LAST TIME ON IOLAB

• Project 1 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/f12/resources/html5/
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

<table>
<thead>
<tr>
<th>HTML4</th>
<th>HTML5</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;div id=&quot;header&quot;&gt;</code></td>
<td>`&lt;header&gt;</td>
</tr>
<tr>
<td><code>&lt;div id=&quot;footer&quot;&gt;</code></td>
<td><code>&lt;footer&gt;</code></td>
</tr>
</tbody>
</table>

Old & Busted

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

New Hotness

```html
<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

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
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

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

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

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

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

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

Word-wrap:

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

## BROWSER PREFIXES

Each browser has different levels of support for CSS3

<table>
<thead>
<tr>
<th>Browser</th>
<th>Prefix</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebKit (Chrome/Safari)</td>
<td><code>-webkit-</code></td>
</tr>
<tr>
<td>Firefox</td>
<td><code>-moz-</code></td>
</tr>
<tr>
<td>Opera</td>
<td><code>-o-</code></td>
</tr>
</tbody>
</table>

```css
#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 I 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