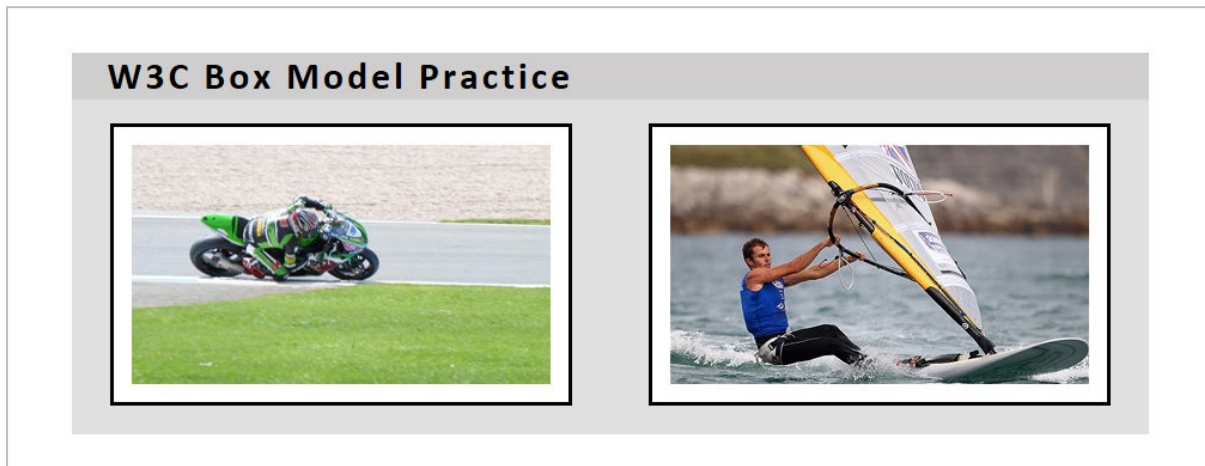


### W3C Box Model Practice

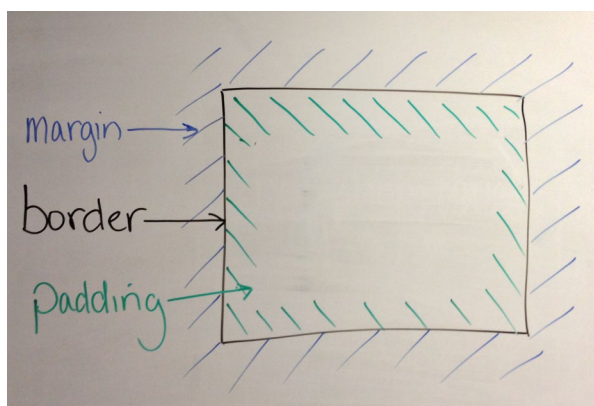
### CSS: margin, border, padding and width



### Preparation

- 1 Copy the **box model practice** files to your disk space
- 2 Develop the **standard web folder structure** and move files into the correct folders
- 3 Copy your **html5 template** and your **css template** to the **www** folder
- 4 Rename the html file to **index.html** and rename the css file to **box\_model.css**
- 5 Open the files in your preferred text editor
- 6 Switch to the html file and locate the link to the css file. It's between the <head> tags
- 7 Amend the link to **box\_model.css**, eg `<link rel="stylesheet" href="box_model.css">`
- 8 Develop web files to **HTML5** and **CSS3** coding standards

### W3C Box Model



Example:      width: 200px;  
                  margin: 30px;  
                  border: 1px solid #edd334;  
                  padding: 20px;

Calculation      200px (width)  
                  ~~+ 60px (left + right margin)~~  
                  + 2px (left + right border)  
                  + 40px (left + right padding)

**Total width      = 242px**

## HTML Coding

- 1 Insert text between the <title> tags – the text is **W3C Box Model Practice**
- 2 Insert a major heading between the <main> tags – the text is **W3C Box Model Practice**
- 3 Place the cursor below the major heading and insert coding for the motorcycle image and the windsurfing image – remember to include width, height and alt values
- 4 Apply unordered list coding to the images for semantic correctness
- 5 Conduct research at W3 Schools, or a similar site, to locate the coding for a. html comment tag then insert an html comment tag immediately below the closing <ul> tag – the comment text is **Creative commons images sourced from www.morguefile.com**
- 6 **Validate** the file to W3C standards
- 7 Display the html file in Chrome, Firefox and Edge browsers

## CSS Coding

- 1 Refresh all browsers after each step [F5] and observe the changes in browser display
- 2 Switch to the css file and develop the css coding
- 3 The body tag has a font family hierarchy of helvetica, calibri, sans-serif
- 4 The 'wrapper' id has a background colour of #e0e0e0
- 5 The 'wrapper' id also has a width of 900 pixels and a margin rule of 30px auto auto auto
- 6 The major heading tag has a font size of 2em and a background colour of #d0cece
- 7 Add a css rule for the unordered list in the main tag – a display of flex and a justify content of space between
  - Identify the new positions of the images on the web page \_\_\_\_\_
- 8 Amend the css rule to justify content of space around
  - Identify the change in position of the images on the web page \_\_\_\_\_
- 9 Insert a border rule for the images in the main tag – the values are 3px solid #000
  - Identify the change in display of the images \_\_\_\_\_
- 10 Add a margin rule for the images – 15px 0px 15px 0px
  - Are the margins added outside the image border, or inside the border? \_\_\_\_\_
  - Write the shortcut for this margin rule in the space provided: \_\_\_\_\_
- 11 Insert a padding rule for the images – 15px 15px 15px 15px
  - Is 15 pixels of padding added outside the image border, or the inside the border? \_\_\_\_\_
  - Write the shortcut for this padding rule in the space provided: \_\_\_\_\_

- 12 Add a background colour rule of white to the images – it is #fff or #ffffff
  - Is the background colour displayed outside the image border, or inside the border? \_\_\_\_\_
- 13 Modify the image margin rule to 20px 0px 20px 0px
  - Identify the change in display \_\_\_\_\_
- 14 Modify the image padding rule and increase the bottom margin to 35px
  - Identify the change in display \_\_\_\_\_
- 15 Apply a suitable margin rule for the heading tag so that it is vertically aligned with the first image
  - Identify the problem with the display of the major heading \_\_\_\_\_
  - Convert this margin rule to a padding rule. Does this solve the display problem? \_\_\_\_\_
- 16 Add a letter spacing rule to the major heading – use an 'em' value to align the right edge of the heading close to the right edge of the first image (hint: apply values after the decimal point)
- 17 If required, modify your code to match the layout in the screen dump at the top of this task sheet
- 18 Validate both files to W3C standards
- 19 Locate the font-family rule
  - delete helvetica from the font hierarchy
  - save the file and refresh each browser
  - circle the font that uses more horizontal space: helvetica OR calibri
- 20 Undo the last step to ensure that helvetica is the first font in the font hierarchy

Creative commons images sourced at <http://www.morguefile.com>