

WEB1100: Lecture 9 Web Development & HCI

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Agenda for today

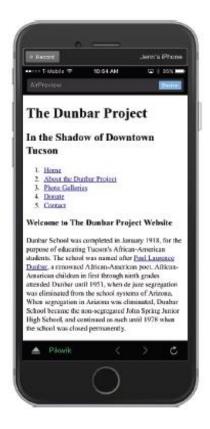
- Responsive Web Design
- Web Forms





- •Mobile first: focuses on visualizing critical content
 - screen layout to one column
 - less navigation choices
 - •limited file size
 - •shorter URL lengths
 - •less usage of frames, flash and tables
 - extensive testing of the application



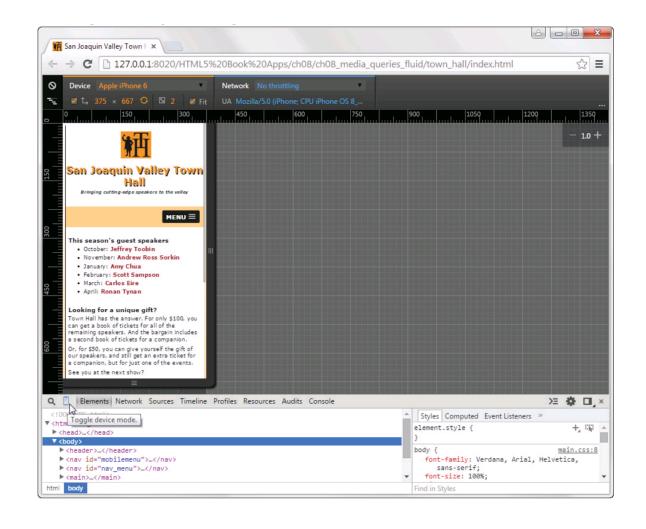




- •Three main components:
 - •fluid layout: adjust the web application to the screen
 - •uses relative properties: % or ems
 - •media queries: adjust the appearance of the web application
 - condition checking for the screen-size
 - •scalable images: adjust it to its containing element
 - •relative to the container holding the image



- •Test your designs:
 - •on your device
 - on device emulator
 - •on browser simulator
 - •on developer tool



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- •CSS Media queries:
 - •set the viewport

A meta element that sets viewport properties

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

•media queries

The basic syntax of a media query

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

Example

```
@media (min-width: 320px and max-width: 1024px) { ... }
```

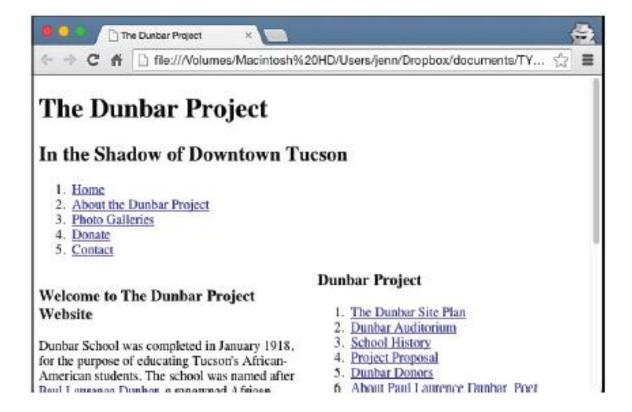




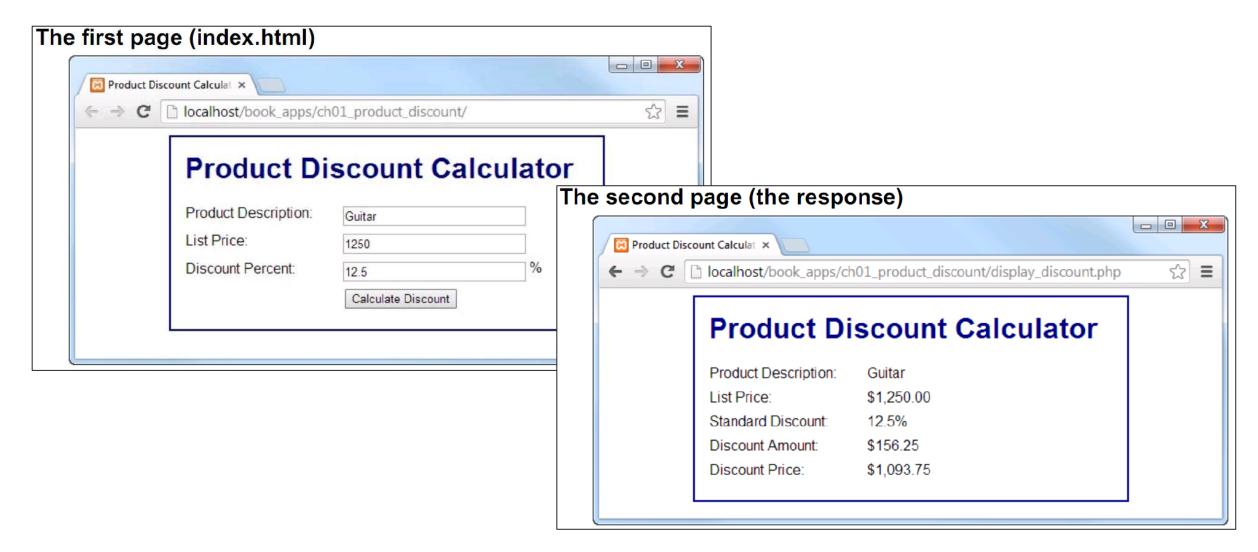
The Dunbar Project







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•Creating a web form:

The HTML for a form

The form in a web browser





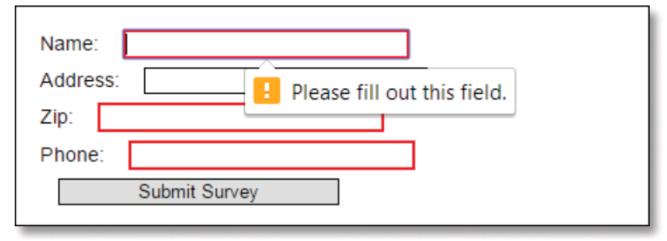
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Form validation:

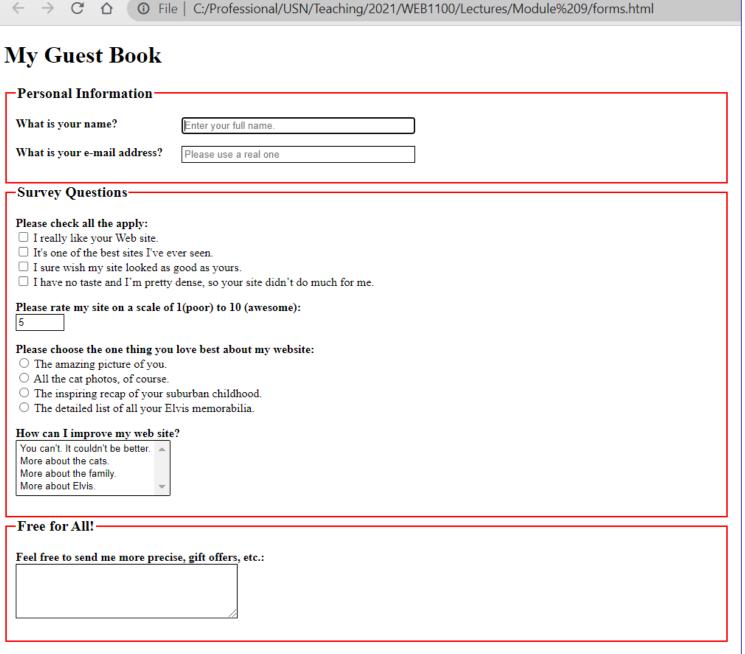
HTML that uses the validation attributes

The error message and highlighting used by Chrome





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```
ighthalf forms.css ☑
     ⊟fieldset {
          width: 90%;
          border: 2px solid #ff0000;
     □#button {
  6
          margin-top: 12px;
     □legend {
          font-weight:bold;
 10
          font-size: 125%;
 11
     □label.question{
 13
          width: 225px;
 14
         float: left;
          text-align: left;
 16
          font-weight: bold;
 17
     □span.question{
 19
          font-weight: bold;
 20
     □input, textarea, select {
 22
          border: 1px solid #000;
 23
          padding: 3px;
 24
     □textarea{
 26
          height: 5em;
 27
          width: 22em;
 28
```



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Thank You!



Think Green, Grow Green, Live Green