

# MAMPcamp

Start testing websites on your Mac...

Not your client's production server

# Who am I?

Tom Boutell of [P'unk Avenue](#)

Symfony PHP developer

Coding the open source [Apostrophe CMS](#)

# Why test on your Mac?

- Production servers shouldn't be broken
- The Internets: slow as a big slow thing
- Internet is full of monsters
- Freedom to experiment

# About MAMP

- Mac Apache, MySQL and PHP
- In English: a web server right on your Mac
- Easy setup
- Free (if you edit the conf files yourself)
- [www.mamp.info](http://www.mamp.info)

# You need a real text editor

TextEdit: not good enough

TextWrangler

<http://barebones.com/products/TextWrangler/>

TextMate

<http://macromates.com/>

Nano

standard equipment

# Configuring Apache

`httpd.conf`: your new best friend  
The hard way: one site at a time

```
<VirtualHost>... </VirtualHost>
```

## The easy way: VirtualDocumentRoot

```
VirtualDocumentRoot /Users/boutell/Sites/%1/web
```

Now every folder in Sites is a website  
%1 matches the first part of the domain name only  
Put your pages in the web subfolder of each site

[http://httpd.apache.org/docs/2.0/mod/mod\\_vhost\\_alias.html](http://httpd.apache.org/docs/2.0/mod/mod_vhost_alias.html)

# /etc/hosts: your own little Internets

```
127.0.0.1 localhost salsadelphia septime etc
```

Now these names map to your own computer  
127.0.0.1 = the computer in front of you

# MySQL and MAMP

- You want to install things like Wordpress
- Most of them require or prefer MySQL
- phpMyAdmin is included
- The command line works too
- `CREATE DATABASE clientname;` is not so hard

# Visiting your site on MAMP

<http://sitename:8888/>

Port 8888 doesn't conflict with  
Apple's Apache... hey someone uses it

# Security and MAMP

- Not so much
- MAMP is for testing
- Your Mac is not a production server
- And that's okay

# MacPorts: a solid alternative



- Happy for you
- Imma let you finish
- MacPorts best Apache of all time
- <http://www.macports.org/>
- Not for command line cowards

```
•port install apache ghostscript mysql5  
mysql5-server netpbm openssl php5 php5-apc  
php5-curl php5-gd php5-iconv php5-mysql  
php5-posix php5-xsl wget
```

# What about Apple's Apache?

Leopard: gd missing etc.

Snow Leopard: everything but MySQL

... But: configured for silliness

<http://localhost/~boutell> = /Users/boutell/Sites ??

Can be fixed in httpd.conf

# XAMPP: Another Option

Similar to MAMP

Also available on Windows and Linux

Completely open source

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

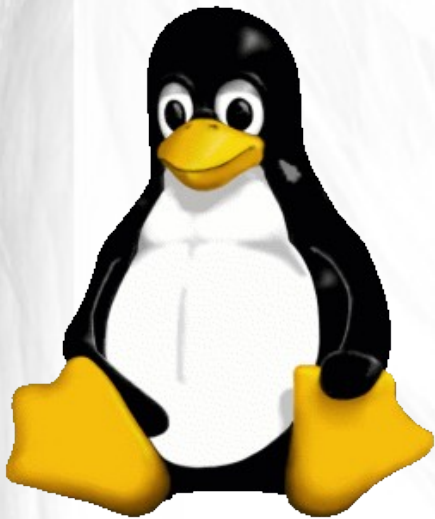
# VirtualBox: run the real thing

Your client has Red Hat Enterprise 5?

Run CentOS 5 in VirtualBox

No case sensitivity surprises

The file sharing issue: sshfs



<http://pqrs.org/macosx/sshfs/document.html>

# Coming Soon: Z-CAMP

- Zero-Configuration Apache MySQL PHP
- Based on my own setup
- Apple's Apache, plus MySQL
- A folder in /Users/boutell/Sites...
- Automatically gets listed in /etc/hosts
- Automatically gets a MySQL database
- Automatically is recognized by Apache
- Also: breakdancing robots
- Follow [window.punkave.com](http://window.punkave.com) & [@tommybgoode](https://twitter.com/tommybgoode)

# Next Steps: version control

Version control with svn

<http://svnbook.red-bean.com/>

Comes with your Mac!

Git is also awesome

[github.com](http://github.com)

Good even for one-geek shops

It's safe to code after a beer!

*Bare minimum: use Time Machine!*

# Next Steps: Mac-on-Mac Action

- See sites on coworkers' Macs
- Hard way: static IP, /etc/hosts files everywhere
- Enter the Linux Intranet server!
- Awesome way: dnsmasq
- Also makes virtualbox/vmware "PCs" accessible
- Add a VPN while you're at it

# dnsmasq.conf goodness

```
# Everyone gets a domain
```

```
address=/tom.punk/10.1.10.70
```

```
address=/jake.punk/10.1.10.71
```

```
address=/alex.punk/10.1.10.72
```

```
address=/john.punk/10.1.10.73
```

```
address=/rick.punk/10.1.10.74
```

```
address=/geoff.punk/10.1.10.75
```

```
# Map Ethernet addresses to fixed IPs
```

```
dhcp-host=00:44:22:88:02:a0,10.1.10.70
```

```
dhcp-host=00:44:21:88:09:78,10.1.10.71
```

```
dhcp-host=00:44:20:88:c7:ee,10.1.10.72
```

```
dhcp-host=00:44:15:88:46:06,10.1.10.73
```

```
dhcp-host=00:44:16:88:6e:98,10.1.10.74
```

```
dhcp-host=00:44:17:88:08:b2,10.1.10.75
```

# Next Steps: staging servers

Dev “server” (your Mac) →

Staging servers (yours and theirs) →

Production servers

Let your client use it before the public does

# Next Steps: syncing content

- Test with the real content
- Pull it down from the staging server often
- `mysqldump` is your friend
- For Symfony: `sfSyncContentPlugin`

```
./symfony project:sync-content frontend dev from  
staging@staging
```

# Next Steps: Automated Testing

- Functional testing
- Like people, but cheaper
- And more patient
- And more sadistic
- But: don't be Windows Vista

*Too much automated testing, not enough user testing*

# Links to vaguely remember

[www.mamp.info](http://www.mamp.info)  
[window.punkave.com](http://window.punkave.com)