Training Day 12 Report

10 July 2025

1. Z-INDEX & STACKING ORDER

Definition:

z-index controls the stacking order of elements along the Z-axis (depth), which means how elements appear in front of or behind other elements.

Rules:

- Only works on positioned elements (position: relative, absolute, fixed, or sticky).
- Higher z-index = Closer to the viewer (appears on top).
- Lower z-index = Farther away (appears behind).

Example:

<div style="position: absolute; top: 50px; left: 50px; width: 100px; height: 100px; background-color: blue; z-index: 1;"></div>

<div style="position: absolute; top: 70px; left: 70px; width: 100px; height: 100px;</pre>

background-color: red; z-index: 2;"></div>

<div style="position: absolute; top: 90px; left: 90px; width: 20px; height: 20px;</pre>

background-color: black; z-index: 3;"></div>

- Red appears on top of blue.
- Pen (black) appears on top of both.

Always use z-index wisely in layers like modals, tooltips, menus, etc.

2. BORDER

Definition:

The border property creates a visible line around an element. It is commonly used to:

Separate sections

Highlight focus

Design cards or buttons

Syntax:

border: [width] [style] [color];

Or use individually: border-width: 2px;

border-style: solid;

border-color: red;

Example:

<div style="border: 2px dashed green; padding: 10px;">

This box has a dashed green border.

</div>

Rounded Corners:

Use border-radius:

border-radius: 10px;

Example:

<div style="border: 2px solid blue; border-radius: 15px; padding: 10px;">
Rounded corner box.

</div>

* Use border-radius on cards, buttons, inputs for modern UI look.

3. BOX-SHADOW

Definition:

Adds shadow effect to boxes. Creates depth, looks like an element is elevated.

Syntax:

- box-shadow: h-offset v-offset blur-radius spread-radius color inset;
- h-offset: Horizontal shadow position (+ = right, = left)
- v-offset: Vertical shadow position (+ = down, = up)
- blur-radius: How soft/blurred the shadow is (0 = sharp)
- spread-radius: Size of the shadow
- color: Color of the shadow
- inset: Optional; creates inner shadow

Example:

<div style="width: 100px; height: 100px; background-color: white; box-shadow: 5px 5px
15px 0px rgba(0,0,0,0.3);">Shadowed Box</div>

Use box-shadow to improve card depth, hover effects, or make buttons pop.

4. BACKGROUND

Used to style background of elements:

- Includes color, images, size, repeat behavior, position, etc.
- background-color

Sets the background color.

background-color: lightblue;

background-image

Used to insert an image as background.

background-image: url("image.jpg");

background-repeat

Controls repetition of background image:

repeat: repeats both X and Y

• repeat-x: repeats horizontally

• repeat-y: repeats vertically

• no-repeat: doesn't repeat

background-repeat: no-repeat;

background-position

Defines starting point of the background image.

Examples:

background-position: center; background-position: top right;

background-attachment

Controls scroll behavior of background image:

- scroll: default, scrolls with page
- fixed: stays in place while page scrolls
- local: scrolls with the element content

Example:

background-attachment: fixed;

-background-size

Controls scaling of background image.

• cover: cover the whole box

• contain: fit inside box

• 100px 200px: custom size

Example:

background-size: cover;