



RESPONSIVE WEB DESIGN

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What is Responsive Web Design



Responsive Web Design is about using HTML and CSS to automatically resize, hide, shrink, or enlarge, a website, to make it look good on all devices



SETTING THE VIEWPORT

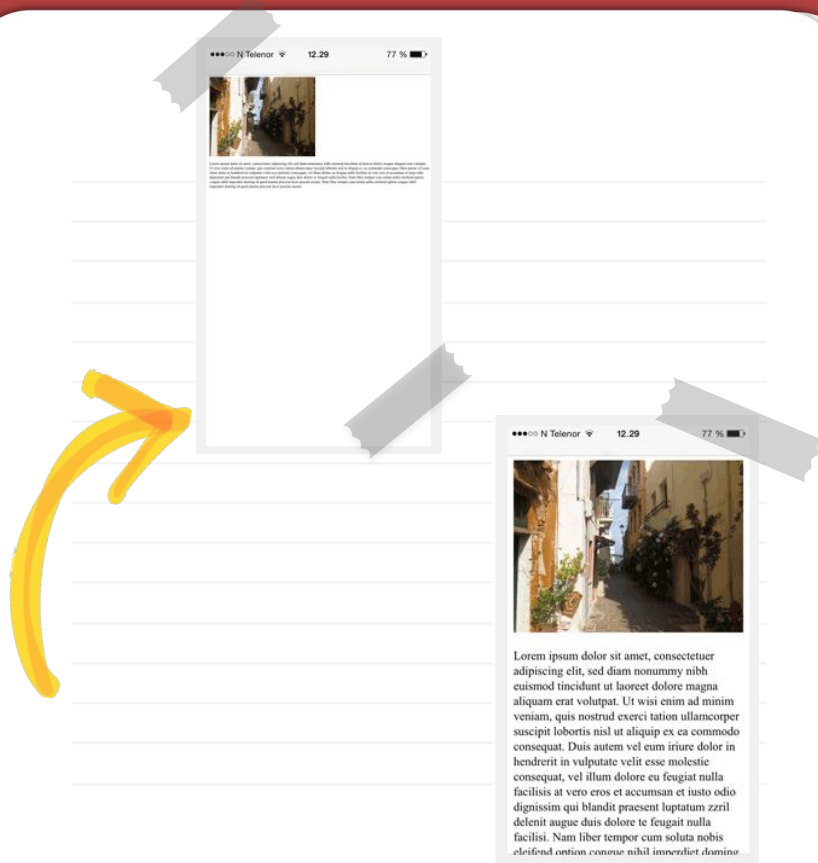
To create a responsive website, add the following `<meta>` tag to all your web pages:

Meta

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

This will set the viewport of your page, which will give the browser instructions on how to control the page's dimensions and scaling.

Here is an example of a web page *without* the viewport meta tag, and the same web page *with* the viewport meta tag:





Responsive Images

Responsive images are
images that scale nicely to
fit any browser size.

Using the width property

If the CSS `width` property is set to 100%, the image will be responsive and scale up and down:

```

```





Using the max-width property

"max-width:100%" prevents the image from getting bigger than its original size. However, if you make the browser window smaller, the image will still scale down.

```

```

Show different images depending on browser width

The HTML `<picture>` element allows you to define different images for different browser window sizes.

Resize the browser width and the image will change at 600px and 1500px.

example

```
<picture>
  <source srcset="img_smallflower.jpg" media="(max-width: 600px)">
  <source srcset="img_flowers.jpg" media="(max-width: 1500px)">
  <source srcset="flowers.jpg">
  
</picture>
```


Responsive Text Size

Responsive Text

Resize the browser window to see how the text size scales.

- Resize the browser window to see how the text size scales.
- Use the "vw" unit when sizing the text. 10vw will set the size to 10% of the viewport width.
- Viewport is the browser window size. 1vw = 1% of viewport width. If the viewport is 50cm wide, 1vw is 0.5cm.

```
<h1 style="font-size:10vw;">
```

Example

```
7 <div class="w3-container w3-pink">
8   <center><h1>RESPONSIVE WEB DESIGN</h1></center>
9 </div>
10
11 <div class="w3-row-padding">
12   <div class="w3-third">
13     <h2>Elementary School</h2>
14     <p>Elementary School usually for children between five and eleven years old</p>
15     <p>The meaning of ELEMENTARY SCHOOL is a school including usually the
16       first four to the first eight grades and often a kindergarten.</p>
17   </div>
18
19   <div class="w3-third">
20     <h2>Middle School</h2>
21     <p>a school for children between the ages of 8 and 12 or 9 and 13</p>
22     <p>a school for children that usually includes grades five to eight or six to eight</p>
23   </div>
24
25   <div class="w3-third">
26     <h2>High School</h2>
27     <p>A high school is a secondary school, where teenagers are educated before starting college
28       or getting jobs. Most high schools have four numbered grades, from ninth to twelfth.
29     </p>
30     <p>secondary school serving students approximately 13 (or 14 or 15) through 18 years of age. </p>
31   </div>
32 </div>
33
34 </body>
35 </html>
```

Example

RESPONSIVE WEB DESIGNING

Elementary School

Elementary School usually for children between five and eleven years old

The meaning of ELEMENTARY SCHOOL is a school including usually the first four to the first eight grades and often a kindergarten.

Middle School

a school for children between the ages of 8 and 12 or 9 and 13

a school for children that usually includes grades five to eight or six to eight

High School

A high school is a secondary school, where teenagers are educated before starting college or getting jobs. Most high schools have four numbered grades, from ninth to twelfth.

secondary school serving students approximately 13 (or 14 or 15) through 18 years of age.