

# HTML



# CSS



## HTML & CSS: LEVEL 1

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Week 4



# SESSION OVERVIEW

- Review box model of CSS, classes and ids
- Floats and positioning
- Semantic elements and why they matter
- Using web fonts



**REVIEW!**

# { BLOCK VS INLINE ELEMENTS

## BLOCK ELEMENTS

- Expand naturally to fill their parent container
- Can have margin and/or padding

**BLOCK ELEMENTS EXPAND NATURALLY**



**AND NATURALLY DROP BELOW OTHER ELEMENTS**



# { BLOCK VS INLINE ELEMENTS

## INLINE ELEMENTS

- Flow along with text content
- Ignores height, width, top margin, and bottom margin
- Honors left and right margins (and any padding)

### INLINE ELEMENTS FLOW WITH TEXT

PELLENTESSQUE HABITANT MORBI TRISTIQUE SENECTUS  
ET NETUS ET MALESUADA FAMES AC TURPIS EGESTAS.  
VESTIBULUM **INLINE ELEMENT** VITAE, ULTRICIES  
EGET, TEMPOR SIT AMET, ANTE. DONEC EU LIBERO SIT  
AMET QUAM EGESTAS SEMPER. AENEAN ULTRICIES MI  
VITAE EST. MAURIS PLACERAT ELEIFEND LEO.

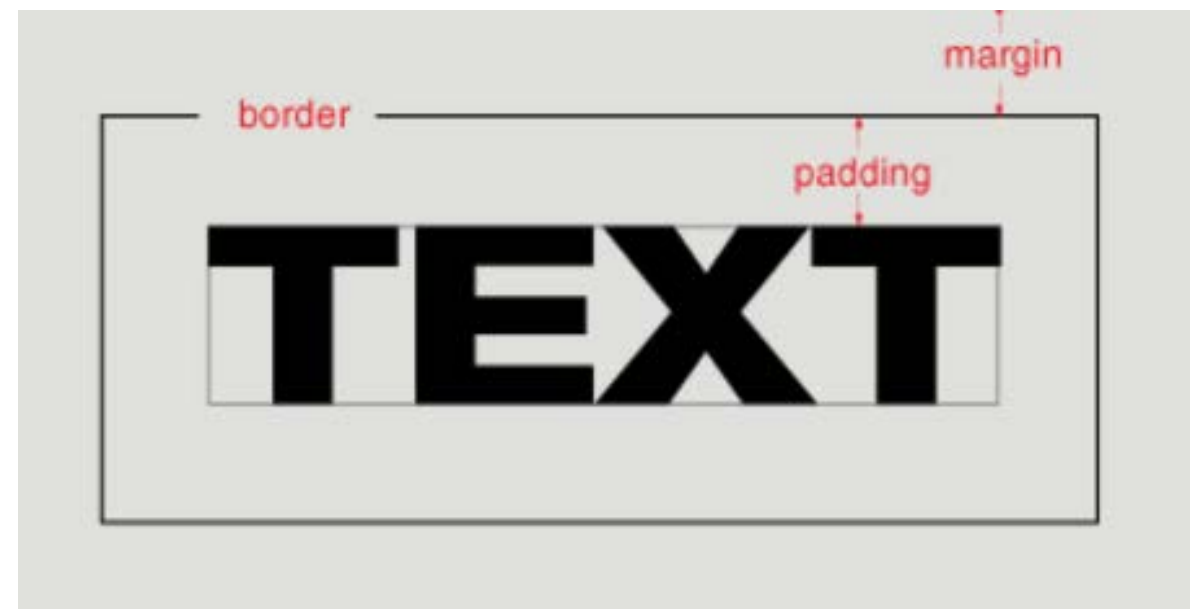
# { CSS BOX MODEL

**CONTENT:** stuff in the box

**PADDING:** bubble wrap and packing peanuts

**BORDER:** sides of the box

**MARGIN:** space between multiple boxes



# { CLASSES





# QUESTIONS?



# WEB LAYOUTS

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- Before CSS, we used `<table>` elements to make layouts (bad!!)
- But now, with the advancements of CSS, we can use a variety of properties to arrange elements on the screen by adjusting the flow of the page.
- Basically, you can put elements anywhere.
  - (this can be a good and a bad thing!)

# 3 WEB LAYOUT PROPERTIES

- **display:** for dictating how elements behave within the box model. (**block, inline, inline-block**)
- **float:** for moving elements around within the page flow.
- **position:** for moving elements in and out of the page flow altogether.

# THE DISPLAY PROPERTY

- Remember **block**, **inline**, and **inline-block** elements?
- You can tell elements to display differently using the CSS **display** property.
- Example:
  - `display: block;`
  - `display: inline;`
  - `display: inline-block;`

# WHY USE DISPLAY?

- Make a **link** look more like a button.
- Add padding and margins to an inline element like a span.
- Make navigation links display horizontally.
- Make any text elements display inline.
- Make divs behave like images.



**FLOATS!!!!!!**

# CSS FLOATS

CSS **floats** can be tricky to grasp, but are foundational in creating complex web layouts.

The **float** CSS property specifies that an element should be taken from the normal flow and **placed along the left or right side of its container**, where text and inline elements will wrap around it. ([MDN](#))



# CSS FLOATS

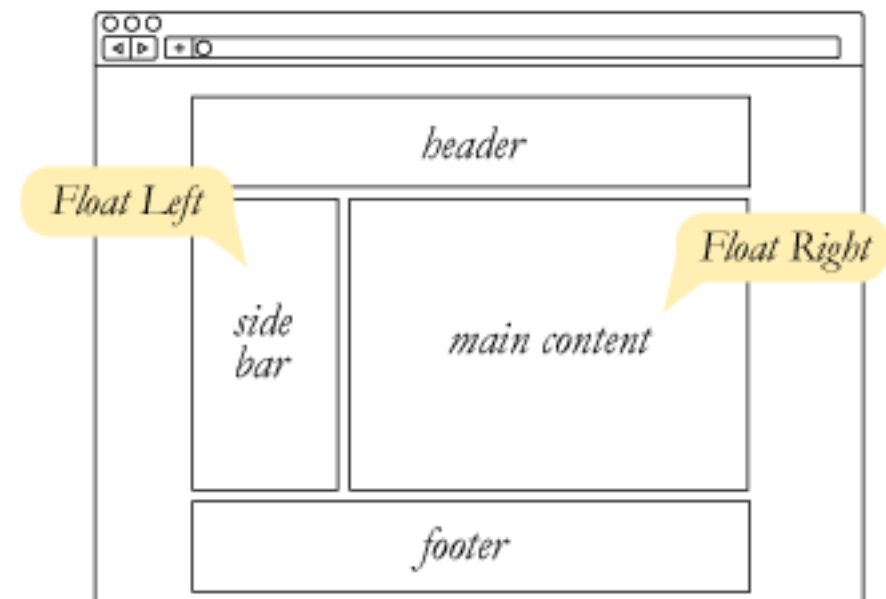
Easiest way to offset content like divs, images, pullquotes, or other elements within the flow of a document.

Requires that an element have **display: block;**

**Three possible values: left, right, none;**

**float: none;** is browser default.

```
#sidebar {  
  float: left;  
}
```

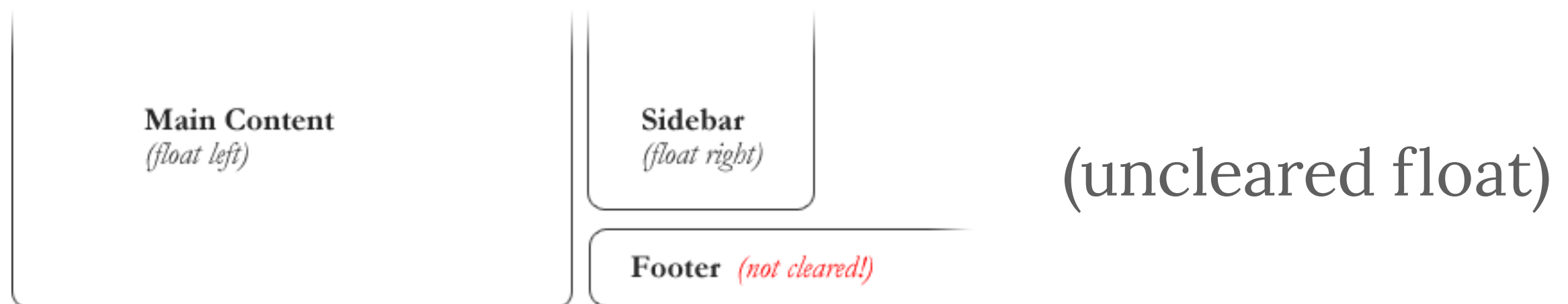




**DEMO**

# THE CLEAR PROPERTY

- CSS float's sister is the **clear** property.
- An element that has the **clear** property set on it will not move up adjacent to the float like the float desires, but **will move itself down past the float**.



# THE CLEAR PROPERTY

- One of the trickiest things about floats is when to stop “floating”
- You can give any element the **clear:both;** style to prevent it from floating.

```
#sidebar {  
    clear: both;  
}
```

# THE MAGIC FLOAT FIX

- The most common fix today though is the self-clearing float.
- You can use a **pseudo-element** on the parent of the floated elements to create a “**self-clearing**” float.

```
.clearfix:after {  
    content: "";  
    display: block;  
    height: 0;  
    clear: both;  
}
```



**DEMO**



# CSS POSITIONING

# CSS POSITIONING

- The **position** property lets us arrange elements:
  - In relation to the normal flow (**relative**)
  - In a very specific place outside of the flow or within a **relative** element. (**absolute**)
  - In relation to the browser window (**fixed**)
- How **position** is applied depends on where the element is in the flow by default.



# CSS POSITIONING

We can dictate where elements go on the page down to the pixel!

left, right, top, bottom

Can tweak positively or negatively

```
nav {  
    position: absolute;  
    right: -10px;  
    top: 30px;  
}
```

# POSITION: FIXED

- **position: fixed;** is a way to make content “stick” to the browser window, regardless of where the user scrolls.
- Commonly used to make headers, nav, or footers that follow the page as it scrolls.

```
nav {  
    position: fixed;  
    width: 100%;  
    left: 0;  
    top: 0;  
}
```

# SEMANTIC ELEMENTS

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**Semantics** is the study of the meanings of words and phrases in a language.

**Semantic elements** = elements with a meaning.

A semantic element clearly describes its meaning to both the **browser** and the **developer**.

Non-semantic: `<div>`, `<span>`

Semantic: `<form>`, `<article>`, `<section>`

# SEMANTIC ELEMENTS (HTML5)

`<article>`

`<aside>`

`<footer>`

`<header>`

`<main>`

`<mark>`

`<nav>`

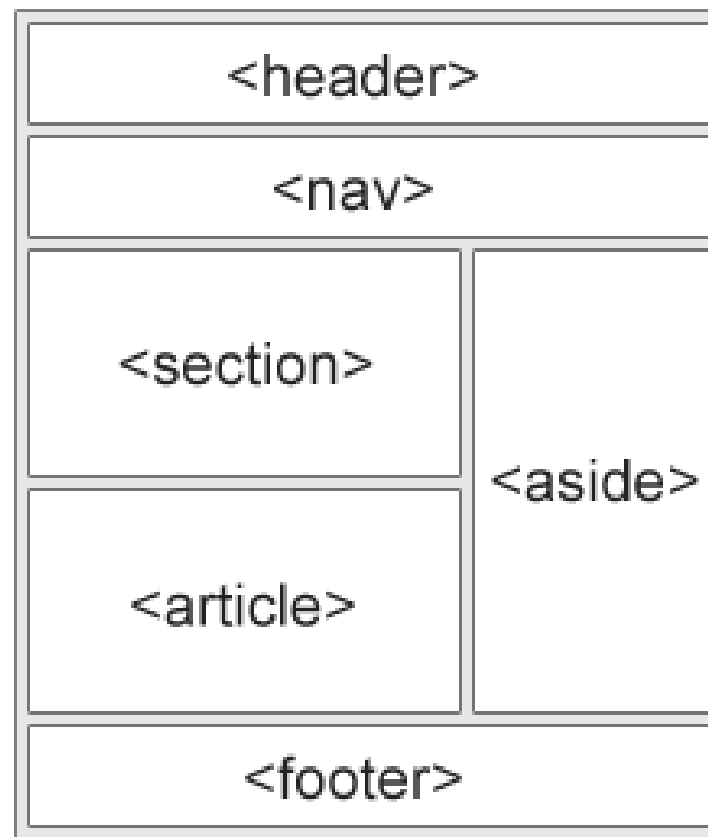
`<section>`

`<progress>`

`<time>`

# FURTHER READING

- [http://www.w3schools.com/html/html5\\_semantic\\_elements.asp](http://www.w3schools.com/html/html5_semantic_elements.asp)





**PRACTICE TIME!**

# ASSIGNMENT

- Find a free, open source font and use it on your site.
- Update your website to use semantic elements.
- Float at least one element – remember to clear it afterwards!



# “HOMEWORK”

- Practice!
- Optional: read chapters 15 and 17 of *HTML and CSS: Design and Build Websites*

