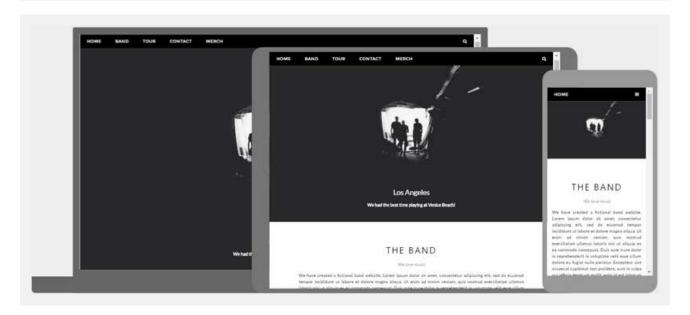


HTML Responsive Web Design





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 (desktops, tablets, and phones):



Note: A web page should look good on any device!

Setting The Viewport

When making responsive web pages, add the following <meta> element in all your web pages:

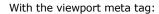


This will set the viewport of your page, which will give the browser instructions on how to control the page's dimensions and scaling.

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









Tip: If you are browsing this page on a phone or a tablet, you can click on the two links above to see the difference.



Cursos Creativos

Aprende de los mejores profesionales y pertenece a la mayor comunidad creativa en español.



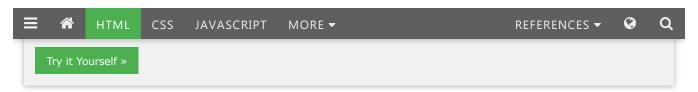
Responsive Images

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

Using the width Property



Example



Notice that in the example above, the image can be scaled up to be larger than its original size. A better solution, in many cases, will be to use the max-width property instead.

Using the max-width Property

If the max-width property is set to 100%, the image will scale down if it has to, but never scale up to be larger than its original size:

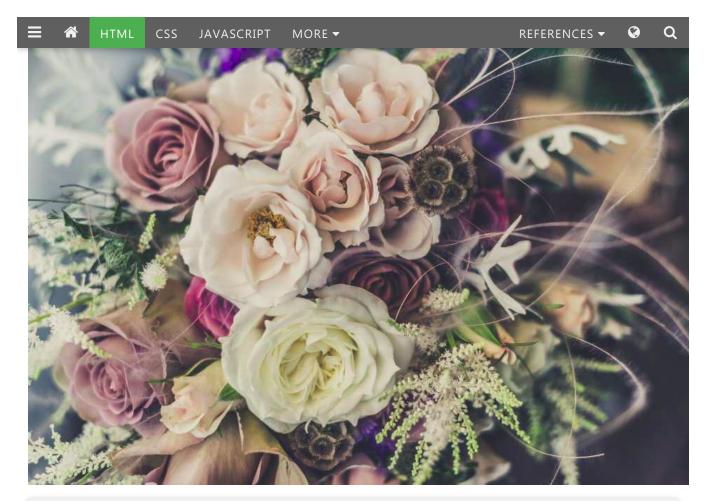


Example Try it Yourself »

Show Different Images Depending on Browser Width

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

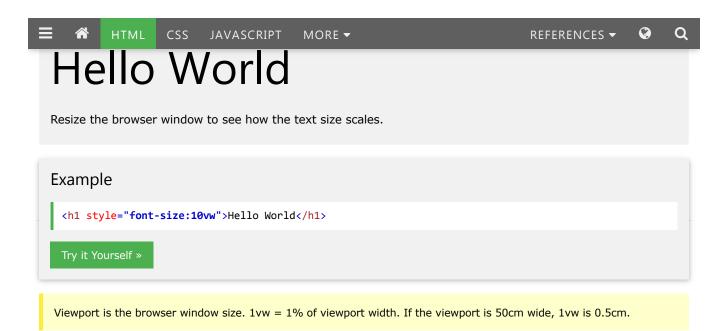
Resize the browser window to see how the image below change depending on the width:



Responsive Text Size

The text size can be set with a "vw" unit, which means the "viewport width".

That way the text size will follow the size of the browser window:

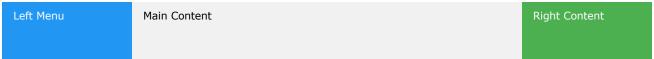


Media Queries

In addition to resize text and images, it is also common to use media queries in responsive web pages.

With media queries you can define completely different styles for different browser sizes.

Example: resize the browser window to see that the three div elements below will display horizontally on large screens and stacked vertically on small screens:



```
Example

<style>
.left, .right {
  float: left;
  width: 20%; /* The width is 20%, by default */
}

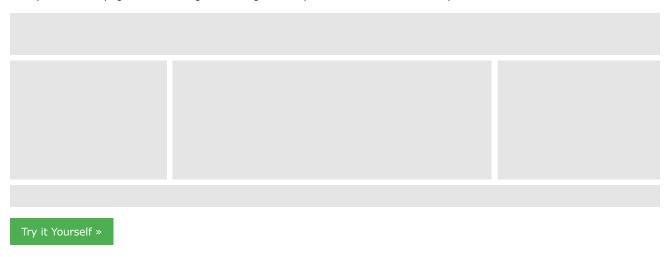
.main {
  float: left;
  width: 60%; /* The width is 60%, by default */
}

/* Use a media query to add a breakpoint at 800px: */
@media screen and (max-width: 800px) {
  .left, .main, .right {
    width: 100%; /* The width is 100%, when the viewport is 800px or smaller */
}
```



Responsive Web Page - Full Example

A responsive web page should look good on large desktop screens and small mobile phones.



Responsive Web Design - Frameworks

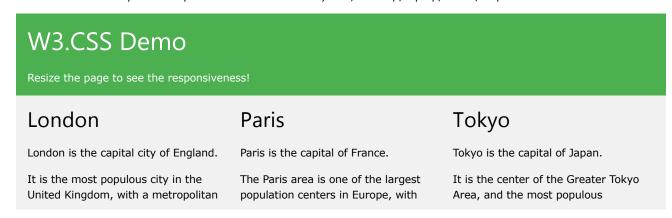
There are many existing CSS Frameworks that offer Responsive Design.

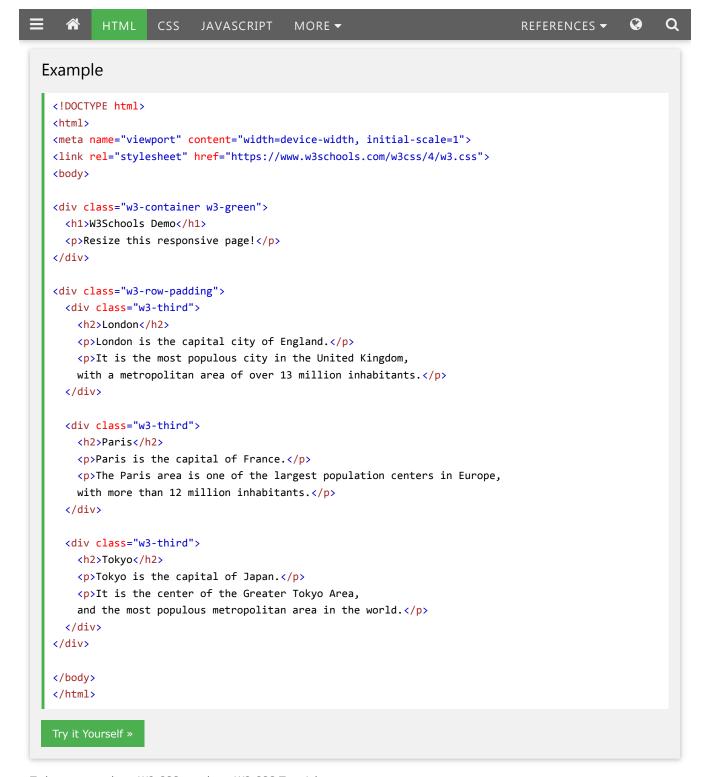
They are free, and easy to use.

Using W3.CSS

A great way to create a responsive design, is to use a responsive style sheet, like W3.CSS

W3.CSS makes it easy to develop sites that look nice at any size; desktop, laptop, tablet, or phone:





To learn more about W3.CSS, read our W3.CSS Tutorial.

Bootstrap

Another popular framework is Bootstrap, it uses HTML, CSS and jQuery to make responsive web pages.

```
Q
                 CSS
                        JAVASCRIPT
                                       MORE ▼
                                                                             REFERENCES ▼
<!DOCTYPE html>
<html lang="en">
<head>
<title>Bootstrap Example</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7</pre>
/css/bootstrap.min.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.0/jquery.min.js"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
</head>
<body>
<div class="container">
 <div class="jumbotron">
   <h1>My First Bootstrap Page</h1>
 </div>
  <div class="row">
   <div class="col-sm-4">
   </div>
   <div class="col-sm-4">
   </div>
   <div class="col-sm-4">
   </div>
 </div>
</div>
</body>
</html>
```

To learn more about Bootstrap, go to our <u>Bootstrap Tutorial</u>.

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