

WEB PROGRAMMING AND APPLICATIONS (503073)

WEEK 2

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Exercise 1, 2, 5. Common CSS properties

1. Change text color: `color: #0099cc`
2. Remove underline of a hyperlink: `text-decoration: none;`
3. Change background color: `background-color: #0099cc`
4. Make the text bold: `font-weight: bold;`
5. Make the text italic: `font-style: italic`
6. Create border: `border: 2px solid red;`
7. Change font family: `font-family: "Times New Roman";`
8. Hide an item: `display: none;`
9. Set width and height: `width: 100px; height: 200px;`
10. Set padding and margin: `padding: 20px; margin: 20px;`
11. Align text center: `text-align: center`
12. Change hyperlink text when mouse focus:

```
a:hover{
    color: #9933cc;
}
```

Exercise 3. Create 3 columns layout

Step 1: Create 3 div tags (33%, 34%, 33%):



```
<style>
  #content{
    width: 100%;
    height: 100px;
  }

  #left{
    width: 33%;
    height: 100%;
    background-color: #0099cc;
  }

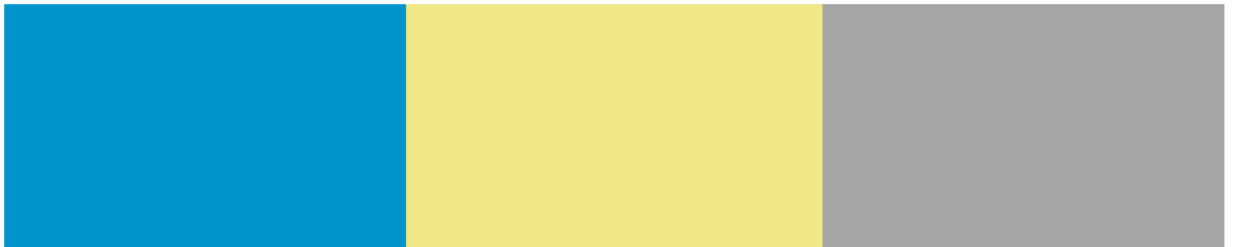
  #center{
    width: 34%;
    height: 100%;
    background-color: khaki;
  }

  #right{
    width: 33%;
    height: 100%;
    background-color: darkgrey;
  }
</style>

<div id="content">
  <div id="left"></div>
  <div id="center"></div>
  <div id="right"></div>
</div>
```

Step 2: Use float left property to make arrange div tags side by side.

```
#left{  
  width: 33%;  
  height: 100%;  
  background-color: #0099cc;  
  float: left;  
}  
  
#center{  
  width: 34%;  
  height: 100%;  
  background-color: khaki;  
  float: left;  
}  
  
#right{  
  width: 33%;  
  height: 100%;  
  background-color: darkgrey;  
  float: left;  
}
```



Note: These columns are all floating to the left, and are therefore taken out of the flow of the page, and other elements will be placed as if the columns do not exist. To prevent this, we will add a style that clears the flow: `clear: both`

Exercise 4. Create a responsive web page

View port

The viewport is the user's visible area of a web page. The viewport varies with the device, and will be smaller on a mobile phone than on a computer screen. You should include the following `<meta>` viewport element in all your web pages:

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

Visit https://www.w3schools.com/css/css_rwd_viewport.asp for more information about viewport.

Gridview

A responsive grid-view often has 12 columns, and has a total width of 100%, and will shrink and expand as you resize the browser window.

Click https://www.w3schools.com/css/tryresponsive_grid.htm to view an example of responsive grid-view (recommended).

- Build a responsive grid-view:

First ensure that all HTML elements have the box-sizing property set to border-box:

```
box-sizing: border-box;
```

Then we make one class for each of the 12 columns, class="col-" and a number defining how many columns the section should span:

```
.col-1 {width: 8.33%;}  
.col-2 {width: 16.66%;}  
.col-3 {width: 25%;}  
.col-4 {width: 33.33%;}  
.col-5 {width: 41.66%;}  
.col-6 {width: 50%;}  
.col-7 {width: 58.33%;}  
.col-8 {width: 66.66%;}  
.col-9 {width: 75%;}  
.col-10 {width: 83.33%;}  
.col-11 {width: 91.66%;}  
.col-12 {width: 100%;}
```

All these columns should be floating to the left, and have a padding of 15px:

```
[class*="col-"] {  
  float: left;  
  padding: 15px;  
}
```

```
border: 1px solid red;  
}
```

Each row should be wrapped in a `<div>`. The number of columns inside a row should always add up to 12:

```
<div class="row">  
  <div class="col-3">...</div> <!-- 25% -->  
  <div class="col-9">...</div> <!-- 75% -->  
</div>
```

The columns inside a row are all floating to the left, and are therefore taken out of the flow of the page, and other elements will be placed as if the columns do not exist. To prevent this, we will add a style that clears the flow:

```
.row::after {  
  content: "";  
  clear: both;  
  display: table;  
}
```

We also want to add some styles and colors to make it look better (do it yourself).

- Use Media Query to support mobile devices

Media Query It uses the `@media` rule to include a block of CSS properties only if a certain condition is true.

```
@media only screen and (max-width: 768px) {  
  /* For mobile phones: */  
  [class*="col-"] {  
    width: 100%;  
  }  
}
```

For more information about responsive, click here:
https://www.w3schools.com/css/css_rwd_intro.asp