-up Language
- * Javascript: Advanced function
- * Linux or Windows: our operating system
- Apache: Server function controls
- PHP: Hypertext Pre-processor language
- MySQL: Structured Query Language
- jQuery: Library of standard JS functions
- * Json: Javascript extensions
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What is Drupal?

- * It is a CMS: a Content Management System
- * It is Open Source: It's free!
- * Provides CORE function: standard needs
- * Add CONTRIBUTED function: as needed
- * Choice of 800+ layouts: called Themes
- * A number of Distributions: pre-built sites

How does Drupal work?

Drupal has <u>FIVE</u> layers:

- * Database: user defined content and variables
- * Modules: contain the programming code
- * Pages, blocks and menus: structure to data
- * Permissions: determines who can do what
- * Template: governs appearance and display

Advantages of Drupal?

- * No programming necessary
- * Focus on content not programming skills
- * Uses a database for storing content
- * To change content just change the database
- * Changes are effective immediately (no FTP)
- * Immense library of pre-built functions/themes
- * Appearance changeable (user choice!)
- * All basic function provided

Contributed module bring ...

- Multiple contributions (including a forum facility)
- Secure organic groups
- * Comments and ratings on content
- Voting and polls
- Map interfaces
- * Media integration (images/sound/video)
- * Integration with Facebook, Flickr, etc.
- * E-Commerce
- * And much, much more

About Structure Query Language

- * Provides CRUD functions (create, read, update and delete of data records in tables)
- * Allows for the sorting of data in tables by any field
- * Allows to the selection of data from tables based on the value of fields
- * Allows tables to be joined together using 'reference' fields
- * Displays the output in a variety of view formats

Getting started on our site ...

Going to adapt my demonstration site ...

- Domain registered and hosting established
- * Drupal V7 core module uploaded to server
- * Some contributed modules have been uploaded
- Database to hold content created
- * A theme has been selected
- * Basic site configuration complete
- Installation has been backed up