

```
<?php  
echo <<< END  
Welcome to the  
Web Programming Class  
END;  
?>
```

A brown bear is standing on its hind legs, facing the camera. Its right paw is raised in a waving gesture, with water droplets captured mid-air around it. The bear's fur is a mix of light and dark brown. The background is a blurred natural setting with green and yellow foliage. The overall scene is bright and clear.



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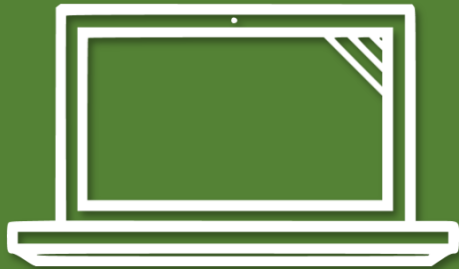
We need a class  
coordinator.  
Who wants to  
volunteer?







# Front End



## Users

Design & Programming

# Back End



## Web & DB Server

Programming



What we are  
going to learn



- Front end
- PHP programming
- PHP + MySQL
- JavaScript & AJAX
- Object-oriented PHP
- Model-View-Controller pattern
- and some more...





# The Tools



- 
- **Web server**
  - **PHP interpreter**
  - **Database server**
  - **Text editor/IDE**  
(Integrated Development Environment)
  - **Browser**
  - **Brain :)**

A photograph of a fox standing in a grassy field with mountains in the background. The fox is looking towards the camera with its eyes partially closed. The text is overlaid on the image in white, bold, sans-serif font.

**XAMPP**  
([apachefriends.org](http://apachefriends.org))  
**or WinNMP**  
([winnmp.wtriple.com](http://winnmp.wtriple.com))  
**is enough**

A background image of three men standing side-by-side, smiling, and playing acoustic guitars. They are wearing vibrant, multi-colored striped shirts. The image is slightly blurred and has a dark overlay to make the white text stand out.

# XAMPP

=

Apache HTTP server

+

MariaDB database server

+

PHP interpreter





# XAMPP for **Windows** 5.6.39, 7.0.33, 7.1.25, 7.2.13 & 7.3.0

Version		Checksum			Size
5.6.39 / PHP 5.6.39	<a href="#">What's Included?</a>	<a href="#">md5</a>	<a href="#">sha1</a>	<a href="#">Download (32 bit)</a>	110 Mb
7.0.33 / PHP 7.0.33	<a href="#">What's Included?</a>	<a href="#">md5</a>	<a href="#">sha1</a>	<a href="#">Download (32 bit)</a>	121 Mb
7.1.25 / PHP 7.1.25	<a href="#">What's Included?</a>	<a href="#">md5</a>	<a href="#">sha1</a>	<a href="#">Download (32 bit)</a>	121 Mb
7.2.13 / PHP 7.2.13	<a href="#">What's Included?</a>	<a href="#">md5</a>	<a href="#">sha1</a>	<a href="#">Download (32 bit)</a>	123 Mb
7.3.0 / PHP 7.3.0	<a href="#">What's Included?</a>	<a href="#">md5</a>	<a href="#">sha1</a>	<a href="#">Download (32 bit)</a>	124 Mb

A background image of three men standing side-by-side, smiling and playing acoustic guitars. They are wearing vibrant, multi-colored striped shirts. The image is slightly blurred and has a dark overlay to make the white text stand out.

# WinNMP

=

Nginx HTTP server

+

MariaDB database server

+

PHP interpreter

Setup

## Select Components



Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Server
	<input checked="" type="checkbox"/>	Apache
	<input checked="" type="checkbox"/>	MySQL
	<input type="checkbox"/>	FileZilla FTP Server
	<input type="checkbox"/>	Mercury Mail Server
	<input type="checkbox"/>	Tomcat
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Program Languages
	<input checked="" type="checkbox"/>	PHP
	<input type="checkbox"/>	Perl
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Program Languages
	<input checked="" type="checkbox"/>	phpMyAdmin
	<input type="checkbox"/>	Webalizer
	<input type="checkbox"/>	Fake Sendmail

XAMPP Installer

< Back

Next >

Cancel






Download WinNMP Installer - downloads 9k/month

*Latest Version: 19.01* (updated 6 days ago)

## *WinNMP - Nginx MariaDB Redis Php 7 development stack for Windows*

A lightweight, fast and stable server stack for developing php mysql applications on windows, based on the excellent webserver Nginx. A lighter alternative to XAMPP and WAMP, with Composer, Adminer, LetsEncrypt certificates, WinSCP, multiple PHP versions, projects and virtual servers.



**Install (extract) it to  
D:\ (for example) so that  
folder D:\xampp or D:\WTServer  
is created**

# Start Apache!

XAMPP Control Panel v3.2.1 [ Compiled: May 7th 2013 ]

**XAMPP Control Panel v3.2.1**

Modules

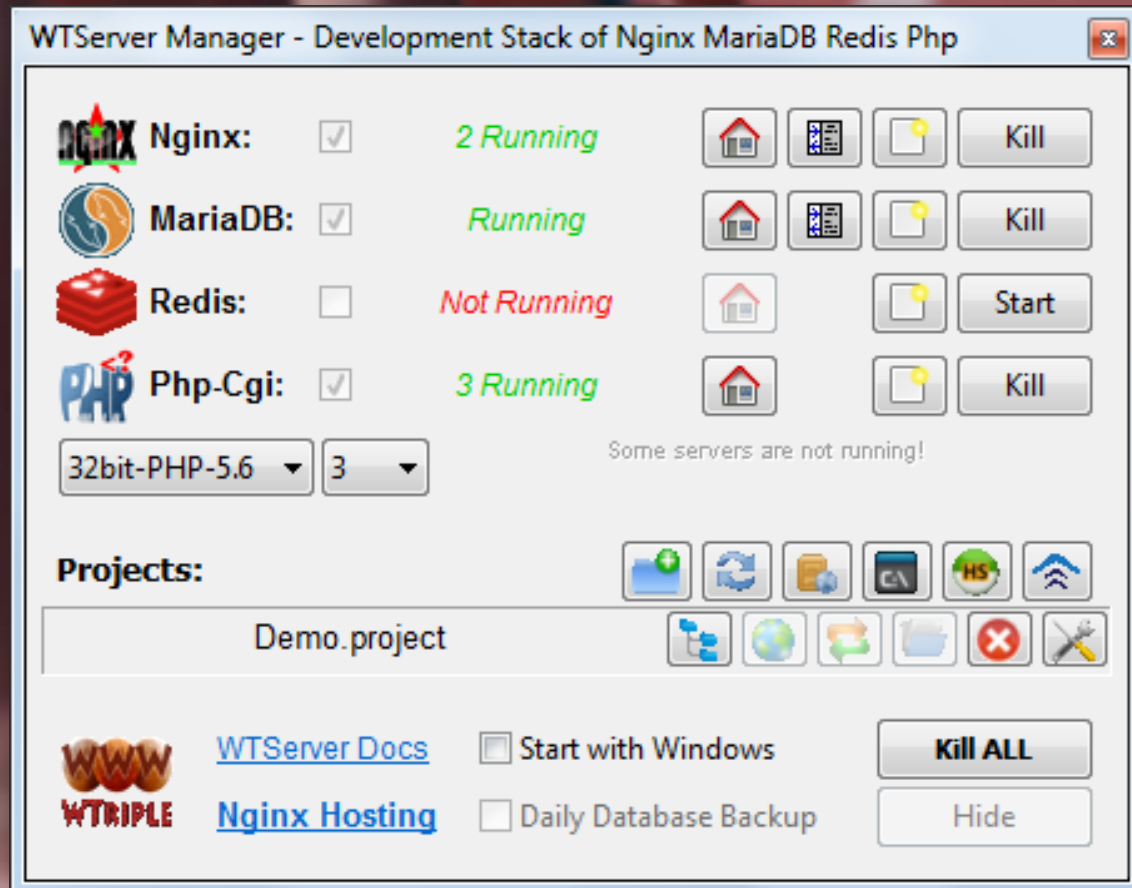
Service	Module	PID(s)	Port(s)	Actions
<input type="checkbox"/>	Apache	3592 5224	80, 443	Stop Admin Config Logs
<input type="checkbox"/>	MySQL			Start Admin Config Logs
<input type="checkbox"/>	FileZilla			Start Admin Config Logs
<input type="checkbox"/>	Mercury			Start Admin Config Logs
<input type="checkbox"/>	Tomcat			Start Admin Config Logs

Config  
Netstat  
Shell  
Explorer  
Services  
Help  
Quit

21:58:09 [main] The FileZilla module is disabled  
21:58:09 [main] The Mercury module is disabled  
21:58:09 [main] Starting Check-Timer  
21:58:09 [main] Control Panel Ready  
22:00:44 [mysql] Attempting to stop MySQL (PID: 5776)  
22:00:44 [mysql] Status change detected: stopped  
22:00:46 [Apache] Attempting to start Apache app...  
22:00:48 [Apache] Status change detected: running

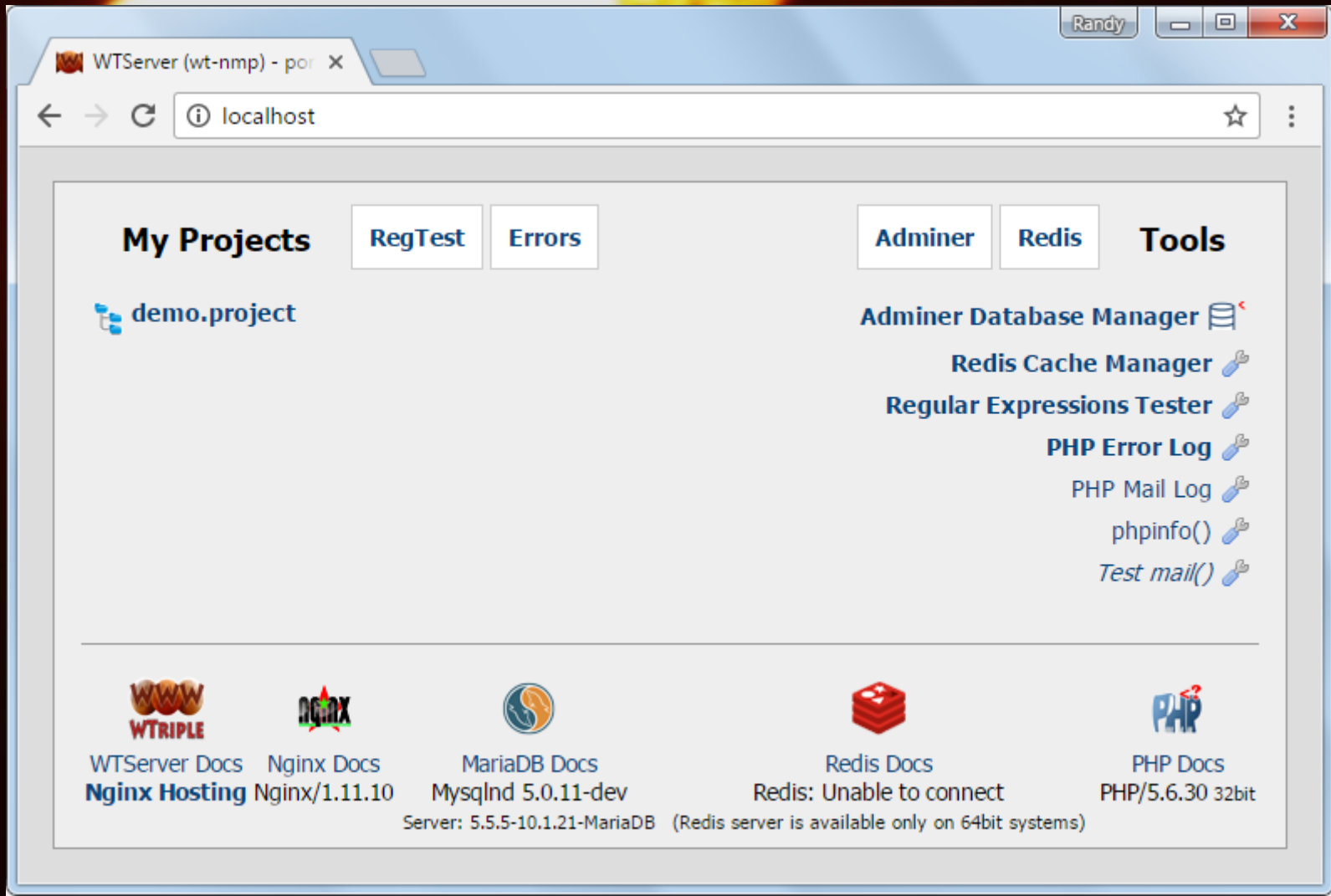


# Or Nginx!



# Fire up your browser!

Open <http://localhost>



# Text editors:

- **Notepad**
- **Notepad++**  
([notepad-plus-plus.org](http://notepad-plus-plus.org))
- **Sublime Text**  
([sublimetext.com](http://sublimetext.com))
- **Atom**
- **Visual Studio Code**



# IDE's:

- **NetBeans IDE**  
([netbeans.org](http://netbeans.org))
- **Eclipse PDT**  
([eclipse.org/pdt](http://eclipse.org/pdt))
- **PhpStorm**  
([jetbrains.com/phpstorm](http://jetbrains.com/phpstorm))
- **Zend Studio**  
([zend.com/en/products/studio](http://zend.com/en/products/studio))
- **Aptana Studio**  
([aptana.com/products/studio3.html](http://aptana.com/products/studio3.html))

A young man with dark hair is looking down at a document he is holding. He is wearing a dark sweater. In the background, other students are visible, also looking at documents. The scene is a classroom or study hall.

# Evaluation Components:

**Assignment/quiz/activity: 20%**


**Mid test: 25%**

**Lab. activity: 25%**

**Final test: 30%**



**Assignments  
must be  
submitted in  
PDF format**

A portrait of actor Robert Downey Jr. with a confused or questioning expression, looking slightly to the left. He has a goatee and is wearing a dark shirt and a patterned tie. The background is a soft, out-of-focus grey.

“Pak, saya tadi  
lupa belum absen...”





The final project is a  
web application project  
built by groups consisting  
of **three students** each

A close-up photograph of three human fingers (index, middle, and ring) standing upright. Each finger has a simple black ink drawing of a smiling face. The faces have two dots for eyes and a wide, curved line for a mouth. The fingers are positioned closely together, creating a sense of friendship. The background is a plain, light-colored surface.

Be good friends  
with English

**First assignment:  
Install XAMPP/WinNMP on  
your laptop!**



I think that's it  
for today.  
(See you next week)





KEEP  
CALM  
AND  
LEARN  
PHP