



Module 4 Day 2

CSS

Box Model

- Block Elements
 - div, h1-6, p, header, footer, section
 - Margin, padding, height effective
- Inline elements
 - span, a, img
 - Vertical settings have no effect
- [Inline-block elements](#)
 - select, button
- Change using the *Display* property



Demo

CSS Rules - Properties

```
Selector(s) {  
    property : value;  
    property : value; ...  
}
```

- Property : value pairs
 - color : Red;
 - background-color : Yellow;
- https://developer.mozilla.org/en-US/docs/Web/CSS/Reference#Keyword_index

CSS Rules - Selectors

```
Selector(s) {  
    property : value;  
    property : value; ...  
}
```

- Type (element) selectors: p, body
- Class selectors: .className
- ID selectors: #mainDiv
- Combinations: div.warning
 - All DIV elements that also have class = warning

CSS Rules – Advanced Selectors

```
Selector(s) {  
    property : value;  
    property : value; ...  
}
```

- Multiple selectors: A, B
- Descendant: A B
- Child: A > B
- Attribute Selectors: input[type=number]
- Pseudo-class selectors: :hover, :focus, :disabled, :nth-child(2n)

Let's
Code

Display

- Inline
 - Does not start a new line
 - Only uses height/width necessary. Height / Width props have no effect
 - span, a, img, em, strong
- Block
 - Always starts a new line
 - Takes up full width of parent. Height / Width can be set
 - div, p, li, h1-h6
- Default can be changed using *display* property
- Inline-block
 - Does not start a new line
 - Height / Width can be set
- None
 - Hides element and removes it from the flow.
 - Compare to Visibility: hidden



Demo

Position

- Default (static)
 - Left to right, top to bottom, in order they appear in the HTML document
- Relative
 - Relative to where it would otherwise be positioned in the normal flow
 - *top, right, bottom, and left*
- Absolute
 - Place the element relative to the parent ancestor
 - Elements are removed from the flow of the page.
 - Setting both *top* and *bottom*, or both *left* and *right*, you can "stretch" an element's dimensions.
- Fixed
 - Relative to the browser window
 - Does not scroll with the page.



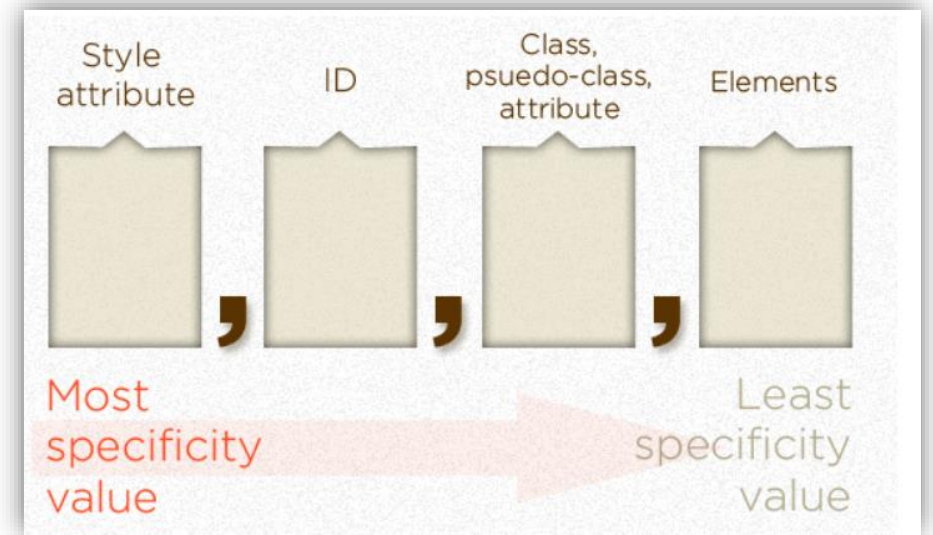
Demo

Units of Measurement

- Pixels – 40px;
- Other absolute units: in, cm, mm, pt, pc
- Relative to the current font – 2.5em;
- Relative to the Root Element font – 1.8rem;
- Percentage relative to parent – width: 50%;

Specificity

- The most “specific” definitions apply
 - Inline styles trump stylesheets
 - Ids trump classes
 - Etc.
- https://www.w3schools.com/css/css_specificity.asp
- <https://css-tricks.com/specifcs-on-css-specificity/>
- <https://specificity.keegan.st/>



CSS Variables (bonus 😊)

```
:root {  
  --gutter: 20px;  
  --blue: ■ #00adee;  
  --green: ■ #8cc36f;  
  --bg-color: □ rgba(192, 192, 192, 0.1);  
}  
  
body {  
  background-color: var(--bg-color);  
}
```