APRIL 7, 2020 / #RESPONSIVE DESIGN

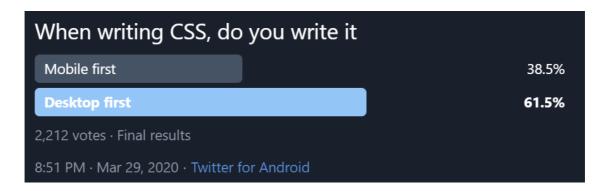
## How to Take the Right Approach to Responsive Web Design



**Kevin Powell** 

I ran a poll on Twitter awhile ago, and the results surprised me.

Not only did I expect the results to be the other way around, I thought that mobile-first would get at least 80% of the vote.



Desktop-first wins with more than 61% of the vote!

In the replies, some people explained why they write desktop-first. The general themes of those reasons:

- They learned CSS writing it Desktop only, so this seemed like the natural progression
- Clients want to see the desktop version

### What is mobile-first

Mobile-first is when we start by writing our CSS for mobile devices and then use media queries to add in styling for larger screen sizes.

In general, that means that media queries use a min-width. We're using media queries to add or overwrite styles for a set breakpoint and bigger, such as this example:

```
.sales-points {
  padding: 3em 0;
}

@media (min-width: 600px) {
    .sales-points {
     display: flex;
     justify-content: space-between;
  }
}
```

In that example, for small screens we're simply applying some padding. Assuming this section of the site has children in it, we turn those children into columns at a minimum width of 600px.

So when the viewport is 600px or larger, we will have columns. The rest of the time, things stack.

As you've probably guessed, a desktop-first approach is the other

### Why mobile-first is easier

Websites are naturally responsive before we even write a single line of CSS.

If you remove the CSS from any page on the internet, even some site made in for a very specific screen size back in 2001, you now have a responsive, mobile-friendly website!

### **Desktop styles tend to be more complex**

When we style for desktop-first, we're adding widths, columns, and moving things around. We're adding complexity. We're doing this for good reason, as we have more real-estate to work with.

Not only do we want to take advantage of that to make things look more interesting, but **if we didn't make things more complex on larger screens, things wouldn't look very good.** Even if you have a very simple website, you don't want it to have text stretching from one side to the other.

Look at what an article here on FCC News would look like if the text went from one side to the other.

Var  Before the advent of ES6, war declarations ruled. There are issues associated with variables declared with war though. That is why it was necessary for new ways to declare variables to emerge. First though, let us get to understand war more before we discuss those issues.
We can all agree that you'd never read something like that, yes? I
The scope is global when a war variable is declared outside a function. This means that any variable that is declared with war outside a function block is available for use in the whole window.  Iterally have to move my head a full to understand further, look at the example below.
line on my screen. It's terrible.
var grette "Poy N1'; function nondunction() {     var NNIO = "NnIIO"; }

## Mobile layouts tend to be very simple, making it very easy to start there

For all the people who replied to me saying that their clients preferred seeing the desktop version, or that they were only given desktop comps by their designers, I would argue it's still easier to start mobile-first.

For many sites, once you've set up your typography, you're 70% of the way there. Things like:

- font-family
- font-size
- font-weight
- margin (on your text elements)

Next up, you can go and do some very basic layout styling on your layout elements, such as:

- padding
- background-color
- color
- and maybe some tweaks with margin

If you were feeling particularly lazy, or have a very simple site, you could stick a max-width on your container and be done with the entire thing and not even have to worry about a media query at all!

Most of the time, we do want to up the game at bigger screen sizes though, and that's why I feel like mobile-first is the way to go. It's the natural progression upward.

## Comparing mobile-first to desktop-first

Below is a CodePen that has a *very* simple layout put together using a desktop-first and mobile-first approach.



If you open the pen up and play around with the viewport size, you'll see that the end result is exactly the same.

But if the end result using either approach is exactly the same, why

### Desktop-IIIst call lead to redulidant code

In the above pen, the desktop-first approach uses the following code:

```
/* desktop-first */
.desktop-first .sales-points {
 display: flex;
  justify-content: space-between;
}
.desktop-first .sales-point {
 width: 30%;
}
@media (max-width: 600px) {
  .desktop-first .sales-points {
    display: block;
  }
  .desktop-first .sales-point {
    width: 100%;
 }
}
```

As you can see in the CodePen, it works perfectly fine, but there is a bunch of code in here that's made redundant when we use a desktop-first approach.

Notice how we first declare a display: flex only to put it back to the default display: block in the media query. Also, for our columns, we change the width and then, once again, go back to the default later on.

The mobile-first approach has a lot less redundant code. Because there was no styling of the text or background colors, there is no

```
/* mobile-first */
@media (min-width: 600px) {
   .mobile-first .sales-points {
     display: flex;
     justify-content: space-between;
   }
   .mobile-first .sales-point {
     width: 30%;
   }
}
```

# Going back to the defaults should be a red flag

I realize that some things are more complex than this (and we'll be getting there soon), but most of what I'm worrying about here is from a layout perspective.

For the layout I created above, I didn't write one line of code for the mobile-first approach. I just relied on how the document was flowing from the start. In the desktop-first approach, I have to tackle both because I need to reset things back to their default state.

The fact that I'm resetting things like display and width to their default state, to me, is a red flag. It means I'm writing something that could have been avoided. That means I'm wasting my time.

## Some things aren't so simple

Some components look completely different at different screen sizes, such as navigation menus. Other times, you have **styles on** 

In the below video, I run into that exact issue where I needed to move an element using position: absolute for smaller screens. Rather than have to position it, then reset the position back to the default at larger screen sizes, it seemed like a logical choice for a max-width media query.

If you hit play on the video, it should start right where I tackle this issue if you'd like to see it in action (17:41 just in case it doesn't start at the right spot).



So sometimes there are exceptions, and there is nothing wrong with that. My point here isn't that we should be robots who do things one way. There are times when different approaches make sense, but I do like to believe having a general rule of thumb helps.

So next time you are designing a site, even if you only have a desktop mock-up to go by, try starting mobile first. It doesn't take any more work at all, and in the long run I bet it'll save you a ton of redundant code. It's pretty simple too!

- Z. Muu III COIOI J alla padallig
- 3. Put anything layout related into a min-width media query

When you're done with your layout, not only will you have knocked out that desktop version that your client is dying to see, but you'll be 90% of the way there in your mobile one as well, without having even really thought about it.

# Do you struggle with making things responsive?

Making websites responsive is a topic that a lot of people tell me they struggle with. To help, I've created a free course called Conquering Responsive Layouts. It's put together as a 21-day challenge in which we'll cover a topic a week, with each one adding onto what we already learned.

I realize that we're all busy with kids, family, work, and more, so each day will only be 10-30 minutes worth of lessons, with 2-3 lessons a week. In between you'll have small challenges to complete, working your way up to being comfortable making responsive layouts.

The course is launching on the 13th of April and because it's a 21-day course, the doors close on that day. <u>Click here to sign up</u> to start conquering responsive layouts!

If you're reading this after the fact, you can go and sign up for the next time it launches, but it won't open up again for a few months.

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