## Lecture 31

Content Management and WordPress (Best for last?)

### Think About Workflow!

- Consider domains of expertise:
  - > Design art, communication, ...
  - > Systems CS, CIS, ...
  - Content writers, photographers, ...
- > First time up build a site.
- > From that moment forward
  - > Maintenance?
  - > Much much more than maintenance!

### A Site is Like a ...

- > A Book
  - > Major up front effort then walk away.
- > A TV Miniseries
  - > Effort over fixed period, then walk away.
- > A Good Newspaper
  - > What needs to be said today.
- > A Good Resturant
  - > Yesterday's food holds little appeal.

# More Newspaper than Book

- A website not in need of updating is a rare thing, and probably boring.
- > How does content get onto a site?
- ➤ It comes from people typically without deep web development skills.
- ... and they typically type in that content through a browser.

# The Big Change

#### **BCM** (Before Content Management)

Content added/modified using files on a server. No server access, no changing the site. Content providers need some degree of training. CT 310 is BCM focused.

#### **ACM(After Content Management)**

Content added/modified through a browser. Some degree of user access control is in place. Usually less training, more WYSIG in approach. Content typically in a database.

# The Argument

#### **BCM Pros**

- Security
   Content changes require server access/expertise
- Simplicity
   No complex superstructure
- Transparency
   Files equals pages

#### **BCM Cons**

Updating is hard!
 Content changes require server access/expertise

#### **ACM Pros**

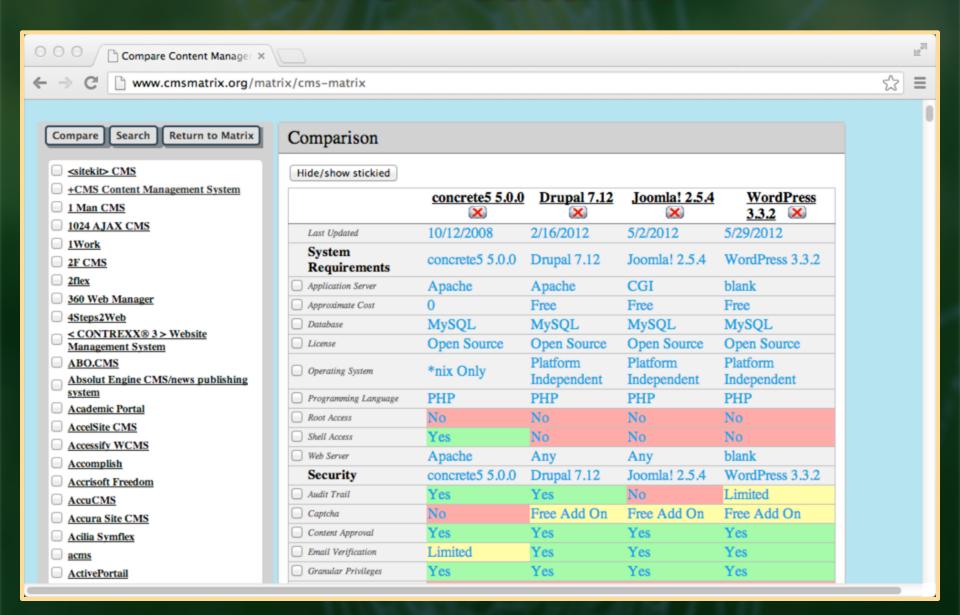
Updating is easy!
 Those responsible for content directly contribute

#### **BCM Cons**

- Complexity
   CMS Superstructure
- Obscurity
   Pages aren't files
- Security
   Site hacked through a browser

For all the ACM Cons, "Updating is easy!" wins. Expect to deploy some form of CMS in any project where real people are responsible for site content.

### CMS Features



Slide 7

# *Update* 2016

- > A crowded field!
- There are 1311 entries
- Perhaps use the site to get a Gestalt for available features

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### There is a Winner



#### Usage statistics and market share of WordPress for websites

This report shows the usage statistics and market share data of WordPress on the web. See <u>technologies overview</u> for explanations on the methodologies used in the surveys. Our reports are updated daily.

**WordPress is used by 59.4%** of all the websites whose content management system we know. This is 26.4% of all websites.

Request an extensive WordPress market report.

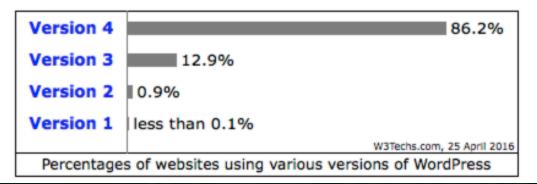
Learn more

#### Versions of WordPress

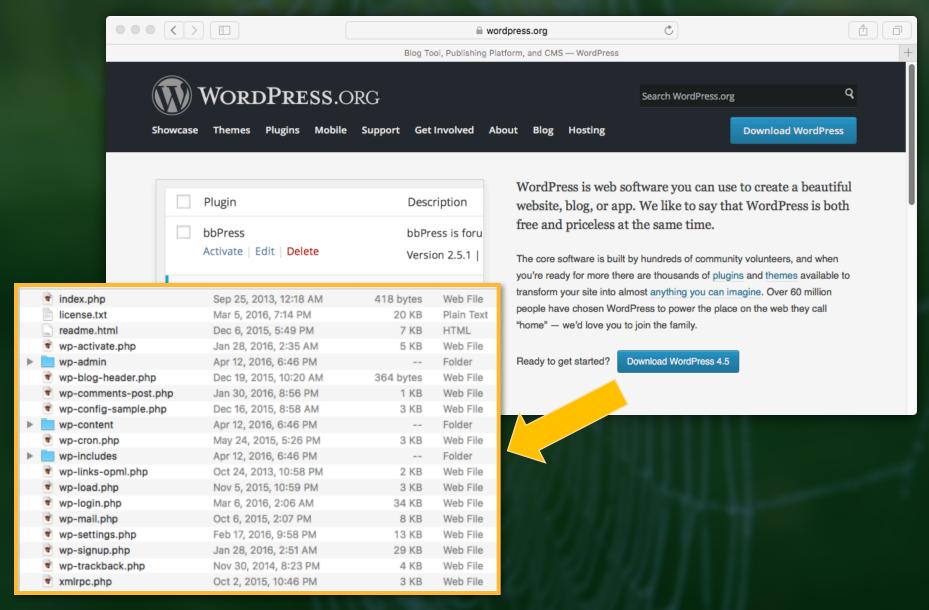
This diagram shows the percentages of websites using various versions of WordPress.

How to read the diagram:

Version 4 is used by 86.2% of all the websites who use WordPress.



### WordPress - Get It



# Follow The Handy Guide

Installing WordPress « WordPress Codex

#### Famous 5-Minute Install

Here's the quick version of the instructions for those who are already comfortable with performing such installations. More detailed instructions follow.

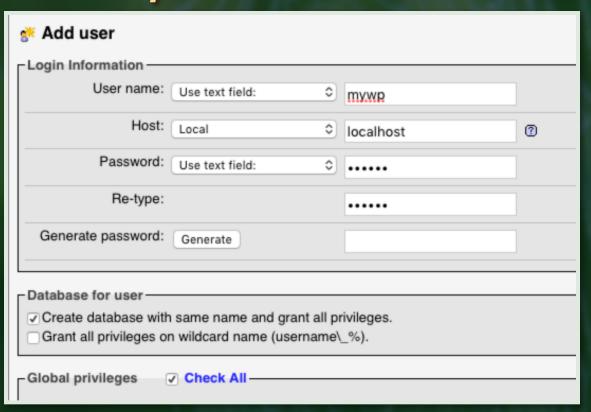
If you are not comfortable with renaming files, step 3 is optional and you can skip it as the install program will create the wp-config.php file for you.

- Download and unzip the WordPress package if you haven't already.
- Create a database for WordPress on your web server, as well as a MySQL (or MariaDB) user who has all privileges for accessing and modifying it.
- (Optional) Find and rename wp-config-sample.php to wp-config.php, then edit the file (see Editing wp-config.php) and add your database information.
- 4. Upload the WordPress files to the desired location on your web server:
  - If you want to integrate WordPress into the root of your domain (e.g. http://example.com/), move or upload all contents of the unzipped WordPress directory (excluding the WordPress directory itself) into the root directory of your web server.

- 8.3.1 WAMP
- 9 Installing WordPress at popular Hosting Companies
  - 9.1 Installing WordPress at Atlantic.Net
  - 9.2 Installing WordPress at AWS
  - 9.3 Installing WordPress at DigitalOcean
  - 9.4 Installing WordPress at Linode
  - 9.5 Installing WordPress at iPage Hosting
  - 9.6 Installing WordPress at Microsoft Azure
- 10 Installing through wp-cli
- 11 Moving an Existing WordPress
   Blog
- If you want to have your WordPress installation in its own subdirectory on your website (e.g. http://example.com/blog/),
   create the blog directory on your server and upload the contents of the unzipped WordPress package to the directory via FTP.
- Note: If your FTP client has an option to convert file names to lower case, make sure it's disabled.
- Run the WordPress installation script by accessing the URL in a web browser. This should be the URL where you uploaded the WordPress files.
  - If you installed WordPress in the root directory, you should visit: http://example.com/
  - If you installed WordPress in its own subdirectory called blog, for example, you should visit: http://example.com/blog/

### Don't try to read it here, we will step through the install process today.

# Step 2: New Database



CREATE USER 'mywp'@'localhost' IDENTIFIED BY '\*\*\*'; GRANT ALL PRIVILEGES ON \*.\*

TO 'mywp'@'localhost' IDENTIFIED BY '\*\*\*' REQUIRE NONE WITH GRANT OPTION

MAX\_QUERIES\_PER\_HOUR 0 MAX\_CONNECTIONS\_PER\_HOUR 0 MAX\_UPDATES\_PER\_HOUR 0

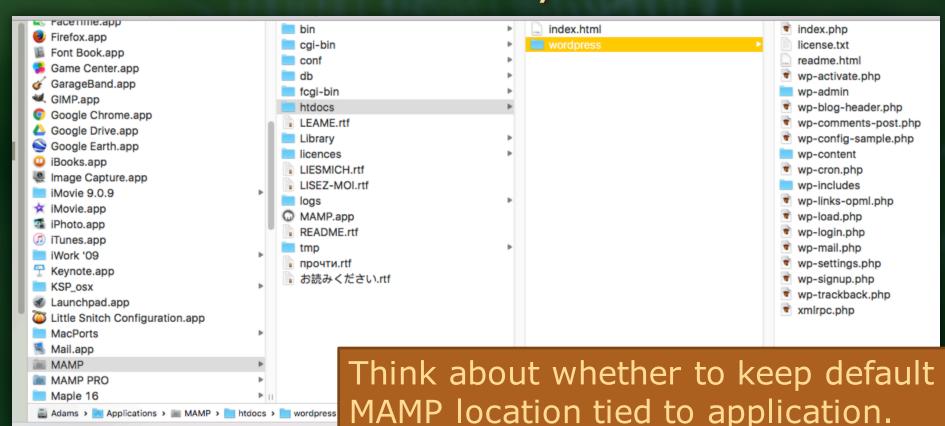
MAX\_USER\_CONNECTIONS 0;

CREATE DATABASE IF NOT EXISTS `mywp`;

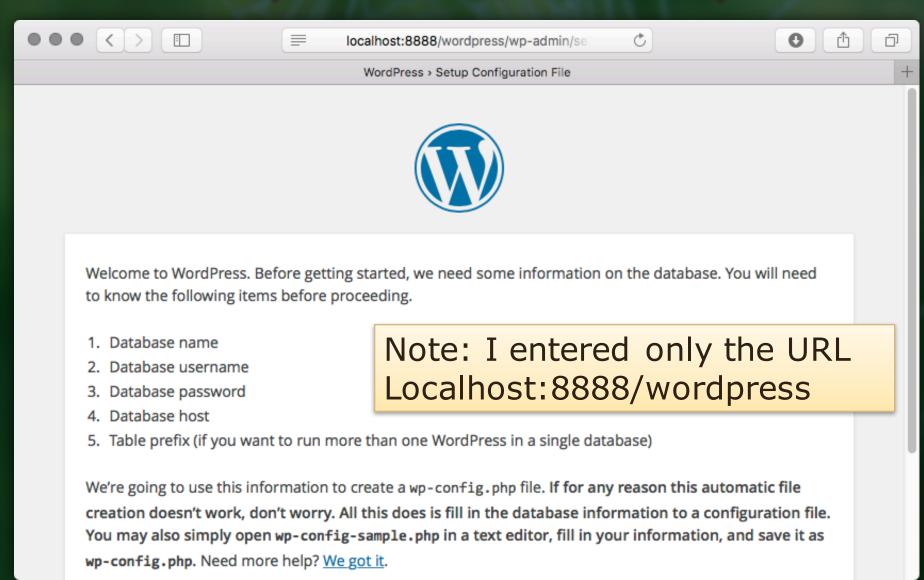
GRANT ALL PRIVILEGES ON `mywp`.\* TO 'mywp'@'localhost';

# Step 3: Move Download

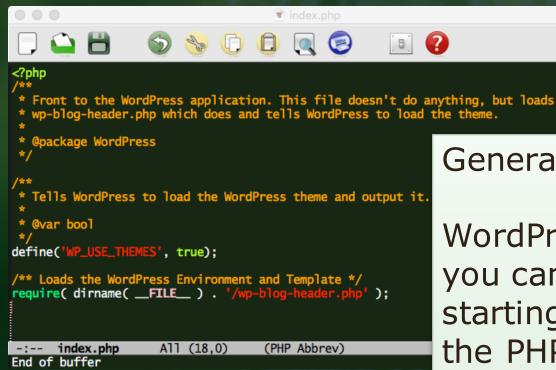
Place all WordPress files in your server's root directory.



# Step 4: Start Setup



# What Happened?

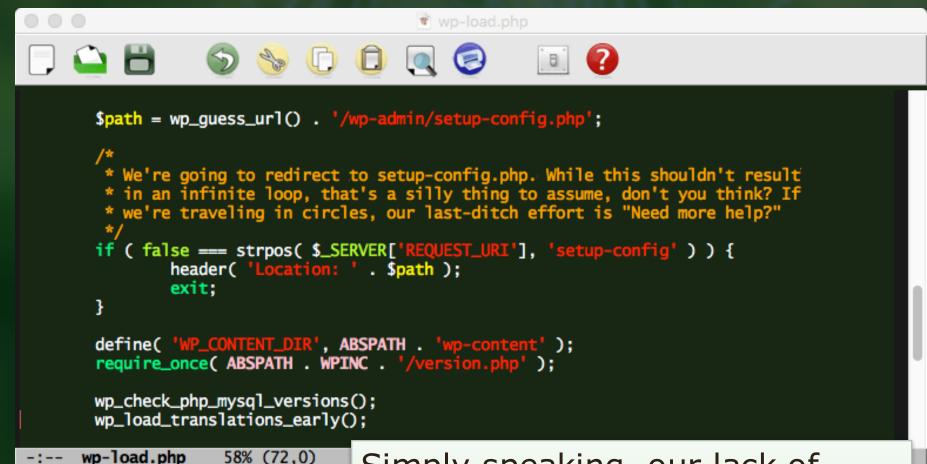


Generally, don't ask!

WordPress is not written so you can or should quickly starting messing with the the PHP!

But, in CT 310 you are aware enough of PHP that you should at least think about what is going on.

# Can't Help It- On More Peak



Simply speaking, our lack of DataBase setup is detected and

we're going to be asked to fix it.

#### Welcome

Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

#### Information needed

Please provide the following information. Don't worry, you can always change these settings later.

Site Title redpanda Username red Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol. Password M Hide DenverZooHamlet13 Strong Important: You will need this password to log in. Please store it in a secure location. Your Email ross.beveridge@colostate.edu Double-check your email address before continuing. Search Engine Discourage search engines from indexing this site Visibility It is up to search engines to honor this request.

# Step 4: Setup Complete

> Now connected to your database



#### Success!

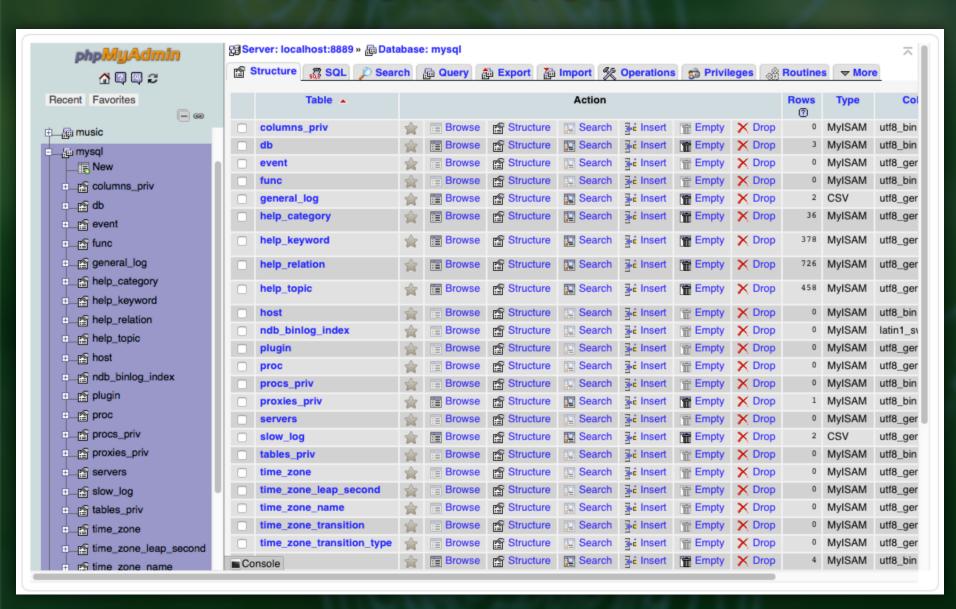
WordPress has been installed. Thank you, and enjoy!

Username red

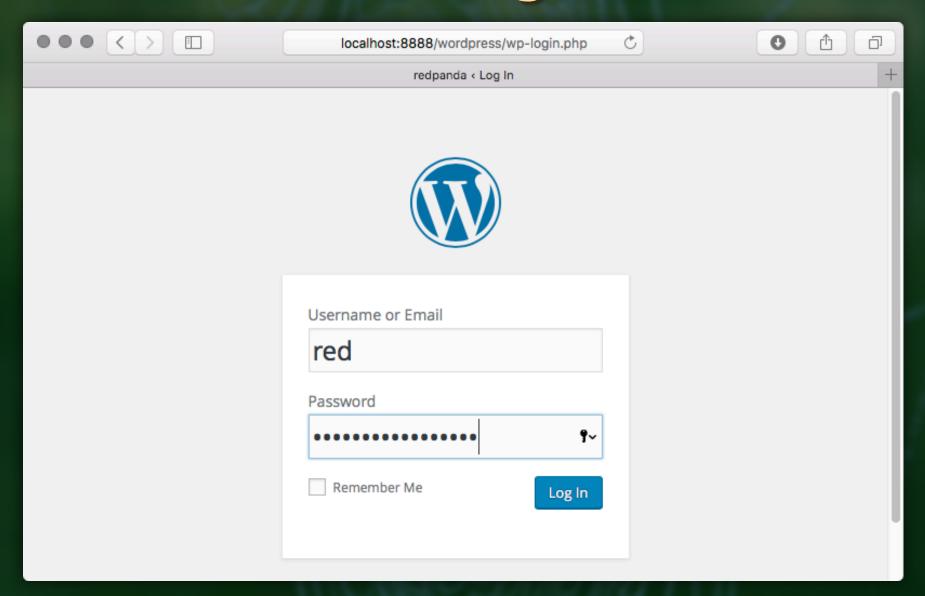
Password Your chosen password.

Log In

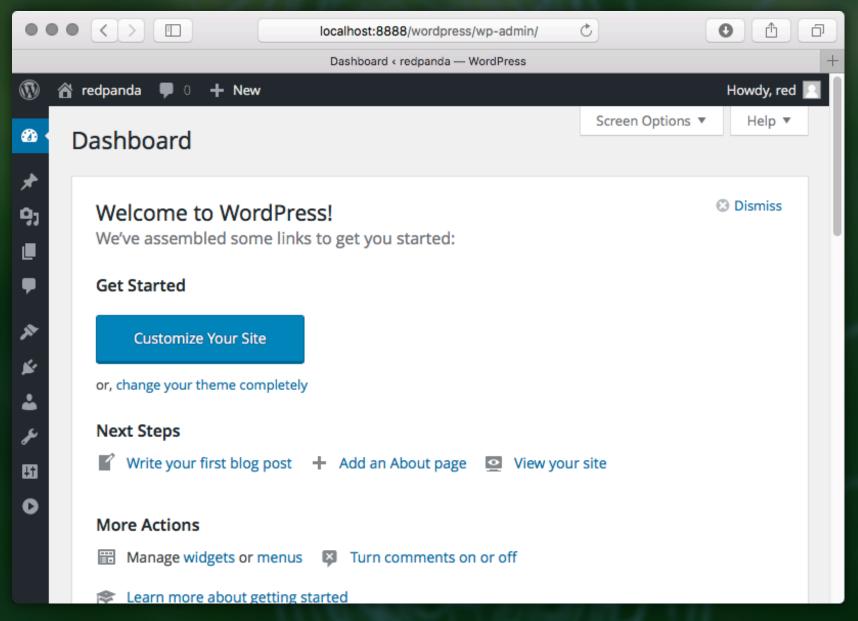
### Want Proof



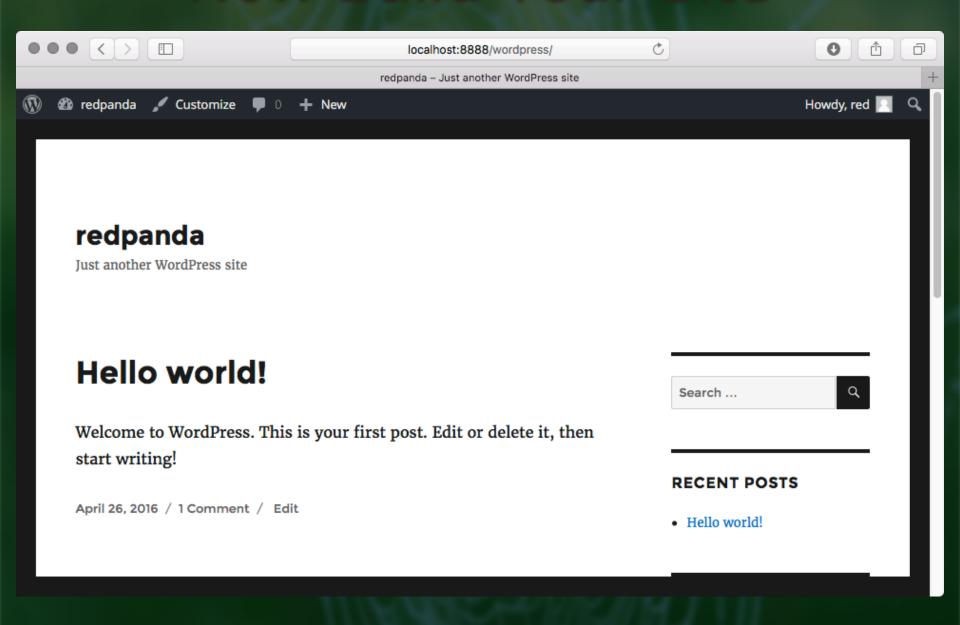
# Now Login



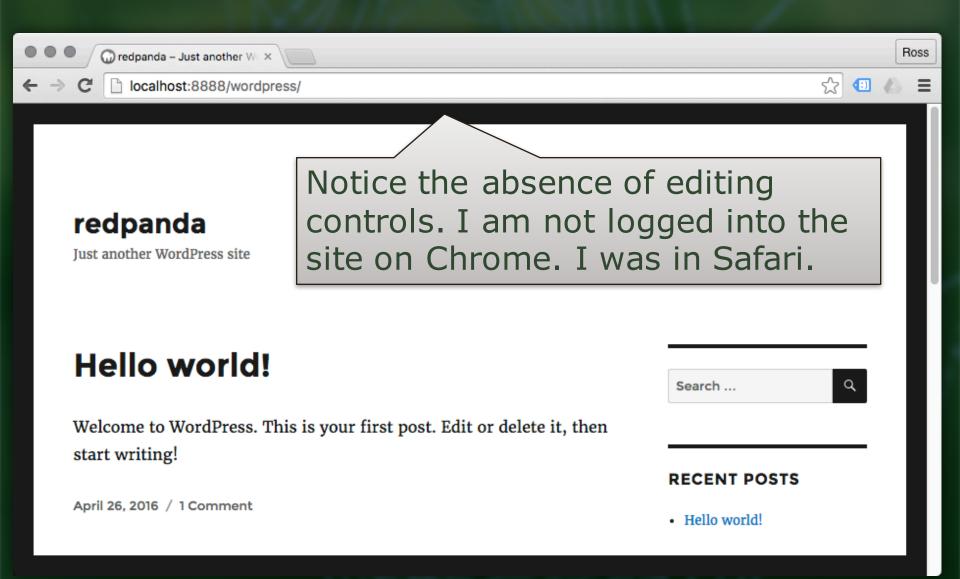
## Done? No! Just Started ...



### Now Build Your Site



### No You See It - Now ...



### WordPress: Two Views

How does it work inside?
Overall design
Use of MySQL
Use of PHP
Use of JavaScript
Use of jQuery
(Bootstrap Themes)

As students in CT 310 you could, with sufficient time and motivation, begin to decipher how WordPress is put together.

How do I use it?
Install (easy part)
Build out a site
What about themes
What about features
What about users
Maintenance

As students in CT 310 you have learned nothing about WordPress in particular and the rich ecosystem it supports.

Next lecture – a glimpse.