Media Queries

It’s a way to create responsive designs for our web sites

Its is to tell that when we resize our screen, that what has to be done

The @media rule, introduced in CSS2, made it possible to define different style rules for different media types.

Examples: You could have one set of style rules for computer screens, one for printers, one for handheld devices, one for television-type devices, and so on.

CSS3 Introduced Media Queries

Media queries in CSS3 extended the CSS2 media types idea: Instead of looking for a type of device, they look at the capability of the device.

Media queries can be used to check many things, such as:

* width and height of the viewport
* width and height of the device
* orientation (is the tablet/phone in landscape or portrait mode?)
* resolution

Using media queries are a popular technique for delivering a tailored style sheet to desktops, laptops, tablets, and mobile phones (such as iPhone and Android phones).

## Media Query Syntax

A media query consists of a media type and can contain one or more expressions, which resolve to either true or false.

@media not|only *mediatype*and(*expressions*) { *CSS-Code;*}

## CSS3 Media Types

|  |  |
| --- | --- |
| **Value** | **Description** |
| All | Used for all media type devices |
| Print | Used for printers |
| Screen | Used for computer screens, tablets, smart-phones etc. |
| Speech | Used for screenreaders that "reads" the page out loud |

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<title> Media Queries Demo </title>

<style>

.box

{font-size:72px;

text-align:center;

background-color:red;

color:white;

}

</style>

</head>

<body>

<h1> Media Queries Demo </h1>

<div class="box" id="box1-1"> I am an IPhone </div>

<div class="box" id="box1-2"> I am a Tablet </div>

<div class="box" id="box1-3"> I am a Computer </div>

<div class="box" id="box1-4"> I am a Wide Screen Computer </div>

</body>

</html>

When you resize browser window, it is not resized accordingly

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="utf-8" />**

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

**<title> Media Queries Demo </title>**

**<style>**

**.box**

**{font-size:72px;**

**text-align:center;**

**background-color:red;**

**color:black;**

**display:none;**

**}**

**@media (max-width:300px)**

**{**

**#box1 {**

**display: block;**

**background-color:green;**

**}**

**}**

**@media (max-width:500px) and (min-width:300px) {**

**#box-2 {**

**display: block;**

**}**

**}**

**@media only screen and (max-width:800px) and (min-width:500px) {**

**#box-3 {**

**display: block;**

**background-color:purple;**

**}**

**}**

**@media (min-width:800px) {**

**#box-4 {**

**display: block;**

**background-color:yellow;**

**}**

**}**

**</style>**

**</head>**

**<body>**

**<h1> Media Queries Demo </h1>**

**<div class="box" id="box1"> I am an IPhone </div>**

**<div class="box" id="box-2"> I am a Tablet </div>**

**<div class="box" id="box-3"> I am a Computer </div>**

**<div class="box" id="box-4"> I am a Wide Screen Computer </div>**

**</body>**

**</html>**

@media only screen and (max-width:800px) and (min-width:500px) {

#box-3 {

display: block;

background-color:purple;

}

}