4.3 CSS Backgrounds and Images

windows background at night - answered by Kristanna Agnes Nical

Backgrounds

- The CSS `background` properties are used to add background effects for elements.

Style	Description	Possible values	Sample code

`background-color`	Sets the background color of an element, determining the color displayed behind the content	See **colors (https://kodego.instructure.com/courses/379/pages/ref-number-3-css-colors)**.	`<style>`
			`  body {`
			`    background-color: lightblue`
			`  }`
			
			`  img {`
			`    width: 100%;`
			`  }`
			`</style>`
			`<body>`
			`  <div>`
			`    <h1>Welcome Paris</h1>`
			`    <img src="eifel.jpg"`

			``html
			<p>
			    Welcome to Paris, the enchanting "City of Lights"! Immerse yourself in the
			        timeless beauty of iconic landmarks like the Eiffel Tower, explore
			        world-class museums such as the Louvre, and savor delectable French
			        cuisine as you stroll along charming boulevards - an unforgettable
			        experience awaits you in the cultural and romantic capital
			    </p>
			</div>
			</body>
			``

`background-image`	• Sets an image as the background of an element, allowing you to display graphics or patterns	`url("filename");`	```css
			<style>
			    body {
			        background-image: url("sky.jpg");
			    }
			
			    img {
			        width: 100%;
			    }
			</style>
			``

	behind the content.		`<body>`
			`  <div>`
			`    <h1>Welcome Paris</h1>`
			`    <img src="eifel.jpg" `
			`    <p>`
			`      Welcome to Paris, the enchanting "City of Lights"! Immerse yourself in the`
			`      timeless beauty of iconic landmarks like the Eiffel Tower, explore`
			`      world-class museums such as the Louvre, and savor delectable French`
			`      cuisine as you stroll along charming boulevards - an unforgettable`
			`      experience awaits you in the cultural and romantic capital`
			`    </p>`
			`  </div>`
			`</body>`

`background-repeat`	• Determines how a background image is repeated,	• `repeat` - the background image is repeated both vertically and horizontally
		• `repeat-x` - the background image is repeated only horizontally
			`<style>`
			`  body {`
			`    background-image: url("circle.png")`

| | or not repeated, both horizontally and vertically within its containing element. | • `repeat-y` - the background image is repeated only vertically
• `round` - the background image is repeated and squished or stretched to fill the space (no gaps) | `background-repeat: repeat-x`
`}`

`img {`
`  width: 100%;`
`}`
`</style>`
`<body>`
`  <div>`
`    <h1>Welcome Paris</h1>`
`    <img src="eifel.jpg" `
`    <p>`
`      Welcome to Paris, the enchanting "City of Lights"! Immerse yourself in the`
`      timeless beauty of iconic landmarks like the Eiffel Tower, explore`
`      world-class museums such as the Louvre, and savor delectable French`
`      cuisine as you stroll along charming boulevards - an unforgettable`
`      experience awaits you in the cultural and romantic capital` |

			`</p>`
			`</div>`
			`</body>`

`background-attachment`	• Specifies whether a background image scrolls with the content or remains fixed as the user scrolls the web page.	• `scroll` - background image will scroll with the page
		• `fixed` - background image will not scroll with the page
		• `local` - background image will scroll with the element's contents
			`<style>`
			`  body {`
			`    background-image: url("circle.png")`
			`    background-attachment: fixed`
			`  }`
			
			`  img {`
			`    width: 100%;`
			`  }`
			`</style>`
			`<body>`
			`  <div>`
			`    <h1>Welcome Paris</h1>`
			`    <img src="eifel.jpg" `
			`    <p>`
			`      Welcome to Paris, the enchanting "City of Lights"! Immerse yourself in the timeless beauty of iconic landmarks like the Eiffel Tower, explore world-class museums such as the Louvre, and savor delectable French`

			cuisine as
			you stroll along
			charming
			boulevards - an
			unforgettable
			experience
			awaits you in the
			cultural and
			romantic capital
			</p>
			</div>
			</body>

Guidelines in selecting a background

- Selecting the right website background is an important design choice that can influence aesthetics and user experience.
- You have to ensure the background aligns with content, enhances readability, and resonates with your brand.
- These guidelines collectively ensure a visually appealing and user-friendly design that resonates with your audience.

    1. **Align background with purpose.** Ensure the background supports the website's core message and objectives.
    2. **Legible text on background.** Choose a background that maintains clear readability for all text content.
    3. **Maintain design cohesion.** Create a good visual experience by aligning the background with the overall design theme.
    4. **Colors convey mood.** Select background colors that draw desired emotions and match the site's mood.
    5. **Support the branding**. Align the background with branding elements to reinforce recognition and association.
    6. **User-centric background choice.** Prioritize a background that enhances user experience, avoiding distractions.

Images

- Images can be adjusted in a number of way, mostly with how they are sized and presented.

Style	Description	Possible values	Sample code	Preview

`width`	• Specifies the horizontal size of an element on a web page	See **sizing (https://kodego.instructure.com/courses/379/pages/ref-number-2-css-sizing)** .	`<style>`
			  `img {`
			    `width: 240px;`
			    `height: 240px;`
			  `}`
			`</style>`	

`height`	• Specifies the vertical size of an element on a web page	See **sizing (https://kodego.instructure.com/courses/379/pages/ref-number-2-css-sizing)** .		

`object-fit`	• Specifies how an element's content, such as an image or video, should be resized and fit within its container	`contain` - the element is scaled to maintain aspect ratio to fit.	`<style>`
			  `div {`
			    `width: 240px;`
			    `height: 240px;`
			  `background-color: yellow;`
			    `border: 4px dashed magenta;`
			  `}`
			
			  `img {`
			    `width: 100%;`
			    `height: 100%;`
			    `object-fit: contain;`
			  `}`
			`</style>`
			`<div>`	

Tag	Style	Attributes	Sample code	Preview
			`<img src="eifel.jpg" /> </div>`	
		`cover` - the element is scaled and cropped to maintain aspect ration and to fit.	`<style> div {   width: 240px;   height: 240px;   background-color: yellow;   border: 4px dashed magenta; }  img {   width: 100%;   height: 100%;   object-fit: cover; } </style> <div>   <img src="eifel.jpg" /> </div>`	

Clipping images to a shape

- The `clip-path` property lets you clip an element to a basic shape or to an SVG source.

```
img {
    clip-path: circle(50%);
}
```

Tag	Style	Attributes	Sample code	Preview

| `img` `clip-path` - allows you to create complex shapes by specifying a clipping path for an element, effectively defining its visible area | Try the **clip-path maker** ⬏ **(https://bennettfeely.com/clippy/)**! | ```html
<style>
img {
    clip-path: polygon(
        30% 0%,
        70% 0%,
        100% 30%,
        100% 70%,
        70% 100%,
        30% 100%,
        0% 70%,
        0% 30%
    );
    width: 200px;
}
</style>
<body>
  <div>
      <h1>Welcome to Paris</h1>
      <img src="eifel.jpg" />
      <p id="p1">
        Croissant, escargot, coq au vin, ratatouille, crème brûlée, quiche Lorraine, boeuf bourguignon, baguette, tarte Tatin, bouillabaisse.
      </p>
  </div>
</body>
``` | **Welcome to Paris**<br><br>Croissant, escargot, coq au vin, ratatouille, crème brûlée, quiche Lorraine, boeuf bourguignon, baguette, tarte Tatin, bouillabaisse. |

Additional Material

- **References**
  - W3Schools
- **Learn more**
  - **Clippy - CSS clip-path maker** ⬏ **(https://bennettfeely.com/clippy/)**