

CSS3 Responsive Web Design

Responsive web design provides an optimal experience, easy reading and easy navigation with a minimum of resizing on different devices such as desktops, mobiles and tabs)

Responsive structure

Below image shows the responsive structure of web pages.



Flexible Grid demo

```
<html>
<head>
</head>

<style>
  body {
    font: 600 14px/24px "Open Sans", "HelveticaNeue-Light", "Helvetica Neue
Light", "Helvetica Neue", Helvetica, Arial, "Lucida Grande", Sans-Serif;
  }
  h1 {
    color: #9799a7;
    font-size: 14px;
    font-weight: bold;
    margin-bottom: 6px;
  }
  .container:before, .container:after {
    content: "";
    display: table;
  }
  .container:after {
    clear: both;
  }
  .container {
    background: #eaeaed;
    margin-bottom: 24px;
    *zoom: 1;
  }
}
```

```

.container-75 {
  width: 75%;
}
.container-50 {
  margin-bottom: 0;
  width: 50%;
}
.container, section, aside {
  border-radius: 6px;
}
section, aside {
  background: #2db34a;
  color: #fff;
  margin: 1.858736059%;
  padding: 20px 0;
  text-align: center;
}
section {
  float: left;
  width: 63.197026%;
}
aside {
  float: right;
  width: 29.3680297%;
}
</style>
<body>

<h1>100% Wide Container</h1>

<div >
  <section>Section</section>
  <aside>Aside</aside>
</div>

<h1>75% Wide Container</h1>

<div >
  <section>Section</section>
  <aside>Aside</aside>
</div>

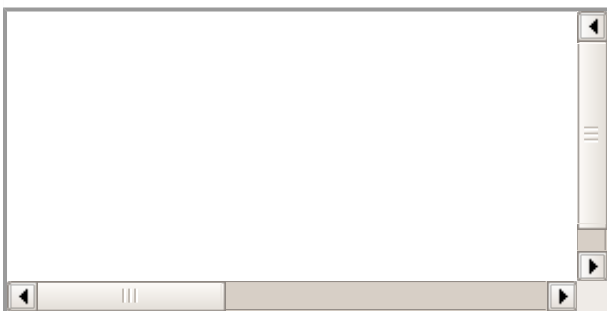
<h1>50% Wide Container</h1>

<div >
  <section>Section</section>
  <aside>Aside</aside>
</div>

</body>
</html>

```

It will produce the following result –



Media queries

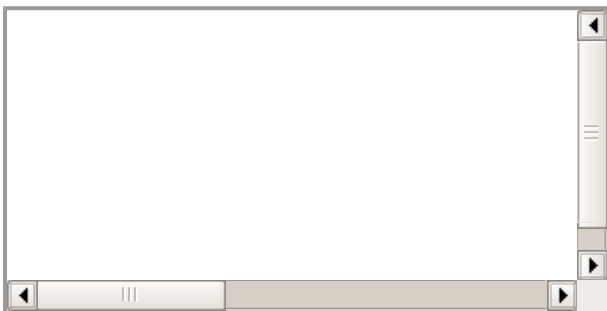
Media queries is for different style rules for different size devices such as mobiles, desktops, etc.,

```

<html>
  <head>
    <style>
      body {
        background-color: lightpink;
      }
      @media screen and (max-width: 420px) {
        body {
          background-color: lightblue;
        }
      }
    </style>
  </head>
  <body>
    <p>If screen size is less than 420px, then it will show lightblue color, or else
it will show light pink color</p>
  </body>
</html>

```

It will produce the following result –



Bootstrap responsive web design

Bootstrap is most popular web design framework based on HTML, CSS and JavaScript and it helps you to design web pages in a responsive way for all devices.

```

<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css">
    <style>
      body{
        color:green;
      }
    </style>
  </head>
  <body>

    <div >

      <div >
        <h1>Tutorials point</h1>
        <p>Tutorials Point originated from the idea that there exists a class of
readers who respond better to online content and prefer to learn new skills at their own
pace from the comforts of their drawing rooms.</p>
      </div>

      <div >
        <div >
          <h2>Android</h2>
          <p>Android is an open source and Linux-based operating system for mobile
devices such as smartphones and tablet computers. Android was developed by the Open
Handset Alliance, led by Google, and other companies.</p>
        </div>

```

```
<div >
  <h2>CSS</h2>
  <p>Cascading Style Sheets, fondly referred to as CSS, is a simple design
language intended to simplify the process of making web pages presentable.</p>
</div>

<div >
  <h2>Java</h2>
  <p>Java is a high-level programming language originally developed by Sun
Microsystems and released in 1995. Java runs on a variety of platforms, such as Windows,
Mac OS, and the various versions of UNIX. This tutorial gives a complete understanding of
Java.</p>
</div>
</div>

</body>
</html>
```

It will produce the following result –

