Lecture 4

Fonts and Related Properties in CSS

1. Font Family

The `font-family` property specifies the typeface to be used for the text. You can specify multiple font families as a fallback mechanism.

```css
body {
    font-family: Arial, sans-serif; /* Use Arial, fallback to any sans-serif font */
}
```

2. Font Size

The `font-size` property sets the size of the text. You can use various units, including pixels (`px`), ems (`em`), rems (`rem`), and percentages (`%`).

```css
h1 {
    font-size: 2em; /* 2 times the size of the parent element */
}

p {
    font-size: 16px; /* Fixed size */
}
```

3. Font Weight

The `font-weight` property controls the thickness of the text. Common values include `normal`, `bold`, `bolder`, `lighter`, or numeric values (100 to 900).

```css
h2 {
    font-weight: bold; /* Makes text bold
*/
}

strong {
    font-weight: 700; /* Equivalent to bold
*/
}
```

4. Font Style

The `font-style` property is used to set the style of the font, such as normal, italic, or oblique.

```css
em {
    font-style: italic; /* Makes text
italic */
}
```

5. Line Height

The `line-height` property sets the amount of space above and below inline elements. It affects the spacing between lines of text.

```css
p {
    line-height: 1.5; /* 1.5 times the font size */
}
```

6. Text Transform

The `text-transform` property allows you to control the capitalization of text. You can make text uppercase, lowercase, or capitalize the first letter of each word.

```css
h3 {
    text-transform: uppercase; /* Converts all text to uppercase */
}
```

7. Letter Spacing

The `letter-spacing` property adjusts the space between characters in text.

```css
h4 {
    letter-spacing: 2px; /* Adds 2 pixels
of space between letters */
}
```

8. Word Spacing

The `word-spacing` property adjusts the space between words in text.

```css
p {
    word-spacing: 4px; /* Adds 4 pixels of
space between words */
}
```

9. Text Decoration

The `text-decoration` property is used to set decoration on text, such as underlines, overlines, or line-throughs.

```css
a {
    text-decoration: underline; /*
Underlines text */
}

.strike {
    text-decoration: line-through; /*
Strikes through text */
}
```

10. Text Alignment

The `text-align` property specifies the horizontal alignment of text within its container.

```css
h1 {
    text-align: center; /* Centers the text */
}

p {
    text-align: justify; /* Justifies the text */
}
```

11. Font Variant

The `font-variant` property controls the usage of small caps.

```css
h5 {
    font-variant: small-caps; /* Uses small capital letters */
}
```