

28.01.2023 *Mobile responsive and Positions*

Assignment



1. What are media queries in CSS and their use case?
2. Difference between min-width and max-width in media queries in CSS
3. Explain float property and clear property in CSS with examples.

Note: Please create a Google Document and write your answers and upload the shareable link of the Google Document with view access during the submission of the assignment.

1) *What are media queries in CSS and their use case?*

Ans) Media queries are a feature of CSS that allows you to apply different styles to a webpage based on the characteristics of the device it is being displayed on. This can be useful for creating responsive designs that look good on a variety of different devices, such as smartphones, tablets, and desktop computers.

2) *Difference between min-width and max-width in media queries in CSS?*

Ans) Basic explanation of difference between min width & max width is as follows.:
There are more breakpoints for devices which can be tested for. Although here we use the term as device screens, what we actually consider is the screen width. Lets have an understanding about min-width & max-width using a small example.

```
</head>
<style>
  #container {
    height: 300px;
    width: 100%;
  }
  @media only screen and (min-width: 320px) and (max-width: 480px) {
    #container {
      background-color: blue; }
  }
  @media only screen and (min-width: 481px) and (max-width: 1024px) {
    #container {
      background-color: yellow; }
  }
  @media only screen and (min-width: 1025px) {
    #container {
      background-color: red; }
  }
</style>
</head>
<body>
  <div id="container"></div>
</body>
```

In the above example code creates a box that changes color depending on what type of device it's being viewed on. If it's on a small phone, the box will be red. If it's on a tablet, the box will be yellow. And if it's on a big computer, the box will be red again. This is called "responsive design," and it makes websites look good on different devices.

3) Explain float property and clear property in CSS with examples.

Ans) The float property in CSS is used to make an element float to the left or right of its container, so that other elements can wrap around it. It's kind of like a boat floating in a lake, and other boats can float around it. For example:

```
<head>
  <title>The Float Property</title>
  <style>
    .floating-box {
      float: right;
      width: 200px;
      height: 100px;
      background-color: lightblue;    }
  </style>
</head>
<body>
  <h2>Example of float property</h2>
  <p>This is some text before the floating box.</p>
  <div class="floating-box"></div>
  <p>This is some text after the floating box.</p>
</body>
```

The clear property in CSS is used to make sure that an element doesn't float next to a floated element. It's like making sure that boats don't float too close to each other, and leave enough space. For example:

```
<head>
  <title>Clear Property in Float</title>
  <style>
    .floating-box {
      float: right;
      width: 200px;
      height: 100px;
      background-color: lightblue;    }
    .clear {
      clear: both;    }
  </style>
</head>
<body>
  <h2>Example of clear property</h2>
  <p>This is some text before the floating box.</p>
  <div class="floating-box"></div>
  <div class="clear"></div>
  <p>This is some text after the floating box.</p>
</body>
```

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