Media Queries

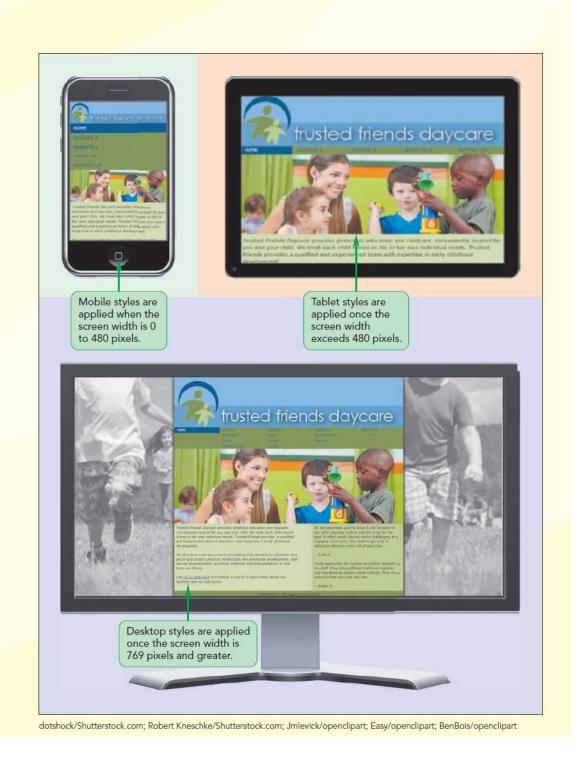


Figure 5–3 Media types

Media Type	Used For
all	All output devices (the default)
braille	Braille tactile feedback devices
embossed	Paged Braille printers
handheld	Mobile devices with small screens and limited bandwidth
print	Printers
projection	Projectors
screen	Computer screens
speech	Speech and sound synthesizers, and aural browsers
tty	Fixed-width devices such as teletype machines and terminals
tv	Television-type devices with low resolution, color, and limited scrollability

media="devices and | or (feature:value)"

Figure 5–4

Media features

Feature	Description
aspect-ratio	The ratio of the width of the display area to its height
color	The number of bits per color component of the output device; if the device does not support color, the value is 0
color-index	The number of colors supported by the output device
device-aspect-ratio	The ratio of the device-width value to the device-height value
device-height	The height of the rendering surface of the output device
device-width	The width of the rendering surface of the output device
height	The height of the display area of the output device
monochrome	The number of bits per pixel in the device's monochrome frame buffer
orientation	The general description of the aspect ratio: equal to portrait when the height of the display area is greater than the width; equal to landscape otherwise
resolution	The resolution of the output device in pixels, expressed in either dpi (dots per inch) or dpcm (dots per centimeter)
width	The width of the display area of the output device



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```
/* ==============
 Mobile Styles: 0px to 480px
  ______
*/
@media only screen and (max-width: 480px) {
}
Tablet Styles: 481px and greater
  _____
*/
@media only screen and (min-width: 481px) {
}
Desktop Styles: 769px and greater
  _____
*/
@media only screen and (min-width: 769px) {
}
```



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Notice in the figure how the home page of the Trusted Friends website has been zoomed in on a mobile device so that only part of the page is displayed within the visual viewport and the rest of the page, which is hidden from the user, extends into the layout viewport.

Widths in media queries are based on the width of the layout viewport, not the visual viewport. Thus, depending on how the page is scaled, a width of 980 pixels might match the physical width of the device as shown in Figure 5–2 or it might extend beyond it as shown in Figure 5–7. In order to correctly base a media query on the