



INFORMATION ORGANIZATION LAB

# LAST TIME ON IOLAB

- **Project I Tips & More**
  - jQuery, Callbacks, AJAX, XSS
- **Web Standards/Practices & HTML5**
  - Semantic HTML & Accessibility, HTML5
- **AI Feedback**
- **Class Survey**

TODAY

**HTML**



**CSS**



# DEMOS

<http://courses.ischool.berkeley.edu/i290-iol/fl2/resources/html5/>

# HTML



# NEW TAGS & FEATURES

- header, footer
- menu, nav
- section, article
- figure
- new input types
- placeholder text
- localStorage
- GeoLocation API
- web video
- web audio
- 3D, graphics, effects
- web sockets

# EXAMPLES

Moving toward more semantic HTML

HTML4	HTML5
<code>&lt;div id="header"&gt;</code>	<code>&lt;header&gt;</code>
<code>&lt;div id="footer"&gt;</code>	<code>&lt;footer&gt;</code>

Old & Busted

```
<input type="text" value="First Name">
```

New Hotness

```
<input type="text" placeholder="First Name">
```

# GEOLOCATION

```
navigator.geolocation.getCurrentPosition(  
    success, error, options);
```

- success - function if getting position succeeds
- error - function if there's an error in getting the position
- options - Javascript object with key value pairs

More Info: [http://www.tutorialspoint.com/html5/geolocation\\_getcurrentposition.htm](http://www.tutorialspoint.com/html5/geolocation_getcurrentposition.htm)



# LOCALSTORAGE

Store key/value pairs of strings

```
localStorage['todo']; //get
```

```
localStorage['todo'] = 'IOLab Lecture'; //set
```

```
localStorage.getItem('todo');
```

```
localStorage.setItem('todo') = 'IOLab Lecture';
```

```
localStorage.removeItem('todo');
```

More about localStorage: <http://diveintohtml5.info/storage.html>

**CSS**



# NEW FEATURES

- RGBA & opacity
- rounded corners
- image borders
- box shadows
- multi-column layouts
- multiple backgrounds
- text shadows
- word-wrapping
- @font-face
- pseudo-classes
- new selectors
- combinators

# EXAMPLES

Border Radius: specify from top left clockwise

```
border-radius: 10px;
```

Text-shadow: color, x-offset, y-offset, blur radius

```
text-shadow: red 4px 4px 2px;
```

Box-shadow: x-offset, y-offset, blur radius, color

```
text-shadow: 4px 4px 2px #000;
```

Word-wrap:

```
word-wrap: break-word;
```

More: <http://coding.smashingmagazine.com/2009/06/15/take-your-design-to-the-next-level-with-css3/>

# BROWSER PREFIXES

Each browser has different levels of support for CSS3

WebKit (Chrome/Safari)	-webkit-
Firefox	-moz-
Opera	-o-

```
#contact {  
    -moz-border-radius: 10px;  
    -webkit-border-radius: 10px;  
    -o-border-radius: 10px;  
    border-radius: 10px;  
}
```

# LAB

Let's practice with some of this new stuff

Groups of 2 or 3 (your project groups are fine)

Edit Lab 1 or A1 to add:

- Form validation / alerts
- Leverage CSS3 at least twice
- Use localStorage to make list entries persist

# OPEN LAB

Project | Group Time / Open Q&A

# FOR NEXT TIME

PROJECT 1 due on Monday before class

Make sure to add us to your repo on GitHub  
(thegilby & acchao)

You can find links to help with all of these on the course website at  
<http://courses.ischool.berkeley.edu/290ta-iol/f12>