

The basic idea of responsive web design is that a website should "respond" to the device it's being viewed on.

In practical terms, this means:

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 - -> better idea: don't put nonessential elements in your design

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- * Providing finger-friendly links and buttons for mobile users
- * direct and respond to mobile features (geolocation, orientation)

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So this is why responsive design is such a hot topic — you design once and build one version of your site that works great on big and small devices.

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- 1) A flexible, grid-based layout;
- 2) Flexible images and media; and
- 3) Media queries (a module from the CSS3 spec)

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(warning: ahead be math)

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target + context = result

CSS media queries:

min-width: width Applies when viewport is greater than

or equal to width

max-width: width Applies when viewport is less than or

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min-width: width Applies when viewport is greater than

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min-device-width: width Applies when the device's screen width

is greater than or equal to width

max-device-width: width Applies when the device's screen width

is less than or equal to width

What's the difference between width and device width?

width is the width of a browser viewport. On desktop browsers, this is usually **smaller** than the screen width; on mobile broswers, it's usually **larger** than the screen width so that you can zoom, pan, etc. Mobile Safari's virtual viewport is 980px wide, even though the device screen is between 320-768 pixels wide.

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device-width is the actual width of the device's screen. On a desktop, this usually isn't important; but on a mobile device, it can be useful to know the screen width.

So let's take a look at a responsive layout.

(download and such)

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