CSS in 20 Steps for ShrieJan

A Quick Overview of Core CSS Concepts

1. CSS Syntax

- Understand selectors, properties, and values.

- format: selector { property: value; }

- Example:

  - p { color: blue; }   /* Targets all <p> elements */

  - .myClass { text-align: center; } /* Targets elements with class 'myClass' */

  - #myId { border: 1px solid black; }/* Targets element with id 'myId' */

  - div h1 { color: red; }   /* Targets <h1> elements inside <div> */

2. Selectors

- Basic selectors: class (.class), ID (#id), element (h1), group (h1, h2).

- Tags in html are now Selectors in CSS but attributes can also be used as CSS.

3. Box Model

- You can set your box with special properties and values and inherit where you needed for example

- .box1 { width: 200px;
      padding: 20px;   /* Space inside the box */
      border: 2px solid black; /* Border around the box */
      margin: 10px;   /* Space outside the box */}

- <div class="box1">This is a basic box model example.</div>

4. Colors and Backgrounds

- color, background-color, background-image, gradients.

- p { color: #333333; }

- div { background-color: lightblue; }

- div { background-image: url('image.jpg'); }

- div { background: linear-gradient(to right, red, yellow); }

5. Typography

- font-family

- font-size

- line-height

- letter-spacing

- text-align.

6. Units

- Absolute units: px, pt.

- Relative units: em, rem, %, vw, vh.

7. Positioning

- static, relative, absolute, fixed, sticky.
- z-index

8. Flexbox

- display: flex, flex-direction, justify-content, align-items, flex-wrap.

9. Grid Layout

- display: grid
- grid-template-columns
- Rows
- Areas
- gap.

10. Margins and Padding

- Margin collapsing.

- Shorthand syntax: margin: 10px 20px 30px 40px;

11. Borders and Outlines

- border style, width, color, radius.
- outline for focus styles.

12. Pseudo-classes and Pseudo-elements

- hover, focus, nth-child(), before, after.

13. Transitions and Animations

- transition and animation properties.

- Example: transition: all 0.3s ease;

14. Responsive Design

- @media queries for screen sizes.

- Example: @media (max-width: 600px) { ... }

15. CSS Variables

- Define and use custom properties with --var.

- Example: --primary-color: #333;

16. Shadows

- text-shadow, box-shadow.

- Example: box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);

17. Z-index

- Control stacking order with z-index.

18. Visibility and Display

- visibility: hidden, display: none, block, inline, inline-block.

19. Overflow

- Manage content overflow: hidden, auto, or scroll.

20. Advanced Selectors

- Attribute selectors: [type='text'].
- Combinators: >, +, ~, :not().