## **Media Query**

# Assignment Solution







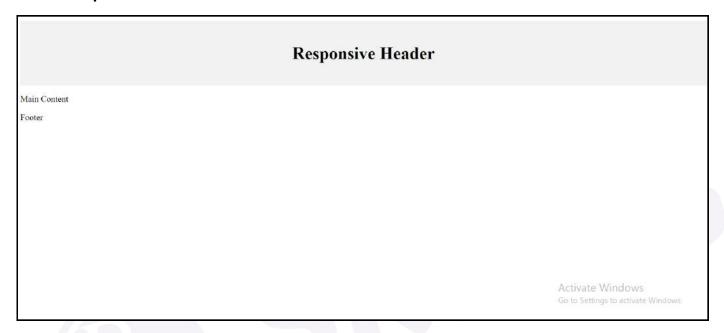
#### Task 1:

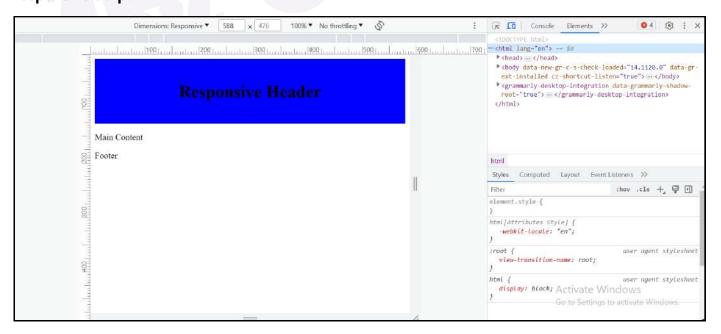
#### **Problem Statement**

Create a simple webpage with a header, a main content section, and a footer. Apply a media query that changes the background color of the header to blue when the screen width is less than 600px.

#### **Expected Outputs**

#### **Normal Output**







```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <style>
      header {
        background-color: #f2f2f2;
       padding: 20px;
       text-align: center;
     @media screen and (max-width: 600px) {
       header {
          background-color: blue;
       }
    </style>
  </head>
  <body>
    <header>
      <h1>Responsive Header</h1>
    </header>
    <main>
      Main Content
    </main>
    <footer>
    Footer
    </footer>
  </body>
</html>
```



#### Task 2:

#### **Problem Statement**

Create an image gallery with three images in a row. Use media queries to adjust the layout to two images in a row for screens smaller than 800px and one image in a row for screens smaller than 500px.

For image use this link (Image Link)

#### **Expected Output**

#### **First Output**

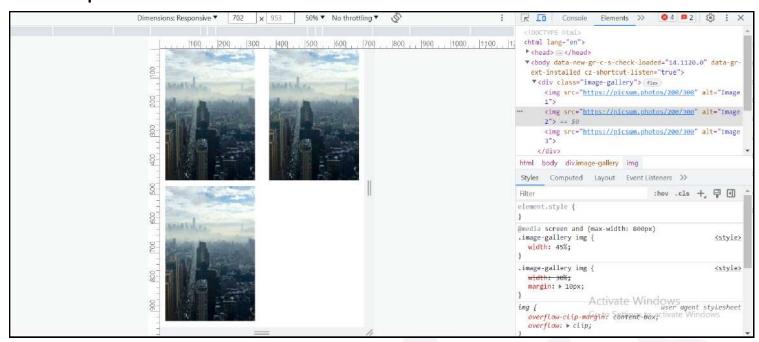




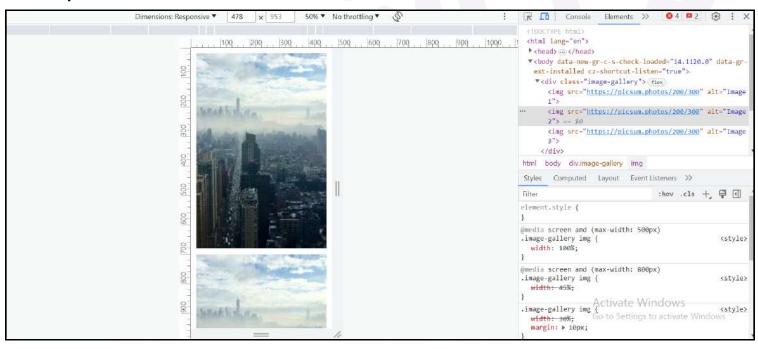




#### **Second Output**



#### **Third Output**





```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <style>
    .image-gallery {
      display: flex;
      flex-wrap: wrap;
      justify-content: space-between;
    }
    .image-gallery img {
     width: 30%;
      margin: 10px;
    @media screen and (max-width: 800px) {
      .image-gallery img {
        width: 45%;
     }
    @media screen and (max-width: 500px) {
      .image-gallery img {
        width: 100%;
    }
  ⟨style>
  <body>
    <div class="image-gallery">
      <img src="https://picsum.photos/200/300" alt="Image 1" />
      <img src="https://picsum.photos/200/300" alt="Image 2" />
      <img src="https://picsum.photos/200/300" alt="Image 3" />
    </div>
  </body>
</html>
```



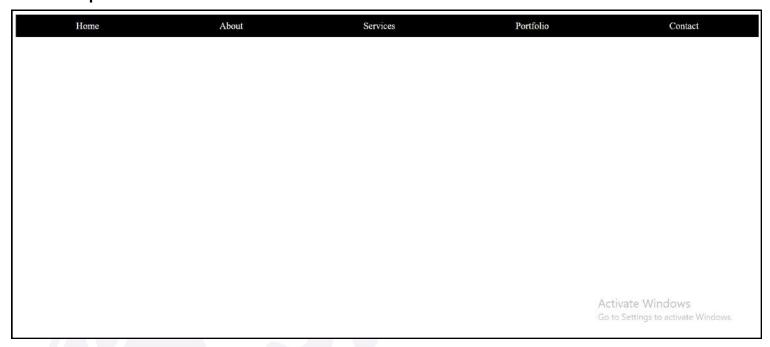
#### Task 3:

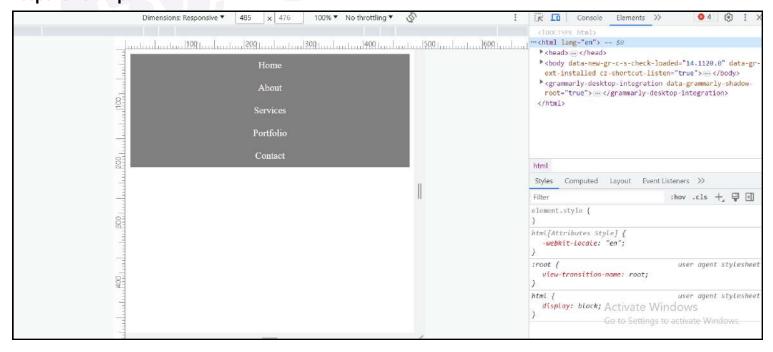
#### **Problem Statement**

Create a navigation bar with five links. Apply a media query that converts the navigation into a vertical list for screens smaller than 768px and also changes the background color to gray.

#### **Expected Outputs**

#### **Normal Output**







```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <style>
    .navbar {
      display: flex;
      justify-content: space-around;
      background-color: black;
    }
    .navbar a {
      text-decoration: none;
      padding: 10px;
      color: white;
    }
    @media screen and (max-width: 768px) {
      .navbar {
        flex-direction: column;
        align-items: center;
        background-color: gray;
      }
    }
  </style>
  <body>
    <nav class="navbar">
      <a href="#">Home</a>
      <a href="#">About</a>
      <a href="#">Services</a>
      <a href="#">Portfolio</a>
      <a href="#">Contact</a>
    </nav>
  </body>
</html>
```



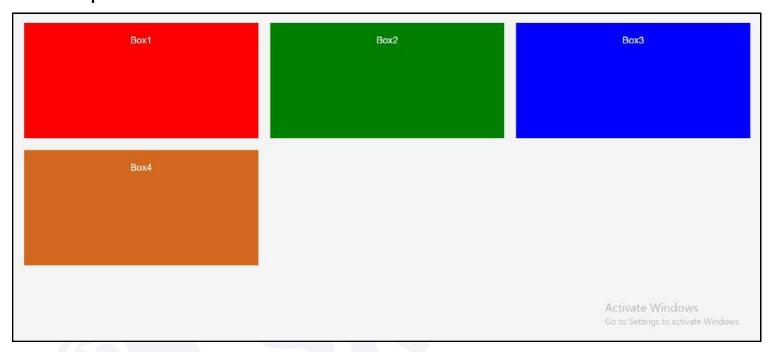
#### Task 4:

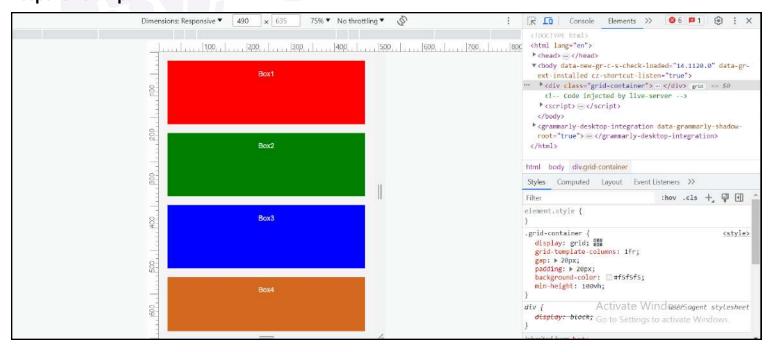
#### **Problem Statement**

Create a grid based layout containing four grid items which arranges them as the screen size changes.

#### **Expected Outputs**

#### **Normal Output**







```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link rel="stylesheet" href="styles.css" />
    <title>Responsive Grid Layout Example</title>
  </head>
  <style>
    body {
      margin: 0;
      font-family: Arial, sans-serif;
    }
    .grid-container {
      display: grid;
      grid-template-columns: 1fr;
      gap: 20px;
      padding: 20px;
      background-color: #f5f5f5;
      min-height: 100vh;
    }
    .item {
      background-color: #ddd;
      padding: 20px;
     text-align: center;
    }
    .header {
      background-color: red;
      color: white;
    }
    .sidebar {
      background-color: green;
      color: white;
    }
    .main {
      background-color: blue;
      color: white;
    }
    .footer {
      background-color: chocolate;
      color: white;
    }
```



```
/* Media Queries */
   @media screen and (min-width: 768px) {
     .grid-container {
       grid-template-columns: repeat(3, 1fr);
       grid-template-areas:
          "header header header"
         "sidebar main main"
         "footer footer";
     }
   }
 </style>
 <body>
   <div class="grid-container">
     <div class="item header">Box1</div>
     <div class="item sidebar">Box2</div>
     <div class="item main">Box3</div>
     <div class="item footer">Box4</div>
 </body>
</html>
```



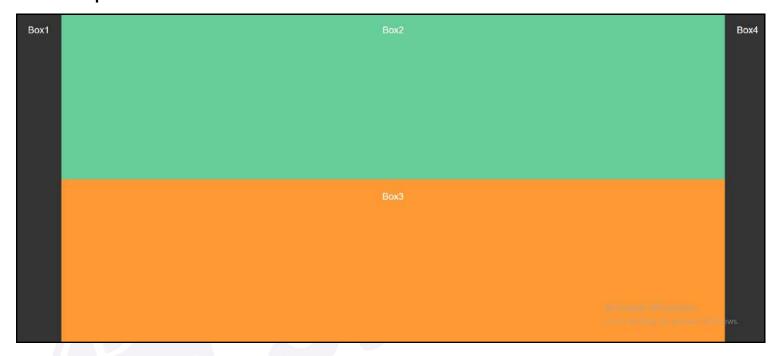
#### Task 5:

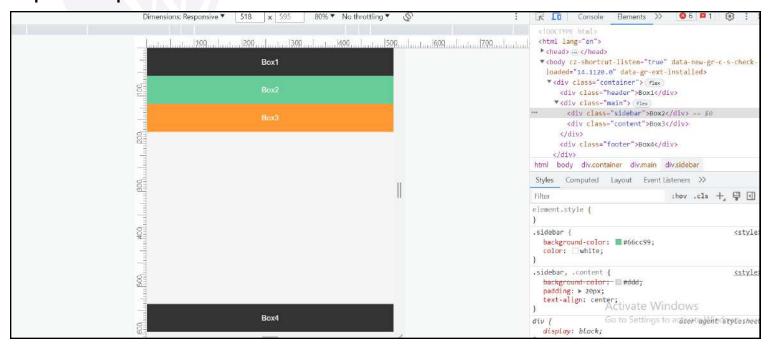
#### **Problem Statement**

Create the below given layout using the flexbox in css, which should adapt itself on mobile screen as per given below output.

#### **Expected Outputs**

#### **Normal Output**







```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link rel="stylesheet" href="styles.css" />
    <title>Responsive Flex Layout Example
  </head>
  <style>
    body {
      margin: 0;
      font-family: Arial, sans-serif;
    }
    .container {
      display: flex;
      flex-direction: column;
      min-height: 100vh;
      background-color: #f5f5f5;
    }
    .header,
    .footer {
      background-color: #333;
      color: white;
      padding: 20px;
     text-align: center;
    }
    .main {
      display: flex;
      flex-direction: column;
      flex: 1;
    }
    .sidebar,
    .content {
      background-color: #ddd;
      padding: 20px;
      text-align: center;
    }
    .sidebar {
      background-color: #66cc99;
      color: white;
    }
```



```
.content {
     background-color: #ff9933;
     color: white;
   }
   /* Media Queries */
   @media screen and (min-width: 768px) {
      .container {
       flex-direction: row;
      .sidebar,
      .content {
       flex: 1;
     }
 </style>
 <body>
   <div class="container">
     <div class="header">Header</div>
     <div class="main">
        <div class="sidebar">Sidebar</div>
        <div class="content">Main Content</div>
     <div class="footer">Footer</div>
    </div>
 </body>
</html>
```