Learn to Code
HTML & CSS

Lesson 7

Setting Backgrounds & Gradients

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Backgrounds have a significant impact on the design of a website. They help create a site's look and feel, establish groupings, and assign priority, and they have a considerable influence on a website's usability.

Within CSS, element backgrounds can be a solid color, an image, a gradient, or a combination of these. As we decide how to implement these backgrounds, we should keep in mind that every background contributes to the overall appearance of our website.

In this lesson we're going to take a look at how to assign different types of backgrounds, including gradients, to elements; we'll also play around with a handful of CSS3 properties specific to backgrounds.

Adding a Background Color

The quickest way to add a background to an element is to add a single-color background using the background or background-color property. The background property accepts colors and images in shorthand form, while the background-color property is used strictly for setting solid background colors. Either property will work, and which one you decide to use depends on your preference as well as the case for which you're using it.

```
1     div {
2     background-color: #b2b2b2;
3    }
```

When adding a background color, we have a few options for the values we can use. As with other color values, we can pick from keywords, hexadecimal codes, and RGB, RGBa, HSL, and HSLa values. Most commonly we'll see hexadecimal values; however, we may occasionally want to use RGBa or HSLa values for transparencies.

Transparent Backgrounds

When using an RGBa or HSLa value as a transparent background color, it's a good idea to provide a fallback color, too, because not all browsers recognize RGBa or HSLa values. Browser support is specifically a problem with Internet Explorer 8, where RGBa and HSLa values are not supported. And when a browser such as Internet Explorer 8 comes across a value it doesn't recognize, it will ignore it.

If Internet Explorer 8 support is a concern, fortunately there is an easy way to provide a fallback background. CSS cascades from the top of a file to the bottom of a file; thus, we can use two background-color properties within a single rule set. The first background-color property will use a "safe" background color, such as a hexadecimal value, and the second background-color property will use an RGBa or HSLa value. Here, if a browser understands the RGBa or HSLa value it will render it, and if it doesn't, it will fall back to the hexadecimal value above it.

Adding a Background Image

Besides adding a background color to an element, we can also add a background image. Background images work similarly to background colors; however, they offer a few additional properties to finesse the images. As before, we can use the background property with a shorthand value, or we can use the background—image property outright. No matter which property we use, there must be an image source identified using a url() function.

The url() function value will be the background image's path, and the familiar rules for creating hyperlink paths apply here. Keep an eye out for different directories, and be sure to show exactly where the image resides. The path will be placed inside parentheses and quoted.

```
div {
background-image: url("alert.png");
}
```

Adding a background image solely using a url value can provide undesirable results, as by default the background image will repeat horizontally and vertically from the top left of the given element to fill up the element's background. Thankfully we can use the background-repeat and background-position properties to control how or even whether the image repeats.

Background Repeat

By default, a background image will repeat indefinitely, both vertically and horizontally, unless otherwise specified. The background-repeat property may be used to change the direction in which a background image is repeated, if repeated at all.

```
div {
   background-image: url("alert.png");
   background-repeat: no-repeat;
}
```

The background-repeat property accepts four different values: repeat, repeat-x, repeat-y, and no-repeat. The repeat value is the default value and will repeat a background image both vertically and horizontally.

The repeat-x value will repeat the background image horizontally, while the repeat-y value will repeat the background image vertically. Lastly, the no-repeat value will tell the browser to display the background image once—that is, do not repeat it at all.

Background Position

By default, background images are positioned at the left top corner of an element. However, by using the background-position property, we can control exactly where the background image is placed relative to that corner.

```
div {
    background-image: url("alert.png");
    background-position: 20px 10px;
    background-repeat: no-repeat;
}
```

The background-position property requires two values: a horizontal offset (the first value) and a vertical offset (the second value). If only one value is specified, that value is used for the horizontal offset and the vertical offset will default to 50%.

Because we're moving the background image from the left top corner of the element, length values specifically will be in relation to that corner.

To set a background-position value, we can use the top, right, bottom, left, and center keywords, pixels, percentages, or any length measurement. Keywords and percentages work very similarly. The keyword value left top is identical to the percentage value 0 0, which will keep an image positioned at the left top corner of the element. The keyword value right bottom is identical to the percentage value 100% 100%, which will position an image in the right bottom corner of the element.

```
0 0 100% 0 right top

0 100% 100% 100% 100% left bottom
```

Fig 7.01

Background images are positioned from the left top corner of an element

Using pixels for a background-position value is also common, as pixels give us precise control over where our background will be positioned.

Shorthand Background Image Values

The background-color, background-image, background-position, and background-repeat properties may be rolled up into a shorthand value for the background property alone. The order of these properties as a shorthand background property value may vary, however it commonly falls as background-color, background-image, background-position, and then background-repeat.

```
1     div {
2     background: #b2b2b2 url("alert.png") 20px 10px no-repeat;
3     }
```

Background Image Example

In the following example, we'll use the background property with a shorthand value that includes background-color, background-image, background-position, and background-repeat values.

Please take note that there is both a relative value and an absolute value within the background-position value. The first value, 20 pixels, is the horizontal value, positioning the background-image 20 pixels from the left of the element. The second value, 50%, is the vertical value, which vertically centers the background-image.

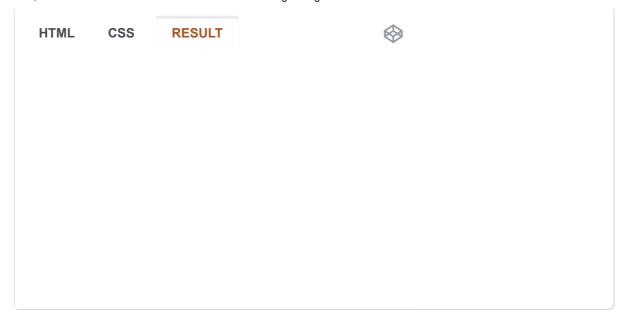
A few other properties and values are also included within the notice-success class rule set to further style the alert message.

HTML

CSS

```
1
        .notice-success {
2
          background: #67b11c url("tick.png") 20px 50% no-repeat;
          border: 2px solid #467813;
3
          border-radius: 5px;
4
          color: #fff;
5
          font-family: "Helvetica Neue", Helvetica, Arial, sans-serif;
6
7
          padding: 15px 20px 15px 50px;
        }
8
```

Background Image Demo



In Practice

Returning to our Styles Conference website, let's add some background colors. While we do that, we'll change a few other styles to keep all of our styles working together and to keep all of our content legible.

1 We'll begin by taking a big step and applying a blue background to the <body> element alongside the existing color and font properties. All of the styles for the <body> element rule set now include the following:

```
body {
background: #293f50;

color: #888;

font: 300 16px/22px "Lato", "Open Sans", "Helvetica Neue", Helvetica
}
```

We've placed a blue background on the <body> element purposely, as our website will have a few different rows of background colors, and the most frequent background color will be blue.

Now that every page on our Styles Conference website includes a blue background, let's clean up a few areas that will keep that blue background. Specifically, our <header> and <footer> elements will remain blue, as will the hero section on the home page.

Within our <header> and <footer> elements let's make all of our link colors start as white and then, when hovered over, turn the same green as our headings.

We'll begin with our <header> element. In order to select all <a> elements within the <header> element, we'll add a class of primary-header to the <header> element (in addition to the existing container and group classes). Don't forget, we'll need to add this class to the <header> elements across all of our pages.

With the primary-header class in place on the <header> element, and the existing primary-footer class in place on the <footer> element, we can add two new rule sets to the bottom of the links section within our main.css file.

The first rule set will select all <a> elements within an element with the class attribute value of primary-header or primary-footer and set their color to white, as defined by comma separating two individual selectors that share the same property and value. The second rule set will select the same <a> elements as before but will change their color to green when a user hovers over them.

```
.primary-header a,
1
2
        .primary-footer a {
          color: #fff;
3
4
        }
5
        .primary-header a:hover,
        .primary-footer a:hover {
6
7
          color: #648880;
8
        }
```

While we're making some of our text white, let's make the text within the hero section of our home page white also, as it will remain on a blue background. We have the existing hero class rule set available to add styles to, so let's add our white text color there. In all, our hero class rule set should include the following:

```
.hero {
color: #fff;
line-height: 44px;
padding: 22px 80px 66px 80px;
text-align: center;
}
```

4 Also within the hero section of our home page, let's clean up some of the button styles. We'll begin by adding some new properties to our btn class rule set, within the buttons section of our main.css file.

Specifically, let's set the button text color to white, make sure our cursor is always a pointer, increase the font-weight, add a small amount of letter-spacing, and change our text-transform to uppercase.

In all, our new btn class rule set should look like this:

```
1
          .btn {
 2
           border-radius: 5px;
 3
           color: #fff;
           cursor: pointer;
 4
 5
           display: inline-block;
           font-weight: 400;
 6
           letter-spacing: .5px;
 7
 8
           margin: 0;
           text-transform: uppercase;
 9
10
         }
```

We'll also clean up some of the alternate button styles by way of the btn-alt class rule set. Specifically, let's make the buttons' borders white and add hover styles including a white background and blue text color.

With all of the additions, our new btn-alt class rule set should look like this:

```
1
        .btn-alt {
          border: 1px solid #fff;
2
          padding: 10px 30px;
3
        }
4
5
        .btn-alt:hover {
          background: #fff;
6
7
          color: #648880;
        }
8
```

Now that we have all of the areas with blue backgrounds cleaned up, let's add styles for the rows that have white backgrounds. Let's create a new section within our main.css file for rows, just below the clearfix section. Within this new rows section, let's create a new class selector named row.

Within our new row class rule set, let's add a white background, a minimum width of 960 pixels (to make sure our row elements are always larger than the width of our container or grid elements), and some vertical padding.

Altogether our new row section within our main.css file should look like this:

```
/*
1
2
       ______
3
       Rows
       _____
5
      */
6
7
      .row {
       background: #fff;
8
9
       min-width: 960px;
10
       padding: 66px 0 44px 0;
      }
11
```

With our row class styles in place, let's add a row with a white background to our home page. We'll do this on our teasers section. Currently this area has a <section> element with the class of grid wrapping three additional <section> elements with the classes of teaser and col-1-3.

To add a white background to this section, we're going to wrap all of these elements in an element with the class of row.

Because we'll want the entire teasers section wrapped in a <section> element, we're going to add a new <section> element with the class of row that surrounds the existing <section> element with the class of grid.

Having two <section> elements wrapping the exact same content diminishes semantic value. To correct this we'll change the second <section> element, the one with the class of grid, to a <div> element. After all, at this point this element is only adding styles, not semantic meaning, and is appropriate as a <div> element.

The structure of our new teasers element should look like this:

```
7
 8
              </section><!--
 9
10
             Schedule
11
12
             --><section class="teaser col-1-3">
13
14
             </section><!--
15
             Venue
16
17
             --><section class="teaser col-1-3">
18
19
             </section>
20
21
22
           </div>
         </section>
23
```

It is amazing how a few background colors can affect the design of a website. Our Styles Conference website is coming along quite nicely, and our home page is proof.

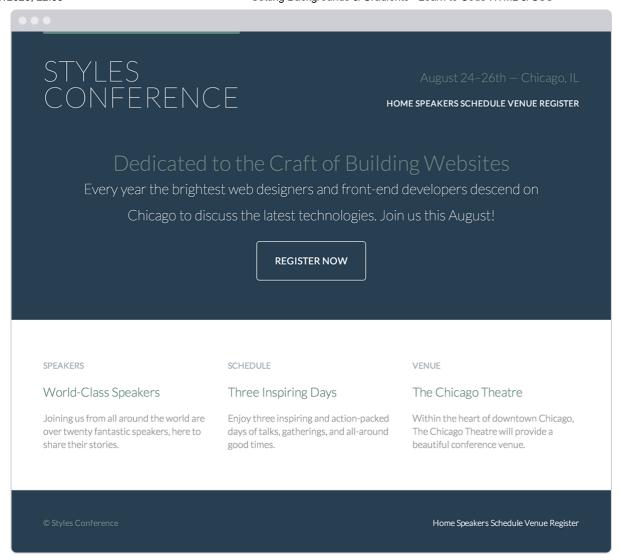


Fig 7.02

Our Styles Conference website home page after adding some background colors

Designing Gradient Backgrounds

Gradient backgrounds were introduced with CSS3, and designers and front-end developers everywhere rejoiced. Although gradient backgrounds do not work in legacy browsers, they are supported by all modern browsers.

Within CSS, gradient backgrounds are treated as background images. We can create a gradient using the background or background-image properties, just like a regular background image. The property value for a gradient background varies depending on what type of gradient we'd like, linear or radial.

Gradient Background Vendor Prefixes

In Lesson 4, "Opening the Box Model," we discussed adding vendor prefixes to new CSS properties or values so that browsers can support recently developed CSS features. Gradient background values were one of the values that required the use of vendor prefixes. Fortunately, most browsers have since eliminated

the need for a vendor prefix in order to render a gradient background; however, it is still worth outlining vendor prefixes to ensure the best support.

At first, as we begin discussing linear gradient backgrounds, we'll include each of the different vendor prefixes. After that, in the interest of brevity, we'll omit the different prefixes as we continue to discuss gradient backgrounds, including radial gradient backgrounds.

Linear Gradient Background

For years designers and developers have been cutting up gradient image files, created using image-processing software, and using them as linear gradient backgrounds on elements. The process worked, but it took a while to implement and was very inflexible. Fortunately those days are gone, and <u>linear gradient backgrounds</u> can now be specified within CSS. If a color needs changing, there is no need to reproduce and recut an image and upload it to the server. Now all we need to do is change a quick value within CSS. Beautiful.

```
div {
    background: #466368;

background: -webkit-linear-gradient(#648880, #293f50);

background: -moz-linear-gradient(#648880, #293f50);

background: linear-gradient(#648880, #293f50);

}
```

Linear Gradient Background Demo

Linear gradients are identified by using the linear-gradient() function within the background or background-image property. The linear-gradient() function must include two color values, the first of which will be the beginning color value and the second of which will be the ending color value. The browser will then handle the transition between the two colors.

Before any gradient backgrounds are identified, we'll also put in a default background property with a solid color. The solid color is to be used as a fallback should a browser not support gradient backgrounds.

Changing the Direction of a Gradient Background

By default, linear gradient backgrounds move from the top to the bottom of an element, transitioning smoothly between the first color value and the second. This direction, however, may be changed with the use of keywords or a degree value stated before any color values.

For example, should we want a gradient to move from the left of an element to the right, we can use the keyword value to right to identify the direction in which the linear gradient should progress. Keyword values may also be combined. If we want the gradient to move from the left top to the right bottom of an element, we can use the keyword value of to right bottom.

```
div {
   background: #466368;
   background: linear-gradient(to right bottom, #648880, #293f50);
}
```

Linear Gradient Background Direction Demo

When we use a diagonal gradient on an element that isn't exactly square, the background gradient will not proceed directly from one corner to the other. Instead, the gradient will identify the absolute center of the element, place anchors in the perpendicular corners from where it should progress, and then move to the general direction of the corner stated within the value. These corners the gradient moves towards are called "magic corners," as they are not absolute. Eric Meyer has done a wonderful job of outlining this syntax in his article "Linear Gradient Keywords".

Besides keywords, degree values are also acceptable. If we want our gradient to move to the left top of an element, we can use the degree value of 315deg, or if we want our gradient to move to the right bottom of an element, we can use the degree value of 135deg. This same concept can be applied for any degree value, 0 through 360.

Radial Gradient Background

While the linear gradient is perfect for a gradient moving from one direction to another, often the need for a radial gradient arises. Radial background gradients work just like linear gradients and share many of the same values. For radial gradients, instead of using the linear-gradient() function within the background or background-image property, we'll use the radial-gradient() function.

```
div {
    background: #466368;
    background: radial-gradient(#648880, #293f50);
}
```

Radial Gradient Background Demo

Radial gradients work from the inside to the outside of an element. Thus, the first color identified within the radial-gradient() function will sit in the absolute center of the element, and the second color will sit on the outside of an element. The browser will then create the transition between the two colors.

One of the primary differences between radial gradients and linear gradients is that radial gradients can be quite complex, with values for location, size, radius, and so forth. We'll cover the basics, but please feel free to delve further into <u>radial gradients</u>, as they provide much more power than is outlined here.

CSS3 Gradient Background Generator

Working with CSS3 gradients by hand can be quite difficult at times, especially if you are new to them. Fortunately, a few <u>CSS3 gradient generators</u> have popped up. Each generator works a little differently, and some provide more options than others. If you're interested, I recommend doing some research to find the right generator for your needs.

Gradient Color Stops

At a minimum, gradient backgrounds will transition from one color to another; however, we may add multiple colors to a gradient and have the browser transition between all of them. To do this we'll add color stops to the given gradient function, with commas separating each color stop from the next.

```
div {
    background: #648880;
    background: linear-gradient(to right, #f6f1d3, #648880, #293f50);
}
```

4

Gradient Color Stops Demo

By default, the browser will position every color stop an equal distance from the next and will transition between them accordingly. If more control over how colors are positioned is desired, a location along the gradient may be identified for each color stop. The location should be declared as a length value and should fall after the color value.

```
div {
    background: #648880;
    background: linear-gradient(to right, #f6f1d3, #648880 85%, #293f50)
}
```

Gradient Color Stop Positions Demo

Unless specified otherwise, the first color stop will be positioned at 0%, and the last color stop will be positioned at 100%.

Gradient Background Example

Using the same success alert message from before, we'll swap out the old background image for a linear gradient background image.

For this we'll include two background properties. The first background property specifies a solid color hexadecimal value, which serves as a fallback should a browser not support linear gradient backgrounds. The second background property includes the linear-gradient() function, which identifies a green gradient background that transitions from the top of the element to the bottom of the element.

HTML

CSS

```
.notice-success {
1
2
          background: #67b11c;
3
          background: linear-gradient(#72c41f, #5c9e19);
          border: 2px solid #467813;
4
5
          border-radius: 5px;
          color: #fff;
6
          font-family: "Helvetica Neue", Helvetica, Arial, sans-serif;
7
          padding: 15px 20px;
8
9
        }
```

Gradient Background Demo

In Practice

With gradient backgrounds now in the mix, let's create a new row for our Styles Conference website, this time using a gradient.

1 We'll create a new row with a gradient background by using the class of row-alt. Because the new row will share the same min-width property and value as the row class selector, we'll combine these two selectors.

```
1     .row,
2     .row-alt {
3         min-width: 960px;
4     }
```

Next we'll want to create new rule sets to apply styles specifically to the row-alt class selector. These new styles will include a gradient background that starts with green and transitions to yellow, from left to right.

Using the linear-gradient() function with the appropriate values and vendor prefixes, we'll add the gradient background to the row-alt class rule set. We'll also include a single background color before the gradient background as a fallback, just in case a browser doesn't support gradient backgrounds.

Lastly, we'll also add in some vertical padding. Our updated row section now looks like this:

```
3
           min-width: 960px;
 4
         }
 5
         .row {
           background: #fff;
 6
           padding: 66px 0 44px 0;
 7
 8
 9
         .row-alt {
10
            background: #cbe2c1;
            background: -webkit-linear-gradient(to right, #a1d3b0, #f6f1d3);
11
            background: -moz-linear-gradient(to right, #a1d3b0, #f6f1d3);
12
            background: linear-gradient(to right, #a1d3b0, #f6f1d3);
13
14
            padding: 44px 0 22px 0;
15
          }
```

With our row-alt styles in place, let's put them to use on all of our interior pages. Currently, all of our interior pages have a <section> element with a class of container. Then, inside each <section> element is an <h1> element containing the heading of the page.

We're going to alter these <section> elements much like we did the teaser <section> element on our home page. We'll wrap each <section> element with a class of container in a <section> element with the class of row-alt. We'll then change each <section> element with a class of container to a <div> element for better semantic alignment.

Each of our interior pages should now include the following:

Because we are updating our interior pages, let's make their introductions, or leads, a little more appealing. We'll begin by adding a paragraph introducing each page just below the <h1> element in each <section> element with a class of rowalt. Our speakers.html page, for example, may now include the following lead section:

4

In addition to inserting the paragraph, let's also change some of the styles within the lead section. To do this, we'll add a class of lead to the <div> element that already has a class of container; this can be found nested directly inside the <section> element with a class of row-alt. Our lead section for each interior page will now look like this:

Once the lead class is in place, we'll center all of the text within these <div> elements. We'll also increase the font-size and line-height of any paragraphs within these <div> elements.

We'll create a new section for leads within our main.css file, just below the typography section, and add the following styles:

```
9  }
10  .lead p {
11   font-size: 21px;
12   line-height: 33px;
13 }
```

The interior pages of our Styles Conference website have now received some longoverdue love in the form of gradient background rows and leads. Make sure to review the code for all of the interior pages to see their newly enhanced content, headings, and paragraphs.



Fig 7.03

The Speakers page of our Styles Conference website, complete with a gradient background row

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)

Using Multiple Background Images

For the longest time, elements were allowed to have only one background image at a time, which created quite a few constraints when designing a page. Fortunately, with CSS3, we can now use more than one background image on an element by comma-

separating multiple background values within a background or background-image property.

The background image value that comes first will be the foremost background image, and the background image that's listed last will be the rearmost background image. Any value between the first and the last will reside within the middle ground accordingly. Here's an example of the CSS for a <div> element that uses three background images:

```
div {
    background: url("foreground.png") 0 0 no-repeat, url("middle-ground
}
```

The preceding code uses a shorthand value for the background property, chaining multiple background image values together. These shorthand values may also be broken up into comma-separated values across the background-image, background-position, and background-repeat properties.

Multiple Background Images Example

Let's go back to the success alert message once more to combine both the tick background image and the linear gradient background image.

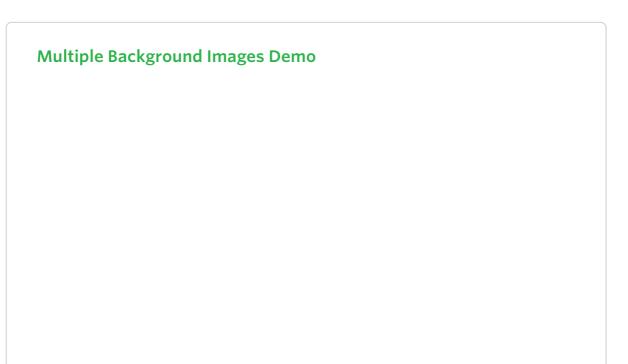
In order to do so, we'll include two values within the second background property. The first value, the foremost image, will be the tick image. The second value, the rearmost image, will be the linear gradient. The two values are comma separated.

HTML

CSS

```
1     .notice-success {
2         background: #67b11c;
3         background: url("tick.png") 20px 50% no-repeat, linear-gradient(#72
4         border: 2px solid #467813;
5         border-radius: 5px;
6         color: #fff;
7         font-family: "Helvetica Neue", Helvetica, Arial, sans-serif;
```

```
8      padding: 15px 20px 15px 50px;
9    }
```



Exploring New Background Properties

Along with gradient backgrounds and multiple background images, CSS3 also introduced three new CSS properties: background-size, background-clip, and background-origin.

The background-size property allows us to change the size of a background image, while the background-clip and background-origin properties allow us to control where a background image is cropped and where a background image is contained within the element (inside the border or inside the padding, for example).

CSS3 Background Size

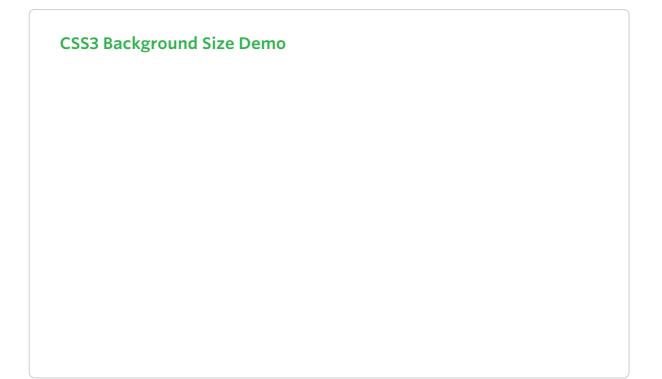
The background-size property allows us to specify a size for a background image. The property accepts a few different values, including length and keyword values.

When using length values, we can specify a width and a height value by using two space-separated values. The first value will set the width of the background image, while the second value will set the height of the background image. It's important to note that percentage values are in relation to the element's size, not the background image's original size.

Consequently, setting a background-size property with a 100% width will make the background image occupy the full width of the element. If a second value isn't identified after the width, the height value will be automatically set to preserve the aspect ratio of the background image.

The keyword value auto may be used as either the width or height value to preserve the aspect ratio of the background image. For example, if we want to set the height of the background image to be 75% of the height of the element while maintaining the image's aspect ratio, we can use a background-size property value of auto 75%.

```
div {
    background: url("shay.jpg") 0 0 no-repeat;
    background-size: auto 75%;
    border: 2px dashed #9799a7;
    height: 240px;
    width: 200px;
}
```



Cover & Contain Keyword Values

In addition to length background-size property values, there are also cover and contain keyword values available to the background-size property.

The cover keyword value specifies that the background image will be resized to completely cover an element's width and height. The background image's original aspect ratio will be preserved, yet the image will stretch or shrink as necessary to cover

the entire element. Often when using the cover keyword value, part of the background image is cut off in order for the image to occupy the full available space of the element.

The contain keyword value, on the other hand, specifies that the background image will be resized to reside entirely contained within an element's width and height. In doing so the background image's original aspect ratio will be preserved, but the image will stretch or shrink as necessary to remain within the width and height of the element. In contrast with the cover keyword value, the contain keyword value will always show the full background image; however, oftentimes it will not occupy the full available space of the element.

Both the cover and contain keyword values may result in slightly distorted background images, particularly when the images are stretched beyond their original dimensions. We'll want to keep an eye out for this when using these values, to make sure the resulting styles are satisfactory.

CSS3 Background Clip & Background Origin

The background-clip property specifies the surface area a background image will cover, and the background-origin property specifies where the background-position should originate. The introduction of these two new properties corresponds with the introduction of three new keyword values: border-box, padding-box, and content-box. Each of these three values may be used for the background-clip and background-origin properties.

```
div {
    background: url("shay.jpg") 0 0 no-repeat;
    background-clip: padding-box;
    background-origin: border-box;
}
```

The background-clip property value is set to border-box by default, allowing a background image to extend into the same area as any border. Meanwhile, the background-origin property value is set to padding-box by default, allowing the beginning of a background image to extend into the padding of an element.

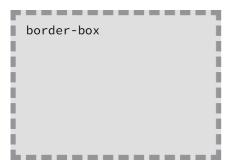


Fig 7.04

The border-box value extends the background into the border of an element

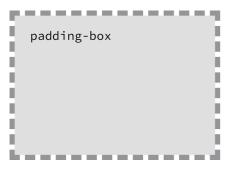


Fig 7.05

The padding-box value extends the background into the padding of an element, but the background is contained within any border



Fig 7.06

The content-box value contains the background within the border and padding of an element

We first discussed these keyword values when we covered the box-sizing property back in Lesson 4, "Opening the Box Model." The values themselves haven't changed in meaning, but their functions do change with the use of the different background properties.

Summary

Adding backgrounds and gradients to our pages allows us to bring color to the forefront of our designs. These features also help to define how content is grouped and to improve the layout of our pages as a whole.

To review, this lesson covered the following:

- How to add background colors and images to elements
- CSS gradients, both linear and radial, and how to customize them
- How to apply multiple background images to a single element
- New CSS3 properties that allow us to change the size, surface area, and origin of background images

Adding background colors, gradients, and images brings forth quite a few possibilities to enhance the overall design of our websites. Soon we'll discuss how to semantically add images (aside from background images) and other media to our pages. But before that, let's take a look at how to semantically create lists.

Resources & Links

- CSS3 Linear Gradients via Dev. Opera
- CSS3 Radial Gradients via Dev.Opera
- CSSmatic Gradient Generator
- CSS3 Files Background

Lesson 6Working with Typography

Lesson 8

Creating Lists

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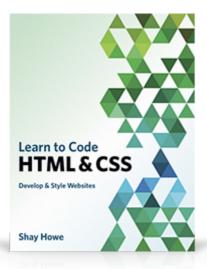
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