

Media Queries

CSS Media Queries are a feature in CSS3 which allows you to specify when certain CSS rules should be applied. This allows you to apply a special CSS for mobile, or adjust a layout for print or as per resolution of the monitor.

All modern browser support Media Queries. Internet Explorer supports it in IE9.

All modern mobile browsers are supported.

The basic syntax looks like this:

```
<link rel="stylesheet" type="text/css" media="screen and (max-width: 640px)" href="/style.css">
```

or

```
@import url("/style.css") screen and (max-width: 640px);
```

or

```
@media screen and (max-width: 640px) { /* one or more rule sets... */ }
```

The advantage of using <link> tag is that only the valid CSS is downloaded;

Example:

```
<!DOCTYPE html>
<html>
<head>
  <script src="jquery-2.1.1.js"></script>
  <style>
    /*Small screens Define mobile styles */
    @media screen {
      p {
        font-size:10px;
      }
    }

    /* max-width 640px, mobile-only styles, use when QAing mobile issues */
    @media screen and (max-width: 640px) {
      p {
        font-size: 14px;
      }
    }

    /* Medium screens = min-width 641px, medium screens */
```

```
@media screen and (min-width: 641px) {
```

```
  p {
```

```
    font-size: 18px;
```

```
  }
```

```
}
```

```
/* min-width 641px and max-width 1024px, use when QAing tablet-only issues
```

```
@media screen and (min-width: 641px) and (max-width: 1024px) {
```

```
  p {
```

```
    font-size: 22px;
```

```
  }
```

```
*/
```

```
/* Large screens = min-width 1025px, large screens */
```

```
@media screen and (min-width: 1025px) {
```

```
  p {
```

```
    font-size: 26px;
```

```
  }
```

```
}
```

```
/* min-width 1025px and max-width 1440px, use when QAing large screen-only issues
```

```
@media screen and (min-width: 1025px) and (max-width: 1440px) {
```

```
  p {
```

```
    font-size: 28px;
```

```
  }
```

```
*/
```

```
/* XLarge screens = min-width 1441px, xlarge screens */
```

```
@media screen and (min-width: 1441px) {
```

```
  p {
```

```
    font-size: 32px;
```

```
  }
```

```
}
```

```
/* min-width 1441px and max-width 1920px, use when QAing xlarge screen-only issues
@media screen and (min-width: 1441px) and (max-width: 1920px) {
  p {
    font-size: 36pt;
  }
}*/

/* XXL large screens = min-width 1921px, xlarge screens */
@media screen and (min-width: 120.063em) {
  p {
    font-size: 40px;
  }
}

</style>
</head>
<body>
  <p> this is a paragraph</p>
</body>
</html>
```

Available media types:

- **All:** All devices listen to this
- **Braille:** Used for braille tactile feedback devices.
- **Embossed:** Used for paged braille printers.
- **Handheld:** Used for handheld devices (Smartphones and tablets do NOT listen to this!).
- **Print:** Used for paged material and for documents viewed on screen in print preview mode.
- **Projection:** Used for projected presentations, for example projectors.
- **Screen:** Used primarily for color computer screens and smartphones.
- **Speech:** Used for speech synthesizers.. (Whatever that may be)
- **Tty:** Used for media using a fixed-pitch character grid (such as teletypes, terminals, or portable devices with limited display capabilities).
- **Tv:** Used for television-type devices (low resolution, color, limited-scrollability screens, sound available).

Available expressions:

- **Width:** The width of the current window
- **Height:** The height of the current window
- **device-width:** The width of the device
- **device-height:** The height of the device
- **orientation:** Either landscape or portrait
- **aspect-ratio:** The aspect ratio of the current window
- **device-aspect-ratio:** The aspect ratio of the device
- **color:** The number of color bits per color component
- **color-index:** The number of available colors on the device
- **monochrome:** The number of bits per pixel in a monochrome frame buffer
- **resolution:** The resolution of the device
- **scan:** Either progressive or interlace
- **grid:** Is the device grid-based?

Tool to create a Media Query

<http://cssmediaqueries.com/realtime-testing.html>