

CSS

1. Background

- **background-color:** Sets the background color of an element.

```
div {  
  background-color: lightblue;  
}
```

- **background-image:** Sets a background image for an element.

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

- **background-repeat:** Controls whether the background image repeats.

```
div {  
  background-repeat: no-repeat;  
}
```

- **background-position:** Sets the starting position of a background image.

```
div {  
  background-position: center;  
}
```

- **background-size:** Specifies the size of the background image.

```
div {  
  background-size: cover;  
}
```

2. Border

- **border:** A shorthand property for setting border width, style, and color.

```
div {  
  border: 1px solid black;  
}
```

- **border-radius:** Rounds the corners of an element.

```
div {
```

```
border-radius: 10px;
}
```

- **border-width:** Sets the width of the border.

```
div {
border-width: 2px;
}
```

- **border-style:** Sets the style of the border (solid, dashed, dotted, etc.).

```
div {
border-style: dashed;
}
```

- **border-color:** Sets the color of the border.

```
div {
border-color: red;
}
```

3. Margin and Padding

- **margin:** Sets the space outside an element.

```
div {
margin: 20px;
}
```

- **padding:** Sets the space inside an element, between the content and the border.

```
div {
padding: 15px;
}
```

- **margin-top, margin-right, margin-bottom, margin-left:** Sets individual margins.

```
div {
margin-top: 10px;
margin-right: 20px;
margin-bottom: 10px;
margin-left: 20px;
}
```

- **padding-top, padding-right, padding-bottom, padding-left:** Sets individual paddings.

```
div {  
  padding-top: 5px;  
  padding-right: 10px;  
  padding-bottom: 5px;  
  padding-left: 10px;  
}
```

4. Typography

- **color:** Sets the color of the text.

```
p {  
  color: blue;  
}
```

- **font-family:** Specifies the font family of the text.

```
p {  
  font-family: Arial, sans-serif;  
}
```

- **font-size:** Sets the size of the font.

```
p {  
  font-size: 16px;  
}
```

- **font-weight:** Specifies the weight (thickness) of the font.

```
p {  
  font-weight: bold;  
}
```

- **text-align:** Aligns the text inside an element.

```
p {  
  text-align: center;  
}
```

- **text-decoration:** Adds decoration to text (underline, overline, line-through).

```
p {  
  text-decoration: underline;  
}
```

- **text-transform:** Controls the capitalization of text.

```
p {
  text-transform: uppercase;
}
```

- **line-height:** Sets the space between lines of text.

```
p {
  line-height: 1.5;
}
```

- **letter-spacing:** Adjusts the space between characters.

```
p {
  letter-spacing: 2px;
}
```

5. Layout

- **display:** Specifies how an element is displayed (block, inline, flex, grid).

```
div {
  display: flex;
}
```

- **position:** Specifies the type of positioning for an element (static, relative, absolute, fixed, sticky).

```
div {
  position: absolute;
  top: 50px;
  left: 100px;
}
```

- **width, height:** Sets the width and height of an element.

```
div {
  width: 200px;
  height: 100px;
}
```

- **overflow:** Controls the content that overflows an element's box (visible, hidden, scroll).

```
div {
```

```
overflow: auto;
}
```

- **z-index:** Specifies the stack order of an element.

```
div {
  z-index: 10;
}
```

6. Flexbox

- **flex-direction:** Specifies the direction of the flex container's main axis.

```
div {
  display: flex;
  flex-direction: row;
}
```

- **justify-content:** Aligns the flex items along the main axis.

```
div {
  display: flex;
  justify-content: center;
}
```

- **align-items:** Aligns the flex items along the cross axis.

```
div {
  display: flex;
  align-items: center;
}
```

- **flex-wrap:** Specifies whether the flex items should wrap or not.

```
div {
  display: flex;
  flex-wrap: wrap;
}
```

7. Grid

- **grid-template-columns:** Defines the number of columns in the grid.

```
div {
  display: grid;
}
```

```
grid-template-columns: 1fr 1fr;
}
```

- **grid-template-rows:** Defines the number of rows in the grid.

```
div {
  grid-template-rows: 100px 200px;
}
```

- **grid-gap:** Specifies the gap between grid items.

```
div {
  grid-gap: 10px;
}
```

- **grid-column:** Specifies the starting and ending columns of a grid item.

```
div.item1 {
  grid-column: 1 / 3;
}
```

- **grid-row:** Specifies the starting and ending rows of a grid item.

```
div.item2 {
  grid-row: 2 / 4;
}
```

8. Animation and Transition

- **transition:** Adds transition effects to properties.

```
div {
  transition: all 0.3s ease;
}
```

- **animation:** Specifies an animation for an element.

```
div {
  animation: slidein 3s infinite;
}
```

- **@keyframes:** Defines the keyframes for an animation.

```
@keyframes slidein {
  from {
    transform: translateX(0%);
```

```
}  
to {  
  transform: translateX(100%);  
}  
}
```

9. Transform

- **transform:** Applies a transformation to an element (rotate, scale, translate).

```
div {  
  transform: rotate(45deg);  
}
```

- **transform-origin:** Specifies the origin point for the transformation.

```
div {  
  transform-origin: top left;  
}
```

10. Filter

- **filter:** Applies visual effects (blur, brightness, contrast, grayscale, etc.).

```
img {  
  filter: grayscale(100%);  
}
```

11. Miscellaneous

- **cursor:** Specifies the type of cursor when hovering over an element.

```
a {  
  cursor: pointer;  
}
```

- **opacity:** Sets the opacity level of an element.

```
div {  
  opacity: 0.5;  
}
```

- **box-shadow:** Adds shadow to an element's box.

```
div {  
  box-shadow: 10px 10px 5px #888888;  
}
```

```
}
```

- **text-shadow:** Adds shadow to text.

```
p {
```

```
text-shadow: 2px 2px #ff0000;
```

```
}
```