Cascading Style Sheets II



Blog submission

Blogs must be completed <u>Friday 23rd</u>
October

Only Weeks 1-4 are required

Introduction

- Recap of Week 3
- Pseudoclasses and pseudoelements
- 3. Positioning & aligning layers with CSS
- Other CSS page layout tips

Pseudoclasses & Pseudoelements

 Pseudoclasses are identifiers that are understood by user agents and apply to elements of certain types without the elements having to be explicitly styled

 Example: A handful of pseudoclasses can be used with anchor elements <a>

Pseudoclass	Match
:link	Unvisited links
:visited	Visited links
:active	Active links
:hover	The link that the browser pointer is hovering over
:focus	The link that currently has the user interface focus

```
a:link
  font-family: Tahoma;
   color:black;
  font-size: 10pt;
  text-decoration:none;
a:visited
  font-family: Tahoma;
  color:purple;
  font-size: 10pt;
  text-decoration:none;
```

This definition is in the separate CSS file.

Every time a <a> tag is used, the attributes defined in the style sheet are automatically used

When setting the style for several link states, there are some order rules:

- a:hover MUST come after a:link and a:visited
- a:active MUST come after a:hover

Using Pseudoelements

 Pseudoelements** are another virtual construct to help apply styles dynamically to elements within a document, e.g., :first-line, :first-letter

 Whenever is used, the first line of the paragraph will be automatically underlined

^{**}Pseudo classes are very similar to pseudo elements, but pseudo classes apply the styling rules to the element depending on some state.

An Exercise...

- Using the handout provided:
 - Link the css file to the html file
 - Use HTML5 tags for divs where possible
 - In the .css file, style the following html elements:
 - <body>

 - <h1> and <h2>
 - Create a second nav inside the footer. Use ids to differentiate navs.
 - Put id declaration with relevant attributes in css file
 - Put relevant html code in html file

Another Exercise...

- Create a class which will be used to hold the main content of the web page
 - Put class declaration with relevant attributes in css file
 - Put relevant html code in html file
- Change the colour of the hyperlink
 - The hyperlink should be navy whether it has been visited nor not
 - Remove the underline from the hyperlink

Positioning & Aligning Layers with CSS

What are the options?

- Position attribute this week
- Float attribute this week
- Box Model next week
- Display attribute next week
- CSS Grid and CSS frameworks later weeks

CSS attribute - position

- Position has 4 values:
 - static (default value)
 - fixed
 - relative
 - absolute

CSS attribute – position: static

A static element is positioned according to the <u>normal flow</u> of the page.

 These elements are not affected by top, bottom, left and right.

CSS attribute – position: fixed

A fixed element is positioned relative to the browser window. Even if scrolled, it does not move.

It is removed from the natural flow.

These elements use top, bottom, left and right for positioning.

CSS attribute – position: fixed

```
<!DOCTYPE html>
<html>
<head>
<style>
h2.pos_top
position:fixed;
top:50%;
</style>
</head>
<body>
<h2>This is a heading with no position</h2>
<nz class="pos_top"> Inis neading is placed acc
window</h2>
</body>
```

CSS attribute – position: fixed

```
<!DOCTYPE html>
<html>
<head>
<style>
h2.pos_top
position:fixed:
top:50%;
</style>
</head>
<body>
<h2>This is a heading with no position</h2>
<h2 class="pos_top">This heading is placed according to the browser
window</h2>
</body>
```

This is a heading with no position

This heading is placed according to the browser window

CSS attribute – position: relative

A relative element is positioned relative to its normal position.

It has a place in the natural flow.

These elements use top, bottom, left and right for positioning.

CSS attribute – position: relative

```
<IDOCTYPE html>
<html>.
<head>
<style>
h2.pos_top
position:relative;
top:-50px;
</style>
</head>
<body>
<h2>This is a heading with no position</h2>
<h2 class="pos_top">This heading is moved upwards according to its normal
position</h2>
Note: Even if the content of the relatively positioned element is
moved, the reserved space for the element is still preserved in the normal flow.
</body>
</html>
```

CSS attribute – position: relative

```
<!DOCTYPE html>
<html>
<head>
<style>
h2.pos_top
position:relative;
top:-50px;
</style>
</head>
<body>
<h2>This is a heading with no position</h2>
<h2 class="pos_top">This heading is moved upwards according to its normal
position</h2>
<b>Note:</b> Even if the content of the relatively positioned element is
moved, the reserved space for the element is still preserved in the normal flow.
</body>
</html>
```

This heading ling with apposition according to its normal position

Note: Even if the content of the relatively positioned element is moved, the reserved space for the element is still preserved in the normal flow.

CSS attribute – position: absolute

An absolute element is positioned relative to the first parent layer.

It is removed from the natural flow.

These elements use top, bottom, left and right for positioning.

Right/Left aligning using position

```
.right
{
  position:absolute;
  right:0px;
  width:300px;
  background-color:#b0e0e6;
}
```

CSS attribute – position: sticky

- A sticky element is positioned based on the user's scroll position.
- A sticky element toggles between relative and fixed, depending on the scroll position.
 - positioned relative until a given offset position is met in the viewport
 - then it "sticks" in place (like position:fixed).
- These elements use top, bottom, left and right for positioning.

CSS attribute – position: sticky

```
<!DOCTYPE html>
<html>
<head>
div.sticky {
  position: -webkit-sticky;
  position: sticky;
  top: 0;
  padding: 5px;
 background-color: #cae8ca;
 border: 2px solid #4CAF50;
</style>
</head>
<body>
Try to <b>scroll</b> inside this frame to understand how sticky positioning
works.
Note: IE/Edge 15 and earlier versions do not support sticky position.
<div class="sticky">I am sticky!</div>
<div style="padding-bottom:2000px">
  In this example, the sticky element sticks to the top of the page (top: 0),
when you reach its scroll position.
  Scroll back up to remove the stickyness.
  Some text to enable scrolling. Lorem ipsum dolor sit amet, illum definitiones
no quo, maluisset concludaturque et eum, altera fabulas ut quo. Atqui causae
gloriatur ius te, id agam omnis evertitur eum. Affert laboramus repudiandae nec et.
Inciderint efficiantur his ad. Eum no molestiae voluptatibus.
  Some text to enable scrolling. Lorem ipsum dolor sit amet, illum definitiones
no quo, maluisset concludaturque et eum, altera fabulas ut quo. Atqui causae
gloriatur ius te, id agam omnis evertitur eum. Affert laboramus repudiandae nec et.
Inciderint efficiantur his ad. Eum no molestiae voluptatibus.
</div>
</body>
```

</html>

CSS attribute – position: sticky

relative

Try to scroll inside this frame to understand how sticky positioning works.

Note: IE/Edge 15 and earlier versions do not support sticky position.

I am sticky!

In this example, the sticky element sticks to the top of the page (top: 0), when you reach its scroll po

Scroll back up to remove the stickyness.

Some text to enable scrolling. Lorem ipsum dolor sit amet, illum definitiones no quo, maluisset concludaturque et eum, altera fabulas ut quo. Atqui causae gloriatur ius te, id agam omnis evertitur e Affert laboramus repudiandae nec et. Inciderint efficiantur his ad. Eum no molestiae voluptatibus.

Some text to enable scrolling. Lorem ipsum dolor sit amet, illum definitiones no quo, maluisset concludaturque et eum, altera fabulas ut quo. Atqui causae gloriatur ius te, id agam omnis evertitur e Affert laboramus repudiandae nec et. Inciderint efficiantur his ad. Eum no molestiae voluptatibus.

After scroll - fixed

I am sticky!

Affert laboramus repudiandae nec et. Inciderint efficiantur his ad. Eum no molestiae voluptatibus.

Some text to enable scrolling.. Lorem ipsum dolor sit amet, illum definitiones no quo, maluisset concludaturque et eum, altera fabulas ut quo. Atqui causae gloriatur ius te, id agam omnis evertitur eum. Affert laboramus repudiandae nec et. Inciderint efficiantur his ad. Eum no molestiae voluptatibus.

Use position: fixed

Some text

This text never moves.

Use position: fixed

```
<!DOCTYPE html>
<html>
<head>
<style>
p.pos fixed {
                      position: fixed;
                     top: 30px;
                      right: 5px;
                      color: red;
</style>
</head>
<body>
Some textSome text</
textSome textSome text
Some textSome text</
textSome textSome text
Some textSome text
This text never moves.
</body>
</html>
```

Use position: relative

Heading with no position

his heading is moved left according to its ormal position

This heading is moved right according to its normal position

Use position: relative

```
<!DOCTYPE html>
<html>
<head>
<style>
h2.pos left {
    position: relative;
    left: -20px;
h2.pos_right {
    position: relative;
    left: 20px;
</style>
</head>
<body>
<h2>Heading with no position</h2>
<h2 class="pos_left">This heading is moved left according
to its normal position</h2>
<h2 class="pos_right">This heading is moved right
according to its normal position</h2>
</body>
</html>
```

Use position: absolute

With absolute positioning, an element can be placed anywhere on a page. The heading below is placed 100px from the left of the page and 150px from the top of the page.

This heading has an absolute position

Use position: absolute

```
<!DOCTYPE html>
<html>
<head>
<style>
h2 {
    position: absolute;
    left: 100px;
   top: 150px;
</style>
</head>
<body>
<h2>This heading has an absolute position</h2>
With absolute positioning, an element can be placed
anywhere on a page. The heading below is placed 100px
from the left of the page and 150px from the top of the
page.
</body>
</html>
```

Lighthouse website – Using position

Make the header of the website fixed i.e. position:sticky

Lighthouse Island Bistro

Home Menu Directions Contact

Locally Roasted Free-Trade Coffee

Indulge in the aroma of freshly ground roast coffee. Specialty drinks are available hot or cold.

Specialty Pastries

Enjoy a selection of our fresh-baked, organic pastries, including fresh-fruit muffins, scones, croissants, and cinammon rolls.

Lunchtime is Anytime

Savor delicious wraps and sandwiches on hearty, whole-grain breads with locally-grown salad, fruit, and vegetables.

Panoramic View

Take in some scenery!

The top of our lighthouse offers a panoramic view of the countryside. Challenge your friends to climb our 100-stair tower.



Other CSS Page Layout tips

CSS Float

 Elements that appear to float on the right or left side of either the browser window or another element are often configured using the **float** property

- float:right
- float:left



Floats: Left and Right

Using floats can introduce up to two new flows: left and right.



<u>https://medium.freecodecamp.com/css-floats-explained-by-riding-an-escalator-57fa55232333#.adlt0m4gk</u>

Right/Left aligning using float

```
.right
{
   float:right;
   width:300px;
   background-color:#b0e0e6;
}
```

Lighthouse website – Using float



```
#mainnav { float: right;
    width: 150px;
    letter-spacing:0.1em;
    font-weight: bold;
}
```

CSS: Clearing a Float

- The clear property is often used to terminate, or clear a float
- A common technique is to add a line break configured with the clear property

- clear:right
- clear:left
- clear:both

Lighthouse website – Using clear

```
footer {font-size:70%;
          padding: 10px;
          clear: both;
}
```

CSS Overflow

The overflow property is often used to clear a float, although its intended purpose is to configure how content should be displayed if it is too large for the area allocated

- overflow:visible
- overflow:hidden
- overflow:auto
- overflow:scroll

Centre aligning

Horizontal Navigation with an Unordered List

 How can I use an unordered list for a horizontal navigation menu? display property

display: inline

Horizontal Navigation with an Unordered List

```
<div id="nav">

            .....
            <!i>.....
            <!i>.....
```

```
li{
display: inline
}
```

Write the css which will output:

Home Menu Directions Contact

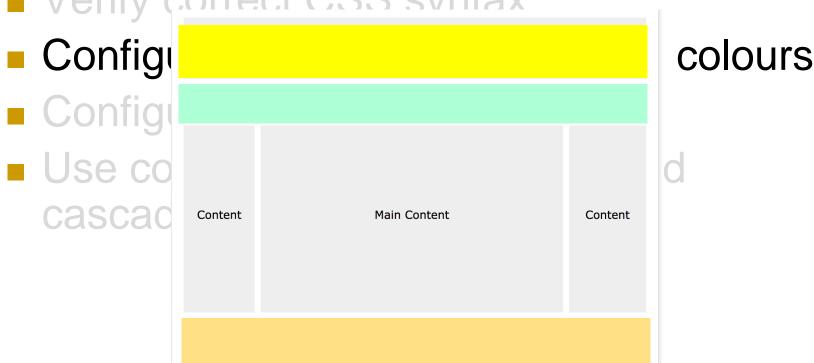
- Verify correct HTML syntax
- Verify correct CSS syntax
- Configure temporary background colours
- Configure temporary borders
- Use comments to find unexpected cascade

- Verify correct HTML syntax
- Verify correct CSS syntax
- Configure to more the alege to the colours
- HTML Validator https://validator.w3.org/
- Use comments to find unexpected cascade

- Verify correct HTML syntax
- Verify correct CSS syntax
- CSS Validator https://jigsaw.w3.org/css-validator/
- comments to find unexpected cascade

Verify correct HTML syntax

Verify correct CSS syntax



Verify correct HTML syntax

