

# HACK UNIVERSITY

< WEB DEVELOPMENT />

WWW.HACKUNIVERSITY.COM

# HACK



## UNIVERSITY

< WEB DEVELOPMENT />

**WEEK 0**  
GETTING OUR BEARINGS



TODAY



## Course overview

- Where to expect you'll be at different points in the semester

## Getting set up

- Getting a suitable text editor
- Getting the right web browser
- Joining the Lore

# COURSE OVERVIEW

# WHO WE ARE

Zack Reneau-Wedeen, '14

- Director, HackYale
- Brewster / Appraisers Advantage / Yale Taxi Stand

Bay Gross, '13

- Co-Founder, HackYale
- Amicus / Travelogue / SubletMeYale / EssayTyper
- And most importantly...[isitchickentendersday.com](http://isitchickentendersday.com)

# MORE SUPPORT

The HackYale Team

- More things built
- on [hackyale.com](http://hackyale.com)

# WHY HACKYALE?

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Good ideas + good developers =  
good tech companies

- Yale ⊃ many students with good ideas
  - Yale ⊂ many students who can implement those ideas
-

**“***But it's not that probable that I'm going to make an awesome dynamic web app in only a semester while I take a bunch of other classes and I double major and I try to set up a summer internship/job after college and I stress about my love life and I don't call my friends from home enough and I worry about whether or not those ants in the corner of my common room are breeding!”*

**Fair Point.**

*“But it’s not that probable that I’m going to make an awesome dynamic web app in only a semester while I take a bunch of other classes and I double major and I try to set up a summer internship/job after college and I stress about my love life and I don’t call my friends from home enough and I worry about whether or not those ants in the corner of my common room are breeding!”*

# WHY THE FRONTEND CLASS?

- You want to learn how to build pretty, static websites.
- You want to use it as a jumping off point to learn more and build dynamic sites, maybe even this semester.
- You're a master designer who wants another canvas on which to display that.



## COURSE GOALS

WHAT SHOULD YOU EXPECT

# COURSE OUTCOMES

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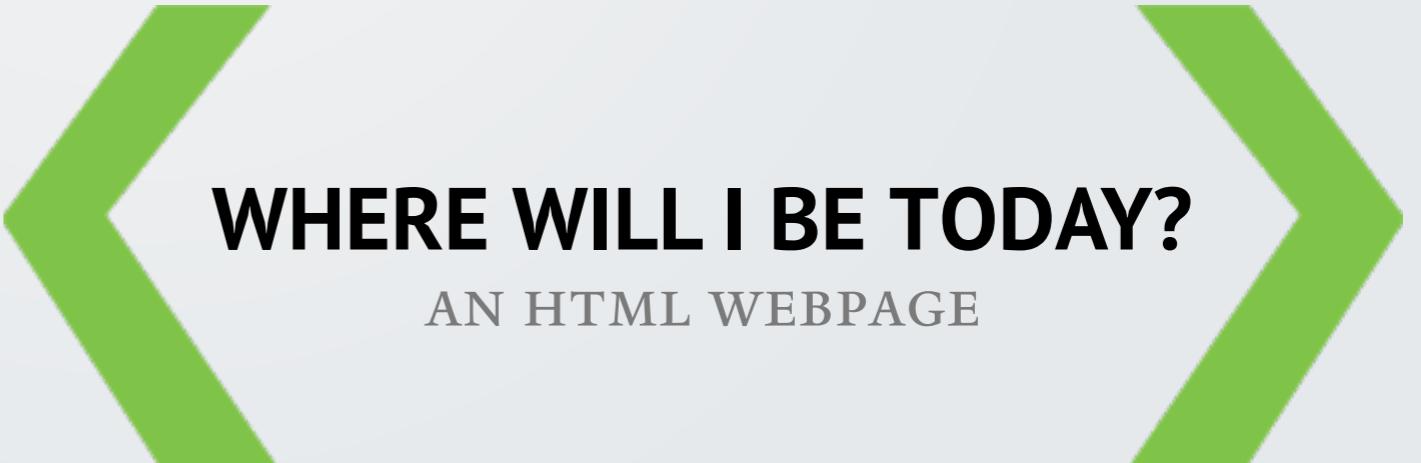
Practical, not as theoretical /  
academic as a Yale CS class

- Zero -> prototype
  - Not training CTOs
  - Preparing you with the tools to train  
yourself to do whatever you want
-

# COURSE GOALS

Focus on processes and psychology of web development more than content

- Learn by doing; learn by immersion. Lots of implementation, lots of coding
- Memorization as the emergent byproduct of experience
- Making you aware of key resources with which to help yourselves



**WHERE WILL I BE TODAY?**

AN HTML WEBPAGE



# HTML

## Welcome To HackYale!

This course will focus on front end technologies

- HTML
- CSS
- JavaScript

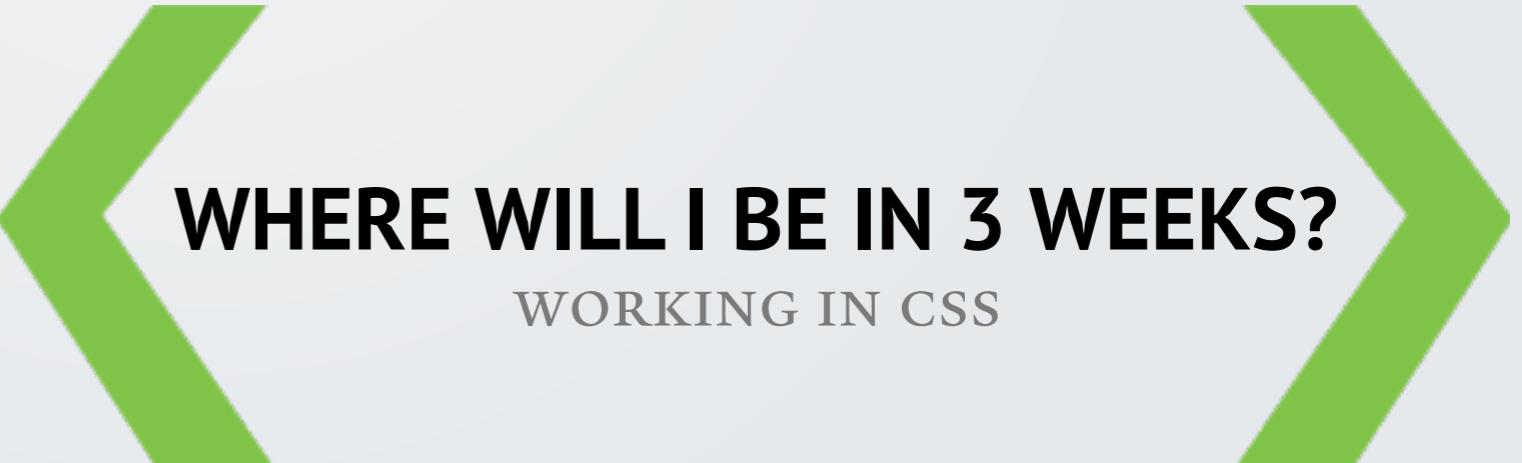
### HTML

HTML is the *content* of the web. Without it, none of your favorite sites would exist. You can write links to places like [Google](#), [The New York Times](#) or anywhere you like!

If you go to the 'view' menu in chrome, scroll to 'developer', and click 'view source', you can see the HTML (among other things) that your browser rendered. (shortcut: command + option + u.)

This page is just HTML (except for some browser defaults, but we'll get to those later).

Next, let's check out [CSS](#).



**WHERE WILL I BE IN 3 WEEKS?**

WORKING IN CSS



# CSS



## Welcome To HackYale!

This course will focus on front end technologies

HTML  
CSS  
JavaScript

### CSS

CSS is the *style* of the web.

With CSS, you can color, arrange, and generally style your page. In addition, you can add small amounts of dynamic activity, like the underline you'll see as the mouse hovers over the "JavaScript" link.

Next, let's check out [JavaScript](#).



**WHERE WILL I BE IN 6 WEEKS?**

READY FOR SOME JAVASCRIPT

# JAVASCRIPT

## Welcome To HackYale!

This course will focus on front end technologies

- HTML
- CSS
- JavaScript

### JavaScript

- JavaScript is the **Logic** of the web.

- Javascript, unlike HTML and CSS, is a real (and robust) programming language. With JavaScript, you can react to events, build classes (don't worry if you don't know what this means quite yet), and create dynamic web pages.

- Let's **make it rain** right quick and then check out **what is really going on** with that HTML stuff.

# GETTING SET UP

# TEXT EDITOR

- The place where you write your code.
  - Some good ones: Vim, Emacs, Sublime Text 2, TextMate.
  - It is really nothing more than a program you write in to store sequences of letters (text) on your computer.
- Official class text editor: Sublime Text 2
  - Free (unlike TextMate), easier to learn than Vim and Emacs.

# TEXT EDITOR

- The place where you write your code.

➤ Some good ones: Windows, Emacs, Sublime Text 2, TextMate.  
**LET'S GET IT**

- Official class text editor: Sublime Text 2
- Free (unlike TextMate), easier to learn than Vim and Emacs.

# WEB BROWSER

- A program to surf the web and develop websites
  - Some good (and less good) ones: Chrome, Safari, Firefox, Opera, Internet Explorer.
- Official class web browser: Google Chrome
  - Super fast, good support for new standards, great developer tools.

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**LET'S GET IT**

# LORE

- A web application for course management
  - Like ClassesV2
  - Used to be called CourseKit

# LORE

- A web application for course management

- Liked Classes Hub
- Used to be called Coursekick

# LET'S JOIN



[join.lore.com/VCXPCW](https://join.lore.com/VCXPCW)

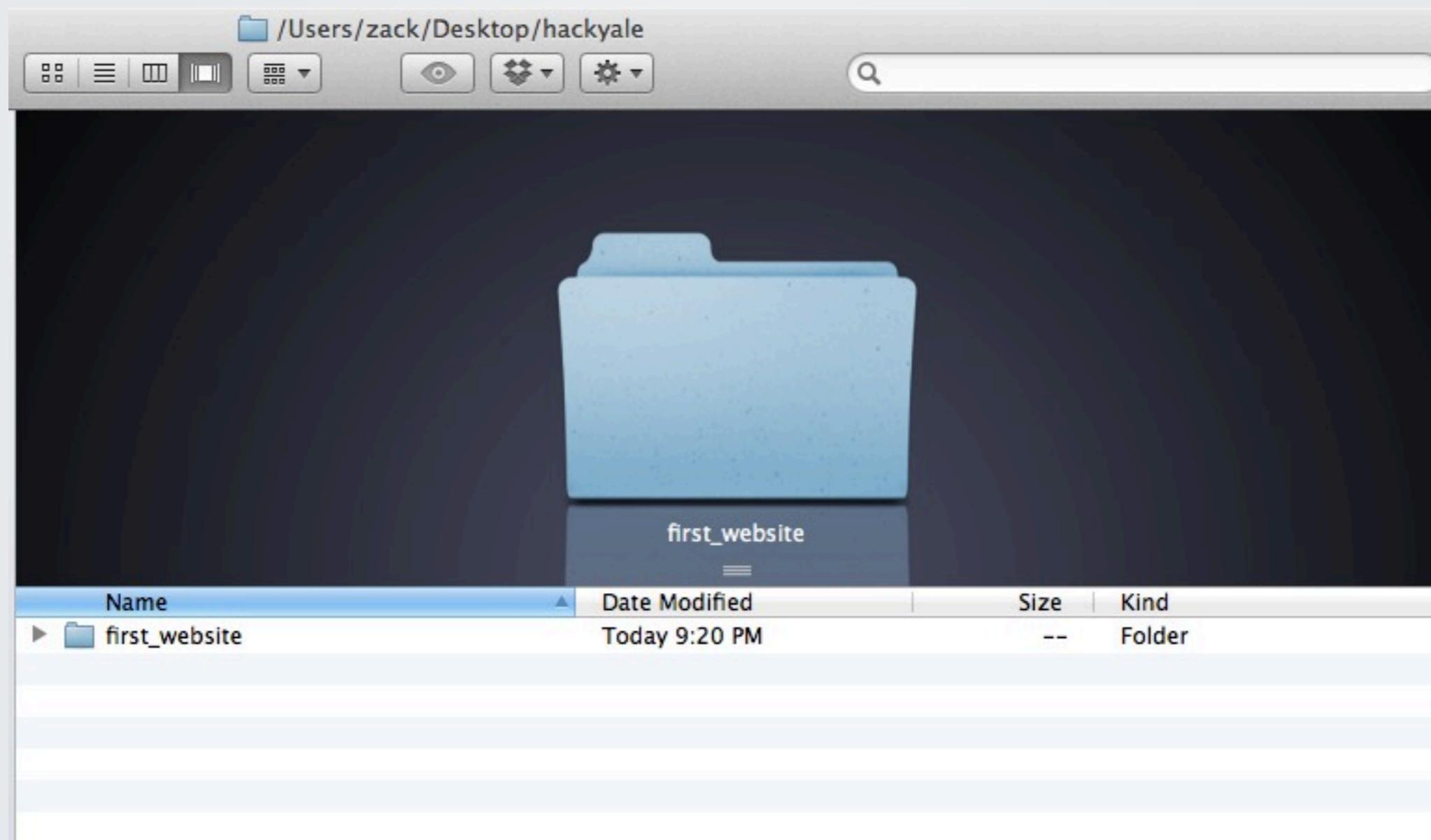


## QUICK NOTE: MAC VS. PC

ALL EXAMPLES AND SCREENSHOTS ARE  
PERFORMED AND TAKEN ON MACS.  
HOWEVER, EVERYTHING WE DO IN THIS  
CLASS SHOULD BE PRETTY MUCH THE SAME  
FOR THOSE OF YOU ON PC.

# OUR FIRST WEBPAGE

# MAKE A HACKYALE PROJECT

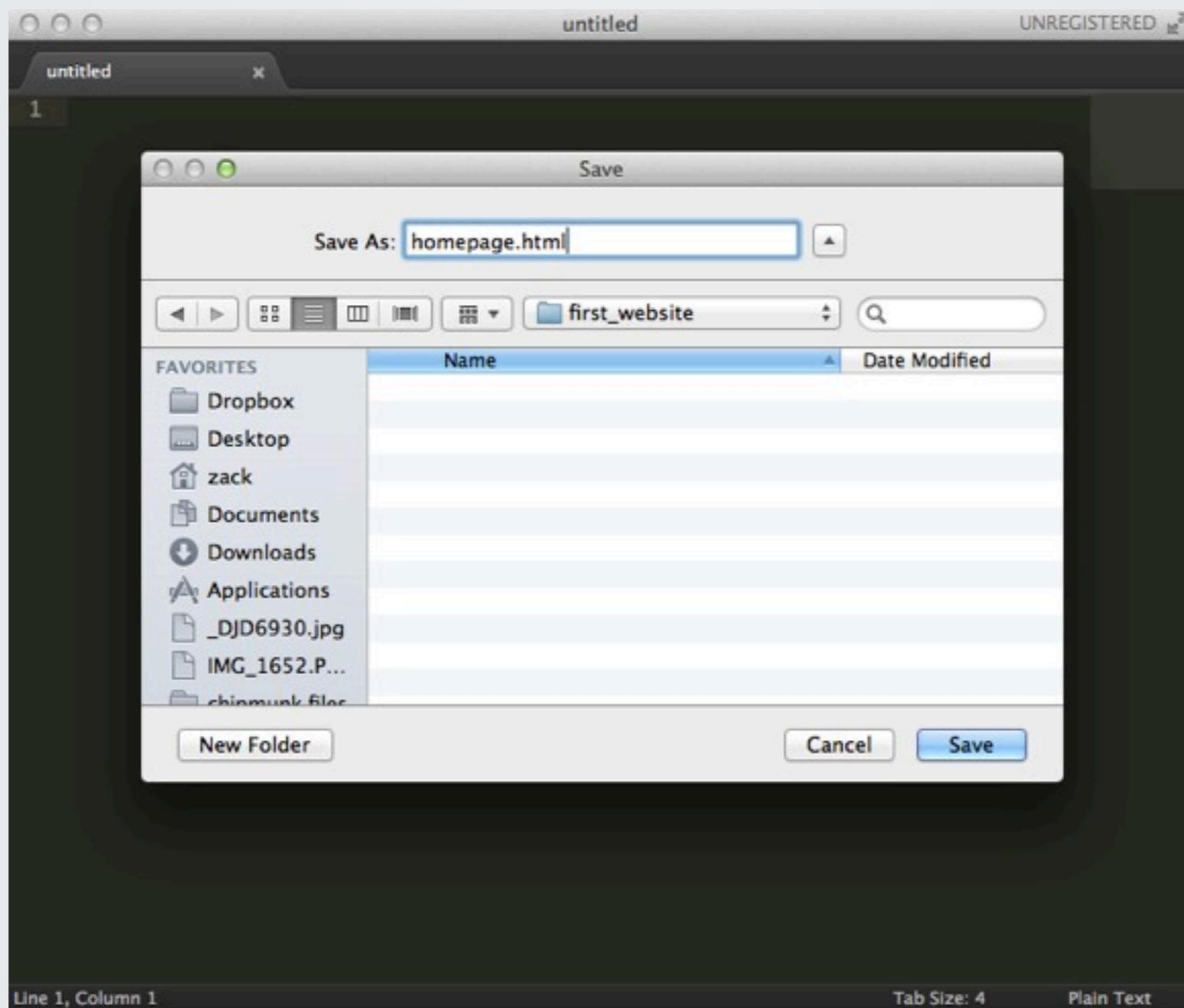


**HACK>**  
UNIVERSITY

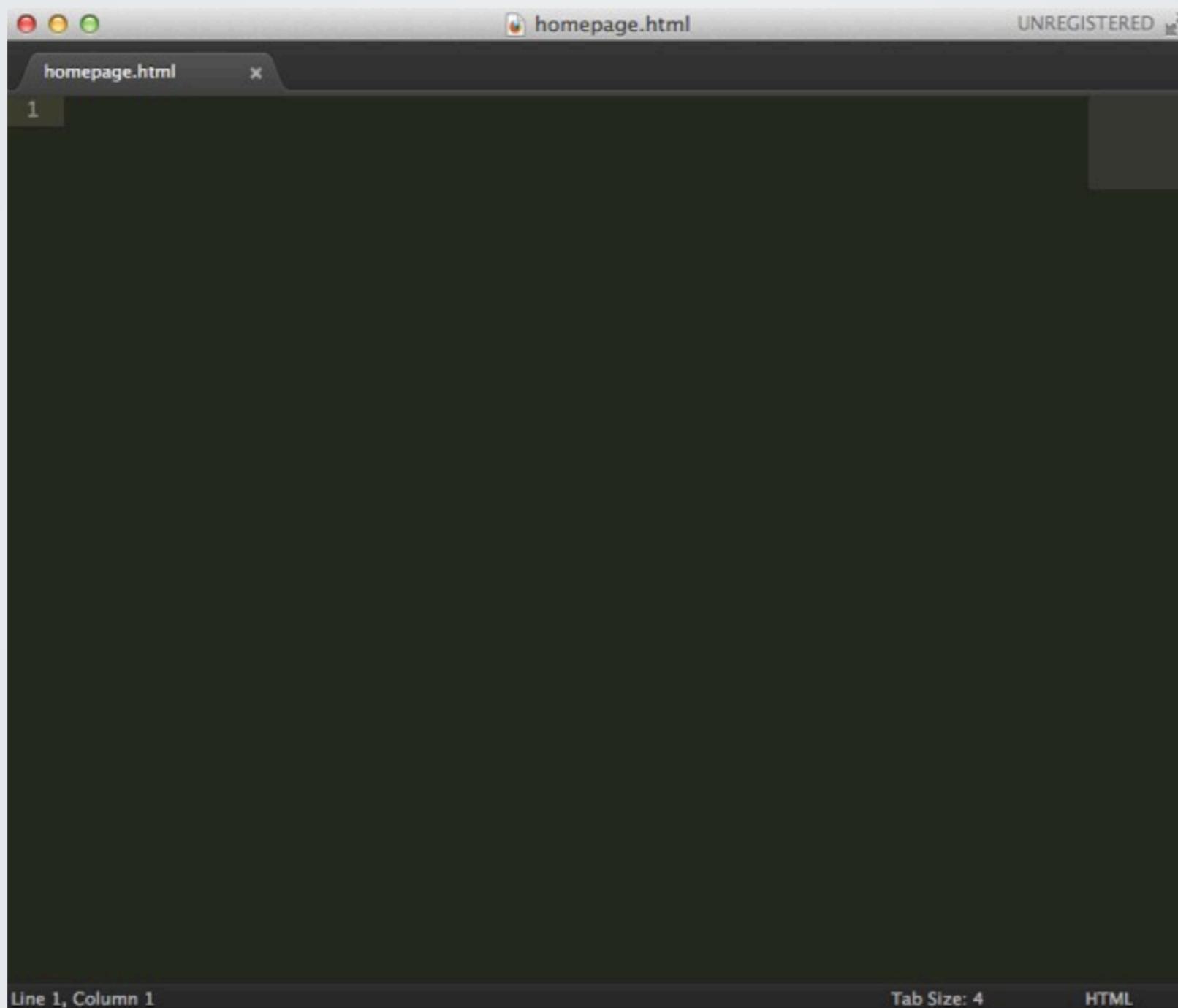
# OPEN SUBLIME TEXT



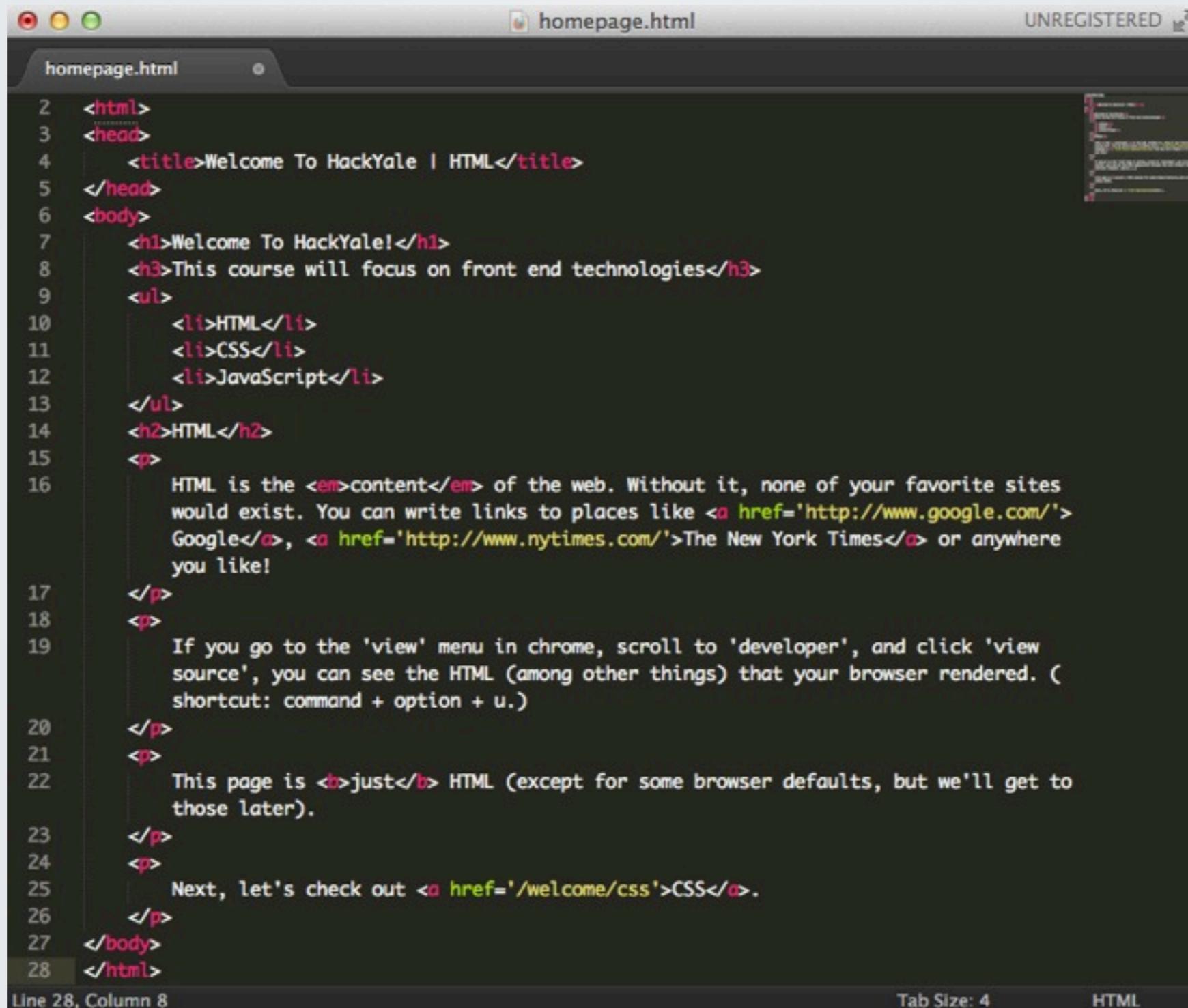
# SAVE THE NEW FILE IN YOUR PROJECT FOLDER



# YOUR HTML FILE



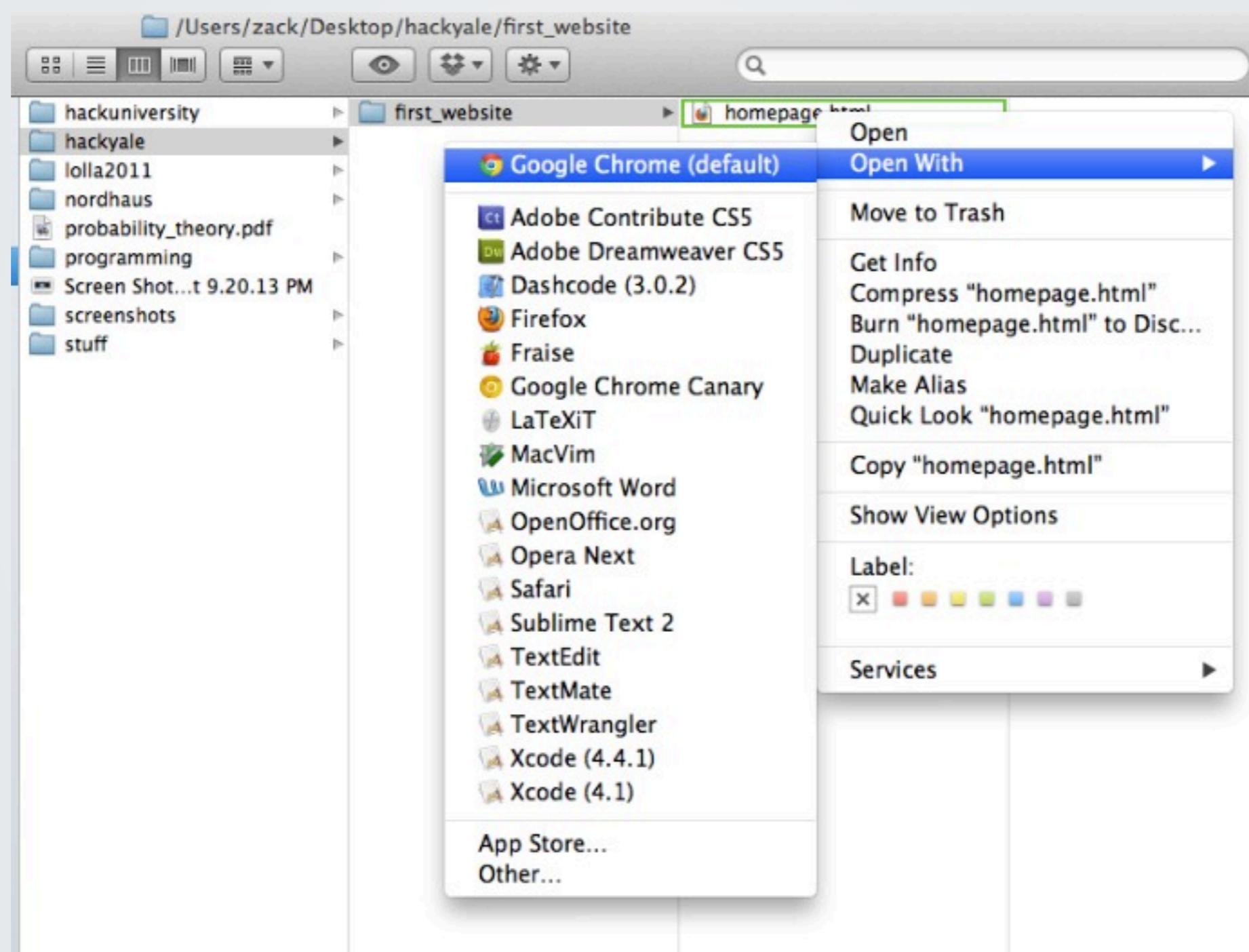
# TYPE YOUR HTML



```
homepage.html
1 <html>
2   <head>
3     <title>Welcome To HackYale | HTML</title>
4   </head>
5   <body>
6     <h1>Welcome To HackYale!</h1>
7     <h3>This course will focus on front end technologies</h3>
8     <ul>
9       <li>HTML</li>
10      <li>CSS</li>
11      <li>JavaScript</li>
12    </ul>
13    <h2>HTML</h2>
14    <p>
15      HTML is the <em>content</em> of the web. Without it, none of your favorite sites
16      would exist. You can write links to places like <a href='http://www.google.com/'>
17      Google</a>, <a href='http://www.nytimes.com/'>The New York Times</a> or anywhere
18      you like!
19    </p>
20    <p>
21      If you go to the 'view' menu in chrome, scroll to 'developer', and click 'view
22      source', you can see the HTML (among other things) that your browser rendered. ( 
23      shortcut: command + option + u.)
24    </p>
25    <p>
26      This page is <b>just</b> HTML (except for some browser defaults, but we'll get to
27      those later).
28    </p>
29    <p>
30      Next, let's check out <a href='/welcome/css'>CSS</a>.
31    </p>
32  </body>
33 </html>
```

Line 28, Column 8      Tab Size: 4      HTML

# OPEN THE FILE WITH GOOGLE CHROME





# WOOHOO!



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# ADMIN

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- ▶ Coding Homework
  - ▶ None today! (unless you're extra curious)
  - ▶ Usually weekly assignments

# ADMIN

## ➤ Support Groups

- Small groups you can direct questions to
- More on that to come

# ADMIN

## ➤ Workshops

- Join the mailing list
- Stay tuned!

# ADMIN

- Showcase
  - A special spot in hackyale for some of the most creative projects

# IF YOU'RE EXTRA CURIOUS

w3schools.com

- Bad site for anything advanced
- Good resource for true beginners
- Make something cool!

# THANKS!



# HACK UNIVERSITY

QUESTIONS EVEN GOOGLE CAN'T ANSWER?

TEAM@HACKYALE.COM

WWW.HACKUNIVERSITY.COM