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Dynamic HTML - Module 3

Background in CSS

CSS provides powerful tools to control the background of HTML elements. The background properties allow you to set background colors, images, gradients, and multiple backgrounds, and to control their positioning, size, and repetition.

Here's a detailed look at the various CSS background properties.

- **Background Color:** Sets the background color of an element.
- **Background Image:** Sets an image as the background.
- **Background Repeat:** Controls the repetition of the background image.
- **Background Position:** Sets the initial position of the background image.
- **Background Size:** Specifies the size of the background image.
- **Background Attachment:** Sets whether the background image is fixed or scrolls.
- **Multiple Backgrounds:** Allows specifying multiple background images for an element.

Background Color

The background-color property sets the background color of an element.

Syntax:

```
css
element {
  background-color: color;
}
```

Example:

```
css
body {
  background-color: lightblue;
}
```

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Background Image

The background-image property sets an image as the background of an element.

Syntax:

```
css
element {
  background-image: url(path/to/image);
}
```

Example:

```
css
body {
  background-image: url('background.jpg');
}
```

Background Repeat

The background-repeat property controls how a background image is repeated.

Syntax:

```
css
element {
  background-repeat: repeat | repeat-x | repeat-y | no-repeat;
}
```

- `repeat`: The background image is repeated both horizontally and vertically.
- `repeat-x`: The background image is repeated only horizontally.
- `repeat-y`: The background image is repeated only vertically.
- `no-repeat`: The background image is not repeated.

Example:

```
css
body {
  background-image: url('background.jpg');
  background-repeat: no-repeat;
}
```

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Background Position

The background-position property sets the initial position of the background image.

Syntax:

```
css
element {
  background-position: x y;
}
```

- `x` and `y` can be values like `left`, `center`, `right`, `top`, `bottom`, or specific units (e.g., `50px`, `10%`).

Example:

```
css
body {
  background-image: url('background.jpg');
  background-repeat: no-repeat;
  background-position: center center;
}
```

Background Size

The background-size property specifies the size of the background image.

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Syntax:

```
css
element {
  background-size: length | percentage | cover | contain;
}
```

- `cover`: Scales the image to be as large as possible so that the background area is completely covered by the background image.
- `contain`: Scales the image to be as large as possible while ensuring both its width and height fit inside the background area.

Example:

```
css
body {
  background-image: url('background.jpg');
  background-repeat: no-repeat;
  background-position: center center;
  background-size: cover;
}
```

Background Attachment

The background-attachment property sets whether a background image scrolls with the rest of the page or is fixed.

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Syntax:

```
css
element {
  background-attachment: scroll | fixed | local;
}
```

- `scroll`: The background image scrolls with the content.
- `fixed`: The background image is fixed relative to the viewport.
- `local`: The background image scrolls with the element's contents.

Example:

```
css
body {
  background-image: url('background.jpg');
  background-repeat: no-repeat;
  background-position: center center;
  background-attachment: fixed;
}
```

Multiple Backgrounds

You can specify multiple background images for an element by separating the values with commas.

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Syntax:

```
css Copy code  
element {  
    background-image: url(image1), url(image2);  
}
```

Example:

```
css Copy code  
body {  
    background-image: url('background1.jpg'), url('background2.png');  
    background-position: left top, right bottom;  
    background-repeat: no-repeat, no-repeat;  
    background-size: contain, cover;  
}
```



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Solved Example

Above attributes are used in given example:

For color as background

```
<html>
<head>
<style>
body { background-color: lightblue;}
</style>
</head>
<body>
<h1>Hello World!</h1>
<p>This page has a light blue background color!</p>
</body>
</html>
```

For Image as background

```
<html>
<head>
<style>
body {background-image: url("name.gif");
background-repeat: no-repeat;
background-position: right top;
background-attachment: fixed;}
</style>
</head>
<body>
<h1>Hello World!</h1>
<p>This page has an image as the background!</p>
</body>
</html>
```



Assignment

Ques 1: Prepare two different web pages in one set background color=Blue and in second set an image as background. Set background repeat horizontal only, attachment = fixed.

Ques 2: Background Color Assignment:

Task: Design a webpage for a local cafe. Choose a warm color like light brown or cream to set as the background of the page. Make sure the color complements the cafe's cozy atmosphere and makes the menu items easy to read.

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Ques 3: Background Image Assignment:

Task: Create a portfolio webpage for a photographer. Use one of their best photos as the background image for the top part of the webpage. Ensure the photo looks good on different devices by adjusting its size and position.

Ques 4: Background Repeat Assignment:

Task: Build a blog page about travel adventures. Use a small image of a map as the background. Set it to repeat so it fills the entire background, giving the page a travel-themed look without being too distracting.

Ques 5: Background Position Assignment:

Task: Develop a website for a fashion store. Use a large photo of a model wearing the latest collection as the background. Position the photo so it appears centered behind the main content, making the products stand out.

Ques 6: Background Size Assignment:

Task: Create a fitness blog with an inspiring background. Choose a fitness-related image and make sure it covers the entire background of the page using CSS. This helps create a motivating atmosphere for readers.

Ques 7: Background Attachment Assignment:

Task: Design a news website homepage. Use a picture related to current events as the background of the header. Keep the background fixed so it stays in place as users scroll down the page, providing a consistent look.

Ques 8: Multiple Backgrounds Assignment:

Task: Build a cooking website with a kitchen theme. Use two background images: a wooden texture at the top and a subtle pattern at the bottom. Layer them to create a cohesive look that complements the recipes and articles.

Ques 9: Create a webpage with a blue background and centered content using CSS. Ensure the background color is applied uniformly across the entire page.

Ques 10: Discuss the advantages of using a fixed background image in web design. Provide examples of when and why you might choose to apply the background-attachment: fixed; property in CSS for different types of websites.

Ques 11: Compare and contrast the visual impact of using a solid background color versus a background image with horizontal repeat in web design. Discuss how each choice affects the overall look and feel of the webpage.

