

WEEK 10 | DESIGN USER INTERFACE ELEMENTS

Shawn Park & Jeff Zhan

Announcements

- Grades ~ 80% ready
 - Did not take into account excused absences
 - Let us know if you find any errors
 - < 75 is in danger of failing
- Final Project Check-in this weekend
 - Please fill out the form if you haven't already!
- Extra Topics Lectures:
 - Introduction to Backend Web Development (Probably Django)
 - Deploying your website via Github

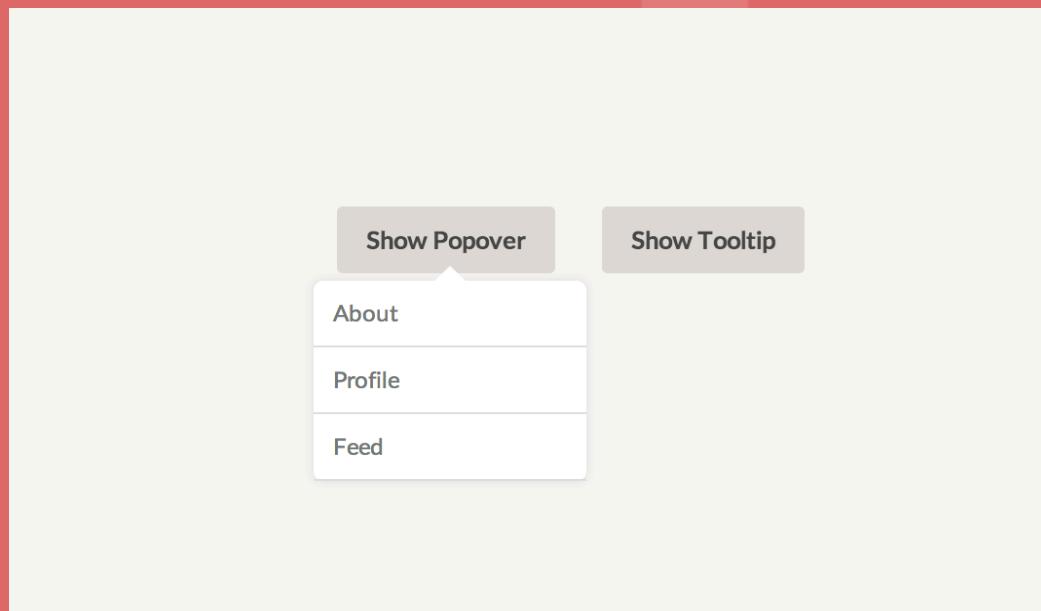


Today

- A tutorial on some of the popular user interface elements
 - Popover & Tooltips
 - Masonry
 - Sticky Nav
- Think of it as a recap of Jquery lectures
- Hands-on focused lecture!

Popover

- Used to convey additional information upon user request
- Variation of a dropdown menu
 - Respond to click or a hover event
 - Example: Facebook user profile popovers



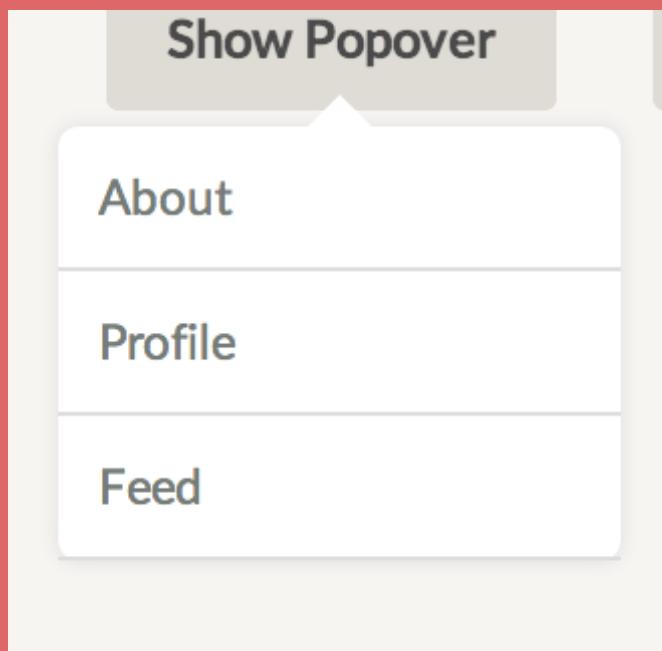
Tooltip

- Used as a caption for images or buttons
 - Consider having a tooltip when you have ambiguous buttons that require captions
 - Usually used with Twitter Bootstrap



Creating Popovers & Tooltip

- 2 sections: Arrow & Content, stacked vertically.
- Content is same old CSS... but what about the arrow?



Arrow

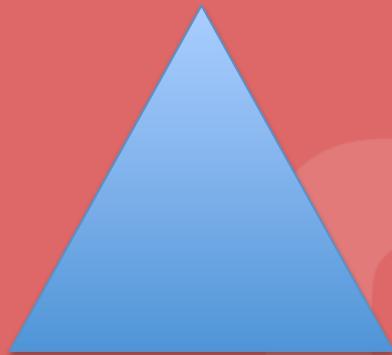
Content

About (Item Class)

Profile (Item Class)

Feed (Item Class)

Triangle in CSS



Base

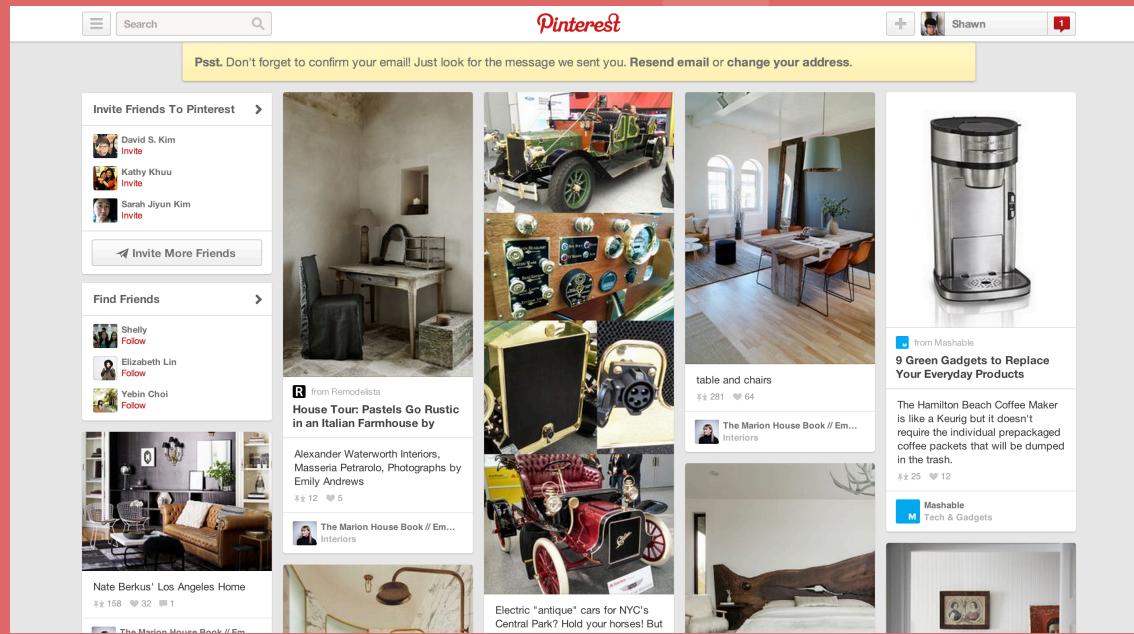
- Set sides that are not base to <size> solid transparent
- Set the base to <size> solid <color>
- Set width and height to 0px
- For the example:
- Border-left: 5px solid transparent; Border-right: 5px solid transparent;
- Border-bottom: 5px solid blue;

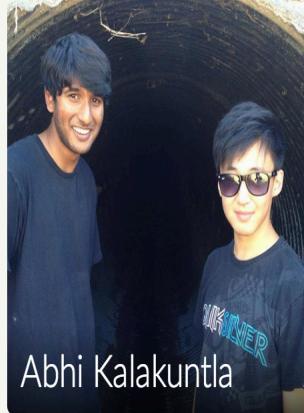


Hands-on: Popover & Tooltips

Masonry (Pinterest-style Grid)

- Useful when building image-heavy websites
 - Allows you to preserve proportions of your images
 - Try not to use for text-heavy websites since it lowers readability





Abhi Kalakuntla



Shawn Park



Rachit Nanda



Jeff Zhan



Sarah Kim



What happens when you float elements?



Andy Qin



IU

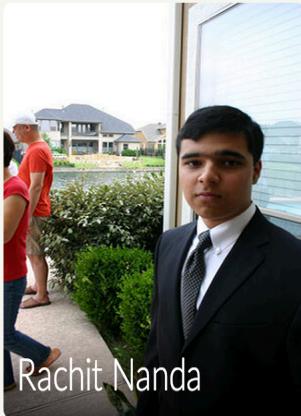




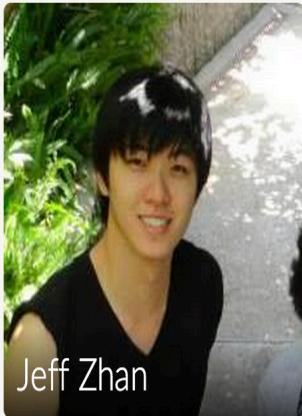
Abhi Kalakuntla



Shawn Park



Rachit Nanda



Jeff Zhan



Sarah Kim



Philip Su



Andy Qin



Ingrid Hong

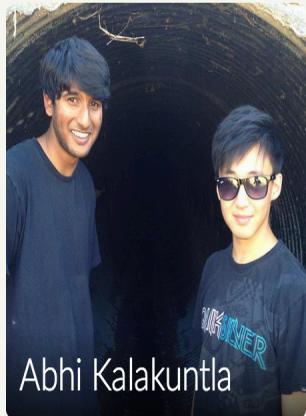


What happens when you enforce a fixed grid?

IU



Kevin Liang



Abhi Kalakuntla



Shawn Park



Rachit Nanda



Jeff Zhan



Sarah Kim



Philip Su



Ingrid Hong



Andy Qin



IU
This is what we want



Abhi Kalakuntla



Kevin Liang

Jquery Masonry

- Implemented using Jquery Masonry plugin
- Automatically generates the position of the elements via position: relative on container and position: absolute on individual items



Sticky Nav

- Navigation bar that starts off at the bottom of the page & sticks to the top when the user scrolls beyond certain position.
- Popular for landing pages & one-page scroll websites
- Combines the advantages of:
 - Emotional appeal from large cover photo
 - User Experience from immediate accessibility of navigation elements



Site Files style index

"container"

Replace

Replace All



Roka Documents TWDW new_site index.html Preview

```
1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
2     "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
3 <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
4 <head>
5     <meta http-equiv="content-type" content="text/html; charset=utf-8"/>
6     <link rel="stylesheet" type="text/css" href="assets/style.css" />
7     <script type="text/javascript" src="assets/jquery-1.8.3.min.js" charset="utf-8"></script>
8     <script src="assets/jquery-ui-1.9.2.min.js"></script>
9     <script type="text/javascript" src="assets/script.js" charset="utf-8"></script>
10    <title>THE WEB DESIGN WORKSHOP</title>
```

```
11 </head>
12 <body>
13     <div id="cover">
14         <div id="cover_container">
15             <div id="cover_content">
16                 <div id="cover_title">Web Design DeCal</div>
17                 <div id="cover_subtitle">Become a Designer who can Code.</div>
18                 <div id="cover_action">Apply Now</div>
19             </div>
20         </div>
21     </div>
22     <div id="content">
23         <div id="content_title_container">
24             <div id="content_title">About Class</div>
25         </div>
26         <div id="about_main" class="about_item">
27             <div id="about_main_hero">
```

Web Design DeCal

Design Meets Programming.

Week 9 Check-in

Right Sidebar
<div id="right"> <!--the right section--><div id="side...>

Right Sidebar - CSS
#right { /*The right side of the site, including sidebar2 an...

RightList
<div> <!--the feed labels--> <div id="labelListHead" cl...

Head Toolbar
<div class="head_toolbar_c...

Addbox JS
\$('#addbox_input').typeahead({
 source: function(typeahe...

Addbox PHP
function search_typeahead() {
 \$query_string = \$th...



Web Design DeCal



About Class



Curriculum



Schedule



Instructors

Build your own website. A sexy one.

Navigation in original position

Students will be introduced to various design philosophies in web design, including spacing, color, and positioning, which are

essential to designing a beautiful and intuitive websites. We will also cover modern design trends like responsive design, flat UI and skeumorphism. Using these philosophies, students will learn how to make a website using HTML 5 and CSS 3. We will cover Javascript and JQuery at the end of the course to make dynamic elements.

It is important to note that this course is a design only course - meaning we will not cover the server-side details like Django and PHP. By the end of the course, you will be able to design a website like those featured on Siteinspire.

(<http://www.siteinspire.com>)

```
<div id="cover">
  <div id="cover_container">
    <div id="cover_content">
      <div id="cover_title">Web Design DeCal</div>
      <div id="cover_subtitle">Become a Designer who can Code.</div>
      <div id="cover_action">Apply Now</div>
    </div>
  </div>
<div id="content">
  <div id="content_title_container">
    <div id="content_title">About Class</div>
  </div>
  <div id="about_main" class="about_item">
    <div id="about_hero">
      <h1>The Web Design Workshop is a 2 Unit class taught in Fall 2013 at UC Berkeley. It is designed for both students with no programming experience + learning to make a website. </h1>
      <h1>It is designed for both students with no programming experience + learning to make a website. </h1>
    </div>
    <div id="about_description"><p>Students will be introduced to various design philosophies in web design, including spacing, color, and positioning, which are essential to designing a beautiful and intuitive user interface. We will also cover modern design trends like responsive design, flat UI, and skeumorphism. Using these philosophies, students will learn how to make a website using HTML, CSS 3. We will cover Javascript and JQuery at the end of the course to make dynamic elements. </p>
    <p>It is important to note that this is a non-technical course - meaning we will not cover the server-side details like Django and PHP. By the end of the course, students will have a basic understanding of how a website works and be able to create their own. </p>
  </div>

```



Workload



Time



Location

2 Units

THU 7-9P

60 Evans

Design Section

Navigation when the user scrolls past a certain position

In Design Section, we will spend a lot of time looking at other well designed websites, notably those featured on Siteinspire. We will start each class with a website of the day. Students are encouraged to suggest their own website of the day.

Specifications for Sticky Nav

- Navigation starts off at its original position
- When the user scrolls beyond a certain position...
 - Make the navigation bar stick to the top.
- When the user scrolls back up...
 - Put the navigation bar back to its original position
- This can be formulated as if-else statement!
- A few questions to answer:
 - How do we detect “scroll” event?
 - How do we make the navigation bar stick to top?



Hands-on: Sticky Nav