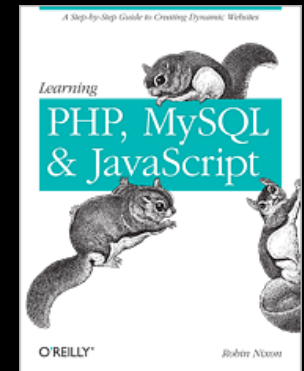


# Setting up a Development Server

## Chapter 2

Dr. Charles Severance

To be used in association with the book:  
PHP, MySQL, and JavaScript by Robin Nixon



open.michigan

Unless otherwise noted, the content of this course material is licensed under a Creative Commons Attribution 3.0 License.

<http://creativecommons.org/licenses/by/3.0/>.

Copyright 2010, Charles Severance



# What We Need

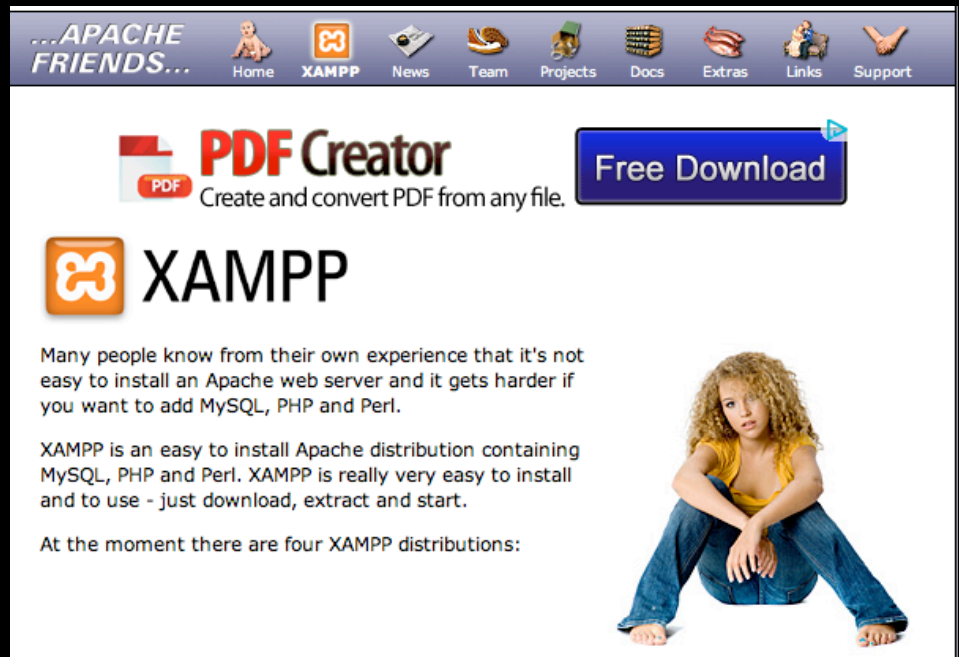
- Apache Web Server (Includes PHP)
- MySQL Database Server
- MySQL Administration Software (PhpMyAdmin)
  
- We could install all this by hand...

# All-In-One Pre-Packaged

- WAMP - Windows, Apache, MySQL, and PHP
- MAMP - Mac, Apache, MySQL, and PHP
- LAMP - Linux, Apache, MySQL, and PHP
  
- You can use these...

# XAMPP

- One Product - Multiple Distributions (Windows, Mac, Linux, and Solaris)
- All versions are Free



The screenshot shows the XAMPP website homepage. At the top, there is a navigation bar with the text "...APACHE FRIENDS..." and several icons for Home, XAMPP, News, Team, Projects, Docs, Extras, Links, and Support. Below the navigation bar, there is a large advertisement for PDF Creator with a "Free Download" button. The main content area features the XAMPP logo and the text: "Many people know from their own experience that it's not easy to install an Apache web server and it gets harder if you want to add MySQL, PHP and Perl. XAMPP is an easy to install Apache distribution containing MySQL, PHP and Perl. XAMPP is really very easy to install and to use - just download, extract and start. At the moment there are four XAMPP distributions:". To the right of this text is a photograph of a young girl with curly hair, sitting on the floor and leaning against her hands.

<http://www.apachefriends.org/en/xampp.html>

# Outline of Tasks

- Install text editor
- Download and install XAMPP
- Create a Database
- Create a Simple PHP file

# Programmer Editor

- Do not use Word, TextEdit, or NotePad
- Programmer Editor
  - Windows: Notepad++
  - Macintosh: TextWrangler
- Feel free to use an Integrated Development Environment such Eclipse, etc. if you have experience.

SI572 – PHP, MySQL – Database Applications on the Web

http://www.si572.com/install.php

Database Applications (SI572) [Book](#) [Install](#) [Instructor](#)

## Setting up the PHP/MySQL Environment on Windows

We will install the XAMPP bundled PHP/MySQL system. Installing the XAMPP (or similar) bundle is much easier than installing all the components separately.


### Pre-Requirement: NotePad++

Please download and install NotePad++ from this site.

<http://notepad-plus-plus.org/>

### Installing XAMPP

There is a screen cast of this process below on YouTube. You can watch the screen cast and follow along to complete the tasks. There are notes below the YouTube video as well. You may want to print this page to have the notes as you follow the steps in the video. You may find that watching this on YouTube does not work so well because you may have a slow network connection, or you need to stop and start the video too often as you watch it. Below the video is a link to download the entire high-quality video to your desktop so you can play it locally with QuickTime.



SIS72 – PHP, MySQL – Database Applications on the Web

http://www.sis72.com/install.php

Database Applications (SIS72) [Book](#) [Install](#) [Instructor](#)

## Setting up the PHP/MySQL Environment on a Macintosh

We will install the XAMPP bundled PHP/MySQL system. Installing the XAMPP (or similar) bundle is much easier than installing all the components separately.


### Pre-Requisite: TextWrangler

Please download and install TextWrangler from this site.

<http://www.barebones.com/products/TextWrangler/download.html>

### Installing XAMPP

There is a screen cast of this process below on YouTube. You can watch the screen cast and follow along to complete the tasks. There are notes below the YouTube video as well. You may want to print this page to have the notes as you follow the steps in the video. You may find that watching this on YouTube does not work so well because you may have a slow network connection, or you need to stop and start the video too often as you watch it. Below the video is a link to download the entire high-quality video to your desktop so you can play it locally with QuickTime.



The screenshot shows the XAMPP for Mac OS X installation page. The browser window title is "XAMPP for Mac OS X 1.7.3". The address bar shows "http://localhost/xampp/index.php". The page content includes the XAMPP logo, the text "XAMPP for Mac OS X", and a table of system requirements. The table has two columns: "system requires" and "installed".

system requires	installed
iconv implementation	libiconv
iconv library version	1.11

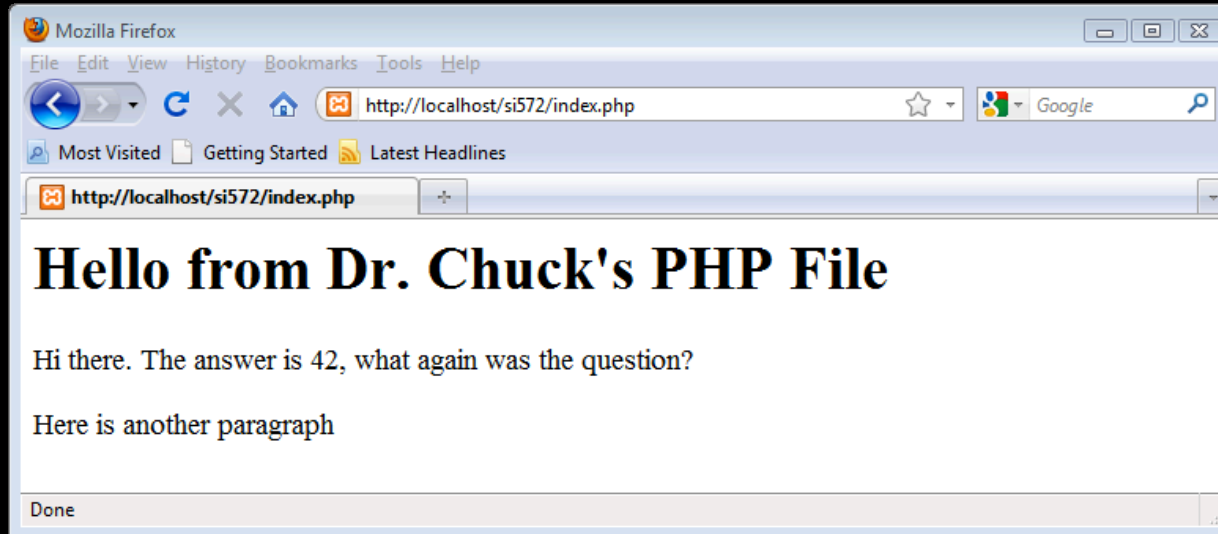
# Assignment Deliverables

The screenshot displays the phpMyAdmin interface for a MySQL server on localhost. The left sidebar shows a list of databases: cdc (1), chuck (indicated by a red arrow), information\_schema (28), mysql (23), and test. The main content area is divided into several sections:

- Server: localhost**: A navigation bar with tabs for Databases, SQL, Status, Variables, Charsets, Engines, Privileges, and Processes. Below this are links for Export and Import.
- Actions**: A section for MySQL localhost with a "Create new database" form. The form includes a text input for the database name, a "Collation" dropdown menu, and a "Create" button. Below the form, it shows "MySQL connection collation: utf8\_general\_ci".
- Interface**: A section for user interface settings, including a "Language" dropdown set to "English", a "Theme / Style" dropdown set to "Original", a "Custom color" section with a "Reset" button, and a "Font size" dropdown set to "82%".
- MySQL**: A section displaying server information: Server: Localhost via UNIX socket, Server version: 5.1.44, Protocol version: 10, User: root@localhost, and MySQL charset: UTF-8 Unicode (utf8).
- Web server**: A section displaying web server information: Apache/2.2.14 (Unix) DAV/2, mod\_ssl/2.2.14 OpenSSL/0.9.8l, PHP/5.3.1 mod\_perl/2.0.4 Perl/v5.10.1, MySQL client version: 5.1.44, and PHP extension: mysql.
- phpMyAdmin**: A section displaying version information: 3.2.4, and links for Documentation, Wiki, Official Homepage, [ChangeLog], [Subversion], and [Lists].

The phpMyAdmin logo is visible in the bottom right corner of the interface.

# Assignment Deliverables



# Summary

- We installed a programming editor and Apache/MySQL/PHP environment and created a table and created a simple PHP file