

1. Border

- **Basic Borders:**

Create a rectangular box with:

- A 5px solid blue border.
- Rounded corners using `border-radius`.

- **Creative Borders:**

Create a button with:

- A double border on all sides.
- A border that changes color on hover.

- **Border Styles:**

Design three boxes with:

- Dashed borders.
 - Dotted borders.
 - A border style that applies different colors and thicknesses to each side.
-

2. Margin

- **Basic Margin:**

Create a webpage with three boxes aligned vertically:

- Add a 20px margin between the boxes.
- Center the entire group using `margin: auto`.

- **Negative Margin:**

Design two overlapping boxes:

- Use negative margins to position one box partially over the other.

- **Responsive Margins:**

Build a grid layout:

- Add a 5% margin around the grid container.
 - Maintain consistent spacing between the grid items using margins.
-

3. Padding

- **Basic Padding:**

Create a text box:

- Add padding on all sides to create a 30px space between the text and the edges.

- **Custom Padding:**

Create a container with:

- Different padding values for each side (e.g., 10px top, 20px right, 30px bottom, 40px left).

- **Responsive Padding:**

Create a container that uses:

- Percentage-based padding values to make the spacing responsive to the container's size.
-

4. Width

- **Fixed Width:**
Create a div with:
 - A width of 300px and ensure it doesn't expand.
 - **Dynamic Width:**
Create a layout where:
 - The main content takes up 80% of the viewport width.
 - **Min and Max Width:**
Create a responsive card with:
 - A `min-width` of 200px.
 - A `max-width` of 400px.
 - Ensure it scales dynamically within these constraints.
-

5. Height

- **Fixed Height:**
Create a box with a height of 400px and:
 - Add scrolling behavior if the content overflows.
 - **Dynamic Height:**
Design a container that:
 - Occupies 50% of the viewport height (`vh`).
 - **Min and Max Height:**
Create a section with:
 - `min-height` set to 300px.
 - `max-height` set to 600px.
 - Ensure the section remains scrollable if the content exceeds the maximum height.
-

6. Font-Family

- **Basic Font-Family:**
Create a webpage with a heading and a paragraph:
 - Use a serif font for the heading and a sans-serif font for the paragraph.
 - **Google Fonts:**
Import a Google Font (e.g., `Lobster`) and:
 - Apply it to the heading text.
 - Use a fallback font for the body text.
 - **Custom Font Styling:**
Create a text container and:
 - Use a decorative font for a heading (e.g., `Cursive`).
 - Apply a monospace font for any code snippets.
-

7. Min/Max Width and Height

- **Basic Constraints:**

Create a box with:

- A min-width of 200px and a max-width of 600px.
- Ensure the box resizes dynamically when the viewport changes.

- **Responsive Image Gallery:**

Create a gallery with images:

- Each image should have a min-width of 150px and a max-width of 300px.
- Add spacing between the images using margins.

- **Dynamic Section:**

Design a webpage section:

- Set min-height to 400px and max-height to 800px.
- Add a scrollable area if the content exceeds the maximum height.

Combined Component Assignments

1. **Profile Card:**

Create a responsive profile card with:

- A fixed height and width.
- Padding for the text inside.
- A min-width and max-width to ensure the card is responsive.

2. **Landing Page Layout:**

Design a landing page with:

- A hero section that takes up 100% of the viewport width and at least 50% of the height.
- A content section with max-width to constrain its layout on wider screens.

3. **Interactive Button Design:**

Create a button with:

- Dynamic width using min-width and max-width.
- A padding increase on hover.
- Rounded corners with a visible border.

4. **Product Cards Grid:**

Design a grid layout for product cards:

- Each card should have a min-height of 250px and a max-height of 500px.
- Ensure equal margins between the cards.

5. **Blog Layout:**

Create a blog layout with:

- A heading styled using a decorative font-family.
 - Content with min-width: 400px and max-width: 800px.
 - Margins and padding to create a balanced, readable design.
-