

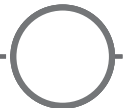
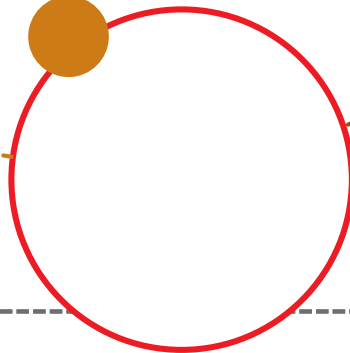
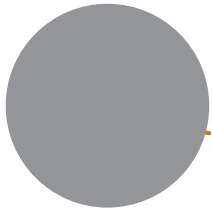
# Developing a Digital Identity

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Lecture 12 – Responsive Web Design II



## Media queries

- Media queries allow us to apply certain CSS rules based upon a number of conditions. For example:
  - Screen width and height
  - Time of the day
- W3C specification:
  - A media query consists of a media type and zero or more expressions that check for the conditions of particular media features. Among the media features that can be used in media queries are ‘width’, ‘height’, and ‘colour’. By using media queries, presentations can be tailored to a specific range of output devices without changing the content itself.



# SlickNav plugin

To develop a responsive design you need to provide menus that can be accessed easily on small mobile devices.

One way to do that is to use a jQuery plugin called SlickNav plugin, by downloading its zip file from <http://slicknav.com>

Copy:

- slicknav.css
- jquery.slicknav.min.js

## A multi-tier menu that uses SlickNav




# Code for the SlickNav plugin in the head element

```
<link rel="stylesheet" href="styles/slicknav.css">
```

```
<script src="https://code.jquery.com/jquery-2.1.3.min.js">  
</script>
```

```
<script src="js/jquery.slicknav.min.js"></script>
```

1



Script element for the jQuery core library is used by the slicknav plugin. This can be linked directly and retrieve from the Content Delivery Network (CDN) on the jQuery website by coding the script element for the plugin.



# Code for the SlickNav plugin in the head element

```
<link rel="stylesheet" href="styles/slicknav.css">
```

```
<script src="https://code.jquery.com/jquery-2.1.3.min.js">
</script>
```

```
<script src="js/jquery.slicknav.min.js"></script>
```

```
<script type="text/javascript">
    $(document).ready(function(){
        $('#nav_menu').slicknav({prependTo:"#mobilemenu"});
    });
</script>
```

2

Code a script element that calls the slicknav method within the jQuery ready event handler. To do that you use a jQuery selector that refers to the id of the standard navigation menu, followed by the method name. This menu must be coded in unordered list. The prependTo parameter is used to add the mobile menu to the nav element that has an id of mobilemenu. Without this parameter the menu would be added at the beginning of the body element.

## HTML for the SlickNav and navigation menus

```
<nav id="mobilemenu"></nav>
<nav id="nav_menu">
  <ul>
    <li><a href="index.html">Home</a></li>
    .
    .
  </ul>
</nav>
```

3

## CSS for the SlickNav menu

```
/* hide the mobile menu */
#mobilemenu { display: none; }
.
.
/* display the mobile menu */
#mobilemenu { display: block; }
```

4



# The basic syntax of a media query

```
@media [only] media-type  
    [and (expression-1)] [and (expression-2)]... {  
    ...styles go here  
}
```

## Common properties for the screen media type

- width
- height
- device-width
- device-height
- orientation

Media queries are CSS3 features that allows you to write conditional expressions directly within your CSS code.

Thy can be used to specify the screen size of the media and apply specific styles to the page for that media i.e. mobile phone, tablet

## Sample media queries

**Checks that the viewport width is 767 pixels or less**

```
@media only screen and (max-width: 767px) {...}
```

**Checks that the viewport width is between 480 and 767 pixels**

```
@media only screen and (min-width: 480px)  
and (max-width: 767px) {...}
```





## Desktop browsers that support media queries

- Internet Explorer 9 and later
- Firefox 3.6 and later
- Safari 4 and later
- Opera 10 and later
- Chrome 5 and later



## Media queries for a desktop down design

```
/* tablet landscape and desktop layout (960px or more) */
...tablet landscape and desktop styles go here

/* tablet portrait layout (768px to 959px) */
@media only screen and (max-width: 959px) {
    ...tablet portrait styles go here
}

/* mobile landscape layout (480px to 767px) */
@media only screen and (max-width: 767px) {
    ...mobile landscape styles go here
}

/* mobile portrait layout (479px or less) */
@media only screen and (max-width: 479px) {
    ...mobile portrait styles go here
}
```



## Media queries for a mobile up design

```
/* mobile portrait layout (479px or less) */  
...mobile portrait styles go here
```

```
/* mobile landscape layout (480px to 767px) */  
@media only screen and (min-width: 480px) {  
    ...mobile landscape styles go here  
}
```

```
/* tablet portrait layout (768px to 959px) */  
@media only screen and (min-width: 768px) {  
    ...tablet portrait styles go here  
}
```

```
/* tablet landscape and desktop layout (960px or more) */  
@media only screen and (min-width: 960px) {  
    ...tablet landscape and desktop styles go here  
}
```



## Media queries

```
#mobilemenu { display: none;}

/* tablet or desktop portrait layout (768px to 959px) */
@media only screen and (max-width: 959px) {
    #nav_menu ul li a {
        font-size: .875em;
    }
}

/* mobile landscape layout (480px to 767px) */
@media only screen and (max-width: 767px) {
    #nav_menu { display: none;}
    #mobilemenu {display: block;}
}
```



slicknav.html



# San Joaquin Valley Town Hall

*Bringing cutting-edge speakers to the valley*

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## This season's guest speakers

- October: **Jeffrey Toobin**
- November: **Andrew Ross Sorkin**
- January: **Amy Chua**
- February: **Scott Sampson**
- March: **Carlos Eire**
- April: **Ronan Tynan**

## Looking for a unique gift?

Town Hall has the answer. For only \$100, you can get a book of tickets for all of the remaining speakers. And the bargain includes a second book of tickets for a companion.

Or, for \$50, you can give yourself the gift of our speakers, and still get an extra ticket for a companion, but for just one of the events.

See you at the next show?

Contact us by phone at (559) 555-1212 for ticket information.

## Lecture notes

### Event change for November

SJV Town Hall is pleased to announce the addition of award-winning author Andrew Ross Sorkin. The appearance of previously scheduled speaker, Greg Mortenson, has been postponed.

### Lecture day, time, and location

All one-hour lectures are on the second Wednesday of the month beginning at 10:30 a.m. at William Saroyan Theatre, 700 M Street, Fresno, CA.

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# Activity



1. Convert index.html and sampson.html for Town Hall 2 website to a responsive web design using SlickNav plugin



# Lab 12

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- Complete:
  - ePortfolio: Reflective page for week 12
  - Convert your ePortfolio to use a responsive web design using SlickNav plugin

