12.1.4 CSS Background Image

The background-image property specifies an image to use as the background of an element.

By default, the image is repeated so it covers the entire element.

Example

Set the background image for a page:

```
<!DOCTYPE html>
<html>
    <head>
        <style>
            body {
                background-image: url("IMG6.JPG");
            }
        </style>
    </head>
    <body>
        <h1>Hello World!</h1>
        <p>This page has an image as the background!</p>
    </body>
</html>
```

Example

This example shows a **bad combination** of text and background image. The text is hardly readable:

Note: When using a background image, use an image that does not disturb the text.

The background image can also be set for specific elements, like the <p> element:

Example

```
<!DOCTYPE html>

<html>

    <head>

        <style>

            p {

                background-image: url("IMG_5.JPG");

            }

        </style>

    </head>

    <body>

        <h1>Hello World!</h1>

        <p>This paragraph has an image as the background!</p>

    </body>

</html>
```

12.1.5 CSS Background Image Repeat

12.1.5.1   CSS background-repeaT

By default, the background-image property repeats an image both horizontally and vertically.

Some images should be repeated only horizontally or vertically, or they will look strange, like this:

Example

```
<!DOCTYPE html>
<html>
    <head>
        <style>
            body {
                background-image: url("IMG_9.JPG ");
            }
        </style>
    </head>
    <body>
        <h1>Hello World!</h1>
        <p>Strange background image...</p>
    </body>
</html>
```

If the image above is repeated only horizontally (background-repeat: repeat-x;), the background will look better:

Example

```
<!DOCTYPE html>
<html>
    <head>
        <style>
            body {
                background-image: url("IMG_5.JPG");
                background-repeat: repeat-x;
            }
        </style>
    </head>
    <body>
        <h1>Hello World!</h1>
        <p>Here, a background image is repeated only horizontally!</p>
    </body>
</html>
```

Tip: To repeat an image vertically, set background-repeat: repeat-y;

12.1.5.2   CSS background-repeat: no-repeat

Showing the background image only once is also specified by the background-repeat property:

Example

Show the background image only once:

```
<!DOCTYPE html>
<html>
    <head>
        <style>
            body {
                background-image: url("IMG_5.JPG");
                background-repeat: no-repeat;
            }
        </style>
    </head>
    <body>
        <h1>Hello World!</h1>
        <p>iFarouq Tech background image example.</p>
        <p>The background image only shows once, but it is disturbing the reader!</p>
    </body>
</html>
```

In the example above, the background image is placed in the same place as the text. We want to change the position of the image, so that it does not disturb the text too much.

12.1.6 CSS background-position

The background-position property is used to specify the position of the background image.

Example

Position the background image in the top-right corner:

```
<!DOCTYPE html>
<html>
    <head>
        <style>
            body {
              background-image: url("img_tree.png");
              background-repeat: no-repeat;
              background-position: right top;
              margin-right: 200px;
            }
        </style>
    </head>
    <body>
        <h1>Hello World!</h1>
        <p>Here, the background image is only shown once. In addition it is positioned away from the text.</p>
        <p>In this example we have also added a margin on the right side, so that the background image will not disturb the text.</p>
    </body>
</html>
```

12.1.7 CSS Background Attachment

CSS background-attachment

The background-attachment property specifies whether the background image should scroll or be fixed (will not scroll with the rest of the page):

Example

Specify that the background image should be fixed:

```
<!DOCTYPE html>
<html>
    <head>
        <style>
            body {
                background-image: url("img_tree.png");
                background-repeat: no-repeat;
                background-position: right top;
                margin-right: 200px;
                background-attachment: fixed;
            }
        </style>
    </head>
    <body>
        <h1>The background-attachment Property</h1>
        <p>The background-attachment property specifies whether the background image should scroll or be fixed (will not scroll with the rest of the page).</p>
        <p><strong>Tip:</strong> If you do not see any scrollbars, try to resize the browser window.</p>
        <p>The background-image is fixed. Try to scroll down the page.</p>
        <p>The background-image is fixed. Try to scroll down the page.</p>
        <p>The background-image is fixed. Try to scroll down the page.</p>
        <p>The background-image is fixed. Try to scroll down the page.</p>
        <p>The background-image is fixed. Try to scroll down the page.</p>
```

<p>The background-image is fixed. Try to scroll down the page.</p>
<p>The background-image is fixed. Try to scroll down the page.</p>
<p>The background-image is fixed. Try to scroll down the page.</p>
<p>The background-image is fixed. Try to scroll down the page.</p>
<p>The background-image is fixed. Try to scroll down the page.</p>
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<p>The background-image is fixed. Try to scroll down the page.</p>
<p>The background-image is fixed. Try to scroll down the page.</p>
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<p>The background-image is fixed. Try to scroll down the page.</p>
<p>The background-image is fixed. Try to scroll down the page.</p>
<p>The background-image is fixed. Try to scroll down the page.</p>
<p>The background-image is fixed. Try to scroll down the page.</p>
<p>The background-image is fixed. Try to scroll down the page.</p>
</body>
</html>

Example

Specify that the background image should scroll with the rest of the page:

```
<!DOCTYPE html>
<html>
    <head>
        <style>
            body {
                background-image: url("img_tree.png");
                background-repeat: no-repeat;
                background-position: right top;
                margin-right: 200px;
                background-attachment: scroll;
```

```html
            }
        </style>
    </head>
    <body>
        <h1>The background-attachment Property</h1>
        <p>The background-attachment property specifies whether the background image should scroll or be fixed (will not scroll with the rest of the page).</p>
        <p><strong>Tip:</strong> If you do not see any scrollbars, try to resize the browser window.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
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        <p>The background-image scrolls. Try to scroll down the page.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
        <p>The background-image scrolls. Try to scroll down the page.</p>
    </body>
</html>
```

12.1 CSS Background Shorthand

CSS background - Shorthand property

To shorten the code, it is also possible to specify all the background properties in one single property. This is called a shorthand property.

Instead of writing:

```
body {
  background-color: #ffffff;
  background-image: url("img_tree.png");
  background-repeat: no-repeat;
  background-position: right top;
}
```

You can use the shorthand property background:

Example

Use the shorthand property to set the background properties in one declaration:

```
<!DOCTYPE html>
<html>
    <head>
        <style>
            body {
                background: #ffffff url("img_tree.png") no-repeat right
            top;
                margin-right: 200px;
            }
        </style>
    </head>
    <body>
        <h1>The background Property</h1>
        <p>The background property is a shorthand property for specifying all
        the background properties in one declaration.</p>
```

When using the shorthand property the order of the property values is:

- background-color
- background-image
- background-repeat
- background-attachment
- background-position

It does not matter if one of the property values is missing, as long as the other ones are in this order. Note that we do not use the background-attachment property in the examples above, as it does not have a value.

All CSS Background Properties