



# MIS3690 WEB TECHNOLOGIES

**BABSON COLLEGE**  
**TOIM DIVISION**



# IMAGE HOT-SPOTS/MAPS HTML LISTS & MORE CSS POSITIONING IMAGES



# IMAGE HOT-SPOTS OR IMAGE MAPS

- Link areas within large images to another page or web site.
- Create Image Maps
  - Divide the image into two (or more) smaller areas
  - Link one or more of these areas to web sites/pages – i.e., make the area "clickable"
- The "clickable" area is referred to as a Hot Spot

# BABSON COLLEGE CAMPUS



# DEFINING IMAGE MAPS

- The following shapes can be defined:

`shape="default | rect | circle | poly"`

- Rectangle – specify the coordinates for the top left corner and the bottom right corner
- Circle – specify the coordinates for the center and the length of the radius
- Any polygon – specify the coordinates for each of the corners.
  - E.g. Triangle – specify the coordinates for the 3 apex points (the corners)
- We will use Microsoft Paint to identify the coordinates



# BABSON COLLEGE CAMPUS



<area shape="rect" coords="360, 250, 461, 290"  
href="http://www.babson.edu/Academics/library/Pages/home.aspx" alt="Horn Library" title="Horn  
Library" target="\_blank" />

# PUTTING THE IMAGE MAP TOGETHER

```
<p><a href="../index.htm">back to index</a></p>
```

```
<map name="babson"/>
```

```
  <area shape="rect" coords="360, 250, 461, 290"  
    href="http://www.babson.edu/Academics/library/Pages/home.aspx"  
    alt="Horn Library" title="Horn Library" target="_blank" />
```

```
  <area shape="rect" coords="119,317, 185,375" href="  
    https://new.dineoncampus.com/babson" alt="Trim Dining Hall"  
    title="Trim Dining Hall" target="_blank"/>
```

```
  <area shape="rect" coords="452,229 512,282" href="  
    http://www.babsonathletics.com/information/facilities/webstercen  
    ter" alt="Webster Center" title="Webster Center"  
    target="_blank"/>
```

```

```

Names must  
match

# CS04-INCLASS.HTM

- Use template.htm
- We want to create two hot-spots on the image "Middlesex.gif" (available in GitHub - templates)
- Link Wellesley 301, 351, 330, 383 to <http://www.wellesleyma.gov/> – the Town of Wellesley's website.
- Link Newton 338, 314, 360, 373 to <http://www.newtonma.gov/> - the City of Newton's website.
- Save the file as CS04-InClass.htm
- Check it using Chrome.
- Keep CS04-InClass.htm open – we will extend it with more "stuff"!



# LISTS ON WEB PAGES

- There are 3 types of lists:
  - Unordered lists
    - Bulleted list of items
  - Ordered Lists
    - Numbered list of items
  - Definition Lists
    - List of terms and their definitions

# UN-ORDERED LISTS (YOU ELLE)

- Defined by the `<ul>` and `</ul>` tags
- Each item on the list is marked using `<li>` and `</li>` tags
- Combination of both defines the list.
- E.g., ingredients for lemonade:

```
<ul>
```

```
  <li> lemons </li>
```

```
  <li> sugar </li>
```

```
  <li> pinch of salt </li>
```

```
  <li> water </li>
```

```
  <li> ice </li>
```

```
</ul>
```

- lemons
- sugar
- pinch of salt
- water
- ice

# ORDERED LISTS (OH ELLE)

- Defined by the `<ol>` and `</ol>` tags
- Each item on the list is marked using `<li>` and `</li>` tags
- Combination of both defines the list.
- E.g., top 4 things to do today in specific order:

```
<ol>
```

```
  <li> brush teeth </li>
```

```
  <li> breakfast</li>
```

```
  <li> lunch</li>
```

```
  <li> dinner </li>
```

```
</ol>
```

```
1. brush teeth
2. breakfast
3. lunch
4. dinner
```

# DESCRIPTION LISTS

- Defined by the `<dl>` and `</dl>` tags
- Each term is PREFIXED by the `<dt>` tag
- Each description is PREFIXED by `<dd>` tag
- E.g., web terminology

`<dl>`

`<dt> Web Page`

`<dd> A stand-alone page with content  
and a URL`

`<dt> Web Site`

`<dd> A collection of hyperlinked web  
pages`

`<dt> Web Server`

`<dd> A computer that stores and  
disseminates web pages`

`</dl>`

Web Page

A stand-alone page with content and a URL

Web Site

A collection of hyperlinked web pages

Web Server

A computer that stores and disseminates web pages



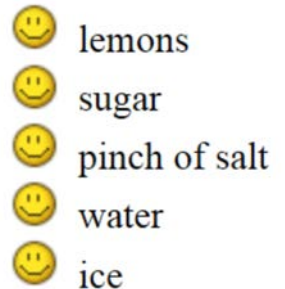
# NESTING LISTS

```
<ul>
  <li> Management Courses
  <ol>
    <li> Introduction to E-Ship </li>
    <li> Financial Accounting </li>
    <li> Advertising and Sales </li>
  </ol>
</li>
<li> Liberal Arts Courses
  <ol>
    <li> Introduction to E-Ship </li>
    <li> Financial Accounting </li>
    <li> Advertising and Sales </li>
  </ol>
</li>
</ul>
```

- Management Courses
  1. Introduction to E-Ship
  2. Financial Accounting
  3. Advertising and Sales
- Liberal Arts Courses
  1. Introduction to E-Ship
  2. Financial Accounting
  3. Advertising and Sales

# USING CSS WITH LISTS

- You can format the text in a list using CSS
  - Font, color, text, background, alignment etc.
- One specific formatting – using an image for the bullet in un-ordered lists
  - `ul {list-style-type: disc | circle | square;}`
    - You can set the bullet to any one of disc/circle/square
  - `ul {list-style-image: url (image-file-name);}`
    - e.g., if the bullet image you want is "smiley.gif"  
`ul {list-style-image: url(images/smiley.gif)};`



# CS04-INCLASS.HTM (CONT.)

- Add an unordered list of the courses you are taking this semester.
  - Add "My Courses" as h2.
  - Use "smiley.gif" as the bullet image.
- Add an ordered list of the countries that ranked top 4 in 2018 FIFA World Cup.
  - Add "2018 FIFA World Cup Ranking" as h2.
  - Add national flag before each country name.
  - Resize the flags – e.g. height="30"
- Add horizontal rules before the unordered list and after the ordered list.
- Check it using Chrome.
- Keep CS04-InClass.htm open – we will add more "stuff"!



# USING IMAGES AS BACKGROUND

- Using CSS, we can set back-ground images for web pages or even part of web pages using the following properties:
  - `background-image: url ('imagefile.jpg')`
  - `background-attachment: fixed | scroll`
  - `background-repeat: repeat | norepeat | repeat-x | repeat-y`
  - `background-position: center | top | bottom | left | right | (x,y)`
- You can set these independently or ALL at once:
  - `[background-color] | [background-image] | [background-repeat] | [background-attachment] | [background-position]`
  - Example:  
`body {background: url (file.jpg) center fixed repeat};`



# POSITIONING IMAGES...

```
img {
```

```
  float: left | right
```

- Allows the image to move to one side and the rest of the content flows around it on the other side

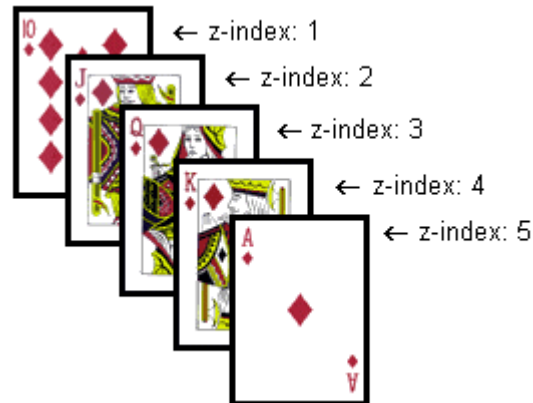
```
  clear: both | left | right |none
```

- Allows the side of the image to be clear of any other FLOATING content – i.e., prevents content (that are positioned using FLOAT) from flowing around on that side

```
}
```

# MORE POSITIONING...

- Float does not let you specify where exactly you want the image to be
- The combination of the following two will allow you to do this
  - `position: relative | absolute | static`
  - `left: auto | distance-value (pt or px)`
  - `top: auto | distance-value (pt or px)`
- `z-index: value`
  - allows you to decide whether the element must be above or below other elements that overlap its position.



## CS04-INCLASS.HTM (CONT.)

- Add "music.gif" as the background image for the page.
- Add the image "beaver.jpg" and position it so that it is at the bottom of the page and horizontally centered.
- Add the words "Go Beavers!" (as h3) and place it OVER the beaver image
  - Using different z-index for img and h3
  - Using `h3 {position: relative; top: ?; z-index: ?}`
- Save the file (as CS04-InClass.htm)
- Update low.htm
- Commit and push to GitHub