

# COS10005 Web Development

## Module 5 – CSS Presentation

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## **Notes:**

*Embedded CCS is used throughout these lecture notes for single slide reference and discussion purposes only.*

*It is **strongly recommended** that external CCS files be used in practice, as demonstrated in the labs.*

**RECAP**

# Building an HTML page

## HTML **Structural** Elements

- HTML `<head>`, `<body>`
- Header `<header>`
- Navigation `<nav>`
- Main `<main>`
- Article `<article>`
- Section `<section>`
- Aside `<aside>`
- Footer `<footer>`
- Others `<div>`

## HTML **Content** Elements

- Heading `<h1>`, `<h2>`  
...`<h6>`
- Paragraph `<p>`
- List `<ul>`, `<ol>`
- Table `<table>`
- Anchor `<a>`
- Image `<img />`
- Horizontal Rule `<hr />`
- Form `<form>`

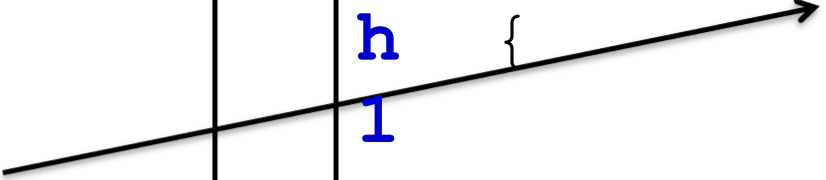
# Linking HTML file to CSS file

HTML File (home.htm)

```
<head>  
  
<link  
  href="home.css"  
  rel="stylesheet"  
>  
</head>
```

CSS File (*home.css*)

```
h1 {  
    color: red;  
}  
  
body {  
    background-  
color: blue;  
}
```






# Writing CSS Codes

- Format of style rules

```
selector { property : value;  
    ...  
}
```



A blue bracket is positioned below the line `property : value;`, spanning from the start of the property name to the end of the semicolon. A vertical line extends from the center of this bracket down to the text "Declaration Block".

Declaration Block

- Example

```
article {  
    color : blue;  
    background-color:black;  
}
```

# Applying CSS Rules to HTML Elements

## HTML File (home.htm)

```
<article>
...
</article>

<article>
...
</article>
```

## CSS File (home.css)

```
article {
    color : blue;
}
```

This selector would style all `<article>` elements in home.html.



# Selecting HTML Elements using *id*

HTML File (home.htm)

```
<article  
  id="feature">
```

...

```
</article>
```

CSS File (home.css)

```
#feature {  
  color : blue;  
}
```


There can be only one element  
with this **id** in a html.

8 - Web Development, © Swinburne

# Selecting HTML Elements using *class*

HTML File (home.htm)

```
<article  
  class="regular">
```



...

```
</article>
```

```
<h1  
  class="regular">
```

...

```
</h1>
```

CSS File (home.css)

```
.regular {  
  color : blue;  
}
```

If you want to select only the <article> elements in class *regular*:

```
article.regular {  
  color : blue;  
}
```

# Writing CSS Comments

- Comments are enclosed in `/* ... */`
- For example

```
/*
```

```
    defines the style for all  
    articles
```

```
*/
```

```
article {
```

```
    color : blue; /* font color*/
```

```
}
```

# Writing CSS Comments

- Comments at the beginning of a CSS file are often used to help maintenance and Quality Assurance
- Example

```
style.css
/* author:           [your name]
last modified:       [date]
validated:           [date]
description: [description]
*/

h1 {
    .....
}
```

**CSS PRESENTATION:**

**WEB TYPOGRAPHY**

Dimension, Color, Fonts, Text

# Web Typography: Dimension

- ***Absolute*** is used for printed media

Unit	Abbr	Description	Example
centimetre	cm	metric centimetre	<b>p</b> {padding :1cm;}
inch	in	US inch	<b>p</b> {margin: 1.25in;}
millimetre	mm	metric millimetre	<b>p</b> {word-spacing: 10mm;}
pica	pc	Equal to 12 points	<b>p</b> {font-size: 20pc;}
point	pt	Equal to 72 points in an inch	<b>p</b> {font-size: 24pt;}



# Web Typography: Measurement

- ***Relative*** is used for webpage

Unit	Abbr	Description	Example
EM	<b>em</b>	Height of the current font size	<b>p</b> {padding :2em;}
Percentage	<b>%</b>	Percentage as relative to parent element	<b>p</b> {line-height: 100%;}
Ex	ex	Height of letter <b>x</b> in the current font	<b>p</b> {margin: 25ex;}
Pixel	<b>px</b>	Pixel size of screen	<b>p</b> {font-size : 12px;}

DEMO! -  
[measurement.html](#)





# Web Typography: Colour

---

- **color** : <colour values>;
  - Colour values can be in **text** or **numerical** format
    - aqua | black | blue | fuchsia | gray | grey | green | lime | maroon | navy | olive | purple | red | silver | teal | white | yellow
    - #<6-digit hexadecimal> representing rrggbb
    - rgb|rgba|hsl|hsla (<0-255>, <0-255>, <0-255>)
  - **h1** {**color** : blue;}
  - **h1** {**color** : #0000FF;}
  - **h1** {**color** : rgb (0, 0, 255);}

# Web Typography: Fonts



- A **specific font** is a font such as “Times New Roman”, “Arial”, or “Courier New”. *Specific fonts are installed on a user’s computer, so availability depends on the user’s machine.*
- A **generic font** refers to the font’s general appearance such as: “serif”, “sans-serif”, “monospace”, “cursive” or “fantasy”.

FF

Five  
Generic  
Fonts

The lines on letters are called “serifs”. “sans-serif” means “without serifs”.



# Web Typography: Font Principles

- Use commonly available fonts
  - Times New Roman
  - Arial
  - Courier New
- Use **font-family** safely
  - **article** {**font-family**: Times New Roman, serif}
  - **article** {**font-family**: Arial, sans-serif}
  - **article** {**font-family**: Courier New, monospace}

DEMO!  
<font.html>

Times New Roman	}	serif	Arial	}	sans-serif	Arial	}	serif
Garamond			Verdana			Verdana		
Georgia			Trebuchet			Trebuchet		



# Web Typography: Fonts

---

- **font-family**: <font name>;
  - **font-family**: Arial, "Times New Roman";
- **font-size**: <value> | <keyword>;
  - h1 {**font-size**: 0.8em;}
  - h1 {**font-size**: small;}
    - xx-small/x-small/small/**medium**/large/x-large/xx-large
- **font-style**: **normal** | italic;
  - h1 {**font-style**: italic;}

DEMO!  
font.html

# Web Typography: Fonts (continued)



- **font-variant**: **normal** | small-caps;
  - **font-variant**: small-caps;
- **font-weight**: **normal** | bold | bolder | lighter  
| 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900;
  - **font-weight** : bold;
- **font**: <short cut property>;
  - **font**: bold 1.2em Arial;

**font-weight**, **font-size** and **font-family** on one line.

Three blue arrows originate from the text 'font-weight', 'font-size', and 'font-family' and point upwards to the 'bold', '1.2em', and 'Arial' components of the 'font: bold 1.2em Arial;' shorthand property listed in the previous block.

DEMO!  
[font.html](#)

# Web Typography: Design Principles

---



- Font Size
  - Size should be big enough, as screen resolution is lower than paper
- Font Color
  - Provide enough contrast between text color and background color
- Avoid using graphics as text
  - Avoid using images to display text
  - Use styled text



# Web Typography: Text Alignment

---

- **text-align** : **left** | right | center | justify;
  - **text-align** : center;
    - *Justify is not supported by all browser*
- **text-indent**: <value>; (first line of paragraph)
  - **text-indent** : 2em;
  - **text-indent** : -2em; (for hanging indent)

DEMO! – font.html



# Web Typography: Text Alignment

---

- **vertical-align** : **baseline** | sub | super | top | text-top | middle | bottom | text-bottom | <value>
  - **vertical-align** : super; (superscript)
  - **vertical-align** : middle; (used on table cell)
  - **vertical-align** : text-top; (used on images)

Used together with **display**: table-cell; to vertically align text.

Alternatively, you can use **line-height**.

DEMO! –  
[font.htm](#)  
|







# Web Typography: Text Spacing

---

- **letter-spacing: normal** | <value>;
  - **letter-space** : 6px;
- **word-spacing: normal** | <value>;
  - **word-spacing** : 2em;
- **text-decoration : none** | underline | overline | line-through;
  - **text-decoration** : underline;

DEMO!



# Web Typography: Text

---

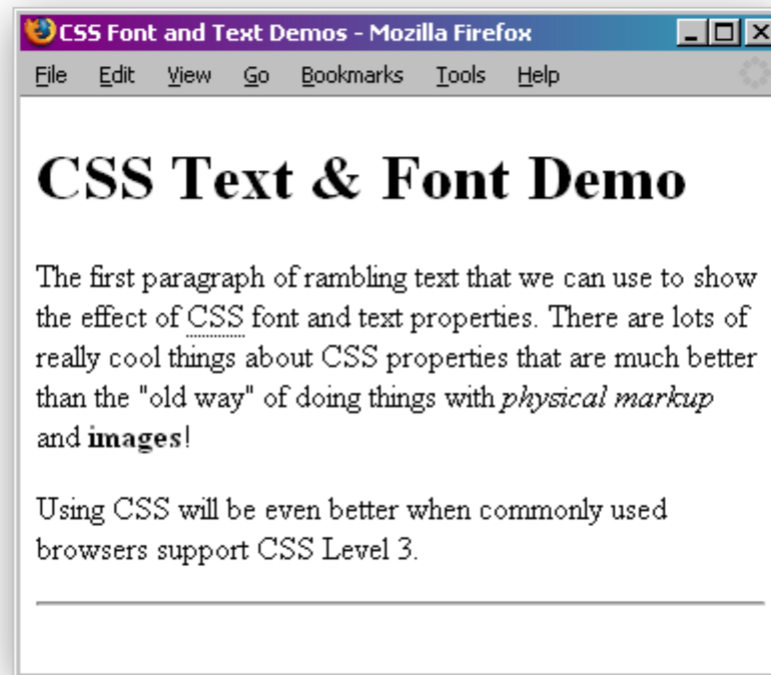
- **text-transform** : **none** | capitalize | uppercase | lowercase;
  - **text-transform** : capitalize; (first letter of every word)
- **text-shadow** : **none** | <horizontal> <vertical> <blur> <colour>;
  - **text-shadow**:2px 2px 4px red;

DEMO! –  
[font.html](#)



# CSS Font and Text Example

```
...
<body>
<h1>CSS Text & Font Demo</h1>
<p class="intro">The first paragraph of rambling text that we can use to
  show the effect of <abbr title="Cascading Style Sheets">CSS</abbr> font
  and text properties. There are lots of really cool things about CSS
  properties that are much better than the &quot; old way &quot; of doing
  things with <em>physical markup</em> and <strong>images</strong>!</p>
<p id="tag">Using CSS will be even better when commonly used
  browsers support CSS Level 3. </p>
<hr />
</body>
</html>
```



# CSS Font and Text Example

```
font-size: 150%;
```

```
font-variant:  
small-caps;
```

```
text-decoration:  
underline;
```

```
text-indent: 2em;
```

```
line-height: 200%;
```

```
padding: 10px;
```

```
border: 1px solid blue;
```

```
text-align: center;
```



# CSS Font and Text Example

```
<!DOCTYPE html>
<html>
<head>
<title>CSS Font and Text Demos</title> <style
type="text/css" >
h1, p { font-family: Arial, Helvetica, sans-serif; }

/* shows the "block" in a background color */
h1 { background-color: #CCFFCC; color: #993300; }
/* percentage of the "normal" text size */
h1 { font-size: 150%; }
/* note that the h1 content is NOT in CAPITALS! Cool!*/
h1 { font-variant: small-caps; }
/* not good - confuses users - they think it's a hyperlink! */
h1 { text-decoration: underline; }

p.intro { line-height: 200%; }
/* "em" units will scale nicely with font size! */
p.intro { text-indent: 2em; }
/* note border values. padding between text and border */
p { border: 1px solid blue; padding: 10px; }

/* only effects the #tag element */
#tag { text-align: center; }
</style>
</head>
...
```

grouping selector h1, p

element selector h1

It would be better  
if these rules  
were grouped  
into one rule.

class selector .intro

element selector p

id selector #tag





# Web Typography: List

---

- **list-style-type** : none | **disc** | circle | square | decimal | decimal-leading-zero | **lower-roman** | upper-roman | lower greek | lower-alpha | lower-latin | upper-alpha | upper-latin | hebrew | armenian | georgian | cjk-ideographic | hiragana | katakana | hiragana-iroha | katakana-iroha
  - ol.a {**list-style-type**: lower-roman;}
  - ol.b {**list-style-type**: katakana;}
  - ol.c {**list-style-type**: hebrew;}
  - ol.d {**list-style-type**: cjk-ideographic;}





# Web Typography: List (continued)

- **list-style-image**: **none** | <url>
  - **list-style-image** : url("circle.png");
- **list-style-position** : inside | **outside**;
  - **list-style-position** : inside;
- **list-style** : <type> <position> <image>;
  - **list-style** : lower-alpha inside url("circle.png");

DEMO! –  
font.html

**list-style-type**, **list-style-position** and **list-style-image** on one line.



# **CSS PRESENTATION: BOX MODEL AND VISUAL FORMATTING**



# Models: Visual Format and Box Model

---

- Visual formatting model describes how the element content boxes should be displayed
  - Block-level elements appear as blocks *such as* `<p>`, `<div>`, `<header>`, `<article>`, *etc.*
  - Inline-level elements are contained within block-level elements, *such as* `<a>`, `<img>`, *etc.*
- **Box model** describes the rectangular boxes that contain content on a web page



# Model: Visual Formatting

- How will the boxes be arranged?

## Block-level

`<h1>...</h1>`

`<div>...</div>`

`<p>...</p>`

`<nav>...</nav>`

## Inline-level

`<a>...</a> <img ... />`

`<span>`

.....

`</span>`



# Model: Visual Formatting

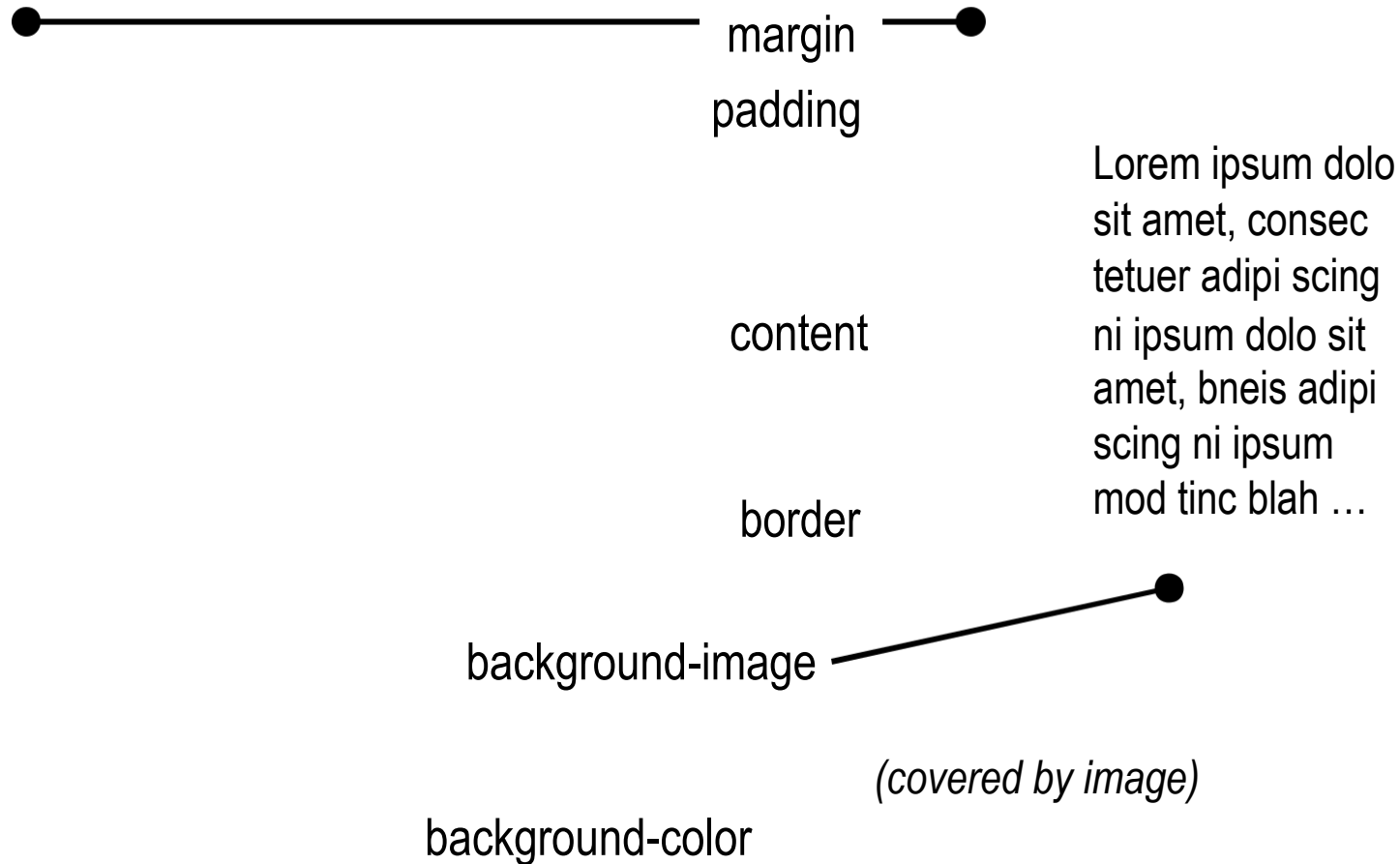
- Default arrangement is top to bottom left to right according to how the elements are ordered

<code>&lt;h1&gt;...&lt;/h1&gt;</code>	<code>&lt;h1&gt;...&lt;/h1&gt;</code>		
<code>&lt;div&gt;...&lt;/div&gt;</code>			
<code>&lt;p&gt;...</code>	<code>&lt;div&gt;...&lt;/div&gt;</code>		
<code>&lt;a&gt;...&lt;/a&gt;</code>			
<code>&lt;img ... /&gt;</code>			
<code>&lt;span&gt; ... &lt;/span&gt;</code>	<code>&lt;p&gt;...</code>		
<code>&lt;/p&gt;</code>		<code>&lt;a&gt;...&lt;/a&gt;</code>	<code>&lt;img ... &gt;</code> <code>&lt;span&gt;...&lt;/span&gt;</code>
Block-level	<code>&lt;/p&gt;</code>		
Inline-level			



# The CSS Box Model

- Below is the CSS box model of a block-level element.



# CSS Margin



- Margin is the space **outside** the element's border.

`margin: 6px`

`margin: 10px`

Lorem ipsum dolo  
sit amet, consec  
tetuer adipi scing  
ni ipsum dolo sit  
amet, bneis adipi  
scing ni ipsum  
mod tinc blah ...

Lorem ipsum dolo  
sit amet, consec  
tetuer adipi scing  
ni ipsum dolo sit  
amet, bneis adipi  
scing ni ipsum  
mod tinc blah ...

DEMO! –  
[font.htm](#)  
|

The separation will be 10px  
the biggest of the margins set



# Model: Box – Margin

- **margin** : <values>;
  - Margin is always transparent
  - Margin values can be negative

margin:	Individual margin-top:	margin-right:	margin-bottom:	margin-left:
1em	1em	1em	1em	1em
1em 2em	1em	2em	1em	2em
1em 2em 3em	1em	2em	3em	2em
1em 2em 3em 4em	1em	2em	3em	4em

**p** {**margin**: 1em 2em 3em 4em;}





# Model: Box – Padding

- Padding is the space **between** the element's border and its content.

**Margin-right:** 12px

**Margin-left:** 12px

Lorem ipsum dolo  
sit amet, consec  
tetuer adipi scing  
ni ipsum dolo sit  
amet, bneis adipi  
scing ni ipsum  
mod tinc blah ...

Lorem ipsum dolo  
sit amet, consec  
tetuer adipi scing  
ni ipsum dolo sit  
amet, bneis adipi  
scing ni ipsum  
mod tinc blah ...

**DEMO! –**  
**font.html**

**Padding-bottom:**  
8px;

**Padding-bottom:** 6px



# Model: Box – Padding

- **padding** : <values>;
  - Padding is the space inside the element's border and takes the colour of the element's background colour

padding:	Individual padding-top:	padding-right:	padding-bottom:	padding-left:
1em	1em	1em	1em	1em
1em 2em	1em	2em	1em	2em
1em 2em 3em	1em	2em	3em	2em
1em 2em 3em 4em	1em	2em	3em	4em

**p** {padding: **1em** 2em 3em 4em}



# Model: Box – Border

---

- **border** : <style> <width> <colour>;
  - style values are
    - none | dashed | solid | double | groove | ridge | inset | outset
  - width values are
    - thin | medium | thick | <size values>
  - colour values are
    - aqua | black | blue | fuchsia | gray | grey | green | lime | maroon | navy | olive | purple | red | silver | teal | white | yellow
    - #<6-digit hexadecimal>
    - rgb|rgba|hsl|hsla (<0-255>, <0-255>, <0-255>)



# Model: Box – Border Shorthand

- **border-style**
  - **div** {**border-style**: solid | double | dotted | dashed | .....}
- **border-width**
  - **div** {**border-width**: 10px | thin | thick | }
- **border-color**
  - **div** {**border-color**: red | #FF0000; }
- Using the border shorthand  
**div** {**border** : solid 1px blue;}

DEMO! –  
font.htm  
|

  
**border-style**, **border-width** and **border-color** on one line.

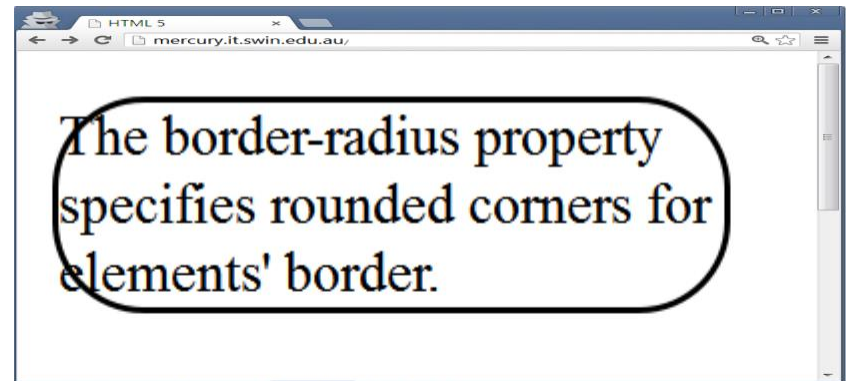


# Model: Box – Border Corners

- **border-radius** : <values>;
  - **border-radius** specifies rounded corners for the elements' border. A border is required.

```
p {  
    border : 1px solid;  
    border-radius:25px;  
}
```

```
<p>The border-radius  
property specifies  
rounded corners for  
elements' border.</p>
```



Remember to adjust the padding accordingly.



# Model: Box – Background

---

- **background-color** : <colour values>;
- **background-image** : url("URL") | **none**;

Background properties provides control over backgrounds of block-level elements

- **div** {**background-color**:red;}
- **body** {**background-image**:url("bgimg.jpg")}

DEMO!



# Model: Box – Shadow

- **box-shadow** : <horizontal> <vertical> <colour values>;
  - box-shadow specifies both the horizontal and vertical measurement and the colour for the shadow

```
p {  
  box-shadow :  
    .4em .4em grey;  
}
```

<p>The box-shadow property creates a shadow around an element.</p>



DEMO!



# Model: Box – Width and Height

---

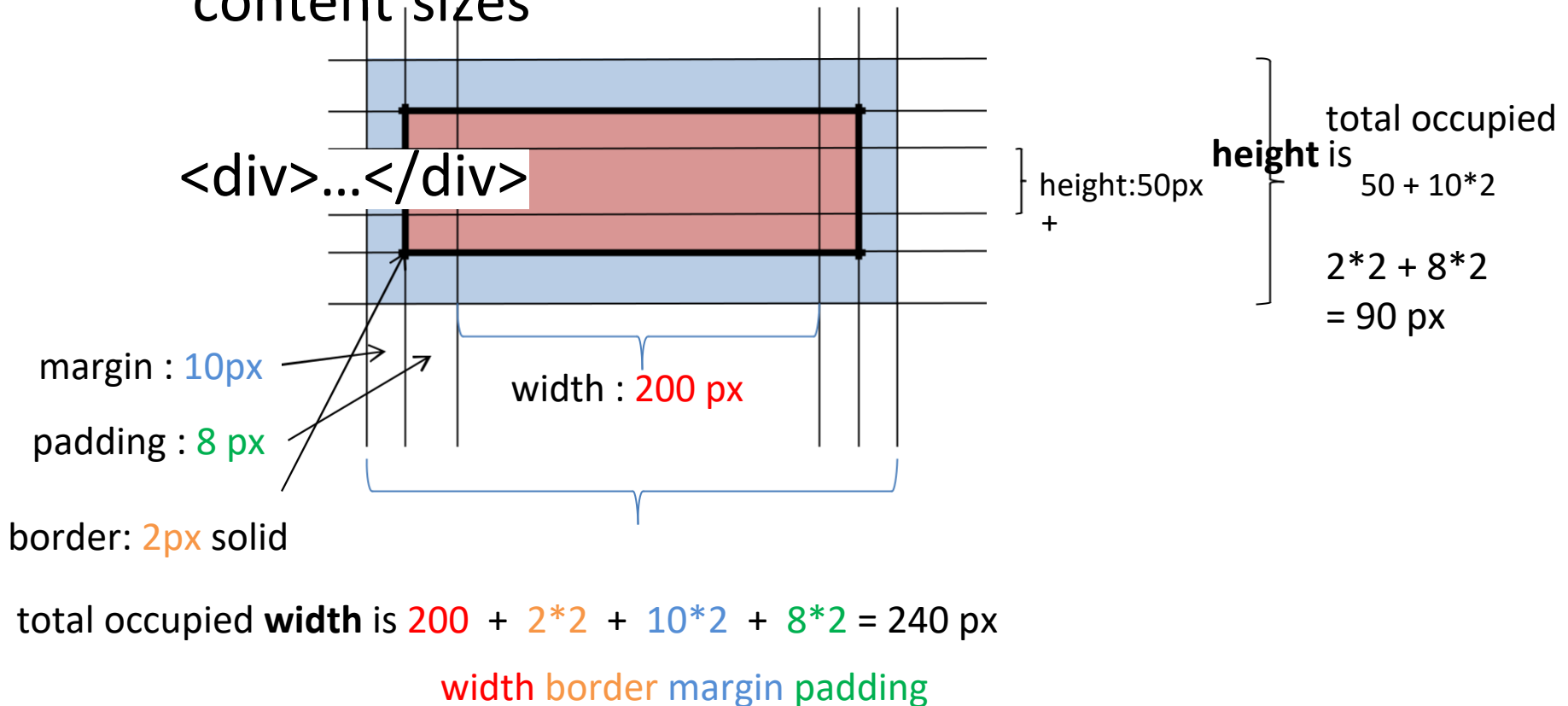
- **width** : <values>;
- **height** : <values>;
  - Width and height specify the horizontal width and vertical height of an element respectively
  - min-width/min-height and max-width/max-height set the allowable values of width and height based on the browser's screen size.
  - Note that desktop browser may be resized by the user.





# Model: Box – Width and Height

- Calculating occupied width and height
  - Factor in the margin, border, padding and content sizes





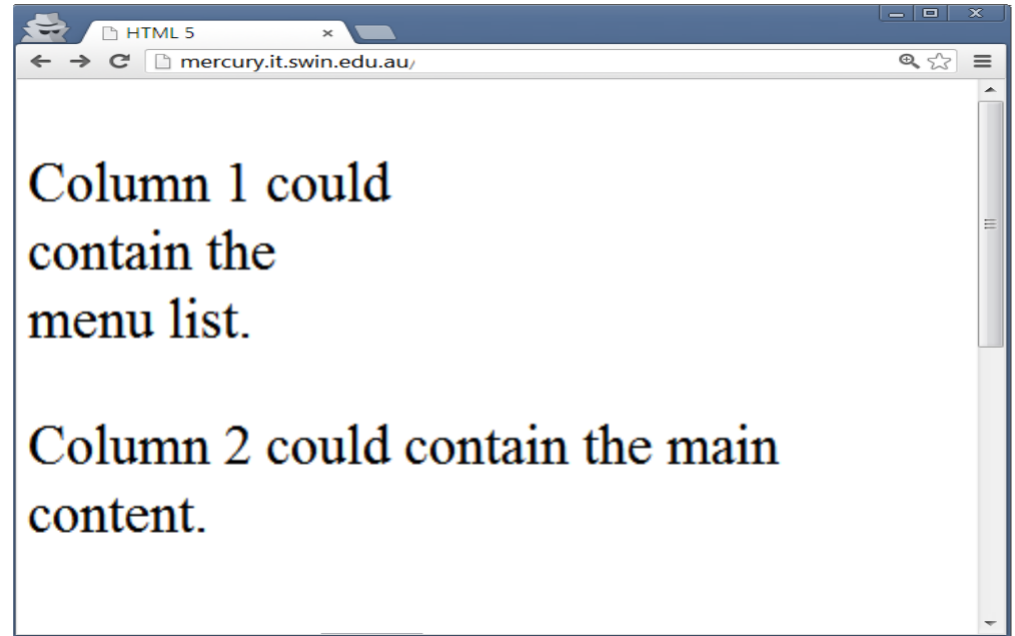
# Model: Box – Width and Height

style.css

```
.column1 { width  
    : 100px;  
}  
.column2 { width  
    : 250px;  
}
```

page.html

```
<p class="column1">Column 1 could  
contain the menu list.</p>  
<p class="column2">Column 2 could  
contain the main content.</p>
```



DEMO!



# **CSS PRESENTATION: PAGE LAYOUT – A**



# Page Layout: Flow

---

- **Normal** is the default browser display of elements, this is one after the other
  - **Block-level** – **vertically** from top to bottom
  - **Inline-level** – **horizontally** from left to right
- CSS property **float** takes an element out of the normal flow
  - Non-floating elements remain in the normal flow



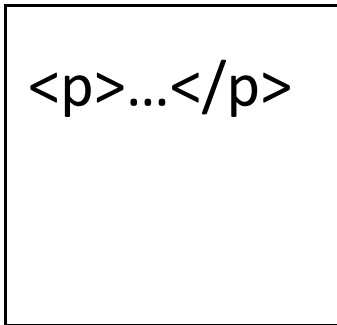
# Page Layout: Flow

- **float** : none | left | right;

Normal Flow

Floating Element

<p>...</p>



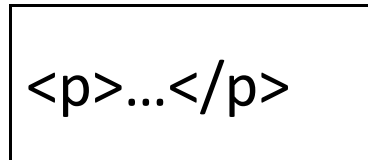
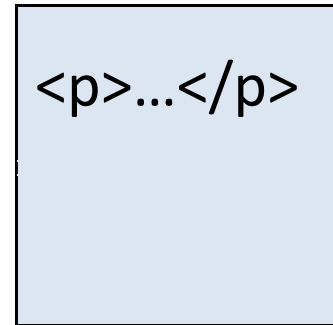
<p>...</p>

<p>...</p>

**float** : left;  
**width** : 100px

**float** : left;  
**width** : 100px

<p>...</p>



DEMO –  
float.html!



# Page Layout: Container Elements

---

- Container elements are used to hold content elements together
- `<div>` can be used as a container element. With HTML5, we can also use `<header>`, `<nav>`, `<article>`, `<section>`, `<aside>` and `<footer>`.
- If the elements inside a container element are floated,
  - margins are used to set the space between elements
  - **the height of the container element is based on the maximum height of a *non-floating* element**

# Page Layout: Container Elements

<header>

    <h1>...</h1>

</header>

<nav>

    <ul>

        ...

    </ul>

</nav>

<article>

    <p>...</p>

    <p>...</p>

    <p>...</p>

</article>

<aside>

    <p>...</p>

</aside>

only float  
the  
container  
elements

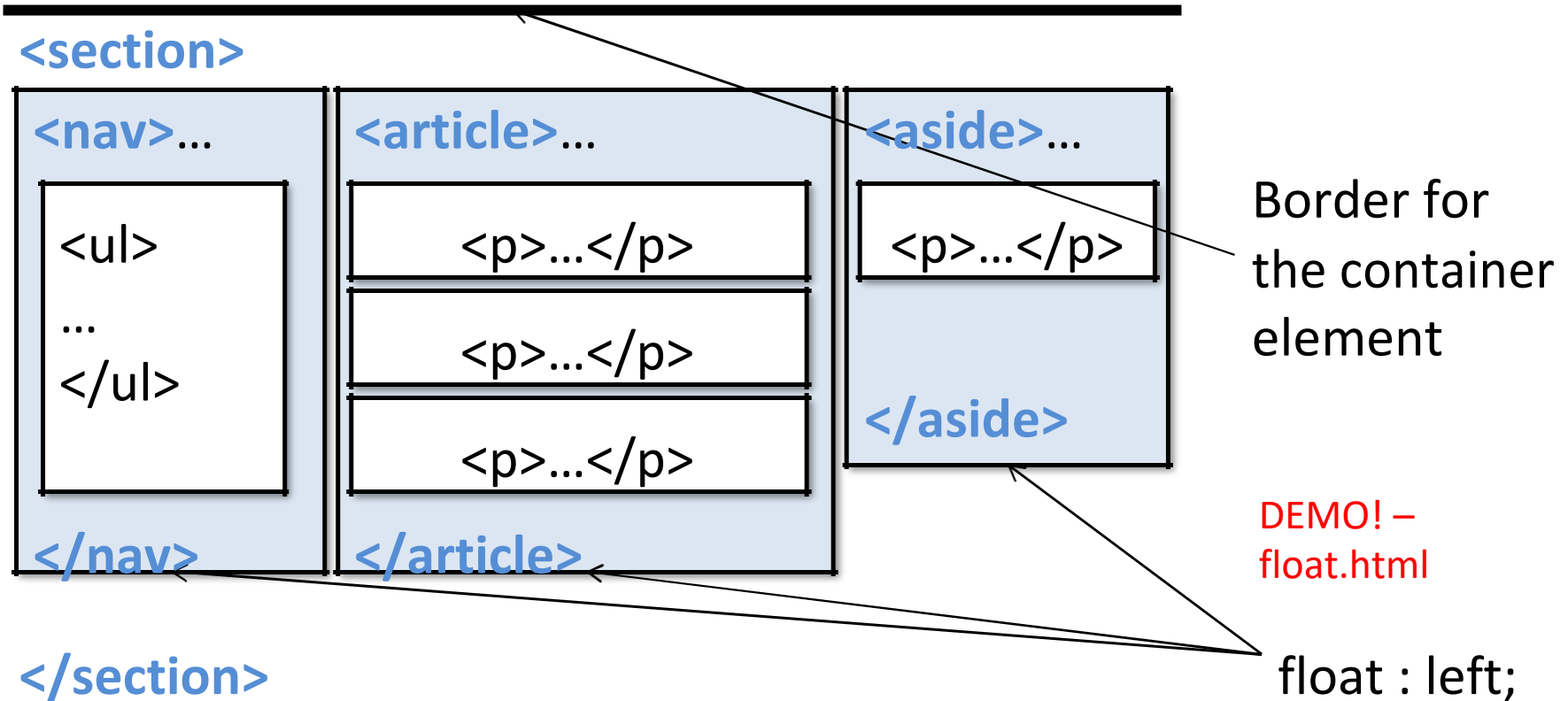
float: left;

<footer>

    <p>...</p>

</footer>

# Page Layout: Container Element's Height



Floating the three structural elements inside the section element will set its height to 0. This is visually evident if border is displayed.





# Page Layout: Solution

---

- Specify the CSS property **overflow** of the container element to **auto**;

```
section {  
    overflow: auto;  
}
```

DEMO! -  
[float.html](#)



# Page Layout: Width and Margin

- Does the combined element width exceeds the container width?

<code>&lt;section style="width:600px;"&gt;</code>		
<code>&lt;nav style="float: left; width: 200px; border: 2px; margin: 5px; padding: 3px;"&gt;...&lt;/nav&gt;</code>	<code>&lt;article style="float: left; width: 200px; border: 2px; margin: 5px; padding: 3px;"&gt;...&lt;/article&gt;</code>	<code>&lt;aside style="float: left; width: 200px; border: 2px; margin: 5px; padding: 3px;"&gt;...&lt;/aside&gt;</code>
<code>&lt;/section&gt;</code>		



# Page Layout: Width and Margin

- Yes, and this will result to a drop column.

```
<section style = "width:600px;">  
  <nav style=  
    "float: left;  
    width: 200px;  
    border: 2px;  
    margin: 5px;  
    padding: 3px;"  
  >...  
</nav>  
  <article style=  
    "float: left;  
    width: 400px;  
    border: 2px;  
    margin: 5px;  
    padding: 3px;"  
  >...  
</article>
```

```
  <aside style=  
    "float: left;  
    width: 200px;  
    border: 2px;  
    margin: 5px;  
    padding: 3px;"  
  >...  
</aside>  
</section>
```

Recall the discussion  
on computing the  
occupied width in  
the slide Model: Box  
– Width and Height



# Page Layout: Width and Margin

- Always include margin, border and padding

$$= (200 + (2+5+3) \times 2) + (400 + (2+5+3) \times 2) \\ + (200 + (2+5+3) \times 2)$$

= 860px

`<section style = "width:800px;">`

```
<nav style=
" float: left;
width: 200px;
border: 2px;
margin: 5px;
padding: 3px;"
>...
</nav>
```

```
<article style=
"float: left;
width: 400px;
border: 2px;
margin: 5px;
padding: 3px;"
>...
</article>
```

```
<aside style=
"float: left;
width: 200px;
border: 2px;
margin: 5px;
padding: 3px;"
>...
</aside>
```

`</section>`



# Page Layout: Width and Margin

- If using **relative units** for the width, adjust the last column accordingly

$$25\% + 50\% + 20\% < 100\%$$

with 5% for the margin, border and padding.

```
<section style = "width:100%;">
```

```
<nav style=
"float: left;
width: 25%;
border: 2px;
margin: 5px;
padding: 3px;"
>...
</nav>
```

```
<article style=
"float: left;
width: 50%;
border: 2px;
margin: 5px;
padding: 3px;"
>...
</article>
```

```
<aside style=
"float: left;
width: 20%;
border: 2px;
margin: 5px;
padding: 3px;"
>...
</aside>
```

```
</section>
```



# Page Layout: Design

---

- **Fixed layout:** defines exact size of every element in **absolute** units such as pixels.
  - Gives precise control over appearance
  - Does not adapt to the size of the browser window
- **Fluid (Flexible/Liquid) layout:** one or more elements are set with **relative** units. DEMO!
  - Layout adapts to the size of the browser window.
  - Typically related to **width** rather than height
  - Page content “flows” into free areas of the browser window



# Page Layout: Design – **Fixed #1**

---

- Big window

<header>...

</header>

<nav>

<article>...

<aside>...

</nav>

</article>

</aside>

<footer>...

</footer>

## Browser window

- Small window

<header>...

</header>

<nav>

</nav>

<article>...

</article>

<aside>...

</aside>

<footer>...

</footer>



# Page Layout: Design – Fixed #2

- Big window

```
<header>...  
</header>  
  
<nav>      <article>...      <aside>...  
  
</nav>     </article>      </aside>  
  
<footer>...  
</footer>
```

- Small window

```
<header>...  
</header>  
  
<nav>      <article>...
```

</nav>	</article>
<aside>...	

</aside>                      pushed to the next line

## Browser window

```
<footer>...  
</footer>
```





# Page Layout: Design - Fluid

```
<header
  style="width: 100%;">...
</header>
<nav style="width: 25%;
  float: left;">...
</nav>
<article
  style="width: 50%;
  float: left;">...
</article>
<aside
  style="width: 20%;
  float: left;">...
</aside>
<footer
  style="width: 100%;
  clear: both;">...
</footer>
```

```
<header>...
</header>

<nav>
</nav>

<article>...
</article>

<aside>...
</aside>

<footer>...
</footer>
```

- Adapts to the size of the browser window

```
<header>...
</header>

<nav>
  <article>
  <aside>
  ...
  </aside>
</nav>

<article>
</article>

<aside>
</aside>

<footer>...
</footer>
```

DEMO!



# **CSS (PRESENTATION): PAGE LAYOUT – B**

# Page Layout: Position, Top and Left

---



- **position**: **static** | **absolute** | **fixed** | **relative**;
  - "static" is the default positioning of the elements as they appear in the *original* document flow
  - "**relative**" positions the element relative to its normal position, (offsetting from **static**)
  - "**absolute**" positions the element relative to its first positioned ancestor element
  - "**fixed**" positions the element relative to the view port or browser window
- Used with **top** | **bottom**, **left** | **right** property



# Page Layout: Position, Top and Left

- **top: auto** | <value>;

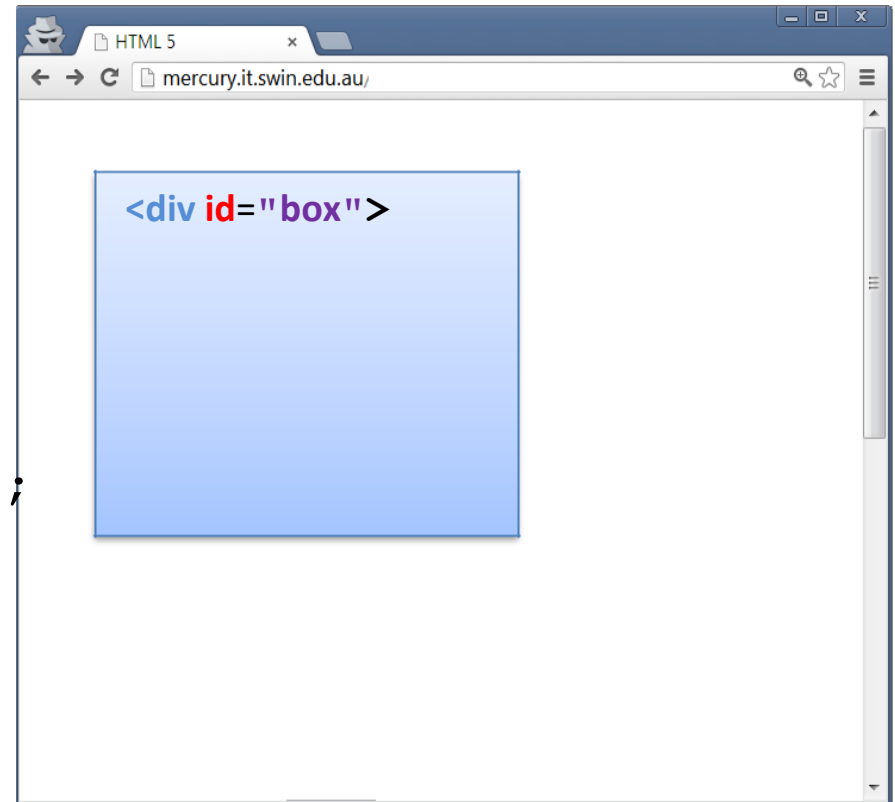
- **left: auto** | <value>;

```
#box {  
    width:100px;  
    height:100px;  
    border:1px solid #black;  
    background-color:skyblue;
```

```
    position: absolute;
```

```
    top: 100px;
```

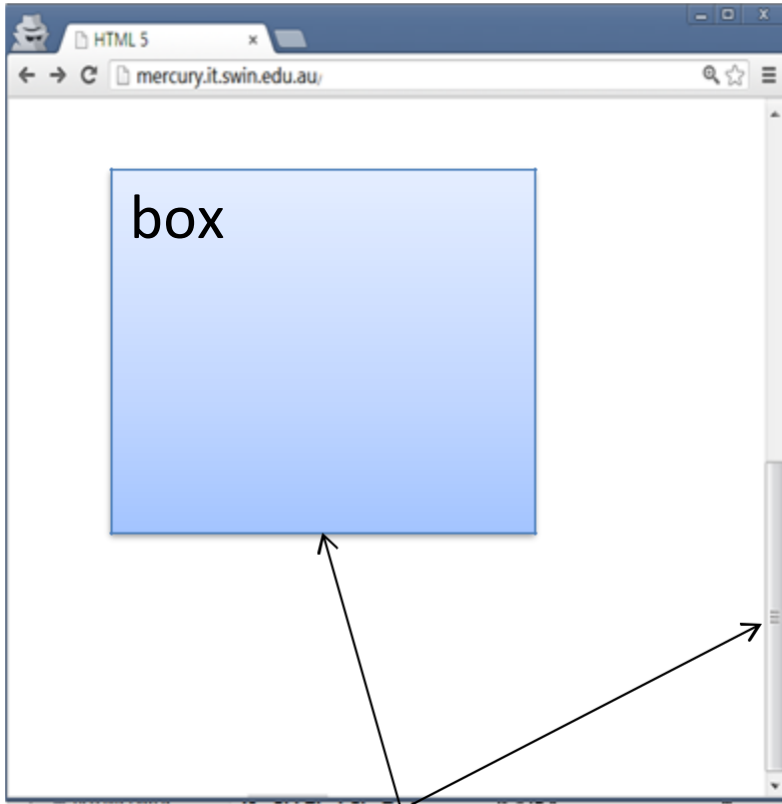
```
    left: 100px; ">
```



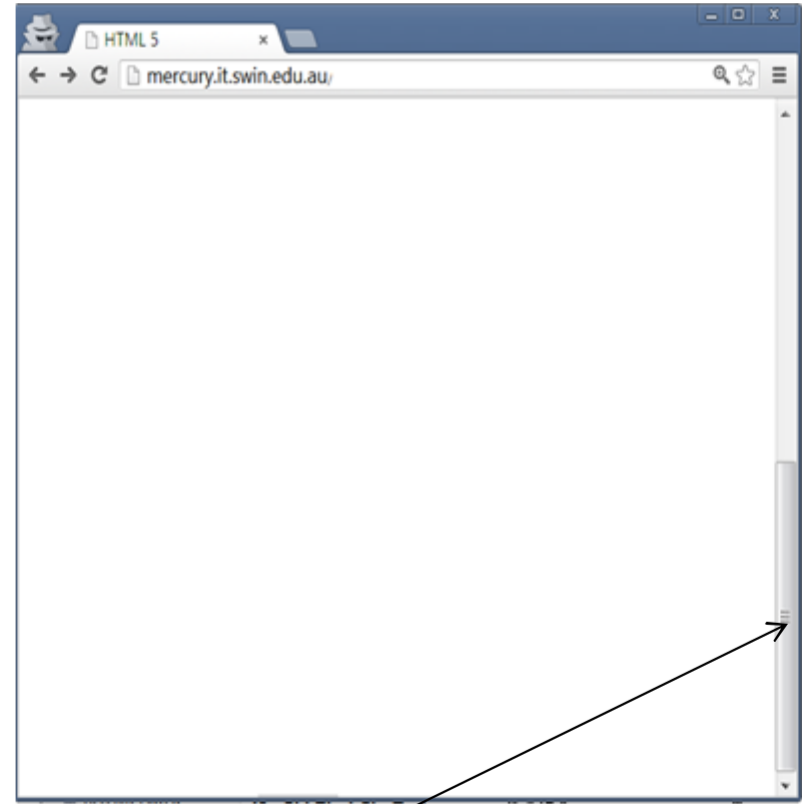
DEMO!

# Page Layout: Position, Top and Left

- fixed
- absolute



Relative to the window, stays on screen  
Even if user scrolls down

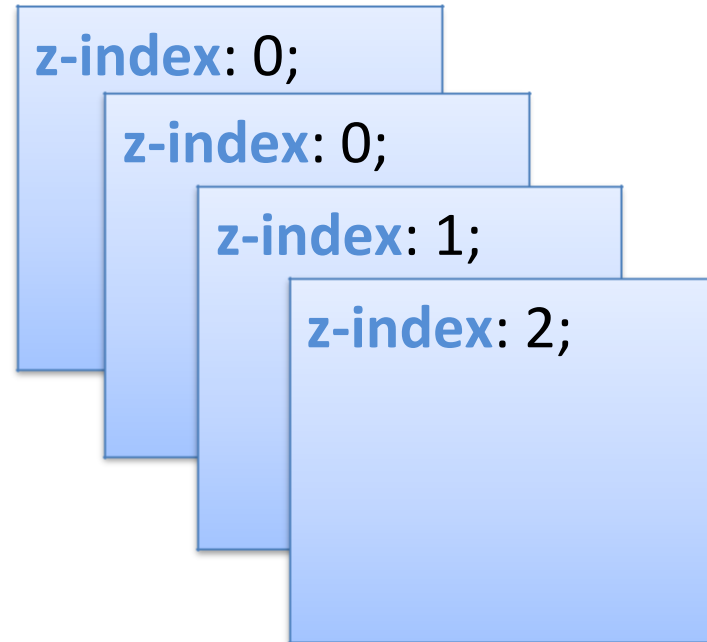
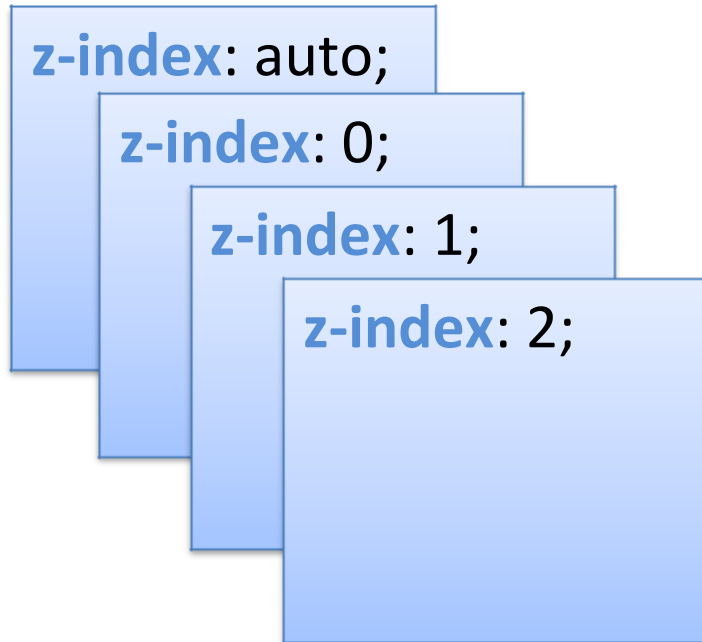


Relative to the page, scrolls with the  
webpage



# Page Layout: z-index

- **z-index** : **auto** | <number>;
  - Modifies the stacking order of the elements

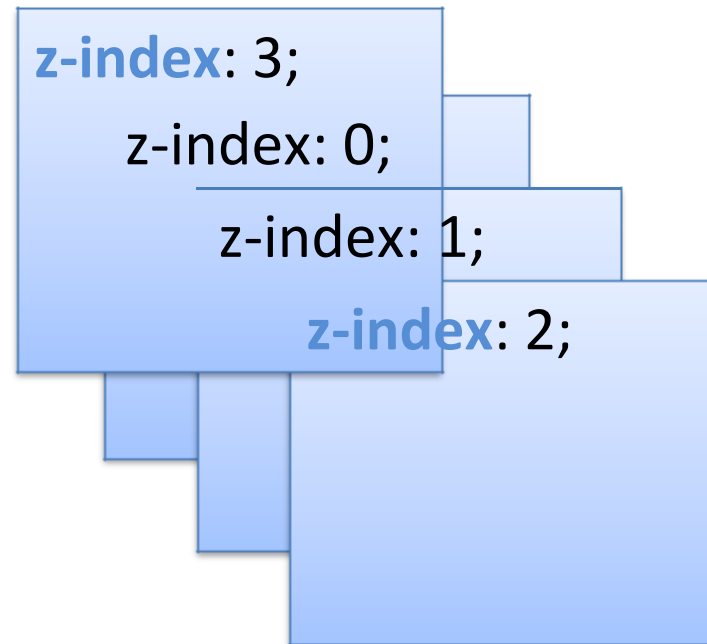
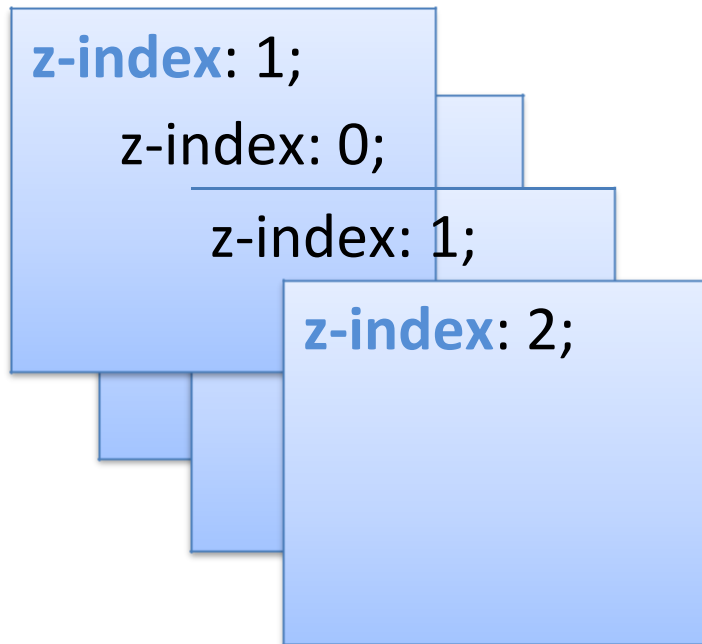


DEMO!



# Page Layout: z-index

- Stacking order of elements with the same z-level value is based on the order in the HTML text





**NEXT LECTURE:**  
**CODING FOR OTHER DEVICES**  
**USABILITY, ACCESSIBILITY**