HTML & CSS QUICK REFERENCE GUIDE
Introduction to Web Development Course

📘 ESSENTIAL HTML TAGS

DOCUMENT STRUCTURE

```
<!DOCTYPE html>          → Declares HTML5 document
<html></html>            → Root element
<head></head>             → Contains metadata
<body></body>             → Contains visible content
<title></title>          → Page title (in <head>)
```

TEXT & FORMATTING

```
<h1> to <h6>             → Headings (h1 = largest)
<p></p>                  → Paragraph
<br>                   → Line break
<hr>                   → Horizontal rule
<strong></strong>         → Bold text (important)
<em></em>                 → Italic text (emphasis)
<span></span>             → Inline container
```

LINKS & IMAGES

```
<a href="url">Link</a>        → Hyperlink
<img src="image.jpg" alt="">   → Image
<a href="mailto:email">Email</a> → Email link
<a href="tel:+1234">Call</a>    → Phone link
```

LISTS

```
<ul></ul>                → Unordered list (bullets)
<ol></ol>                → Ordered list (numbers)
<li></li>                → List item
```

CONTAINERS

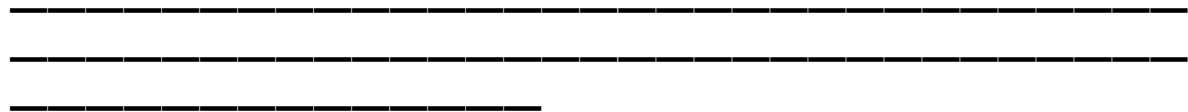|	
`<div></div>`	→ Block-level container
`<section></section>`	→ Thematic grouping
`<article></article>`	→ Self-contained content
`<header></header>`	→ Header section
`<footer></footer>`	→ Footer section
`<nav></nav>`	→ Navigation links
`<main></main>`	→ Main content

FORMS

`<form></form>`	→ Form container
`<input type="text">`	→ Text input
`<input type="email">`	→ Email input
`<input type="password">`	→ Password input
`<textarea></textarea>`	→ Multi-line text
`<button></button>`	→ Button
`<select></select>`	→ Dropdown menu
`<option></option>`	→ Dropdown option

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🎨 CSS ESSENTIALS
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SELECTORS

`element { }`	→ Select by tag name
`.classname { }`	→ Select by class
`#idname { }`	→ Select by ID
`* { }`	→ Select all elements
`element, element { }`	→ Multiple selectors

TEXT PROPERTIES
----
color: #333333;   → Text color
font-size: 16px;   → Text size
font-family: Arial, sans-serif; → Font choice
font-weight: bold;   → Text weight
text-align: center;   → Text alignment
text-decoration: underline; → Text decoration
line-height: 1.5;   → Line spacing

COLORS & BACKGROUNDS
----
background-color: #ffffff;   → Background color
background-image: url('img.jpg'); → Background image
background-size: cover;   → Background sizing
opacity: 0.8;   → Transparency (0-1)

SPACING
----
margin: 10px;   → Outer spacing (all sides)
margin-top: 10px;   → Top margin only
padding: 20px;   → Inner spacing (all sides)
padding-left: 15px;   → Left padding only

BOX MODEL
----
width: 300px;   → Element width
height: 200px;   → Element height
border: 1px solid #000; → Border style
border-radius: 10px;   → Rounded corners
box-shadow: 2px 2px 5px #999;   → Shadow effect

DISPLAY & POSITIONING
----
display: block;   → Block element
display: inline;   → Inline element
display: flex;   → Flexbox layout

```
display: none;          → Hide element
position: relative;     → Relative positioning
position: absolute;      → Absolute positioning
position: fixed;        → Fixed positioning
```

FLEXBOX BASICS

```
display: flex;          → Enable flexbox
justify-content: center;  → Horizontal alignment
align-items: center;      → Vertical alignment
flex-direction: column;   → Stack vertically
gap: 10px;              → Space between items
```

📝 COMMON PATTERNS

BASIC HTML STRUCTURE

```html
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width,
initial-scale=1.0">
   <title>My Website</title>
   <link rel="stylesheet" href="style.css">
</head>
<body>
   <header>
     <nav>
        <a href="#home">Home</a>
        <a href="#about">About</a>
        <a href="#contact">Contact</a>
     </nav>
   </header>

   <main>
```

```html
      <h1>Welcome to My Website</h1>
      <p>This is a paragraph.</p>
    </main>

    <footer>
      <p>&copy; 2025 My Website</p>
    </footer>
</body>
</html>
```

CENTER A DIV

```css
.container {
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
}
```

BUTTON STYLING

```css
.button {
    background-color: #4CAF50;
    color: white;
    padding: 15px 32px;
    border: none;
    border-radius: 5px;
    cursor: pointer;
    font-size: 16px;
}

.button:hover {
    background-color: #45a049;
}
```

RESPONSIVE IMAGE

```
img {
    max-width: 100%;
    height: auto;
}
```

✅ Always use semantic HTML tags (<header>, <nav>, <main>, <footer>)
✅ Use classes for styling multiple elements
✅ Use IDs for unique elements
✅ Keep your CSS organized (group related properties)
✅ Use comments to document your code
✅ Test your website in multiple browsers
✅ Use consistent naming conventions
✅ Always include alt text for images
✅ Use external CSS files for better organization
✅ Validate your HTML and CSS code

📚 RESOURCES

• MDN Web Docs: developer.mozilla.org
• W3Schools: w3schools.com
• CSS-Tricks: css-tricks.com
• Can I Use: caniuse.com (browser compatibility)