

Learn to Code HTML & CSS

Lesson 4

Opening the Box Model

In this Lesson

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SHARE

We've familiarized ourselves with HTML and CSS; we know what they look like and how to accomplish some of the basics. Now we're going to go a bit deeper and look at exactly how elements are displayed on a page and how they are sized.

In the process we'll discuss what is known as the box model and how it works with HTML and CSS. We're also going to look at a few new CSS properties and use some of the length values we covered in Lesson 3. Let's begin.

How Are Elements Displayed?

Before jumping into the box model, it helps to understand how elements are displayed. In Lesson 2 we covered the difference between block-level and inline-level elements. To quickly recap, block-level elements occupy any available width, regardless of their content, and begin on a new line. Inline-level elements occupy only the width their content requires and line up on the same line, one after the other. Block-level elements are generally used for larger pieces of content, such as headings and structural elements. Inline-level elements are generally used for smaller pieces of content, such as a few words selected to be bold or italicized.

Display

Exactly how elements are displayed—as block-level elements, inline elements, or something else—is determined by the display property. Every element has a default

`display` property value; however, as with all other property values, that value may be overwritten. There are quite a few values for the `display` property, but the most common are `block`, `inline`, `inline-block`, and `none`.

We can change an element's `display` property value by selecting that element within CSS and declaring a new `display` property value. A value of `block` will make that element a block-level element.

```
1      p {  
2          display: block;  
3      }
```

A value of `inline` will make that element an inline-level element.

```
1      p {  
2          display: inline;  
3      }
```

Things get interesting with the `inline-block` value. Using this value will allow an element to behave as a block-level element, accepting all box model properties (which we'll cover soon). However, the element will be displayed in line with other elements, and it will not begin on a new line by default.

```
1      p {  
2          display: inline-block;  
3      }
```

Display Inline-Block Demo

HTML

CSS

RESULT



The Space Between Inline-Block Elements

One important distinction with inline-block elements is that they are not always touching, or displayed directly against one another. Usually a small space will exist between two inline-block elements. This space, though perhaps annoying, is normal. We'll discuss why this space exists and how to remove it in the next lesson.

Lastly, using a value of `none` will completely hide an element and render the page as if that element doesn't exist. Any elements nested within this element will also be hidden.

```
1      div {  
2          display: none;  
3      }
```

Knowing how elements are displayed and how to change their `display` is fairly important, as the `display` of an element has implications on how the box model is rendered. As we discuss the box model, we'll be sure to look at these different implications and how they can affect the presentation of an element.

What Is the Box Model?

According to the [box model](#) concept, every element on a page is a rectangular box and may have width, height, padding, borders, and margins.

That's worth repeating: **Every element on a page is a rectangular box.**

**Fig 4.01**

When we look at each element individually, we can see how they are all rectangular, regardless of their presented shapes

Every element on every page conforms to the box model, so it's incredibly important. Let's take a look at it, along with a few new CSS properties, to better understand what we are working with.

Working with the Box Model

Every element is a rectangular box, and there are several properties that determine the size of that box. The core of the box is defined by the width and height of an element, which may be determined by the `display` property, by the contents of the element, or by specified `width` and `height` properties. `padding` and then `border` expand the dimensions of the box outward from the element's width and height. Lastly, any `margin` we have specified will follow the border.

Each part of the box model corresponds to a CSS property: `width`, `height`, `padding`, `border`, and `margin`.

Let's look these properties inside some code:

```
1      div {  
2          border: 6px solid #949599;  
3          height: 100px;  
4          margin: 20px;  
5          padding: 20px;  
6          width: 400px;  
7      }
```

According to the box model, the total width of an element can be calculated using the following formula:

1 $\text{margin-right} + \text{border-right} + \text{padding-right} + \text{width} + \text{padding-left} + \text{border-left} + \text{margin-left}$



In comparison, according to the box model, the total height of an element can be calculated using the following formula:

1 $\text{margin-top} + \text{border-top} + \text{padding-top} + \text{height} + \text{padding-bottom} + \text{border-bottom} + \text{margin-bottom}$

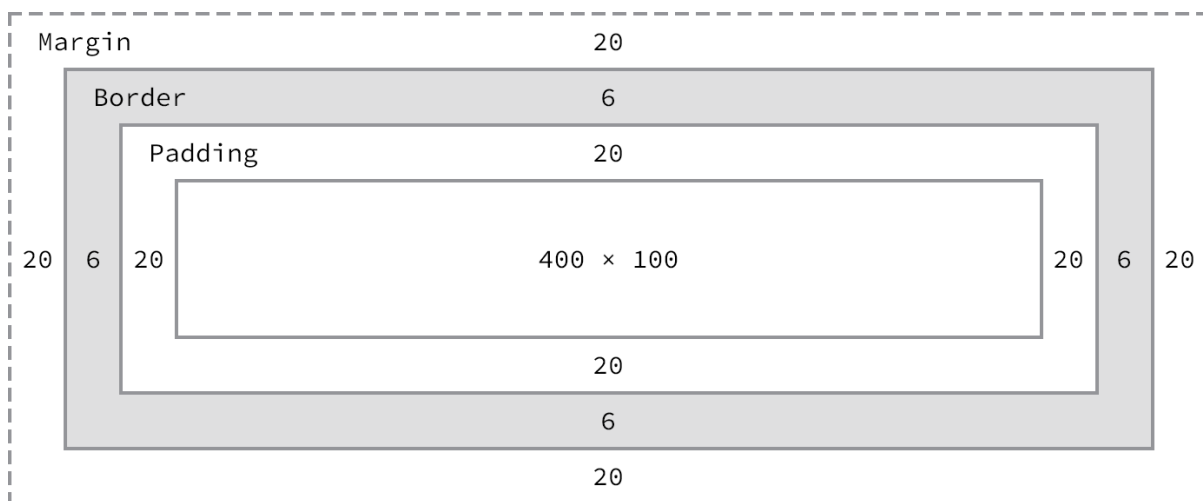


Fig 4.02

The box model broken down, including a base height and width plus paddings, borders, and margins

Using the formulas, we can find the total height and width of our example code.

- **Width:** 492px = 20px + 6px + 20px + 400px + 20px + 6px + 20px
- **Height:** 192px = 20px + 6px + 20px + 100px + 20px + 6px + 20px

The box model is without question one of the more confusing parts of HTML and CSS. We set a `width` property value of 400 pixels, but the actual width of our element is 492 pixels. By default the box model is additive; thus to determine the actual size of a box we need to take into account padding, borders, and margins for all four sides of the box. Our width not only includes the `width` property value, but also the size of the left and right padding, left and right borders, and left and right margins.

So far a lot of these properties might not make a whole lot of sense, and that's all right. To clarify things, let's take a close look at all of the properties—`width`, `height`, `padding`, `border`, and `margin`—that go into forming the box model.

Width & Height

Every element has default width and height. That width and height may be 0 pixels, but browsers, by default, will render every element with size. Depending on how an element is displayed, the default width and height may be adequate. If an element is key to the layout of a page, it may require specified `width` and `height` property values. In this case, the property values for non-inline elements may be specified.

Width

The default width of an element depends on its display value. Block-level elements have a default width of 100%, consuming the entire horizontal space available. Inline and inline-block elements expand and contract horizontally to accommodate their content. Inline-level elements cannot have a fixed size, thus the `width` and `height` properties are only relevant to non-inline elements. To set a specific width for a non-inline element, use the `width` property:

```
1      div {  
2          width: 400px;  
3      }
```

Height

The default height of an element is determined by its content. An element will expand and contract vertically as necessary to accommodate its content. To set a specific height for a non-inline element, use the `height` property:

```
1      div {  
2          height: 100px;  
3      }
```

Sizing Inline-Level Elements

Please keep in mind that inline-level elements will not accept the `width` and `height` properties or any values tied to them. Block and inline-block elements will, however, accept the `width` and `height` properties and their corresponding values.

Margin & Padding

Depending on the element, browsers may apply default margins and padding to an element to help with legibility and clarity. We will generally see this with text-based elements. The default margins and padding for these elements may differ from browser to browser and element to element. In Lesson 1 we discussed using a [CSS reset](#) to tone all of these default values down to zero. Doing so allows us to work from the ground up and to specify our own values.

Margin

The `margin` property allows us to set the amount of space that surrounds an element. Margins for an element fall outside of any border and are completely transparent in color. Margins can be used to help position elements in a particular place on a page or to provide breathing room, keeping all other elements a safe distance away. Here's the `margin` property in action:

```
1      div {  
2          margin: 20px;  
3      }
```

One oddity with the `margin` property is that vertical margins, `top` and `bottom`, are not accepted by inline-level elements. These vertical margins are, however, accepted by block-level and inline-block elements.

Padding

The `padding` property is very similar to the `margin` property; however, it falls inside of an element's border, should an element have a border. The `padding` property is used to provide spacing directly within an element. Here's the code:

```
1      div {  
2          padding: 20px;  
3      }
```

The `padding` property, unlike the `margin` property, works vertically on inline-level elements. This vertical `padding` may blend into the line above or below the given element, but it will be displayed.

Margin & Padding on Inline-Level Elements

Inline-level elements are affected a bit differently than block and inline-block elements when it comes to margins and padding. Margins only work

horizontally—`left` and `right`—on inline-level elements. Padding works on all four sides of inline-level elements; however, the vertical padding—the `top` and `bottom`—may bleed into the lines above and below an element.

Margins and padding work like normal for block and inline-block elements.

Margin & Padding Declarations

In CSS, there is more than one way to declare values for certain properties. We can use longhand, listing multiple properties and values one after the other, in which each value has its own property. Or we can use shorthand, listing multiple values with one property. Not all properties have a shorthand alternative, so we must make sure we are using the correct property and value structure.

The `margin` and `padding` properties come in both longhand and shorthand form. When using the shorthand `margin` property to set the same value for all four sides of an element, we specify one value:

```
1      div {  
2          margin: 20px;  
3      }
```

To set one value for the `top` and `bottom` and another value for the `left` and `right` sides of an element, specify two values: `top` and `bottom` first, then `left` and `right`. Here we are placing margins of 10 pixels on the `top` and `bottom` of a `<div>` and margins of 20 pixels on the `left` and `right`:

```
1      div {  
2          margin: 10px 20px;  
3      }
```

To set unique values for all four sides of an element, specify those values in the order of `top`, `right`, `bottom`, and `left`, moving clockwise. Here we are placing margins of 10 pixels on the `top` of a `<div>`, 20 pixels on the `right`, 0 pixels on the `bottom`, and 15 pixels on the `left`.

```
1      div {  
2          margin: 10px 20px 0 15px;  
3      }
```


Using the `margin` or `padding` property alone, with any number of values, is considered shorthand. With longhand, we can set the value for one side at a time using unique properties. Each property name (in this case `margin` or `padding`) is followed by a dash and the side of the box to which the value is to be applied: `top`, `right`, `bottom`, or `left`. For example, the `padding-left` property accepts only one value and will set the `left` padding for that element; the `margin-top` property accepts only one value and will set the `top` margin for that element.

```
1      div {  
2          margin-top: 10px;  
3          padding-left: 6px;  
4      }
```

When we wish to identify only one `margin` or `padding` value, it is best to use the longhand properties. Doing so keeps our code explicit and helps us to avoid any confusion down the road. For example, did we really want to set the `top`, `right`, and `left` sides of the element to have margins of 0 pixels, or did we really only want to set the `bottom` margin to 10 pixels? Using longhand properties and values here helps to make our intentions clear. When dealing with three or more values, though, shorthand is incredibly helpful.

Margin & Padding Colors

The `margin` and `padding` properties are completely transparent and do not accept any color values. Being transparent, though, they show the background colors of relative elements. For margins, we see the background color of the parent element, and for padding, we see the background color of the element the padding is applied to.

Borders

Borders fall between the padding and margin, providing an outline around an element. The `border` property requires three values: `width`, `style`, and `color`. Shorthand values for the `border` property are stated in that order—`width`, `style`, `color`. In longhand, these three values can be broken up into the `border-width`, `border-style`, and `border-color` properties. These longhand properties are useful for changing, or overwriting, a single border value.

The `width` and `color` of borders can be defined using common CSS units of length and color, as discussed in Lesson 3.

Borders can have [different appearances](#). The most common style values are `solid`, `double`, `dashed`, `dotted`, and `none`, but there are several others to choose from.

Here is the code for a 6-pixel-wide, solid, gray border that wraps around all four sides of a `<div>`:

```
1      div {  
2          border: 6px solid #949599;  
3      }
```

Borders Demo

HTML

CSS

RESULT



Individual Border Sides

As with the `margin` and `padding` properties, borders can be placed on one side of an element at a time if we'd like. Doing so requires new properties: `border-top`, `border-right`, `border-bottom`, and `border-left`. The values for these properties are the same as those of the `border` property alone: `width`, `style`, and `color`. If we want, we can make a border appear only on the bottom of an element:

```
1      div {  
2          border-bottom: 6px solid #949599;  
3      }
```

Additionally, styles for individual border sides may be controlled at an even finer level. For example, if we wish to change only the `width` of the bottom border we can use the following code:

```
1      div {  
2          border-bottom-width: 12px;  
3      }
```

These highly specific longhand border properties include a series of hyphen-separated words starting with the border base, followed by the selected side—`top`, `right`, `bottom`, or `left`—and then `width`, `style`, or `color`, depending on the desired property.

Border Radius


While we're looking at borders and their different properties, we need to examine the `border-radius` property, which enables us to round the corners of an element.

The `border-radius` property accepts length units, including percentages and pixels, that identify the radius by which the corners of an element are to be rounded. A single value will round all four corners of an element equally; two values will round the `top-left`/`bottom-right` and `top-right`/`bottom-left` corners in that order; four values will round the `top-left`, `top-right`, `bottom-right`, and `bottom-left` corners in that order.

When considering the order in which multiple values are applied to the `border-radius` property (as well as the `margin` and `padding` properties), remember that they move in a clockwise fashion starting at the top left of an element.

```
1      div {  
2          border-radius: 5px;  
3      }
```

Border Radius Demo



The `border-radius` property may also be broken out into longhand properties that allow us to change the radii of individual corners of an element. These longhand properties begin with `border`, continue with the corner's vertical location (`top` or `bottom`) and the corner's horizontal location (`left` or `right`), and then end with `radius`. For example, to change the top-right corner radius of a `<div>`, the `border-top-right-radius` property can be used.

```
1      div {  
2          border-top-right-radius: 5px;  
3      }
```

Box Sizing

Until now the box model has been an additive design. If you set the `width` of an element to 400 pixels and then add 20 pixels of `padding` and a `border` of 10 pixels on every side, the actual full width of the element becomes 460 pixels. Remember, we need to add the `width`, `padding`, and `border` property values together to get the actual, full width of an element.

The box model may, however, be changed to support different calculations. CSS3 introduced the `box-sizing` property, which allows us to change exactly how the box model works and how an element's size is calculated. The property accepts three primary values—`content-box`, `padding-box`, and `border-box`—each of which has a slightly different impact on how the box size is calculated.

Content Box

The `content-box` value is the default value, leaving the box model as an additive design. If we don't use the `box-sizing` property, this will be the default value for all

elements. The size of an element begins with the `width` and `height` properties, and then any `padding`, `border`, or `margin` property values are added on from there.

```
1  div {  
2      -webkit-box-sizing: content-box;  
3      -moz-box-sizing: content-box;  
4      box-sizing: content-box;  
5  }
```

Browser-Specific Properties & Values

What are all those hyphens and letters on the `box-sizing` property?

As CSS3 was introduced, browsers gradually began to support different properties and values, including the `box-sizing` property, by way of vendor prefixes. As parts of the CSS3 specification are finalized and new browser versions are released, these vendor prefixes become less and less relevant. As time goes on, vendor prefixes are unlikely to be a problem; however, they still provide support for some of the older browsers that leveraged them. We may run across them from time to time, and we may even want to use them should we wish to support older browsers.

Vendor prefixes may be seen on both properties and values, all depending on the CSS specification. Here they are shown on the `box-sizing` property. Browser vendors were free to choose when to use a prefix and when not to. Thus, some properties and values require vendor prefixes for certain browser vendors but not for others.

Moving forward, when a property or value needs a vendor prefix, the prefix will only be used in the introduction of that property or value (in the interest of keeping our code digestible and concise). Do not forget to add the necessary vendor prefixes when you're actually writing the code.

For reference, the most common vendor prefixes are outlined here:

- Mozilla Firefox: `-moz-`
- Microsoft Internet Explorer: `-ms-`
- Webkit (Google Chrome and Apple Safari): `-webkit-`

Padding Box

The `padding-box` value alters the box model by including any `padding` property values within the `width` and `height` of an element. When using the `padding-box` value, if an

element has a width of 400 pixels and a padding of 20 pixels around every side, the actual width will remain 400 pixels. As any padding values increase, the content size within an element shrinks proportionately.

If we add a border or margin, those values will be added to the width or height properties to calculate the full box size. For example, if we add a border of 10 pixels and a padding of 20 pixels around every side of the element with a width of 400 pixels, the actual full width will become 420 pixels.

```
1      div {  
2          box-sizing: padding-box;  
3      }
```

The padding-box Value Has Been Deprecated

As the CSS specification has evolved, the padding-box value for the box-sizing property has been deprecated and should not be used.

Border Box

Lastly, the border-box value alters the box model so that any border or padding property values are included within the width and height of an element. When using the border-box value, if an element has a width of 400 pixels, a padding of 20 pixels around every side, and a border of 10 pixels around every side, the actual width will remain 400 pixels.

If we add a margin, those values will need to be added to calculate the full box size. No matter which box-sizing property value is used, any margin values will need to be added to calculate the full size of the element.

```
1      div {  
2          box-sizing: border-box;  
3      }
```

**Fig 4.03**

Different box-sizing values allow the width of an element—and its box—to be calculated from different areas

Picking a Box Size

Generally speaking, the best `box-sizing` value to use is `border-box`. The `border-box` value makes our math much, much easier. If we want an element to be 400 pixels wide, it is, and it will remain 400 pixels wide no matter what padding or border values we add to it.

Additionally, we can easily mix length values. Say we want our box to be 40% wide. Adding a padding of 20 pixels and a border of 10 pixels around every side of an element isn't difficult, and we can still guarantee that the actual width of our box will remain 40% despite using pixel values elsewhere.

The only drawback to using the `box-sizing` property is that as part of the CSS3 specification, it isn't supported in every browser; it especially lacks support in older browsers. Fortunately this is becoming less and less relevant as new browsers are released. Chances are we're safe to use the `box-sizing` property, but should we notice any issues, it's worth looking into which browser those issues are occurring with.

Developer Tools

Most browsers have what are known as *Developer Tools*. These tools allow us to inspect an element on a page, see where that element lives within the HTML document, and see what CSS properties and values are being applied to it. Most of these tools also include a box model diagram to show the computed size of an element.

To see the Developer Tools in Google Chrome, click "View" within the menu bar and navigate to "Developer" and then "Developer Tools." This loads a drawer at the bottom of the browser window that provides a handful of tools for inspecting our code.

Clicking the magnifying glass at the bottom of this drawer enables us to hover over and then click on different elements on the page to review more information about them.

After selecting an element, we'll see a handful of tabs on the right-hand side of the Elements panel within our Developer Tools. Selecting the "Computed" tab will show us a breakdown of the box model for our selected element.

Play around with the Developer Tools, be it in Google Chrome, Mozilla Firefox, Apple Safari, or other browsers; there is much to learn from looking at our code. I generally leave the Developer Tools open at all times when writing HTML and CSS. And I frequently inspect the code of other websites to see how they are built, too.

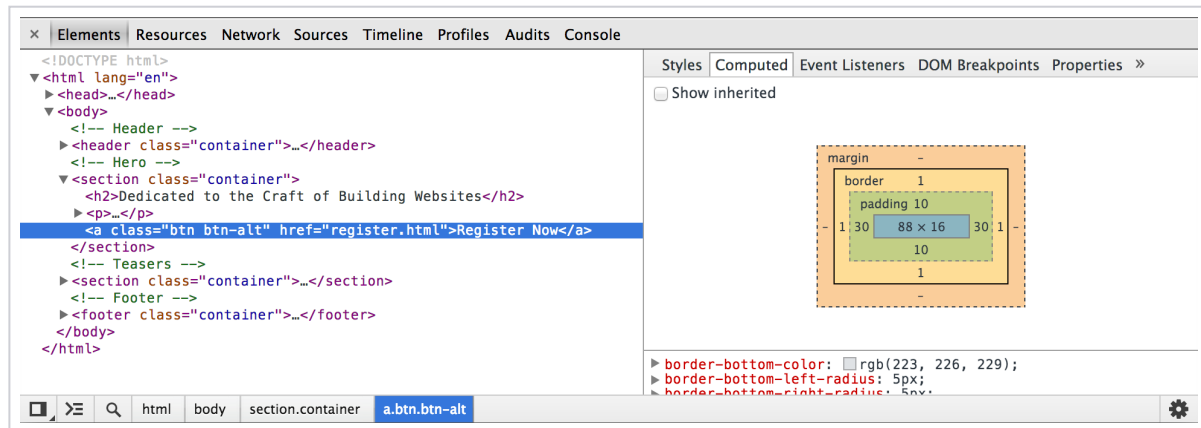


Fig 4.04

The Google Chrome Developer Tools, which help us to inspect the HTML and CSS on any page

The box model is one of the most confusing parts of learning how to write HTML and CSS. It is also one of the most powerful parts of HTML and CSS, and once we have it mastered, most everything else—like positioning content—will come to us fairly easily.

In Practice

Let's jump back into our Styles Conference website to center it on the page and add some more content.

- 1 Let's start by adjusting our box size to use the border-box version of the box model, which will make sizing all of our elements much easier. Within our `main.css` file, just below our reset, let's add a comment to identify the code for what will become our grid and help determine the layout of our website. We're putting this below our reset so that it falls in the proper position within the cascade.

From there, we can use the universal selector, `*`, along with universal pseudo-elements, `*:before` and `*:after`, to select every imaginable element and change the box-sizing to border-box. Remember, we're going to want to include the necessary vendor prefixes for the box-sizing property, as it is a relatively new property.


```

1      /*
2          =====
3      Grid
4          =====
5      */
6
7      *,
8      *:before,
9      *:after {
10         -webkit-box-sizing: border-box;
11         -moz-box-sizing: border-box;
12         box-sizing: border-box;
13     }

```

- 2 Next we'll want to create a class that will serve as a container for our elements. We can use this container class on different elements to set a common width, center the elements on the page, and apply some common horizontal padding.

Just below our universal selector rule set, let's create a selector with a class of container. Within this selector let's set our width to 960 pixels, our left and right padding to 30 pixels, our top and bottom margins to 0, and our left and right margins to auto.

Setting a width tells the browser definitively how wide any element with the class of container should be. Using a left and right margin of auto in conjunction with this width lets the browser automatically figure out equal left and right margins for the element, thus centering it on the page. Lastly, the left and right padding ensures that our content isn't sitting directly on the edge of the element and provides a little breathing room for the content.

```

1      .container {
2          margin: 0 auto;
3          padding-left: 30px;
4          padding-right: 30px;
5          width: 960px;
6      }

```

- 3 Now that we have a container class available to use, let's go ahead and apply the class of container throughout our HTML to the <header> and <footer> elements on each page, including the index.html, speakers.html, schedule.html, venue.html, and register.html files.

```

1      <header class="container">...</header>
2
3      <footer class="container">...</footer>

```

- 4 While we're at it, let's go ahead and center the rest of the content on our pages. On the home page, our `index.html` file, let's add the class of `container` to each `<section>` element on the page, one for our hero section (the section that introduces our conference) and one for our teasers section.

```

1      <section class="container">...</section>

```

Additionally, let's wrap all of the `<h1>` elements on each page with a `<section>` element with the class of `container`.

```

1      <section class="container">
2          <h1>...</h1>
3      </section>

```

We'll come back and adjust these elements and classes later, but for now we're headed in the right direction.

- 5 Now that all of our content is centered, let's create some vertical spacing between elements. For starters let's place a 22-pixel **bottom** margin on a few of our heading and paragraph elements. We'll place and comment on these typography styles below our grid styles.

```

1      /*
2          =====
3          Typography
4          =====
5      */
6
7      h1, h3, h4, h5, p {
8          margin-bottom: 22px;
9      }

```

We intentionally skipped `<h2>` and `<h6>` elements, as the design does not call for margins on `<h2>` elements and as we won't be using any `<h6>` elements at this

time.

- 6 Let's also try our hand at creating a border and some rounded corners. We'll start by placing a button within the top `<section>` element on our home page, just below the header.

Previously we added an `<a>` element within this `<section>` element. Let's add the classes of `btn` and `btn-alt` to this anchor.

```
1      <a class="btn btn-alt">...</a>
```

Now let's create some styles for those classes within our CSS. Below our typography rule set, let's create a new section of the CSS file for buttons.

To begin let's add the `btn` class and apply some common styles that can be shared across all buttons. We'll want all of our buttons to have a 5-pixel `border-radius`. They should be displayed as `inline-block` elements so we can add padding around all four sides without issue; we'll remove any `margin`.

```
1      /*
2          =====
3          Buttons
4          =====
5      */
6
7      .btn {
8          border-radius: 5px;
9          display: inline-block;
10         margin: 0;
11     }
```

We'll also want to include styles specific to this button, which we'll do by using the `btn-alt` class. Here we'll add a 1-pixel, solid, gray border with 10 pixels of padding on the top and bottom of the button and 30 pixels of padding on the left and right of the button.

```
1      .btn-alt {
2          border: 1px solid #dfe2e5;
3          padding: 10px 30px;
4      }
```

Using both the `btn` and `btn-alt` classes on the same `<a>` element allows these styles to be layered on, rendering all of the styles on a single element.

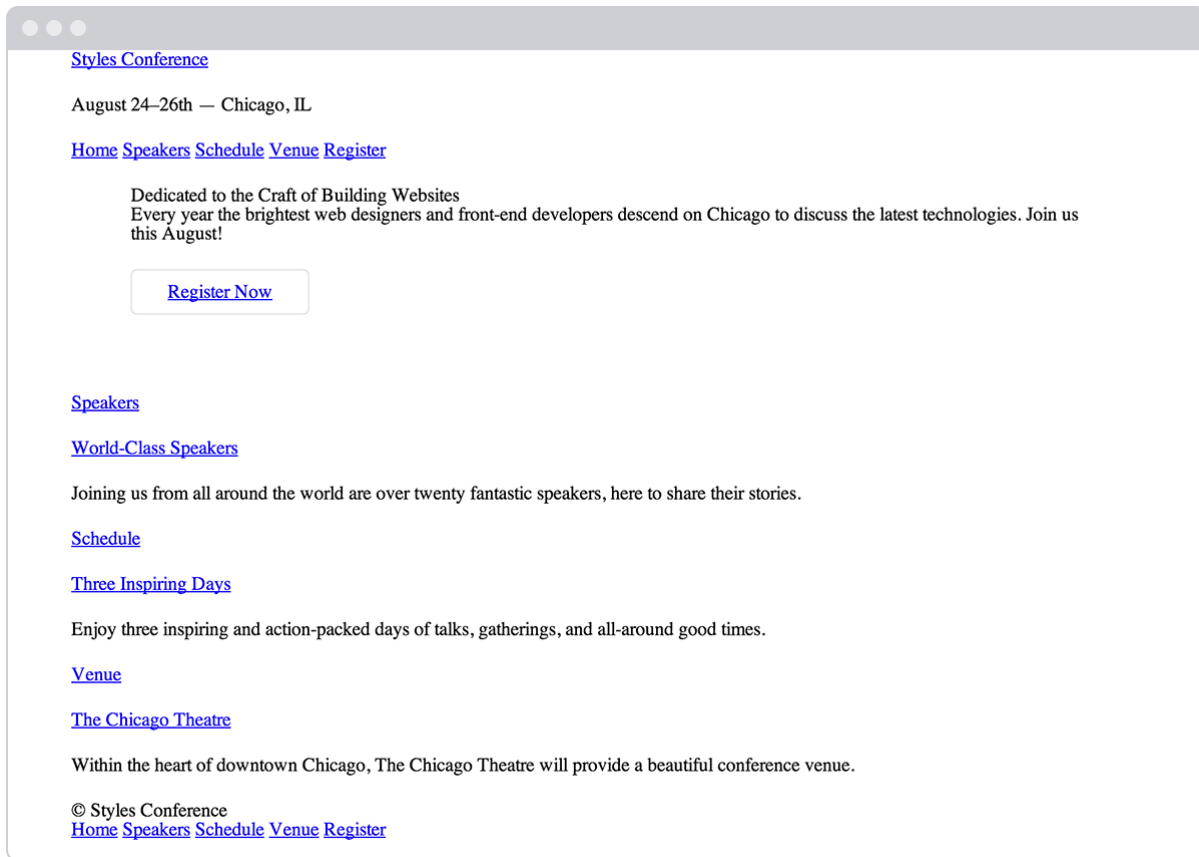
- 7 Because we're working on the home page, let's also add a bit of `padding` to the `<section>` element that contains our `<a>` element with the classes of `btn` and `btn-alt`. We'll do so by adding a class attribute value of `hero` to the `<section>` element, alongside the `container` class attribute value, as this will be the leading section of our website.

```
1      <section class="hero container">
2          ...
3      </section>
```

Next we'll want to create a new section within our CSS file for home page styles, and, once we're ready, we'll use the class of `hero` to apply `padding` around all four sides of the `<section>` element.

```
1      /*
2          =====
3          Home
4          =====
5      */
6
7      .hero {
8          padding: 22px 80px 66px 80px;
9      }
```

Our website is starting to come together, especially the home page.

**Fig 4.05**

Our Styles Conference home page, taking shape after a few updates

Demo & Source Code

Below you may view the Styles Conference website in its current state, as well as download the source code for the website in its current state.

[View the Styles Conference Website](#) or [Download the Source Code](#) (Zip file)

The Universal Selector

In the first step of this exercise we were introduced to the `universal` selector. In CSS the asterisk, `*`, is the universal selector, which selects every element. Rather than listing every single element imaginable, we can use the asterisk as a catch-all to select all elements for us.

The `:before` and `:after` pseudo-elements also mentioned in this step are elements that can be dynamically generated with CSS. We're not going to be using these elements within our project; however, when using the universal selector it's a good practice to also include these pseudo-elements in case they should ever appear.

Summary

Take a second and pat yourself on the back. I'll wait.

Learning all the different parts of the box model is no small feat. These concepts, although briefly introduced, take quite a bit of time to fully master, and we're on the right path toward doing so.

In brief, within this lesson we talked about the following:

- How different elements are displayed
- What the box model is and why it's important
- How to change the size, including the height and width, of elements
- How to add margin, padding, and borders to elements
- How to change the box sizing of elements and the effects this has on the box model

Now that we have a better understanding of how elements are displayed and sized, it's time to move into positioning these elements.

Resources & Links

- [The CSS Box Model](#) via CSS-Tricks
- [HTML Borders](#) via Quackit.com

Lesson 3

[Getting to Know CSS](#)

Lesson 5

[Positioning Content](#)

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