

The Background-Position Property

The **background-position** property lets you override the default position of an image and specify the image's *initial* position, whether it's a single image or an image that is repeated.

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Name:	background-position
Value:	<percentage> <length>]{1,2} [top center bottom] [left center right]
Initial:	0 0
Applies to:	all elements
Inherited:	no
Percentages:	refer to the size of the element itself

Essentially, you can set the position of a background image in one of three ways:

- Percentages
- Absolute positions
- Keywords

Placing Images Using Percentages

When you place an image using percentages, you tell the browser where the background image is relative to the size of the element.

Here's an example of how this works. Suppose you have an element, and you want to place an image in that element. Assume the element is **BODY** and your percentage values are 20% and 60%, written as a rule like this:

```
BODY {
  background-position: 20% 60%;
  background-image: url(tile.png)
}
```

First, you locate the upper-left corner of the element and the upper-left corner of the image. From there, find the point in **BODY** that is 20% across and 60% down. Next, find the point in the image that is 20% across the image and 60% down the image. Finally, you put the image in the element and match the points.

Positioning images using percentages makes it easy to specify some common positions. For example, to center an image in an element, you would write simply 50% and to place an image against the right edge of the element requires simply 100%. (See also [Figure 10.9](#).)

If the background image is fixed (see the **background-attachment** property), the position is not calculated

relative to the element, but relative to the window.

Placing Images Using Absolute Positions

When you give two length values instead of two percentages, the upper-left corner of the image will be that far away from the upper-left corner of the element. For example:

```
BLOCKQUOTE {  
    background-image: url(shape.png);  
    background-position: 1cm 5mm  
}
```

puts the background image `shape.png` at 1cm from the left and 5mm from the top of the element.

As with percentages, if you give only one value, the image is centered vertically. That is, a value of 1cm is equivalent to 1cm 50%.

Negative values are possible, if you want to put the image partially outside the element. Only the part that is inside the element will be visible, however.

Placing Images Using Keywords

When placing an image using keywords, you use any combination of two keywords. One of three keywords – `top`, `center`, and `bottom` – represents the horizontal (x-axis) dimension. One of three keywords – `left`, `center`, and `right` – represents the vertical (y-axis) dimension.

You cannot combine keywords with percentage values or absolute values.

[Figure 10.9](#) shows the nine positions you can indicate with the keywords, and in parentheses the equivalent percentage values. The order in which you list the keywords in your code doesn't matter. For example, `top left` produces the same result as `left top`. This is not the case, however, when using percentages. The order in which you give the percentages makes a big difference in the result. For example, in the previous example in which we explained how to use percentages, we chose 20% and 60% as our values. Reversing the values – to 60% and 20% – in our code produces a different effect than that shown in [Figure 10.9](#).

Figure 10.9. The most common combinations of `background-position` keywords and their percentage equivalents and effects obtained.

top left left top (0% 0%)	top center center top top (50% 0%)	top right right top (100% 0%)
left center center left left (0% 50%)	center center center (50% 50%)	right center center right right (100% 50%)
left bottom bottom left (0% 100%)	bottom center center bottom bottom (50% 100%)	right bottom bottom right (100% 100%)

If you specify only one dimension, say, top, the unspecified dimension is assumed to be center. Hence, the rule

```
BODY { background: url(banner.jpeg) top }
```

produces the same effect as

```
BODY { background: url(banner.jpeg) top center }
```