

# MEDIA QUERY - Assignment

1. 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.

## HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Media Query</title>
  <link href="style.css" rel="stylesheet">
<body>
  <header>Responsive header</header>
  <main>Main Content</main>
  <footer>Footer</footer>
</body>
</html>
```

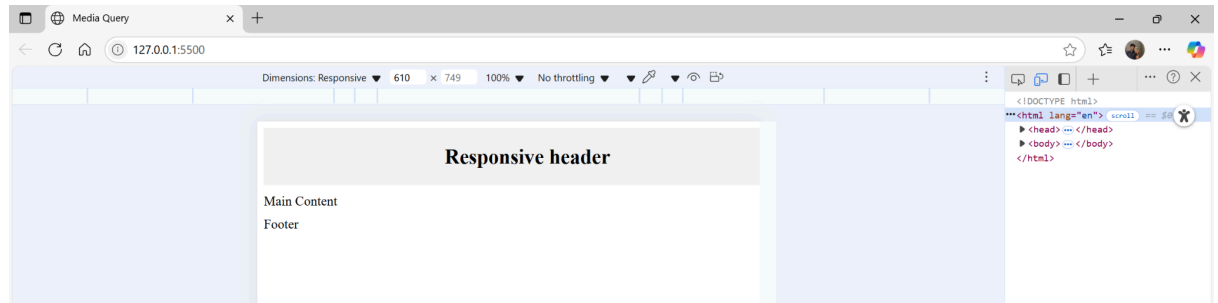
## CSS:

```
header{
  background-color: #f3f3f3;
  width: 100%;
  padding: 20px;
  font-size:25px;
  font-weight:bold;
  text-align: center;
}
main{
  padding-top:10px;
}
footer{
  padding-top:10px;
}
@media screen and (max-width:600px){
  header{
    background-color:blue;
  }
}
```

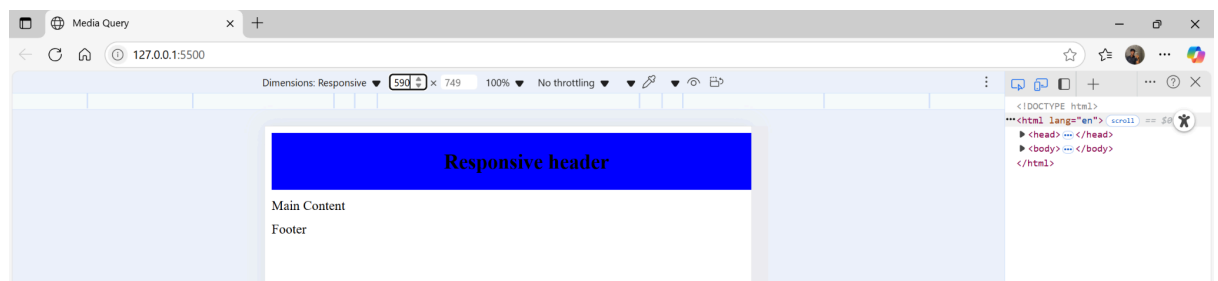
```
}
```

OUTPUT:

NORMAL:



RESPONSIVE:



- 
2. 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.

HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Media Query</title>
  <link href="style.css" rel="stylesheet">
<body>
  <div class="gallery">
    
    
```

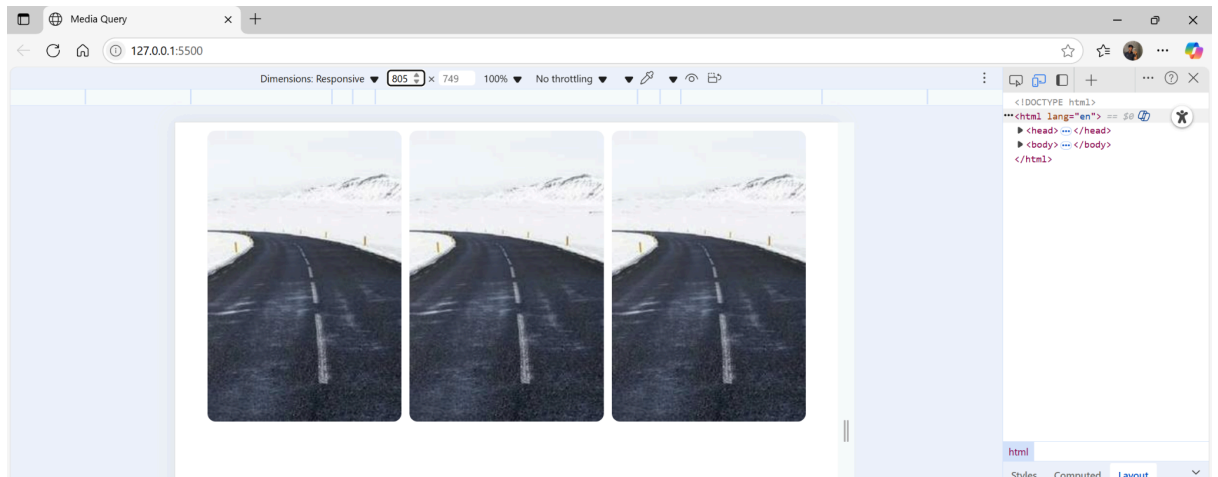
```
        
    </div>
</body>
</html>
```

## CSS:

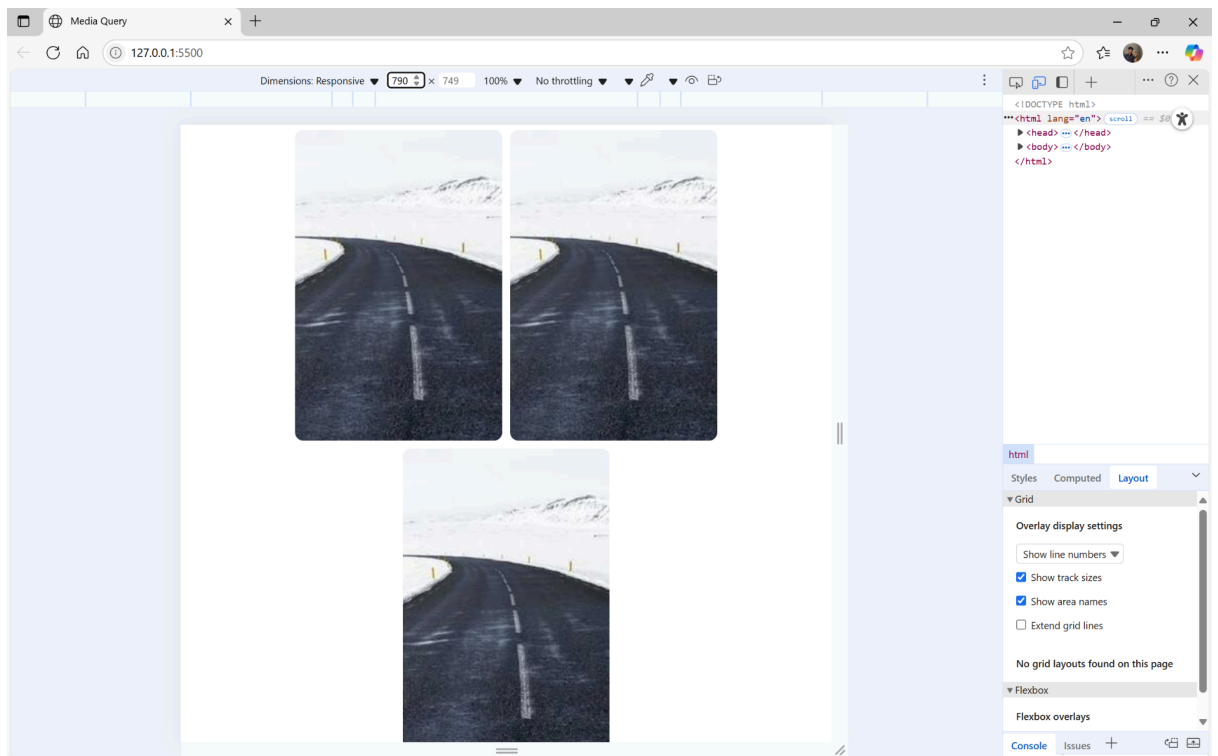
```
body{
    margin:0px;
    padding:0px;
}
.gallery{
    display: flex;
    flex-wrap: wrap;
    justify-content: center;
    padding: 10px;
    gap:10px;
}
.gallery img{
    width: 30%;
    height:auto;
    object-fit: cover;
    border-radius: 10px;
}
@media screen and (max-width:800px){
    .gallery img{
        width:calc(30% + 20px);
    }
}
@media screen and (max-width:500px){
    .gallery img{
        width: 100%;
    }
}
```

## OUTPUT:

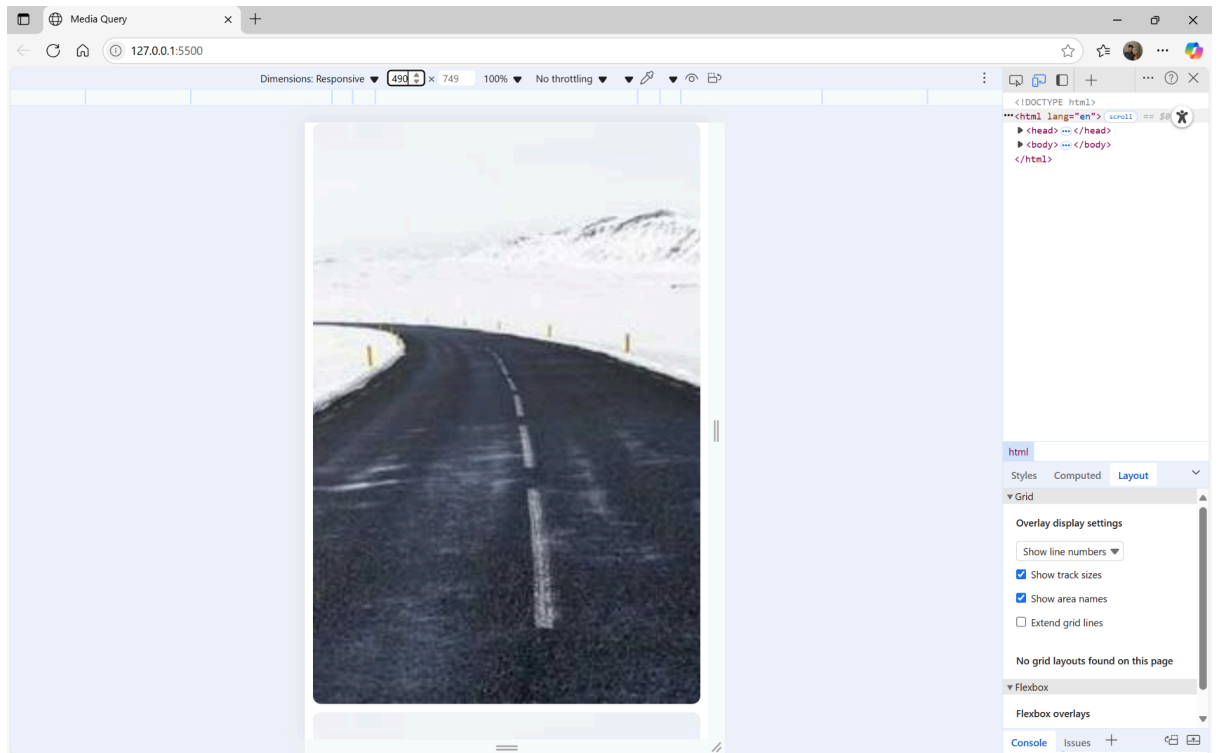
First: Above 800px



Second: Between 500px and 800px



Third: Below 500px



- 
3. 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.

#### HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Media Query</title>
  <link href="style.css" rel="stylesheet">
</head>
<body>
  <nav class="navbar">
    <ul class="nav-container">
      <li><a href="">Home</a></li>
      <li><a href="">About</a></li>
      <li><a href="">Service</a></li>
      <li><a href="">Portfolio</a></li>
```

```

        <li><a href="">Contact</a></li>
    </ul>
</nav>
</body>
</html>

```

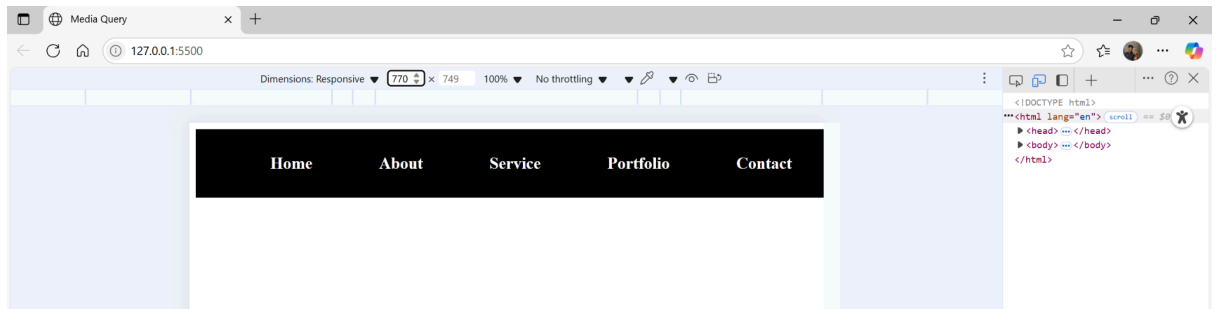
## CSS:

```

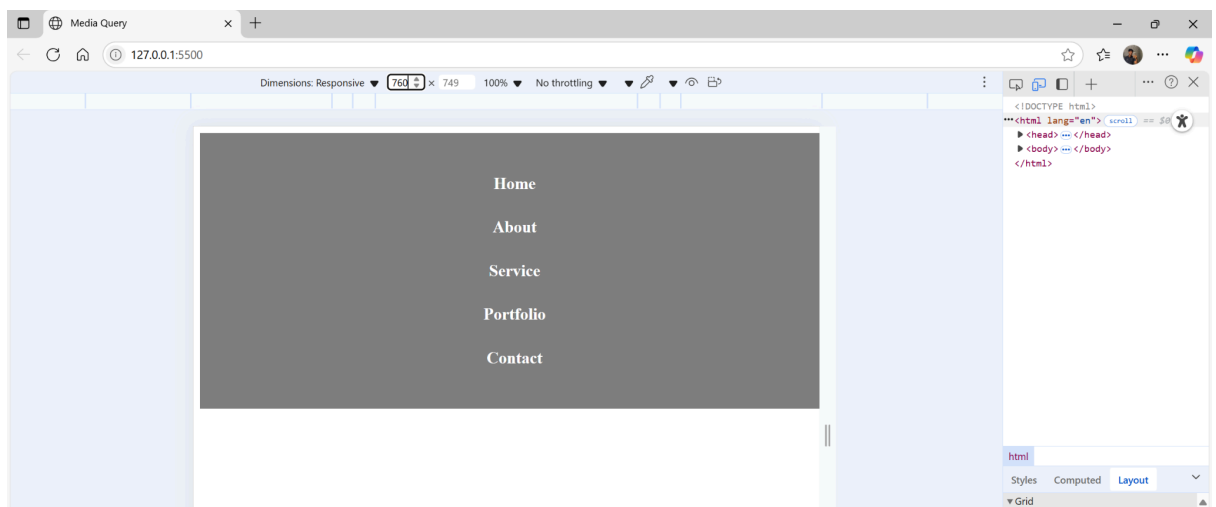
.navbar{
    background-color:black;
    width:100%;
    padding: 10px;
}
.nav-container{
    display: flex;
    list-style: none;
    justify-content: space-around;
    font-size:20px;
    font-weight:bold;
}
.nav-container li a{
    text-decoration: none;
    color: white;
}
li a:hover{
    background-color: white;
    color: black;
    padding:10px;
    transition: 0.2s ease-in-out;
}
@media screen and (max-width:768px){
    .navbar{
        background-color: gray;
    }
    .nav-container{
        display: flex;
        flex-direction: column;
        align-items: center;
        padding: 20px;
        gap:30px;
    }
}

```

OUTPUT: 768px<



768px>



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

HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Media Query</title>
  <link href="style.css" rel="stylesheet">
</head>
<body>
```

```
<div class="container">
  <div class="box box1">Box1</div>
  <div class="box box2">Box2</div>
  <div class="box box3">Box3</div>
  <div class="box box4">Box4</div>
</div>
</body>
</html>
```

## CSS:

```
.container{
  border:2px solid black;
  display: grid;
  grid-template-columns: 1fr 1fr 1fr;
  width:fit-content;
  color: white;
}
.box{
  margin: 10px;
  display: flex;
  justify-content: center;
  width:200px;
  height: 100px;
  padding: 20px;
}
.box1{
  border:1px solid red;
  background-color: red;
}
.box2{
  border:1px solid green;
  background-color: green;
}
.box3{
  border:1px solid blue;
  background-color: blue;
}
.box4{
  border:0px solid chocolate;
  background-color: chocolate;
}
```



```

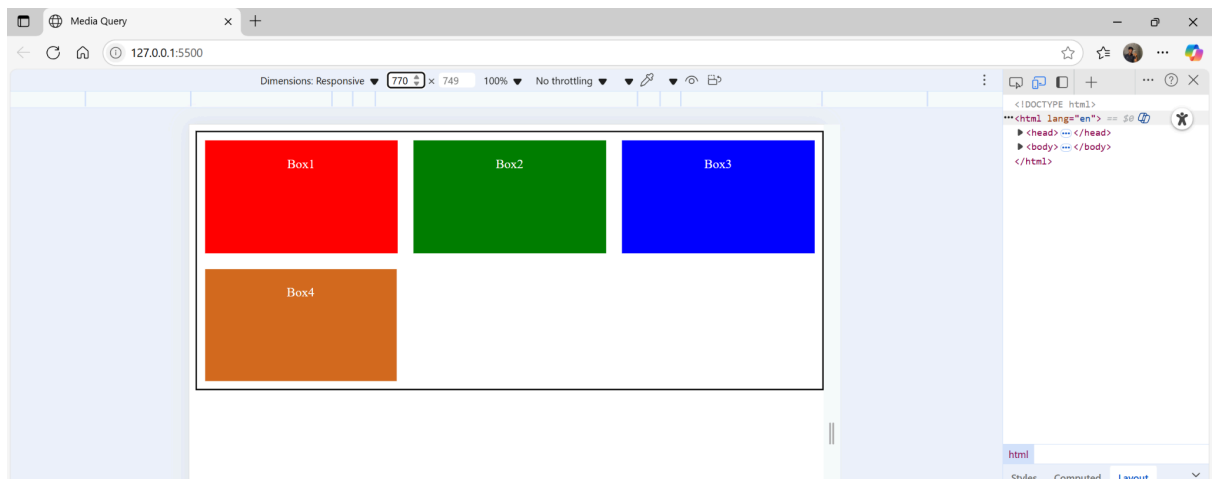
@media screen and (max-width:768px){
  .container{
    display:grid;
    grid-template-columns: 1fr 1fr;
    grid-template-rows: 1fr 1fr;
  }
}

@media screen and (max-width:576px){
  .container{
    display:grid;
    grid-template-columns: 1fr;
    grid-template-rows: 1fr;
  }
}

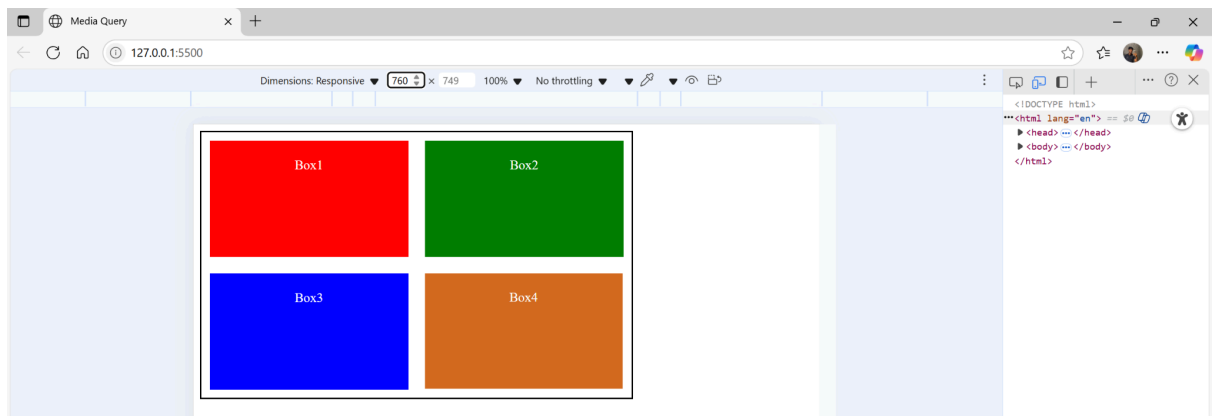
```

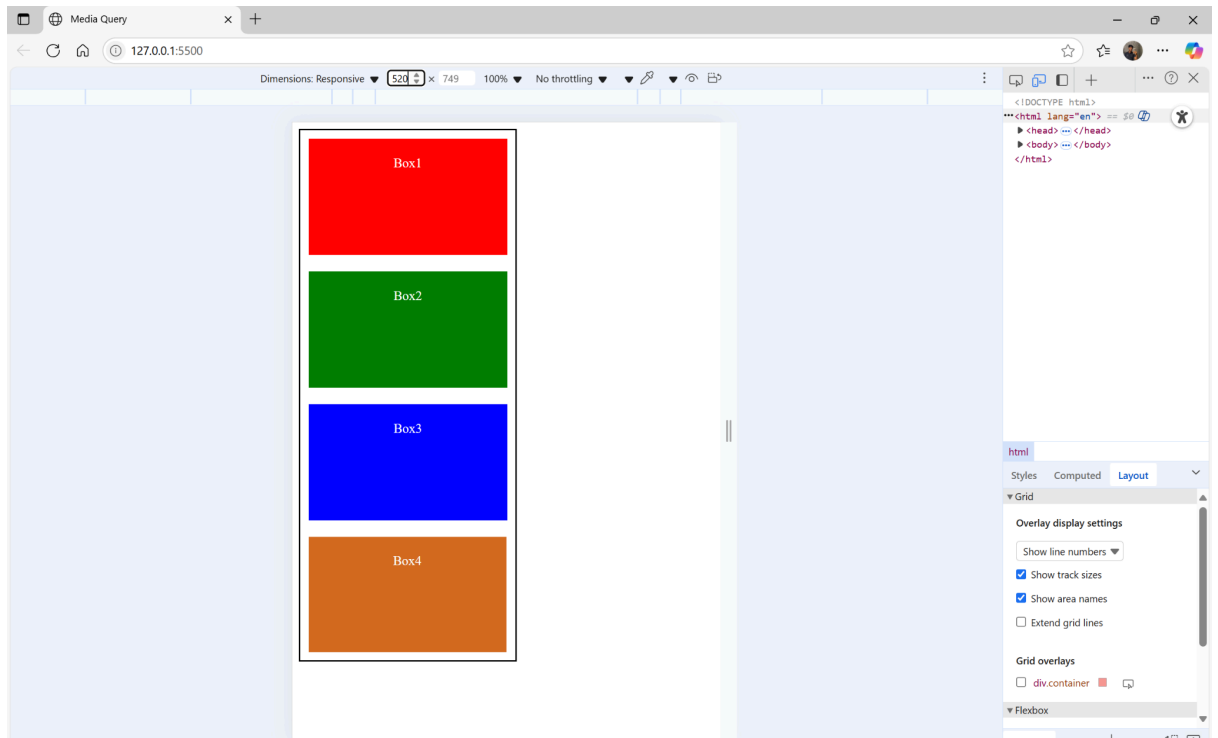
OUTPUT:

NORMAL:



RESPONSIVE:





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

HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Media Query</title>
  <link href="style.css" rel="stylesheet">
</head>
<body>
  <div class="container">
    <div class="header">Box1</div>
    <div class="main">
      <div class="sidebar">Box2</div>
      <div class="content">Box3</div>
    </div>
    <div class="footer">Box4</div>
  </div>
```

```
</body>
</html>
```

## CSS:

```
.container{
  border:1px solid black;
  display: grid;
  grid-template-columns: 1fr 4fr 1fr;
  width:100%;
  height:100%;
}
.header{
  background-color: gray;
  display: flex;
  justify-content: center;
  align-items: center;
  color:white;
}
.main{
  display: grid;
  grid-template-columns: 1fr;
  color: white;
  height: 600px;
}
.sidebar{
  display: flex;
  justify-content: center;
  align-items: center;
  background-color: lightgreen;
  padding: 20px;
}
.content{
  display: flex;
  justify-content: center;
  align-items: center;
  background-color: orange;
  padding: 20px;
}
.footer{
  background-color: gray;
  display: flex;
  justify-content: center;
```

```

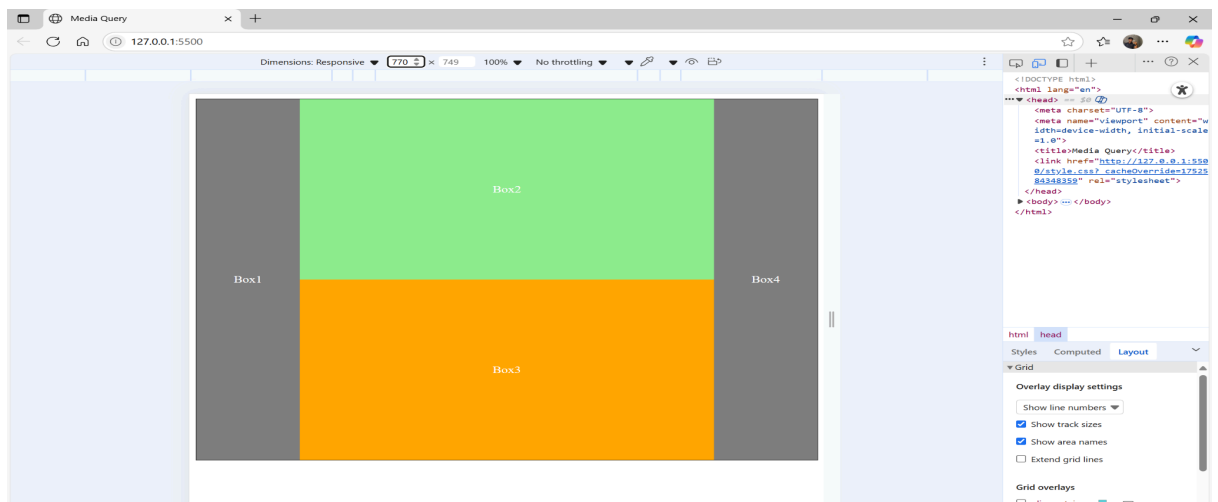
        align-items: center;
        color: white;
        padding: 10px;
    }
}
@media screen and (max-width:768px){
    .container{
        display: grid;
        grid-template-columns:1fr;

    }
    .header{
        padding: 20px;
    }
    .main{
        display: grid;
        grid-template-rows: 1fr 9fr;
    }
    .sidebar{
        height: 20px;
    }
    .content{
        height:20px;
    }
    .footer{
        padding: 20px;
    }
}

```

OUTPUT:

Normal:



## Responsive:

