# **CSS WEB DEVELOPMENT**

#### **Created by Lazar Tomic**

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```
CSS Basics:
   Selectors: Target elements for styling
 element { property: value; } /* Element Selector */
.class { property: value; } /* Class Selector */
#id { property: value; } /* ID Selector */
   Syntax:
                                Transition:
 selector {
    property: value;
                                 /* comments in css */
Animation:
```

# @keyframes example { from { opacity: 0; } to { opacity: 1; } animation: example 2s infinite;

#### Selectors: **Universal Selector: \***

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

```
Group Selector:,
```

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

Child Selector: >

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

**Descendant Selector: (space)** 

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

Adiacent Sibling: +

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

General Sibling: ~

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

#### **Text and Fonts:**

```
ont-family: Arial, sans-serif; /* Font family */
color: #333;

text-align: center; /* Text alignment */
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 */
```

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

```
Positioning:
```

Static (default):

```
Relative:
```

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

#### Absolute:

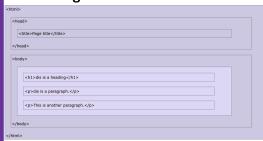
```
osition: absolute; /* Relative to nearest positioned ancestor */
op: 50px; /* 50px down */
eft: 50px; /* 50px right */
```

#### Fixed:

#### Sticky:

```
osition: sticky; /* Scrolls with the page until it reaches a defined position *
```

#### **HTML Page Structure:**



#### **Borders:**

#### **Backgrounds:**

```
kground-color: <u>#767678;</u> /* Background color */
kground-image: urt('limage.jpg'); /* Background image */
kground-speat: nor-repeat; /* Repeat settings */
kground-size: cover; */ $ Size (cover, contain) */
kground-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:** 

```
Units:
```

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

em/rem: Relative to font size.

#### Overflow:

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

#### Clip-path:

#### CSS Color and Opacity:

#### or: hsla(0, 100%, 50%, 0.5); /\* Hue, Saturat

```
Opacity:
```

#### Text Effects:

**Text Shadow:** 

#### Word Wrap:

#### Text Overflow:

#### White-space:

#### Z-Index:

#### **Creating Stacking Context:**

#### Column Layout:

**CSS Columns:** 

```
column-count: 3; /* Divide content into 3 columns */
```

#### **Breaks Between Columns:**

```
eak-inside: avoid; /* Prevent breaking between elements in columns
Visibility:
```

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

## Display:

### **CSS Variables:**

**Defining Variables:** 

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

#### **Using Variables:**

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

#### **CSS Filters**







#f8f8f2

#ffffff