

# Basic Web Design

---

CSS

LECTURE - 12

# Recap

---

- Table
- Image
- Link
- Form

# Course Contents

---

- Display

# CSS Display

- 
- The display property is the most important CSS property for **controlling layout**.
  - The display property is used to specify how an element is shown on a web page.
  - Every HTML element has a **default display value**, depending on what type of element it is. The default display value for most elements is block or inline.
  - The display property is used to change the **default display behavior of HTML elements**.
  - The display property has various values that influence how elements behave in terms of ***size, position, and layout***.

# Inline Elements

- 
- An inline element does not start on a new line and only takes up as much width as necessary.
    - `<span>`
    - `<a>`
    - `<img>`
    - `<input>`
    - `<label>`
    - `<button>`
    - `<select>`
    - `<textarea>`

# Block Elements

- 
- A block-level element ALWAYS starts on a new line and takes up the full width available
    - <div>
    - <h1> - <h6>
    - <p>
    - <form>
    - <header>
    - <footer>
    - <section>
    - <article>
    - <nav>
    - <ul>, <ol>, <li>
    - <table>, <tr>, <thead>, <tbody>

# Display Property

---

- Inline
- Block
- **Inline-block:** This combines features of both inline and block. It allows an element to be *laid out inline* (next to other elements), but the element *behaves like a block in terms of width and height* (you can set its width and height explicitly).
  - `button {`
  - `display: inline-block;`
  - `width: 150px;`
  - `height: 40px;`
  - `}`

# Display Property

---

- Inline
- Block
- **Inline-block:** This combines features of both inline and block. It allows an element to be *laid out inline* (next to other elements), but the element *behaves like a block in terms of width and height* (you can set its width and height explicitly).
  - `button {`
  - `display: inline-block;`
  - `width: 150px;`
  - `height: 40px;`
  - `}`



# Display Property

---

- **none:** An element with *display: none;* will be completely removed from the layout and won't occupy any space on the page. This is useful for hiding elements.
- **flex:** *display: flex;* turns an element into a flex container, enabling flexbox layout. Its child elements (flex items) can then be laid out along a main axis and cross axis with properties like justify-content, align-items, and flex-direction.

```
/* Flexbox Layout */  
  
.flex-container {  
  
display: flex;  
  
justify-content: space-between;  
  
background-color: lightgray;  
  
padding: 10px;  
  
}
```

# Position

---

- The position property specifies the type of positioning method used for an element.

There are *five* different position values:

- static
  - relative
  - *fixed*
  - absolute
  - *sticky*
- Elements are then positioned using the *top, bottom, left, and right* properties.
  - However, these properties will not work unless the position property is set first.

# Position

---

- **Static:** Default position
- **Relative:**
  - The element is positioned relative to its normal position in the document flow.
  - This means you can move it from its original position using the top, right, bottom, and left properties.

```
.relative-element {  
  position: relative;  
  top: 10px;  
  left: 20px;  
}
```

# Position

---

- *Fixed*: An element with `position: fixed;` is positioned relative to the viewport, which means it always stays in the same place even if the page is scrolled. The top, right, bottom, and left properties are used to position the element.

```
div.fixed {  
    position: fixed;  
    bottom: 0;  
    right: 0;  
    width: 300px;  
    border: 3px solid #73AD21;  
}
```

- Absolute:
- *sticky*

# Position

---

- *Absolute*: An element with `position: absolute;` is positioned relative to the nearest positioned ancestor (instead of positioned relative to the viewport, like `fixed`).
- ```
div.fixed {  
    position: fixed;  
    bottom: 0;  
    right: 0;  
    width: 300px;  
    border: 3px solid #73AD21;  
}
```
- Absolute:
- *sticky*

# Position

- **Absolute:** An element with `position: absolute;` is positioned relative to the nearest positioned ancestor (instead of positioned relative to the viewport, like fixed).

- ```
div.absolute {  
  position: absolute;  
  top: 80px;  
  right: 0;  
  width: 200px;  
  height: 100px;  
  border: 3px solid #73AD21;  
}
```

This <div> element has position: relative;

This <div> element has position: absolute;

# Position

---

- *Sticky:* An element with `position: sticky;` is positioned based on the user's scroll position.

```
div.sticky {  
  position: sticky;  
  top: 0;  
  background-color: green;  
  border: 2px solid #4CAF50;  
}
```

# Overflow

---

- The overflow property specifies whether to clip the content or to add scrollbars when the content of an element is too big to fit in the specified area.
- The overflow property has the following values:
  - *visible - Default*. The overflow is not clipped. The content renders outside the element's box
  - *hidden* - The overflow is clipped, and the rest of the content will be invisible
  - *scroll* - The overflow is clipped, and a scrollbar is added to see the rest of the content
  - *auto* - Similar to scroll, but it adds scrollbars only when necessary



# Overflow

- *Overflow:visible;*
- *Overflow:hidden;*
- *Overflow:scroll;*
- *Auto:scroll;*

You can use the overflow property when you want to have better control of the layout. The overflow property specifies what

You can use the overflow property when you want to have better control of the layout. The overflow property specifies what happens if content overflows an element's box.

# Overflow

- *Overflow:visible;*
- *Overflow:hidden;*
- *Overflow:scroll;*
- *Auto:scroll;*

You can use the overflow property when you want to have better control of the layout. The overflow property specifies what

You can use the overflow property when you want to have better control of the layout. The overflow property specifies what happens if content overflows an element's box.

# Class Work

- 
- Design your complete CV
  - Upload this as an Assignment in your github account. [**Assignment**]

---

End of Lecture  
THANK YOU