**Preliminaries**

Per our announcements over the past two class sessions, you should already have an OCF web account requested from <https://docs.ocf.berkeley.edu/wiki/Getting_an_account>

If you’re not using a lab computer, download and install:

1. a SSH tool like PuTTY <http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>
2. a FTP client like FileZilla <https://filezilla-project.org/download.php?type=client>
3. a text editor like Notepad++: <http://notepad-plus-plus.org/download/>

Everyone: download Wordpress to your desktop from <http://wordpress.org/latest.zip> and extract it here with 7-zip or winzip

**Create a map with CartoDB**

We’re going to visualize Bay Area craiglist rent data from mid-September of last year. First, create a new CartoDB account and load your data set to be visualized:

1. Go to <https://cartodb.com/signup>
2. When you’re done creating your account, click “create your first table”
3. Upload the rents\_cat.csv file
4. Click map view

Style the map:

1. Change the basemap at the top left
2. Click the “wizard” paintbrush icon on the right
3. Choose “category” and set the column to “price\_sqft\_cat”
4. Change the symbology to color the markers in each category

Style the informational popups:

1. Click the infowindow icon on the right
2. Under the “click” and “hover” tabs, turn on the values for neighborhood, price, sqft, and price\_sqft
3. These now appear as pop up values when you hover over or click a data point

Prepare your visualization for sharing:

1. Click the “visualize” button on the top right
2. Give it a name
3. Click the share button in the top right. We’ll use this embed code later.

**Set up Wordpress**

First we’ll check if the web space set up properly for hosting a Wordpress blog. Go to <https://docs.ocf.berkeley.edu/wiki/Web_application_checklist> and follow the instructions to confirm your web space is set up correctly.

Next, we’ll upload the Wordpress application files to our web space:

1. Open FileZilla to connect by FTP to your site
   1. Click the Site Manager icon on the top left
   2. Click New Site and provide it a name like “ocf”
   3. Host: ssh.ocf.berkeley.edu
   4. Protocol: SFTP
   5. Logon Type: Ask for password
   6. User: your OCF username
   7. Click the connect button
   8. Uncheck “remember password” for your security on these shared lab computers
2. Double-click the public\_html folder
3. Open the Wordpress folder on your desktop
4. Select all the files in this folder and drag them into the public\_html folder in FileZilla to upload them to your public web space

Next, you’ll need to set up a MySQL database to contain your Wordpress settings and content. Go here for an overview of the steps: <https://docs.ocf.berkeley.edu/wiki/MySQL_support#Creating_a_MySQL_database>

1. Go to your PC’s start menu and open PuTTY
   1. The host name will be [YourUsername@ssh.ocf.berkeley.edu](mailto:YourUsername@ssh.ocf.berkeley.edu)
   2. The port is 22
   3. The connection type is SSH
2. At the PuTTY command prompt, type: makemysql
3. Type yes when prompted, then copy down your randomly-generated password somewhere safe
4. Keep in mind that you now have 2 passwords: an OCF account password and a MySQL password

Now we’ll configure Wordpress to work with your new MySQL database:

1. In FileZilla, go to the public\_html folder and delete the file called wp-config-sample.php
2. On your desktop, open the wordpress folder and rename wp-config-sample.php to wp-config.php
3. Right-click wp-config.php and open it in Notepad or Notepad++
4. Edit the values for DB\_NAME, DB\_USER, DB\_PASSWORD, and DB\_HOST with the values explained here: <https://docs.ocf.berkeley.edu/wiki/Web_application_checklist#Do_you_know_your_MySQL_database_login_information.3F>
   1. Database Name = your OCF username
   2. User = your OCF username
   3. Password = your MySQL password
   4. Host = mysql
5. Save the php file and close it
6. Select wp-config.php in the desktop/wordpress folder and drag it into the public\_html folder in FileZilla
7. In FileZilla, right-click wp-config.php and choose File Permissions. Set the numeric value to 600.

Lastly, we’ll finish setting up the Wordpress blog:

1. Go to <http://www.ocf.berkeley.edu/~your-username/>
2. Enter your information, then hit Install Wordpress

**Your first blog post**

Add your visualization to a new blog post:

1. From the Wordpress dashboard, hover over “Posts” and click “Add new”
2. Give your blog post a title
3. Click the “text” button on the top right to switch to the plaintext editor
4. Copy and paste your embed link from CartoDB
5. Click the “visual” button to switch back to the visual editor
6. Add some text to explain your visualization: “This is a map of Craigslist rents around the Bay Area. I made it in CP255 class today!”
7. Click publish

Make your blog your own:

1. Delete the default “Hello World” blog post by going to Posts > All Posts and clicking “Trash” under the Hello World blog post.
2. Change the default “Sample Page” to an About Me page by going to Pages > All Pages, then editing the Sample Page.
3. Change your Wordpress theme to make it look nicer: <https://wordpress.org/themes/>