

Getting started—setting up a development environment

Lab Resources

MAMP	http:// www.mamp.info/
Git	http://code.google.com/p/git-osx-installer/
Aptana Studio 3	http://www.aptana.com/products/studio3/download
Firefox	http://www.mozilla.org/en-US/firefox/new/
with Firebug	https://getfirebug.com/
Chrome	https://www.google.com/intl/en/chrome/browser/
phpMyAdmin	(comes with MAMP)
terminal:	pico, vim, or emacs

Outline

- I. Setting up an environment for development
 - A. An IDE: a text editor offering
 1. source code editing, formatting, validating
 2. integrated version control
 3. integrated deployment
 4. code hints, completions
 5. extensive customization
 - B. Setting up Aptana
 1. Preferences : Aptana Studio : Themes
 2. Preferences : General : Editors : Text Editors
 - a. Displayed tab width: 2–4
 - b. Insert spaces for tabs
 - c. Show line numbers
 3. Preferences : General : Workspace
 - a. Text file encoding : Other : UTF-8
 - b. New text file line delimiter : Other : Unix
 4. Preferences : General : Keys

a. Delete Line	command-E	Ctrl-E
b. Delete to Beginning of Line	control-F11	Ctrl-F11
c. Delete to End of Line	control-F12	Ctrl-F12
d. Find Next	command-K	Ctrl-K
e. Find Previous	shift-command-K	Shift-Ctrl-K
f. Line End	end	End
g. Line Start	home	Home
h. Select Line End/Start—same w/ shift		
i. Scroll Line Down	control-↓	Ctrl-↓
j. Scroll Line Up	control-↑	Ctrl-↑
k. Text End	command-end	Ctrl-End
l. Text Start	command-home	Ctrl-Home
m. Select Text End/Start—same w/ shift		
n. To Lower Case	control-F5	Ctrl-F5
o. To Upper Case	shift-F5	Shift-F5
 5. Adding a basic HTML5 template
 - a. Commands > HTML > Edit this bundle—wait for the install.
 - b. in Project Explorer, click the HTML/templates/ folder
 - c. command-n > Web > File > Next
 - d. File Name: html5_basic.html > Finish
 - e. add minimum HTML
 - f. save
 - g. open templates.rb
 - h. add


```
template("HTML5 Basic") do |t|
  t.filetype = "*.html"
```

```
t.location = "templates/html5_basic.html"  
end
```

i. save and restart

II. Setting up a browser for development

- A. Browser developer tools
 - 1. Mozilla: Firebug, DOM Inspector, Web Developer
 - 2. Safari: from the Safari Preferences, click ‘Advanced’, then select ‘Show Develop menu in menu bar’.
 - 3. Internet Explorer: IE8 | IE9—F12
- B. Setting the browser default background color (Firefox)
 - 1. Preferences : Content : Colors...
 - 2. about:config : browser.urlbar.trimURLs = false

III. MAMP

- A. Starting MAMP.
- B. MAMP settings
 - 1. changing PHP ini (/Applications/MAMP/bin/php/php5.3.6/conf/php.ini.):
 - a. error_reporting = E_ALL | STRICT
 - b. display_errors = On
 - c. restart servers.
- C. Using your localhost server
 - 1. http://127.0.0.1:8888/
 - 2. http://localhost:8888/
 - 3. these addresses point to the system directory /Applications/MAMP/htdocs/—called document root.
- D. phpinfo—information about the version of PHP running and about the server and environment
- E. phpMyAdmin—manage your databases

IV. Creating a project in Aptana

- A. In Finder, create a new directory in /Applications/MAMP/htdocs/ called something like ‘class_project’.
- B. From the Project Explorer type command-n.
- C. Select the PHP Project wizard
- D. Type a name for the project: bave_php_class.
- E. Deselect ‘Use default location’.
- F. Click browse and navigate to /Applications/MAMP/htdocs/class_project/.
- G. Click ‘Open’.
- H. Click ‘Finish’.

V. HTML versions

- A. HTML 4
- B. XHTML
- C. HTML5

VI. Custom local domains using virtual hosts (requires terminal)

- A. `sudo pico /etc/hosts`
- B. enter the admin password
- C. add line: `127.0.0.1 pseudo.domain.local`
- D. press ^o ^x
- E. `sudo pico /Applications/MAMP/conf/httpd.conf`

```
#  
# Use name-based virtual hosting.  
#  
NameVirtualHost 127.0.0.1  
  
<VirtualHost 127.0.0.1>  
    DocumentRoot /Applications/MAMP/htdocs  
    ServerName localhost  
</VirtualHost>  
<VirtualHost 127.0.0.1>  
    DocumentRoot /Library/WebServer/Documents/project  
    ServerName pseudo.domain.local  
</VirtualHost>
```

- F. Restart servers.