

Intro to CSS

Module 4 Week 8

Notes Repo: <https://github.com/C-Shi/lhl-flex-lecture>



Learning Objectives

Multi Page vs Single Page

Front End Component: HTML vs CSS vs JavaScript

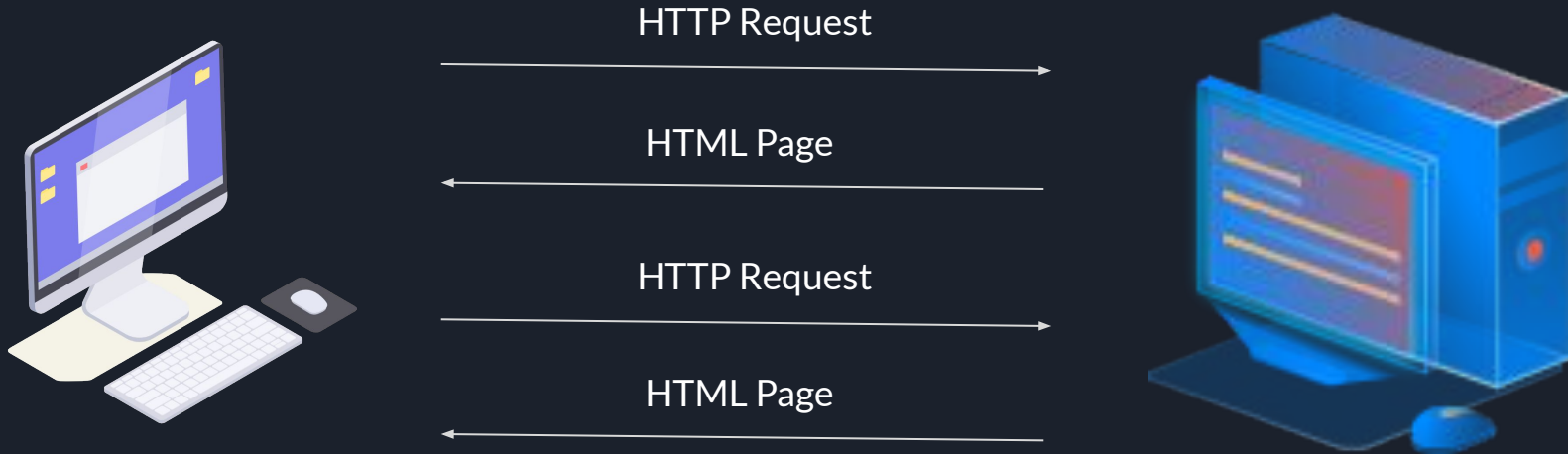
Semantic HTML

CSS Selector and Specificity

Box Model

Web Layout

Multi Page Application: TinyApp



Single Page: Tweeter



Initial Page Load HTTP Request



HTML Page with instructions



Ajax request for Data



JSON data set





Front End Component

This is a green, round **button** that can be **clicked** to show an alert

HTML determine what it is

```
<button>BUTTON</button>
```

CSS describe what it looks like

```
button {  
  background-color: green;  
  padding: 50px;  
  border-radius: 50%;  
}
```

JavaScript define what it can do

```
document.querySelector('button')  
  .addEventListener('click', function() {  
    alert('button click')  
  })
```

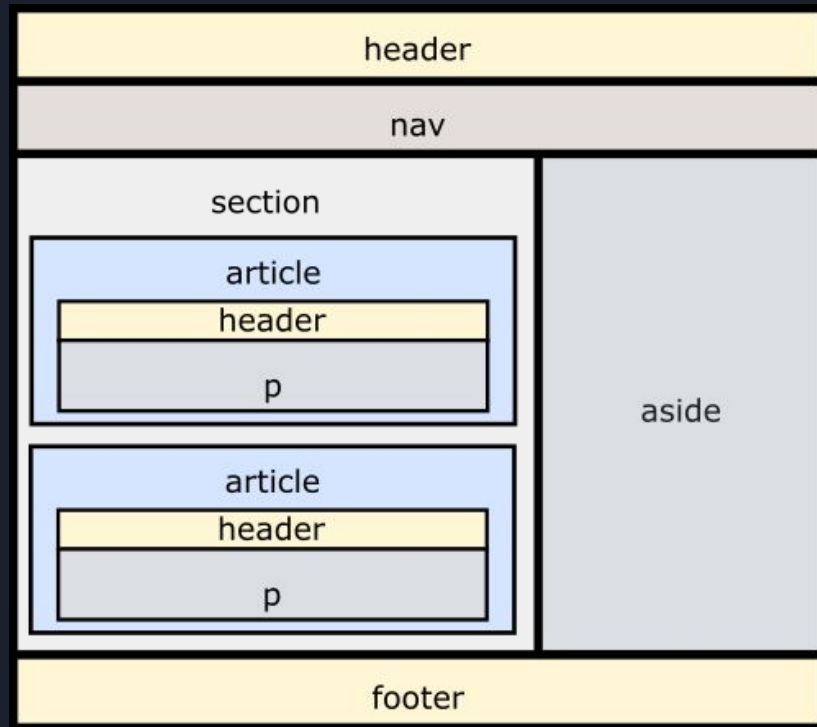
Semantic HTML

A semantic element is Tags that describes its meaning

Semantic HTML help Search Engine Optimization

Semantic HTML help developers organize codes and data

Use [Semantic HTML](#) element whenever possible





CSS Selectors and Specificity

Selectors

Define elements to which CSS rules apply

Universal selectors

Type(Tag) selectors

Class selectors

ID selectors

Attribute selectors

Combinator selectors

Pseudo selectors

Specificity

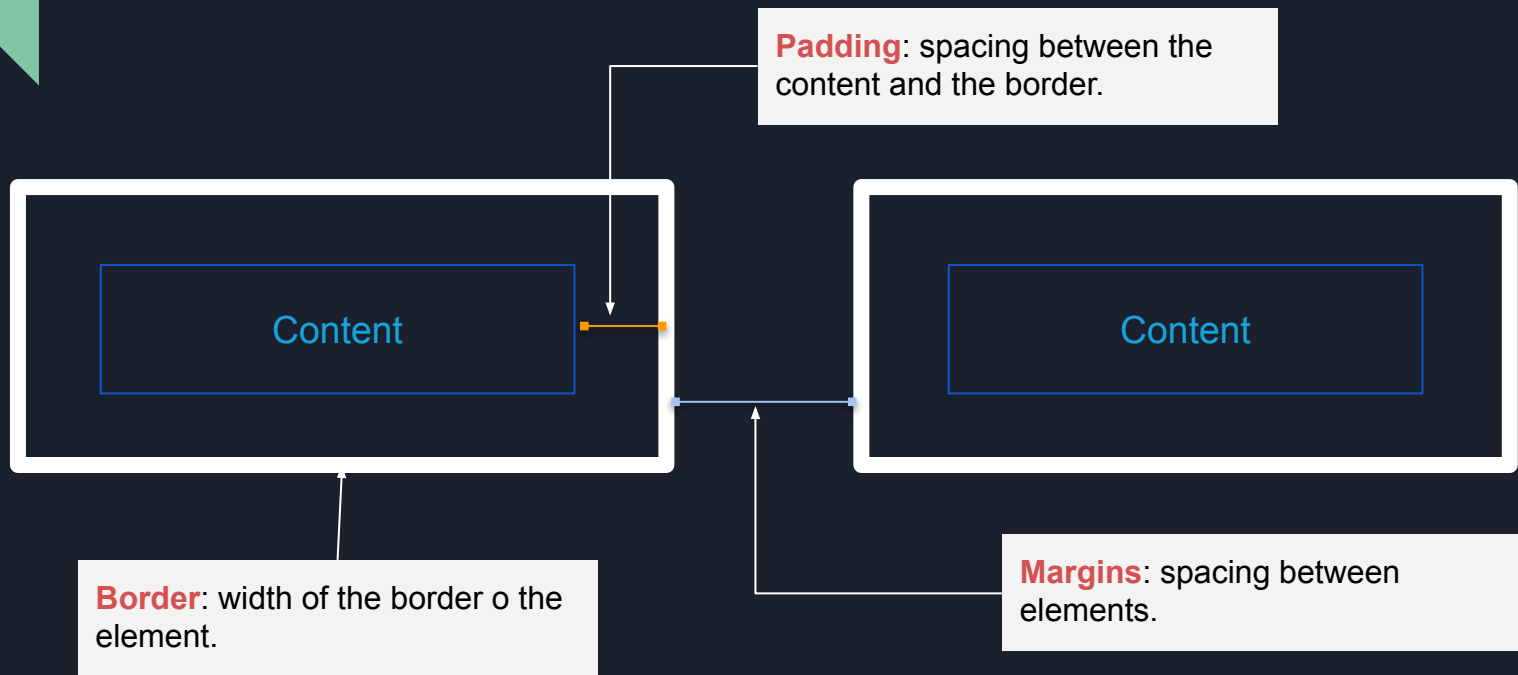
Browser decides which rules to apply in conflict

Inline > ID > Class > Type/Attribute

Inherited property vs specificity

Try not to use **!important**

Box Model



To manage page layout better, it is recommended to use border box



Web Layout

You need to position elements and move things around

By default, all elements are on the same surface

Under normal flow, you can push/move thing around but not overlap

Floats

Flexbox

Grid

Web Layout: Floats

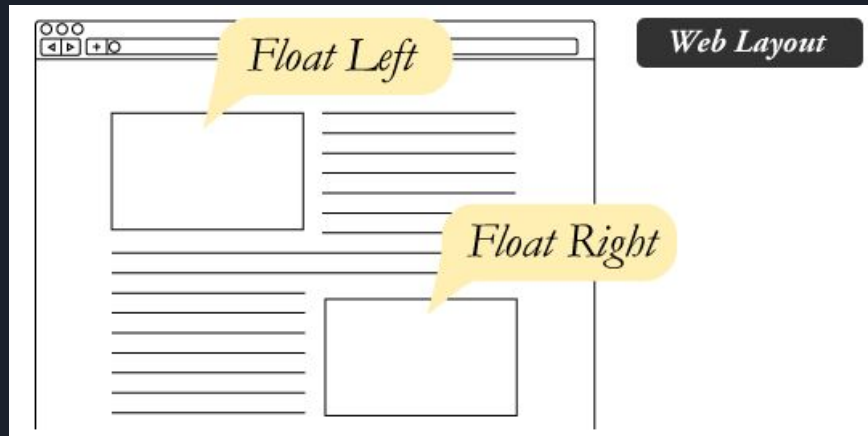
You may have to deal with floats with **legacy CSS code**.

Place an element on the left or right side of its container

Or until it hits another floated element

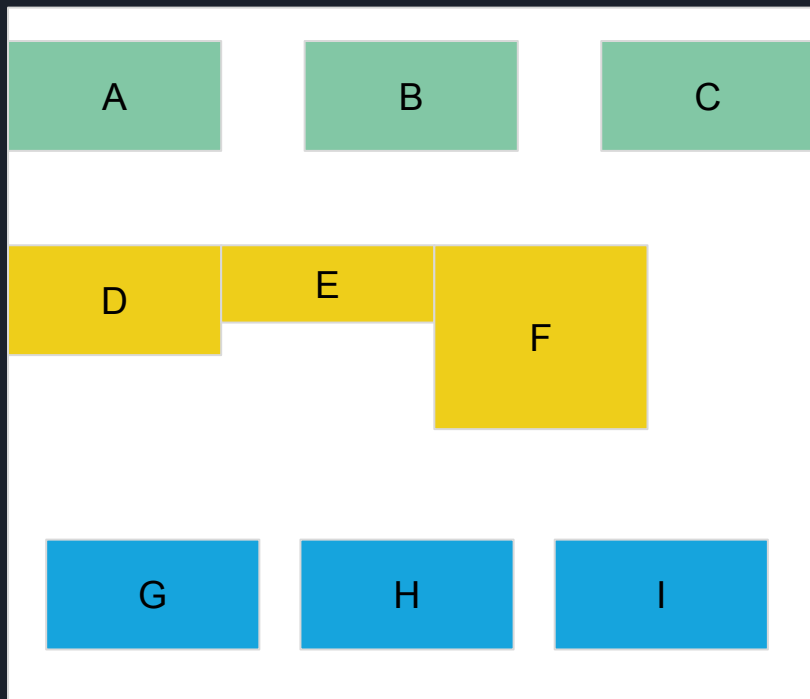
Allow text to wrap around it

Still in the same surface

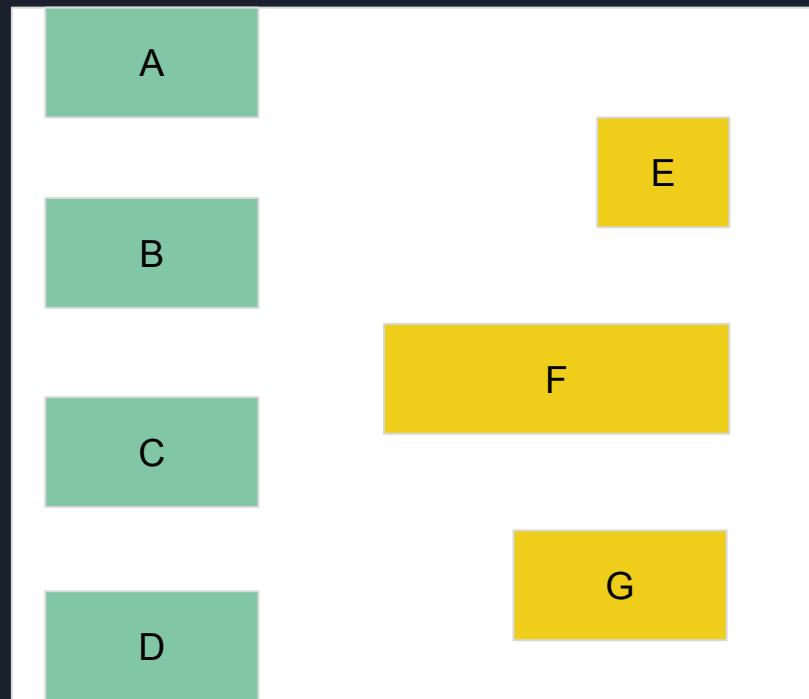


Web Layout: Flexbox

Arrange items horizontally



Arrange items vertically






CSS properties on container

property	value	description
display	flex	To start using flexbox
flex-direction	row row-reverse column column-reverse	x or y axis to place item
justify-content	flex-start flex-end center space-between space-around space-evenly	How to place item on main axis.
align-items	flex-start flex-end center stretch baseline	How to place item on cross axis

More properties on: <https://css-tricks.com/snippets/css/a-guide-to-flexbox/>
Flexbox Game: <https://flexboxfroggy.com/>



Stretch Topic – Debug CSS

Debugging CSS with Browser DevTool

- Element Selector
- Styles breakdown
- Computed Style
- Layout Preview