

# Construct a simple 3-tier website



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# 提纲

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# 1. 前言

网页展示层

Apache/Nginx/Lighttpd/Tomcat ..

业务逻辑层

PHP/Java/Perl/Python ..

数据存储层

MySQL/Oracle/SQLite ..

操作系统

Linux/Windows ..

## 2. LAMP简介

- Linux + Apache + MySQL + PHP 组合名称
- 一组常用来搭建动态网站或者服务器的开源软件
- 软件开发的项目在软件方面的投资成本较低
- 70%以上的访问流量是LAMP来提供的，是最强大的网站解决方案
- 开放源代码的LAMP已经与J2EE和.Net商业软件形成三足鼎立之势



# 3. XAMPP安装

## 简介

从零开始安装Apache 服务器，并添加MySQL、PHP 和Perl模块，会比较麻烦，并且存在apache和模块之间的兼容性问题。

- XAMPP是一个易于安装的LAMP 软件集合的集成包
- 可以在Windows、Linux、Solaris三种操作系统下安装使用
- 支持多语言：英文、简体中文、繁体中文、韩文、俄文、日文等
- Windows版的安装包包括： Apache、MySQL、PHP + PEAR、Perl、mod\_php、mod\_perl、mod\_ssl、OpenSSL、phpMyAdmin、Webalizer、Mercury Mail Transport System for Win32 and NetWare Systems v3.32、Ming、FileZilla FTP Server、mcrypt、eAccelerator、SQLite、and WEB-DAV + mod\_auth\_mysql
- 主页：<http://www.apachefriends.org/en/xampp-windows.html>

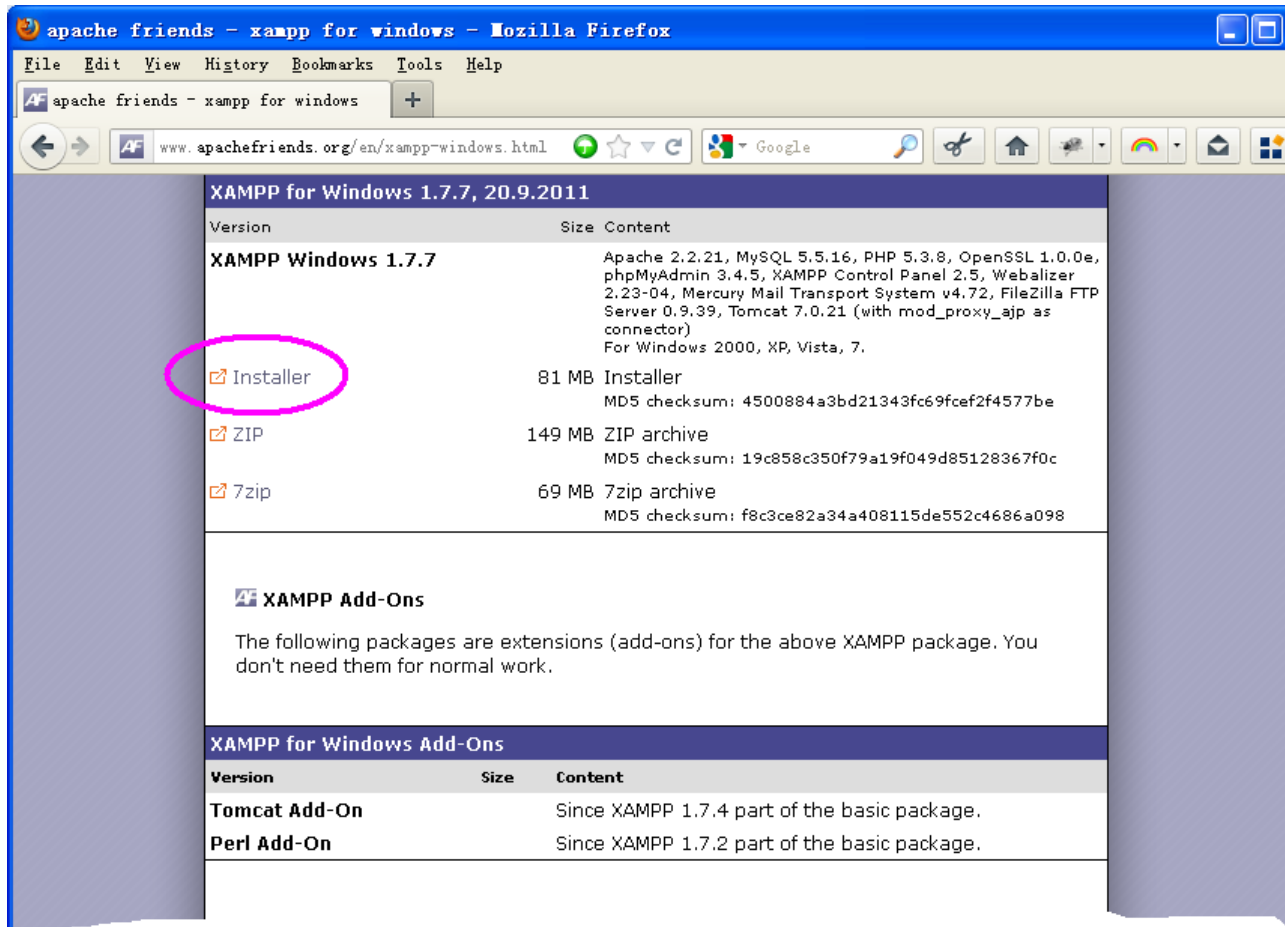




# 安装

- 下载windows安装包

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



The screenshot shows a Mozilla Firefox browser window with the address bar displaying [www.apachefriends.org/en/xampp-windows.html](http://www.apachefriends.org/en/xampp-windows.html). The page content is titled "XAMPP for Windows 1.7.7, 20.9.2011". It features a table with columns for "Version", "Size", and "Content". The table lists three download options: "Installer" (81 MB), "ZIP" (149 MB), and "7zip" (69 MB). The "Installer" link is circled in pink. Below the table, there is a section for "XAMPP Add-Ons" with a sub-table listing "Tomcat Add-On" and "Perl Add-On".

Version	Size	Content
<b>XAMPP Windows 1.7.7</b>		Apache 2.2.21, MySQL 5.5.16, PHP 5.3.8, OpenSSL 1.0.0e, phpMyAdmin 3.4.5, XAMPP Control Panel 2.5, Webalizer 2.23-04, Mercury Mail Transport System v4.72, FileZilla FTP Server 0.9.39, Tomcat 7.0.21 (with mod_proxy_ajp as connector) For Windows 2000, XP, Vista, 7.
<a href="#">Installer</a>	81 MB	Installer MD5 checksum: 4500884a3bd21343fc69cef2f4577be
<a href="#">ZIP</a>	149 MB	ZIP archive MD5 checksum: 19c858c350f79a19f049d85128367f0c
<a href="#">7zip</a>	69 MB	7zip archive MD5 checksum: f8c3ce82a34a408115de552c4686a098

**XAMPP Add-Ons**

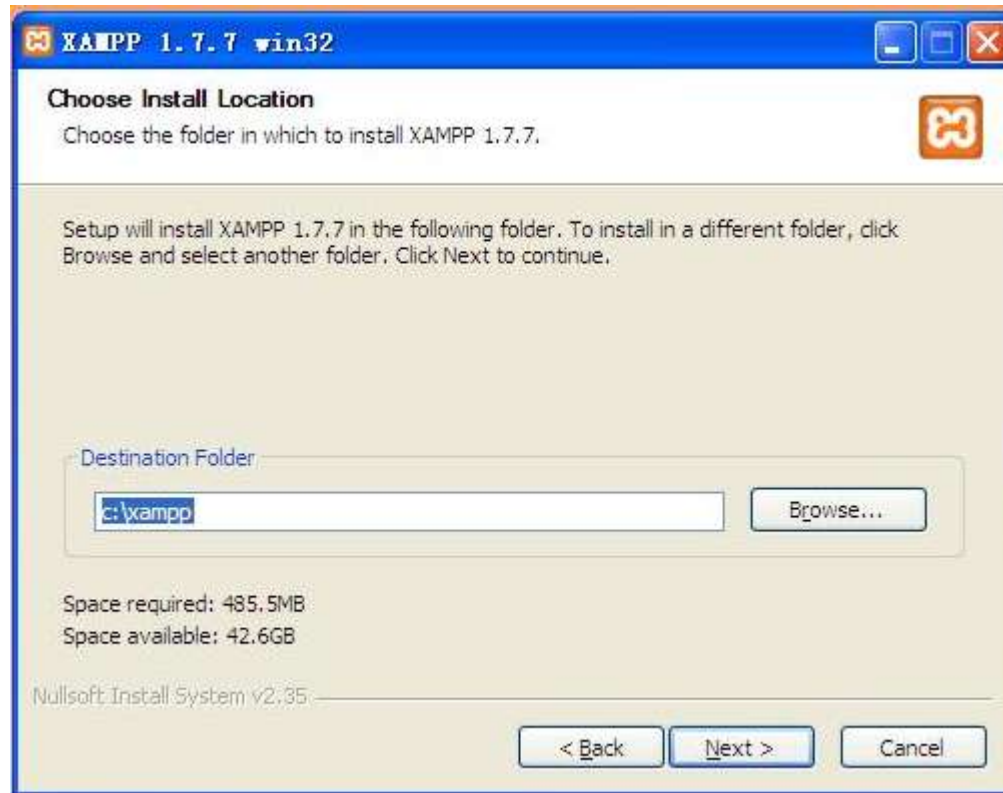
The following packages are extensions (add-ons) for the above XAMPP package. You don't need them for normal work.

Version	Size	Content
<b>Tomcat Add-On</b>		Since XAMPP 1.7.4 part of the basic package.
<b>Perl Add-On</b>		Since XAMPP 1.7.2 part of the basic package.

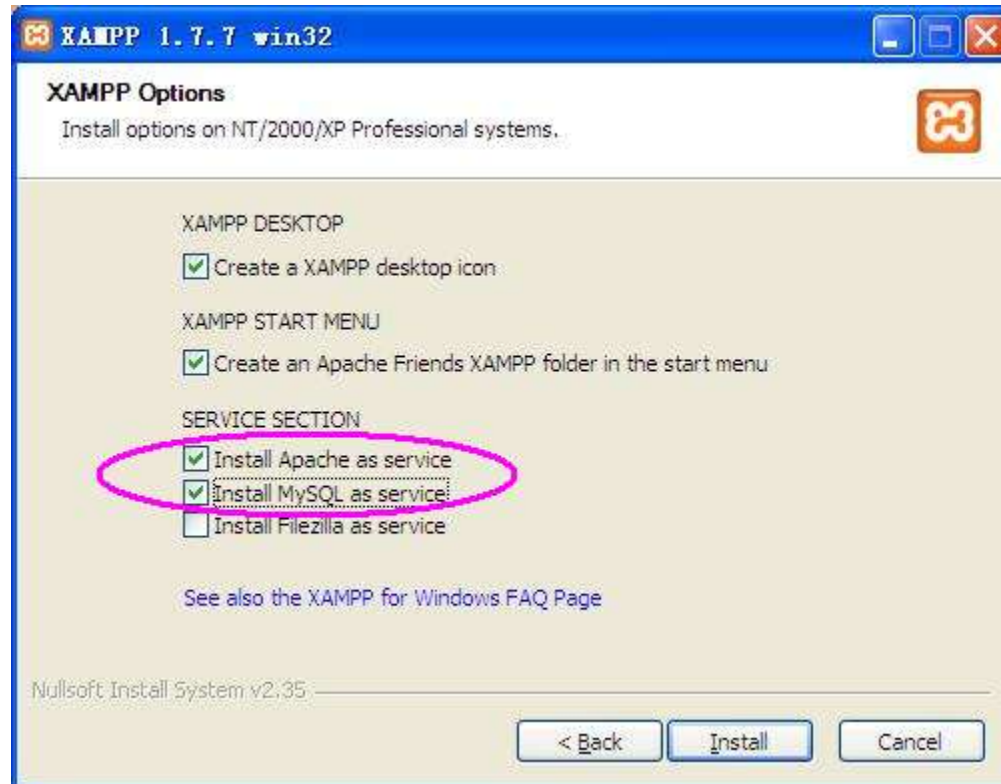
- 双击xampp.exe开始安装



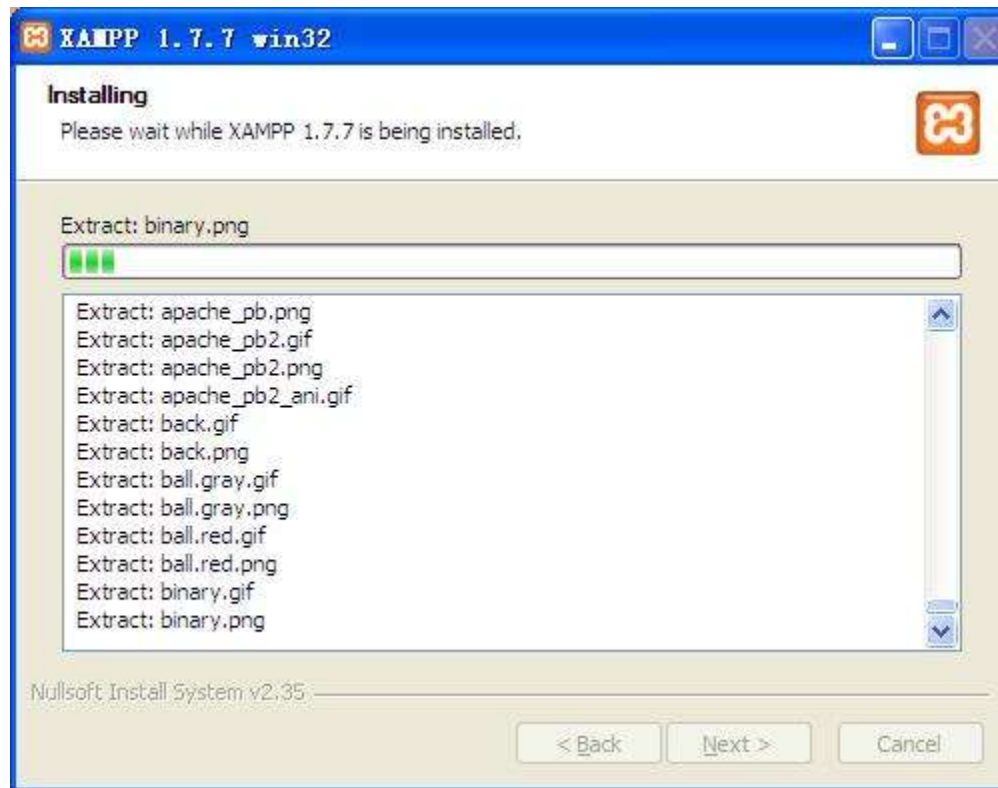
- 选择要安装的目录（建议使用默认值）



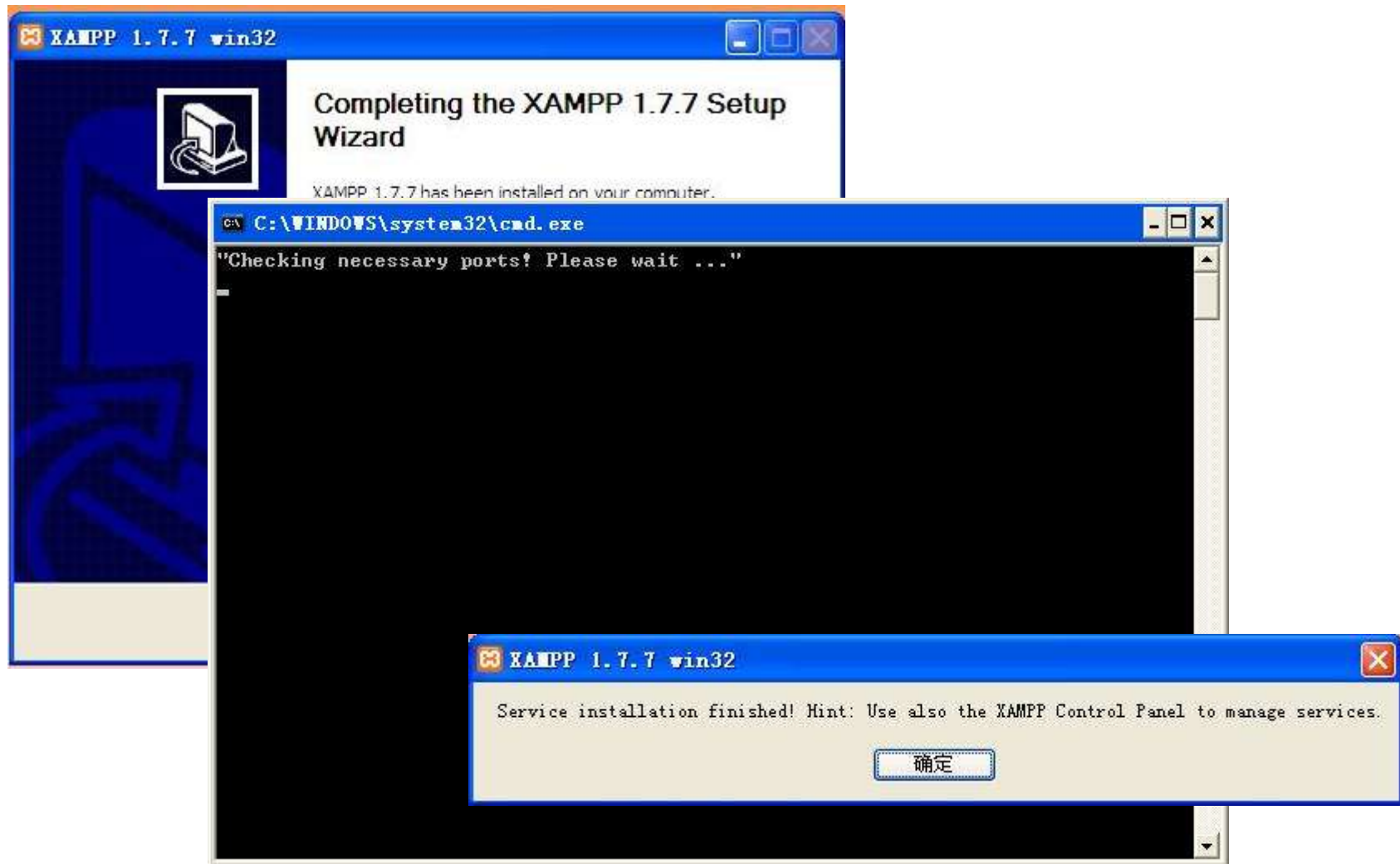
- 选项设置（勾选Install Apache as Service 和 Install MySQL as Service）



- 正在安装



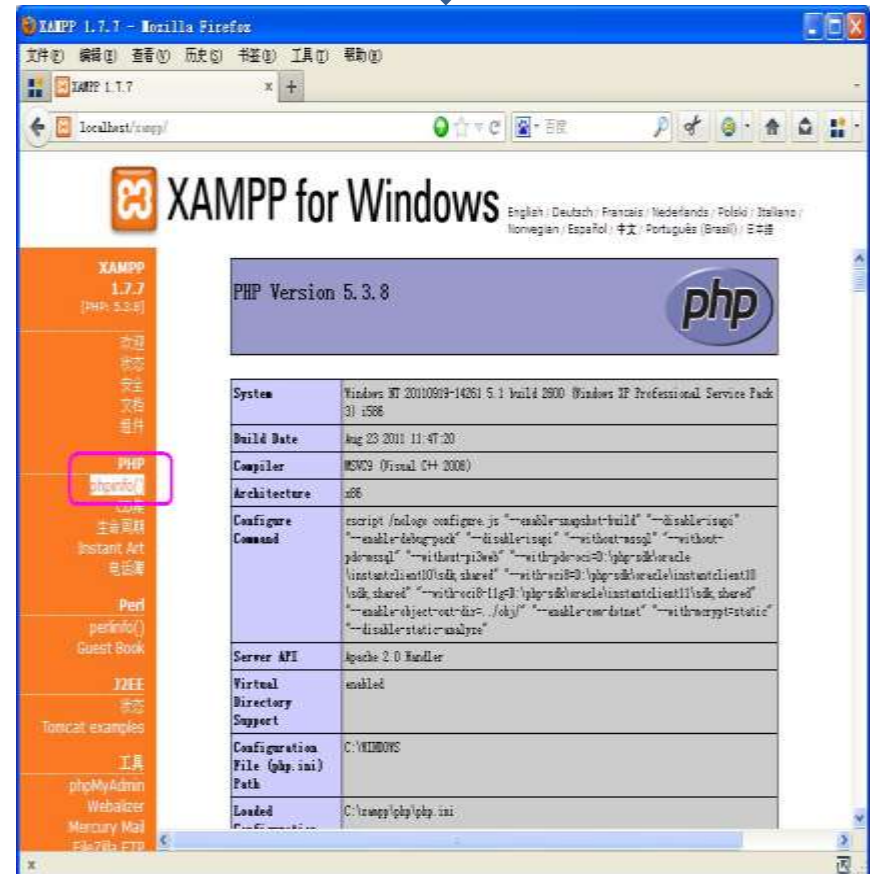
- 安装结束



# 4. XAMPP测试与管理

# PHP Info

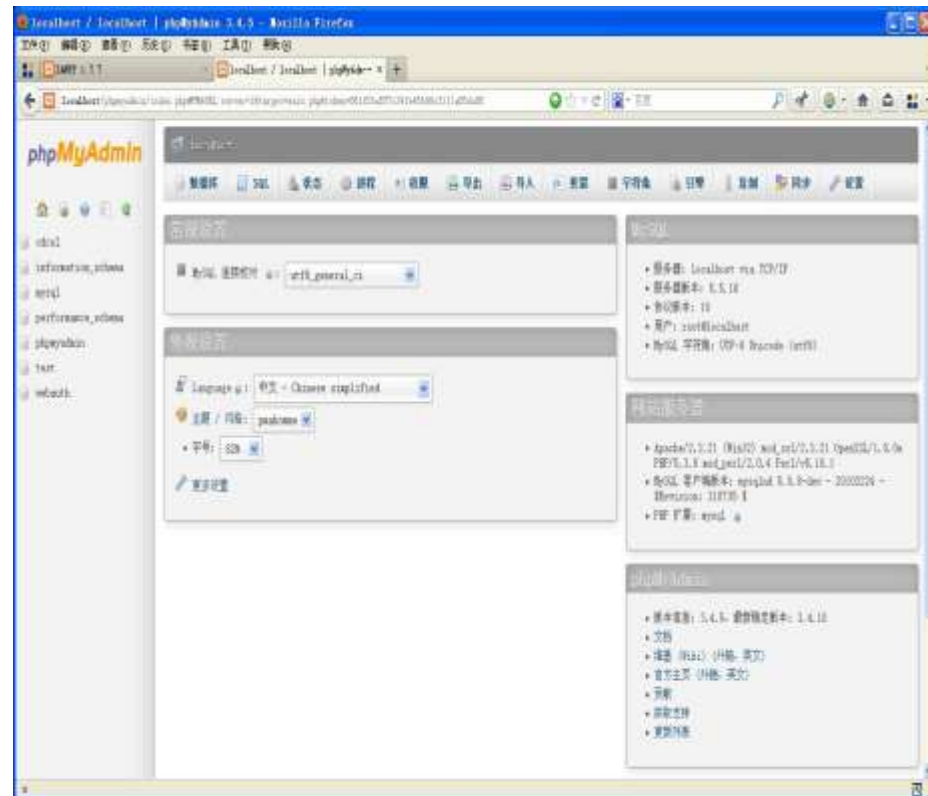
- 在Control Pannel中点击Apache右边的Admin..按钮
- 或者在浏览器中输入 <http://localhost/xampp/>
- 右下图所示页面显示的是php和apache 安装成功后正确显示信息
- 该页面显示了所有的apache php 模块配置





# MySql

- 在Control Pannel中点击MySql右边的Admin..按钮
- 或者在浏览器中输入 <http://localhost/phpmyadmin/>
- 右下图所示页面显示的是mysql 和 apache安装成功后的正确显示信息
- 该页面提供了基于Web的数据库管理功能



# 5. Hello World! 演示

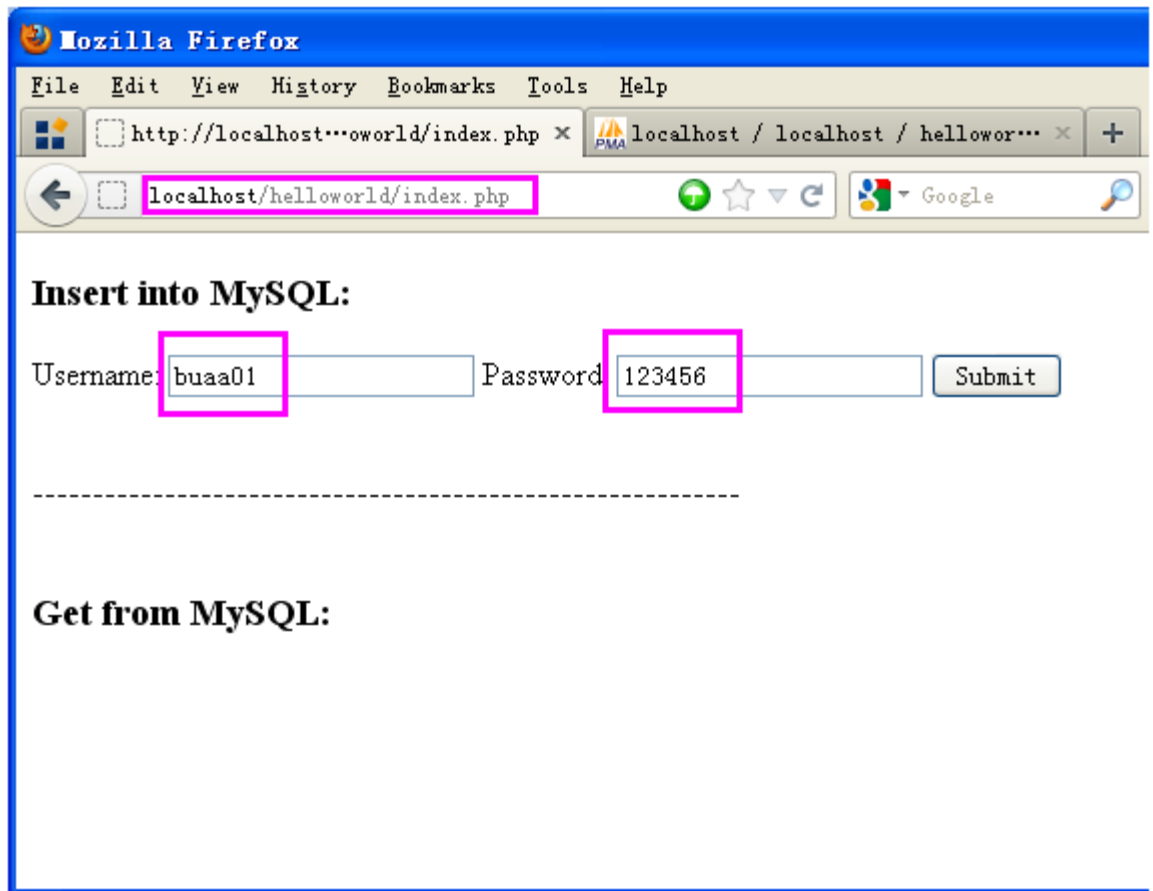
- 在xampp的安装目录下，生成如下图所示的目录和文件

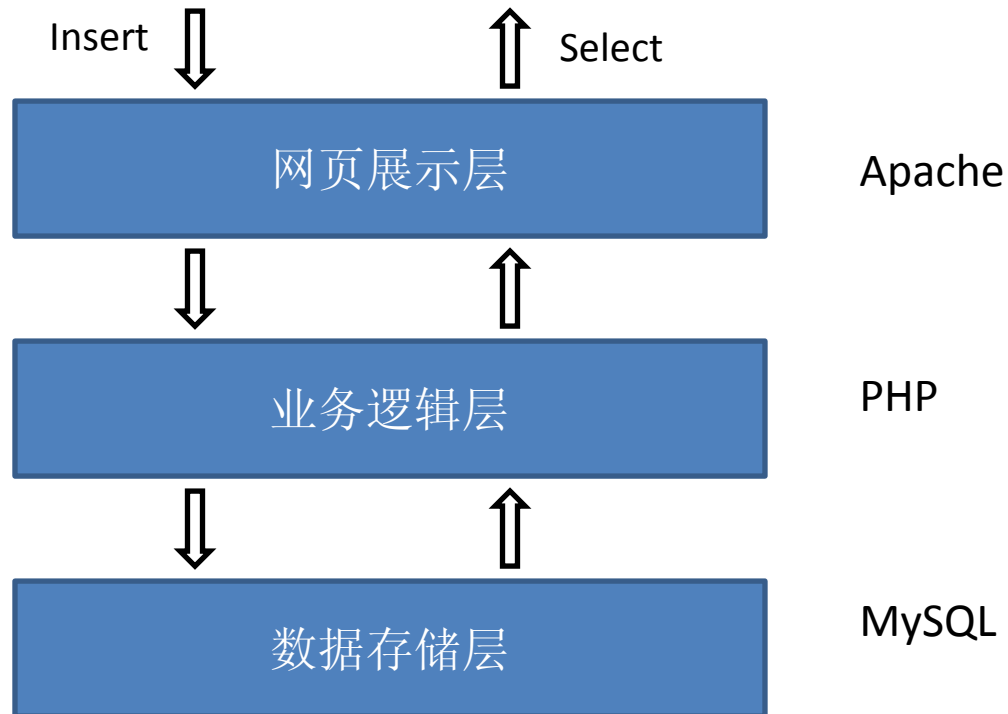
- 编辑index.php



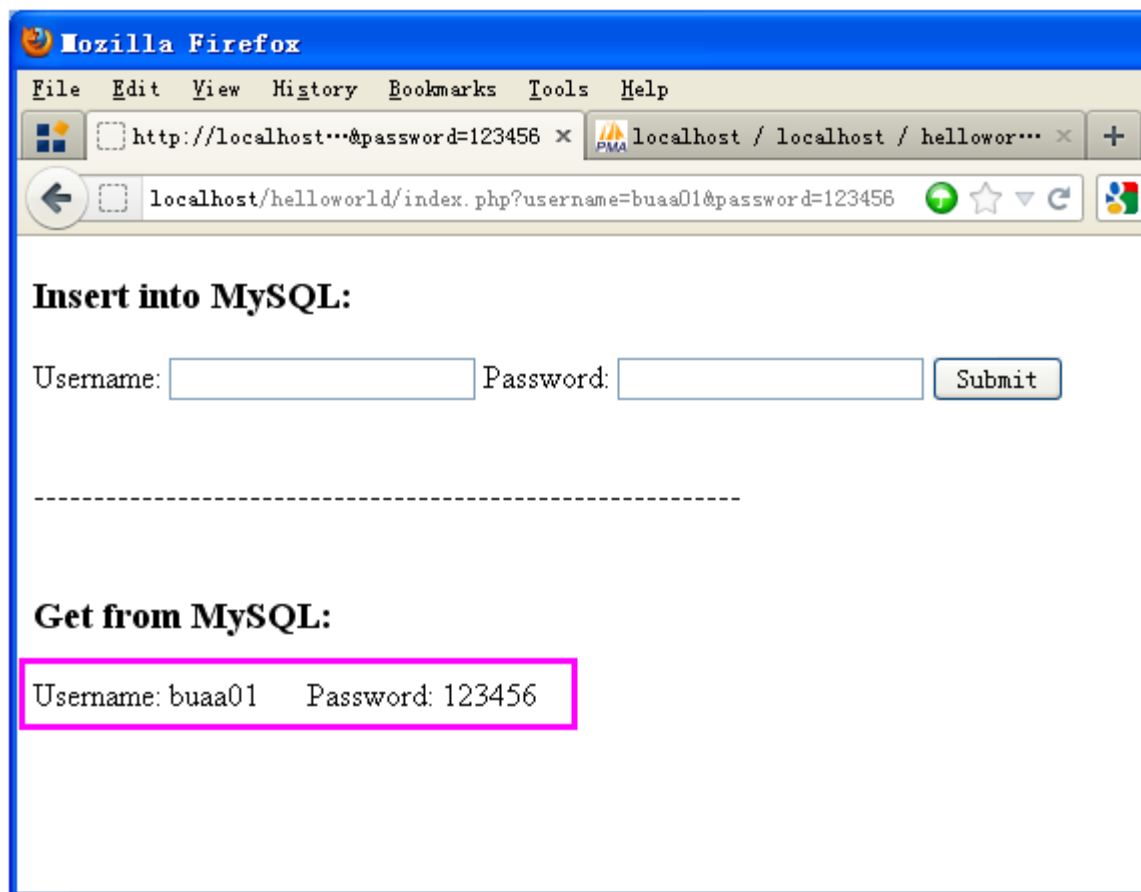


- 在浏览器中输入  
`http://localhost/helloworld/`
- 输入**buaa01**和**123456**
- 点击submit提交





- 右图是提交后的结果



**结束**