CSS Properties and Pseudo-Classes Notes

1. CSS Properties (Descriptions)

- background-attachment: Controls whether a background image scrolls or is fixed (e.g., scroll, fixed).
- background-color: Sets the background color of an element (e.g., red, #ffffff).
- background-image: Specifies an image as the background (e.g., url ('image.jpg')).
- background-image (gradients): Defines gradient backgrounds (e.g., linear-gradient (to right, red, blue)).
- background-position: Sets the starting position of a background image (e.g., center, 50% 50%).
- background: Shorthand for background properties (e.g., background: #fff url('image.jpg') no-repeat center).
- background-repeat: Controls background image repetition (e.g., repeat, no-repeat).
- border-bottom-color: Sets the color of the bottom border.
- border-bottom-style: Defines the style of the bottom border (e.g., solid, dashed).
- border-collapse: Controls whether table borders collapse into a single border (e.g., collapse, separate).
- border-color: Sets the color of all borders (shorthand).
- border-image: Uses an image as a border (e.g., border-image: url('border.png') 30 stretch).
- border-left-color: Sets the color of the left border.
- border-left-style: Defines the style of the left border.
- border: Shorthand for border properties (e.g., border: 1px solid black).
- border-radius: Rounds the corners of an element (e.g., 10px, 50%).
- border-right-color: Sets the color of the right border.
- border-right-style: Defines the style of the right border.
- border-spacing: Sets the distance between table cell borders (e.g., 5px).
- border-style: Sets the style of all borders (shorthand, e.g., solid).
- border-top-color: Sets the color of the top border.
- border-top-style: Defines the style of the top border.
- bottom: Positions an element relative to the bottom edge (used with position).
- box-shadow: Adds shadow effects to an element (e.g., box-shadow: 5px 5px 10px rgba(0,0,0,0.5)
- clear: Clears floats on an element (e.g., left, right, both).
- color: Sets the text color (e.g., blue, #0000ff).
- cursor: Defines the mouse cursor style (e.g., pointer, wait).
- display: Controls the display type of an element (e.g., block, inline, none).

- empty-cells: Controls visibility of empty table cells (e.g., show, hide).
- float: Floats an element to the left or right, allowing content to wrap (e.g., left, right).
- float (images): Floats images specifically, aligning them within content.
- @font-face: Defines custom fonts for use in the webpage.
- font-family: Specifies the font for text (e.g., Arial, sans-serif).
- font-size: Sets the size of text (e.g., 16px, 1em).
- font-style: Defines the style of text (e.g., italic, normal).
- height (images): Sets the height of an image (e.g., 200px, auto).
- hsl / hsla: Defines colors using hue, saturation, lightness, and optional alpha (e.g., hsla (120, 50%, 50%, 0.5)).
- left: Positions an element relative to the left edge (used with position).
- letter-spacing: Adjusts spacing between characters (e.g., 2px).
- line-height: Sets the height of a line of text (e.g., 1.5, 20px).
- list-style-image: Uses an image as a list item marker (e.g., url ('marker.png')).
- list-style-position: Sets the position of list markers (e.g., inside, outside).
- list-style: Shorthand for list-style properties (e.g., list-style: square inside).
- list-style-type: Defines the type of list marker (e.g., disc, decimal).
- margin-bottom: Sets the bottom margin of an element.
- margin-left: Sets the left margin of an element.
- margin: Shorthand for all margin properties (e.g., margin: 10px 20px).
- margin-right: Sets the right margin of an element.
- margin-top: Sets the top margin of an element.
- opacity: Sets the transparency of an element (e.g., 0.5 for 50% opacity).
- padding-bottom: Sets the bottom padding of an element.
- padding-left: Sets the left padding of an element.
- padding: Shorthand for all padding properties (e.g., padding: 10px).
- padding (tables): Applies padding to table cells specifically.
- padding-right: Sets the right padding of an element.
- padding-top: Sets the top padding of an element.
- position: Defines the positioning method (e.g., static, relative, absolute).
- rgba: Defines colors using red, green, blue, and alpha (e.g., rgba (255, 0, 0, 0.5)).
- right: Positions an element relative to the right edge (used with position).
- text-align: Aligns text horizontally (e.g., center, left, justify).
- text-decoration: Adds decorations to text (e.g., underline, line-through).
- ullet text-indent: Indents the first line of text (e.g., 20px).

- text-shadow: Adds shadow effects to text (e.g., text-shadow: 2px 2px 4px rgba(0,0,0,0.5)).
- text-transform: Changes text case (e.g., uppercase, capitalize).
- top: Positions an element relative to the top edge (used with position).
- vertical-align: Aligns elements vertically (e.g., middle, top).
- visibility: Controls element visibility (e.g., visible, hidden).
- width (images): Sets the width of an image (e.g., 300px, auto).
- width (floating elements): Sets the width of floated elements.
- width (tables): Sets the width of table elements.
- word-spacing: Adjusts spacing between words (e.g., 5px).
- z-index: Sets the stacking order of positioned elements (e.g., 10).

2. Pseudo-Classes, Elements, and Rules

- :active: Styles an element when activated (e.g., clicked).
- : first-letter: Styles the first letter of a block of text.
- :first-line: Styles the first line of a block of text.
- : focus: Styles an element when it has focus (e.g., form input).
- : hover: Styles an element when hovered over.
- :link: Styles unvisited links.
- : visited: Styles visited links.
- @font-face: Rule to define custom fonts.
- @import: Imports external CSS files (e.g., @import url('styles.css')).
- !important: Increases a rules specificity (e.g., color: red !important).
- *Note*: Highlighting table rows uses :hover on elements.