

# RWD Assignment

## Convert an existing website to Responsive website

CIM 141.1 Creating a Web Page

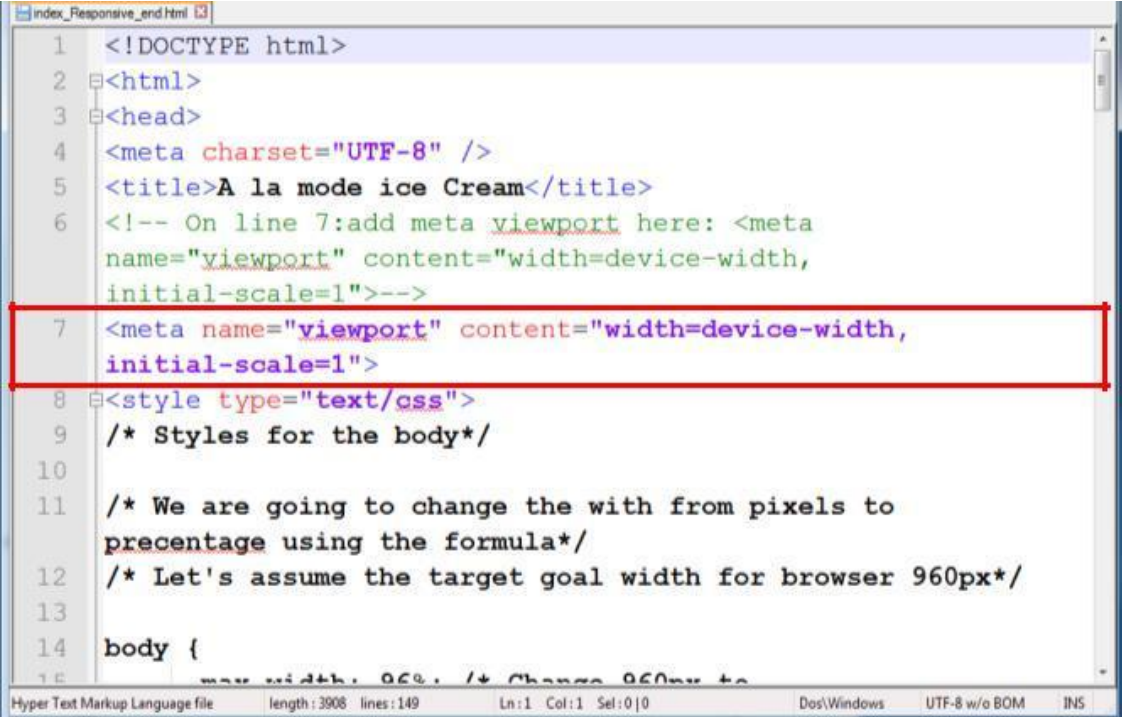
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Before you start working on this assignment, make sure to check out/review RWD PowerPoint posted on Blackboard.

### Steps to do the converting:

- I. Create a folder in your hard drive or Flash drive, preferably in the folder you have all the tutorial assignments. Name the folder **rwd**. Download the **rwd data files.zip**; extract the zipped file to the **rwd** folder you just created.  
Note: **rwd data files.zip** is posted on BB Assignments.
- II. Open **index\_fixed\_start.html** using your favorite editor; save the file as **index\_rwd.html**
- III. Preview the **index\_rwd.html** you just saved in any browser. Resize the browser's window, you can see that this page is a fixed-width page, not a responsive web page.
- IV. Now, to make the page responsive:
  1. Add the following **viewport meta** tag before the CSS style section  
**<meta name="viewport" content="width=device-width, initial-scale=1">**
  2. Save the file, and see below screen capture 1 for reference.

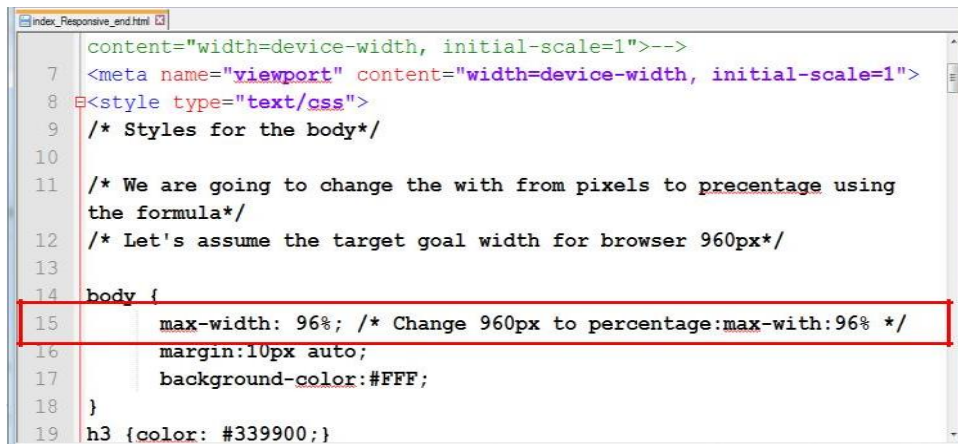
Screen capture 1



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="UTF-8" />
5 <title>A la mode ice Cream</title>
6 <!-- On line 7:add meta viewport here: <meta
   name="viewport" content="width=device-width,
   initial-scale=1">-->
7 <meta name="viewport" content="width=device-width,
   initial-scale=1">
8 <style type="text/css">
9 /* Styles for the body*/
10
11 /* We are going to change the with from pixels to
   precentage using the formula*/
12 /* Let's assume the target goal width for browser 960px*/
13
14 body {
15     max width: 960px; /* Change 960px to
```

3. Convert the CSS part to be fluid; **based on the formula: (original pixels/target goal pixels)\* 100%**. Let's use 960px for the target goal browser width
- a. On line 15: **Change the body width to "max-width: 96%"**. (Calculated from the Formula:  $(960/960)*100\%= 96\%$ )
- Save the file and see screen capture 2 for reference

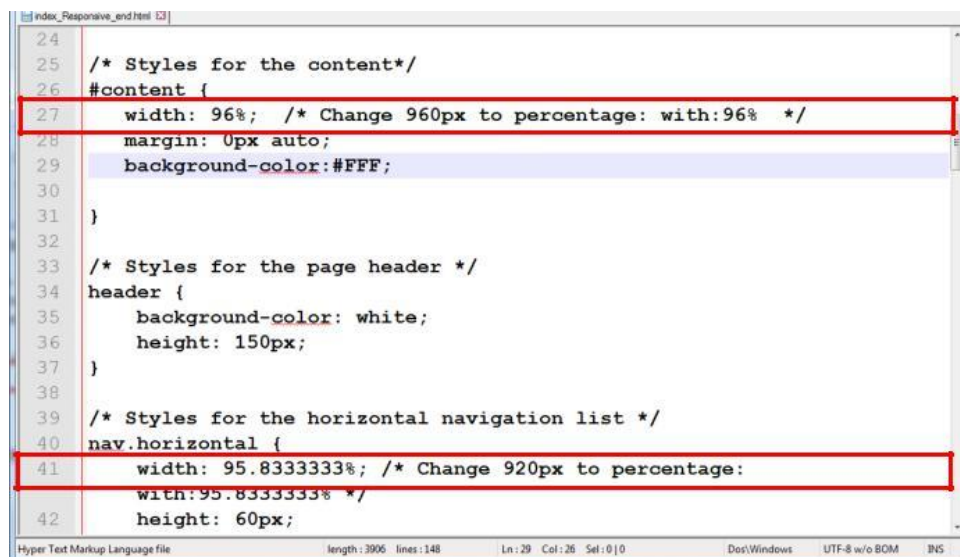
Screen capture 2



```
index_Responsive_end.html
7 content="width=device-width, initial-scale=1">-->
8 <meta name="viewport" content="width=device-width, initial-scale=1">
9 <style type="text/css">
10 /* Styles for the body*/
11 /* We are going to change the with from pixels to precentage using
12 the formula*/
13 /* Let's assume the target goal width for browser 960px*/
14 body {
15     max-width: 96%; /* Change 960px to percentage: max-width: 96% */
16     margin: 10px auto;
17     background-color: #FFF;
18 }
19 h3 {color: #339900;}
```

- b. On line 27: **change the #content width to 96%**  
Calculated from the Formula:  $(960/960)*100\%= 96\%$
- c. On line 41: **change the nav.horizontal width to 95.8333333%**  
Calculated from the Formula:  $(920/960)*100\%= 95.8333333\%$ ;  
Do not round up, keep the long decimal point numbers!
- Save the file and see screen capture 3 for reference.

Screen capture 3



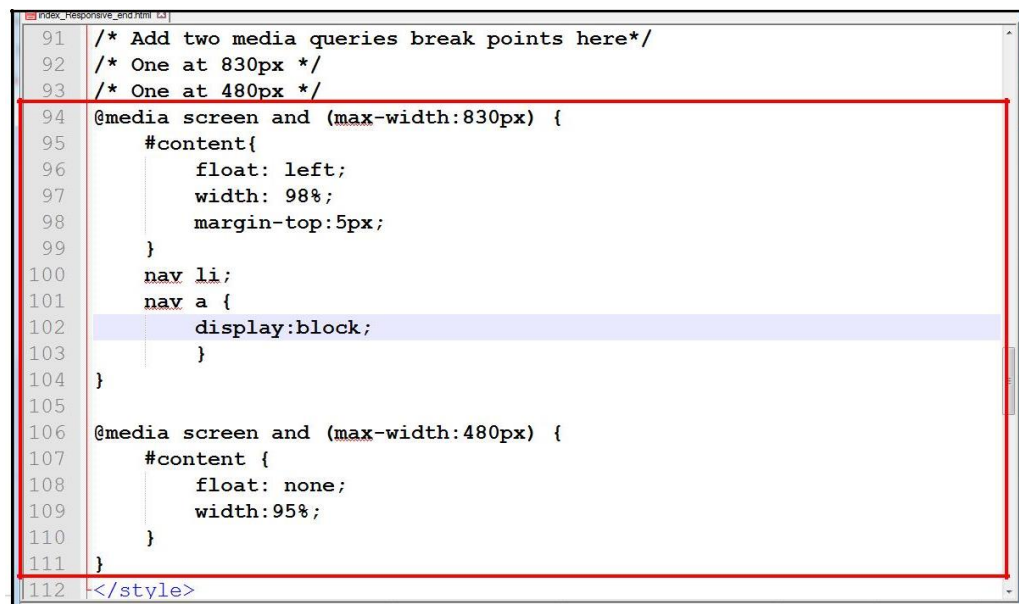
```
index_Responsive_end.html
24
25 /* Styles for the content*/
26 #content {
27     width: 96%; /* Change 960px to percentage: width: 96% */
28     margin: 0px auto;
29     background-color: #FFF;
30 }
31
32 /* Styles for the page header */
33 header {
34     background-color: white;
35     height: 150px;
36 }
37
38 /* Styles for the horizontal navigation list */
39 nav.horizontal {
40
41     width: 95.8333333%; /* Change 920px to percentage:
42     width: 95.8333333% */
43     height: 60px;
```

- d. On line 94 and line 106: Add the following two media query break points at the end of the style section.

```
@media screen and (max-width:830px) {  
  #content {  
    float: left;  
    width: 98%;  
    margin-top:5px;  
  }  
  nav li;  
  nav a {  
    display:block;  
  }  
}  
@media screen and (max-width:480px) {  
  #content {  
    float: none;  
    width:95%;  
  }  
}
```

- e. Save the file and see screen capture 4 for reference.

Screen capture 4



```
91 /* Add two media queries break points here*/  
92 /* One at 830px */  
93 /* One at 480px */  
94 @media screen and (max-width:830px) {  
95     #content{  
96         float: left;  
97         width: 98%;  
98         margin-top:5px;  
99     }  
100     nav li;  
101     nav a {  
102         display:block;  
103     }  
104 }  
105  
106 @media screen and (max-width:480px) {  
107     #content {  
108         float: none;  
109         width:95%;  
110     }  
111 }  
112 </style>
```

4. Now, you are done adding the necessary codes for the page to be responsive page. Let's test with the new media queries to see whether or not they're hitting the right breakpoints.
- a. Open the **index\_rwd.html** in any browser; resize the browser window to see the changes.

Notes: This is helpful and gives immediate feedback, however:

- The feedback is not really the actual trigger points
- It does not show how the site will render
- It overlooks the performance

b. Use one the following Simulator Testing Tools to test your file:

<http://www.benjaminkeen.com/open-source-projects/smaller-projects/responsive-design-bookmarklet/>

The following online simulator allows you to just enter the URL:

<http://responsivepx.com/>

<http://mobitest.akamai.com/m/index.cgi>

c. You can test the ***index\_rwd.html*** after you uploaded to st3w.ivc.edu with a smart phone or iPad.

- V. Upload your rwd folder to st3w.ivc.edu, (index.htm and the supported images file)
- VI. Update the rwd assignment link on your electronic portfolio
- VII. Test your rwd assignment on any browser on your computer or your mobile devices.