CSS WEB DEVELOPMENT

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```
CSS Basics:
Selectors: Target elements for styling.

element { property: value; } /* Element Selector */
.class { property: value; } /* Class Selector */
#id { property: value; } /* 10 Selector */

Syntax:

Transition:

selector {
    property: value;
} /* comments in css */

Animation:

@keyframes example {
    from { opacity: 0; }
    to { opacity: 1; }
```

Selectors:

Universal Selector: *

```
* { margin: 0; padding: 0; }
```

animation: example 2s infinite;

Group Selector:,

```
h1, h2, p { color: blue; }
```

Child Selector: >

```
div > p { color: red; }
```

Descendant Selector: (space)

```
div p { font-size: 14px; }
```

Adjacent Sibling: +

```
h1 + p { margin-top: 0; }
```

General Sibling: ~

```
h1 ~ p { color: green; }
```

Text and Fonts:

```
font-family: Arial, sans-serif; /* Font family */
font-size: 16px; /* Font size */
font-weight: bold; /* Font style */
font-style: italic; /* Font style */
color: #333; /* Text color */
text-align: center; /* Text color */
text-transform: uppercase; /* Capitalization */
line-height: 1.5; /* Line height */
letter-spacing: 2px; /* Letter spacing */
text-decoration: underline; /* Text decoration */
```

Box Model:

Properties:

```
margin: 10px; /* Outer space */
border: 1px solid black; /* Border */
padding: 10px; /* Inner space */
width: 100px; /* Content width */
height: 100px; /* Content height */
```

Shorthand:

```
margin: 10px 20px; /* Vertical Horizontal */
padding: 5px 10px 15px; /* Top Right/Left Bottom */
```

```
Positioning:
Static (default):

position: static; /* normal flow of the page */

Relative:

position: relative; /* Positioned relative to its normal place */
top: 10px; /* Moves element 10px down */
left: 20px; /* Moves element 20px right */

Absolute:

position: absolute; /* Relative to nearest positioned ancestor */
top: 10px; /* 50px down */
left: 50px; /* 50px down */
left: 50px; /* 50px down */
Fixed:

position: fixed; /* Stays in place relative to the viewport */
top: 0; /* Sticks to the top of the viewport */

Sticky:

position: sticky; /* Scrolls with the page until it reaches a defined position */
top: 10px; /* Sticks 10px from the top when scrolling */

HTML Page Structure:

<hread>

chead>

chead>

chead>

chead>

chead>

chead>
```

Borders:

```
border: 1px solid #000; /* Border shorthand */
border-radius: 10px; /* Rounded corners */
box-shadow: 2px 2px 5px rgba(0, 0, 0, 0.5); /* Shadow */
```

Backgrounds:

<n>This is another paragraph </n>

```
background-color: #101010; /* Background color */
background-image: url('image.jpg'); /* Background image */
background-repeat: no-repeat; /* Repeat settings */
background-size: cover; /* Size (cover, contain) */
background-position: center; /* Position (e.g., top, center) */
```

Flexbox:

```
display: flex;
justify-content: center; /* Horizontal alignment */
align-items: center; /* Vertical alignment */
flex-direction: row; /* Row or column */
gap: 10px; /* Space between items */
```

Grid:

```
display: grid;
grid-template-columns: 1fr 2fr; /* Two columns */
grid-template-rows: auto 100px; /* Two rows */
gap: 10px; /* Space between items */
```

Responsive Design:

Media Queries:

```
@media (max-width: 768px) {
    body { font-size: 14px; }
}
```

%: Percentage of parent. em/rem: Relative to font size. vh/vw: Viewport height/width

Units:

Overflow:

```
overflow: hidden; /* Hide content that exceeds the container */
overflow—x: scroll; /* Horizontal scroll */
overflow—y: auto; /* Vertical scroll */
```

Clip-path:

```
clip-path: circle(50% at 50% 50%); /* Circular clipping */
```

```
CSS Color and Opacity:
```

RGBA:

```
color: rgba(255, 0, 0, 0.5); /* red, green, blue and opacity */

HSLA:
```

```
color: hsla(0, 100%, 50%, 0.5); /* Hue, Saturation, Lightness, and Alpha */
```

Opacity:

```
•••

opacity: 0.5; /* 50% opacity (Alpha) */
```

Text Effects:

Text Shadow:

```
text-shadow: 2nx 2nx 4nx roha(0. 0. 0. 0.3): /s Shadow on text s/
```

Word Wrap:

```
word-wrap: break-word: /* Break long words */
```

Text Overflow:

```
text-averflow allies of a Show allies of when text averflows at
```

White-space:

```
white-space: nowrap; /* Prevent text from wrapping */
```

Z-Index:

```
z-index: 10; /* Layer ordering */
```

Creating Stacking Context:

```
position: relative;
z-index: 1; /* Creates a new stacking context */
```

Column Layout:

CSS Columns:

```
column-count: 3; /* Divide content into 3 columns */
column-gap: 20px; /* Space between columns */
```

Breaks Between Columns:

••••
visibility: hidden; /* Hide the element but maintain layout space

Display:

```
display: none; /* Completely hide the element */
display: Inline-block; /* Inline element that behaves like a block */
display: flex; /* Elexbox layout */
display: grid; /* Grid layout */
```

CSS Variables:

Defining Variables:

```
:root {
    --main-color: #3498db;
    --padding: 10px;
}
```

Using Variables:

```
body {
body {
packground-color: var(-main-color): /* Use variable for background color */
padding: var(-padding): /* Use variable for padding */
```

CSS Filters

#090300 #663399

#b46a9c

#f8f8f2

#6171a3 #ffffff