Midterm Review

- `<a>`

```
<a href="homepage.html">
```

- selector{property:value}
- span可以在文字周围放class

```
<span class="something">xxx</span>
```

- background images

```
body{
  background-images:url('tv.png');
  background-repeat:no-repeat;
  // backgound-repeat: repeat-x;
  // backgound-repeat: repeat-y;
  background-size:cover; // let the image cover the entire div area
}
```

- border & text-shadow:

```
border: 1px solid black;
text-shadow:x y blur color;
```

- border-radius

```
border-radius: 15px;
border-radius: 50%;
```

- html table

```
<table> //defines a table in the code
<tr> //table row
<th>Row1-Col1</th> //<th>: table header(define columns) - Bold and centered by default for <th>
<th>Row1-Col2</th>
<th>Row1-Col3</th>
<th>Row1-Col4</th>
</tr>
<tr>
<td>Row2-Col1</th> // <td>: table cell — regular and left-aligned by default
<td>Row2-Col2</th>
<td>Row2-Col3</th>
<td>Row2-Col4</th>
</tr>
<tr>
<td>Row2-Col1</th>
<td>Row2-Col2</th>
<td>Row2-Col3</th>
<td>Row2-Col4</th>
</tr>
<tr>
  <td colspan="4"> Note: 这是一个合并单元格 </td>
</tr>
</table>
```

```
table{
  border-collapse: separate;
  border-spacing: 2px;
  border-color: gray; //...?
}
table {
    text-align:center;
    border-collapse:collapse;
}
th, td{
    border:1px solid #ccc;
    padding:10px 0px;
    vertical allign:bottom;// top, middle
}
```

- html forms

```
.form-row{
    margin:10px 0px;
}
/* main-label class, set width and float left */
.main-label{
  width:20%;
  float:left;
}
/* add CSS for message, setting width 50% */
#message{
  width:50%;
}
/* style button, add padding for top/bottom */
button{
  padding:10px 0px;
}
/* submit-btn id, add background color #900 and make text white */
#submit-button{
  background-color:black;
}
```

```
<form action="confirmation.html">
<div class="form-row">
  <label for="name" class="main-label">Name:</label>
  <input id="name" type="text" placeholder="Your Name" required>
</div>
<div class="form-row">
  <label for="email" class="main-label">Email:</label>
  <input id="email" type="email" placeholder="Your Email" required>
</div>
<div class="form-row">
  <label class="main-label">Are you currently a student?</label>
  <input type="radio"  name="current-student" value="Y">Yes
  <input type="radio" name="current-student" value="N">No
</div>
<div class="form-row">
  <label class="main-label">Subscribe to the following:</label>
  <input type="checkbox" name="events" value="Events">Events
  <input type="checkbox" name="newsletter" value="News">Newsetter
  <input type="checkbox" name="newsletter" value="Alerts">Alerts
</div>
<div class="form-row">
  <label for="question" class="main-label">Question Category:</label>
  <select id="question">
    <option value="Adm"> Admission </option>
    <option value="General"> General </option>
    <option value="Other"> Other </option>
  </select>
</div>
<div class="form-row">
  <label for="message" class="main-label">Message:</label>
  <textarea placeholder="Enter your comments here" id="message"></textarea>
</div>
<div class="form-row">
```

```
    <button type="submit" id="submit-button"> Send </button>
    <button type="Reset"> Reset Form </button>
</div>

</form>
```

<label> tie the tag with the id tag

no label tag for radio and checkbox

- DOM — Document Object Model

  not HTML, not View Source, is DevTools (Inspector)

- Compound CSS

  tag1, tag2 — select both tag1 and tag2

  tag1 tag2 — select all tag2 in tag 1

  tag1 > tag2 — select all tag2 that has tag1 as parent

  tag1 + tag2 — select tag2 immediately after tag1 (adjacent sibling)

  tag1 ~ tag2 — select all tag2 that is preceded by tag1 (general sibling)

- external CSS

```
<link rel="stylesheet" href="style.css">
```

- CSS display

  block — can specify width and height

  inline — width and height are ignored [多个inline block的时候先水平排列，放不下再换行]

  inline-block — is inline, able to set a width and height on the element [多个block的时候每个都会换行显示]

  none — not displayed, not take up any space

- CSS Pseudo-Classes

  :link — unvisited object

  :visited — visited object

  :hover — mouse over object

- CSS Visibility

  visible

  hidden — still takes up place

- fonts & typography

  Serif — Times New Roman (classic, Elegant, Formal, Confident)

  Sans-Serif — Arial (modern, clean, friendly, mininal 便于阅读)

- CSS font-family

```
body{
  font-family: "Open Sans", Arial, sans-serif;
  /*"Open Sans" is the familly name and the fist choice
    Arial is the family name and the second choice
    Sans-serif is the generic name
  */
}
```

Defining a font:

```
@font-face{
  font-family: "font file name";
  src:url ('font file location');
}
```

If undownloaded (in Google Fonts):

```
<link href="https://fonts.googleapis.com/css2?family=Amatic+SC:wght@700&family=Sansita+Swashed&display=swap"
rel="stylesheet">
/*底下一样直接用就好了*/
```

Use the font:

```
#footer{
  font-family: myFirstFont, "second choice", "generic name";
  color:blue;
}
```

- CSS Position Property

  static: default

  relative

  fixed

  absolute — need a parent relative position to find the place of itself

- CSS drop down menu

```
#navbar{
  background-color: #900;
  position:fixed;
  top:0px;
  right:0px;
  left:0px;
  z-index:99;
}
/* Style #nav ul, removing bullets and no margins or paddings */
#nav ul{
  list-style:none;
  padding:0px;
  margin:0px;
}
/* Style #nav li, make relative, float left and set width and line height and center */
/* Calculate width 720px / 4 = 180px */
/* Add background color, same as #navbar */
#nav li{
  width:180px;
  float:left;
  text-align: center;
  line-height: 50px;
  position:relative;
  }
/* Add #nav li:hover background color of #fc0 */
#nav li:hover {
  background-color: #fc0;
}
/* Fix the #nav a tag making block instead of inline, remove underline and make white */
#nav a{
  display:block;
  text-decoration: none;
  color:white;
}
/* Style #nav ul ul using visibility and absolute */
```

```css
/* Adjust the top based on line-height set in #nav li */
#nav ul ul{
  position:absolute;
  background-color: #900;
  top:50px;
  left:0px;
  visibility:hidden;
}

/* Show #nav li:hover > ul */
#nav li:hover > ul{
  visibility: visible;
}
/* Set left and top for #nav ul ul ul */
#nav ul ul ul{
  positon:relative;
  left:180px;
  top:0px;
  /*因为是以block的形式排列的，所以不用top往上*/
}
```

```html
<div id="navbar">
  <div id="nav">
    <ul>
      <li><a href="">Menu 1</a></li>
      <li>
        <a href="">Menu 2</a>
        <ul>
          <li><a href="">Sub-menu 1</a></li>
          <li><a href="">Sub-menu 2</a>
            <ul>
              <li><a href="lecture.html#about">Sub-sub-menu 1</a></li>
              <li><a href="lecture.html#2">Sub-sub-menu 2</a></li>
              <li><a href="lecture.html#3">Sub-sub-menu 3</a></li>
            </ul>
          </li>
        </ul>
      </li>
      <li><a href="">Menu 3</a></li>
      <li><a href="">Menu 4</a></li>
    </ul>
  <div class="clearfloat"></div>
  </div> <!-- #nav -->
</div> <!-- #navbar -->
```

- 做一个image cover

```css
.thumbnail {
  background-color: #CCC;
  margin: 10px;
  width: 220px;
  height: 220px;
  float: left;
  overflow: hidden;
  /* add relative position */
  position:relative;
}
/* Style the overlay using absolute and adjusting top,left,right,bottom */
.overlay{
  background-color: rgba(0,0,0,.6);
  /* using the rgba can only change the background color while not affecting the texts */
  color:white;
  position:absolute;
  top:0px;
  bottom:0px;
  left:0px;
  right:0px;
  text-align: center;
  padding-top: 70px;
  visibility: hidden;
}
/* Add the overlay hover effect */
```

```
.thumbnail:hover .overlay{
  visibility: visible;
}
.thumbnail > img {
  width: auto;
  height: 100%;
}
.thumbnail > .width-100 {
  width: 100%;
  height: auto;
}
```

```
<div id="thumbnails">

<div class="thumbnail">
  <img src="img/img_1.jpg" alt="USC Village">
  <div class="overlay">
    <p>Village</p>
  </div>
</div> <!-- .thumbnail -->

<div class="thumbnail">
  <img src="img/img_2.jpg" alt="Tutor Campus Center">
  <div class="overlay">
    <p>Tutor Campus Center</p>
  </div>
</div> <!-- .thumbnail -->

<div class="thumbnail">
  <img src="img/img_3.jpg" alt="Tommy Trojan" class="width-100">
  <div class="overlay">
    <p>Tommy Trojan</p>
  </div>
</div> <!-- .thumbnail -->
```

- meta tag

  <meta> tag — in header section — not displayed on the browser

  <meta name="description">appears in the description when google it

  <meta name="keywords">

  <meta name="author">

  <meta name="viewport"> — set the responsive view

```
<meta charset="utf-8">
<meta name="author" content="Kimberly">
<meta name="description" content="ITP104 class on Responsive Design">
<meta name="keywords" content="Kimberly, ITP104, Responsive">
<meta name="viewport" content="width=device-width,initial-scale=1.0">
/* initial-scale means initial zoom on the page, 1 means no zoom*/
/* width = device-width means that page width equals to screen width*/
```

- media query

```
/* Tablets - Screen Sizes ≤ 991px */
/*background-color: orange;*/
@media(max-width:991px){
  body{background-color: orange;}
  #left, #right{float:none;}
  #container, #left{border: none;}
  #container, #nav, #left, #right {width: auto;}
  #nav li{width:25%;}
  .thumbnail{width:23%;height:width;}
  .thumbnail img {width: auto;height:100%;}
}
/* Mobile – Screen Sizes ≤ 767px */
```

```
/*background-color: yellow;*/
@media(max-width:767px){
  body{background-color: yellow;padding:0;margin:0;}
  #navbar{position:static;}
  #nav li{float:none;width:100%;}
  .thumbnail{float:none;width:100%;}
  .thumbnail img {width:100%;height:auto;}
  .thumbnail .width-100 {position:relative;top:-50%;}
}
```