

# HTML & CSS

## Part 2

CSC309  
Mark Kazakevich

# Conflicting selectors

- What happens when two selectors appear to conflict?

```
p em {  
    color: green;  
}
```

```
em {  
    color: red;  
}
```

```
<p>  
    <em>Green or red?</em>  
</p>
```

# Conflicting selectors

- The more **specific** selector takes precedence

```
p em {  
    color: green;  
}
```

```
em {  
    color: red;  
}
```

```
<p>  
    <em>Green or red?</em>  
</p>
```

# Specificity Precedence

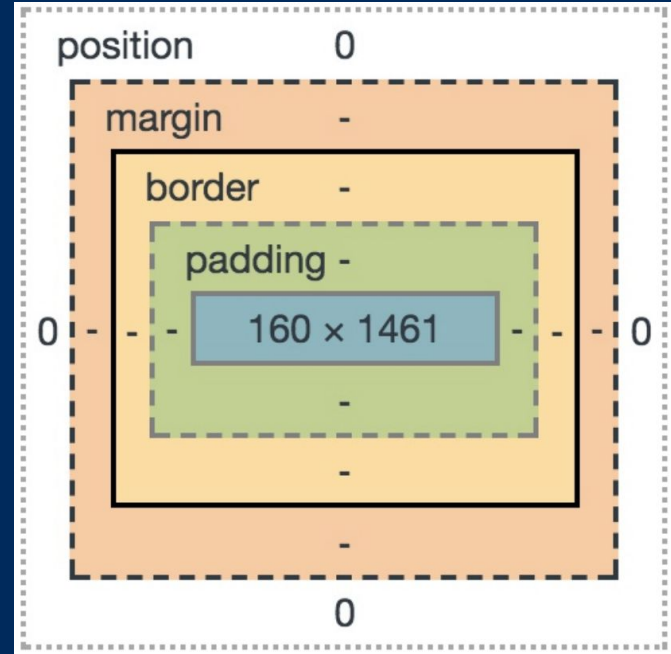
- **Ids**
- **Classes**
- Elements
  - Parent elements more specific than children
- How about same specificity?
  - Rule further down style sheet wins

# CSS Inheritance

- Children inherit parent styles in most cases
- See documentation for exceptions and ways to change inheritance

# Size and Position: CSS Box Model

- All HTML elements considered 'boxes' by CSS
- Element size and position determined by values of the box model



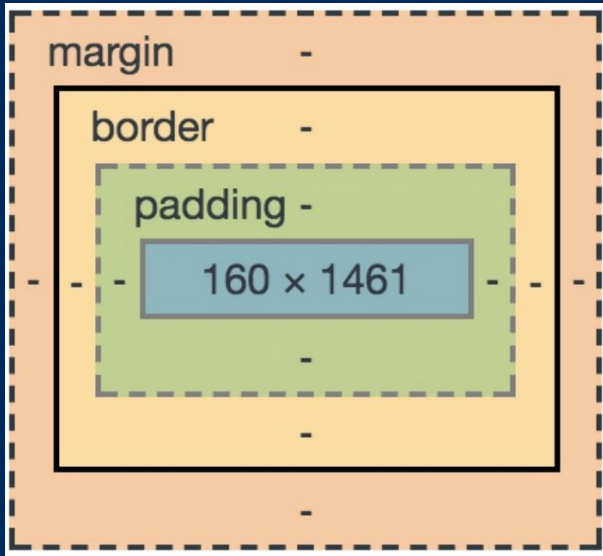
# CSS Box Model: Size

**Content:** Width and height of the content

**Padding:** Space between content and border

**Border**

**Margin:** Area around the border (“clearing” space)



# CSS Box Model: Size

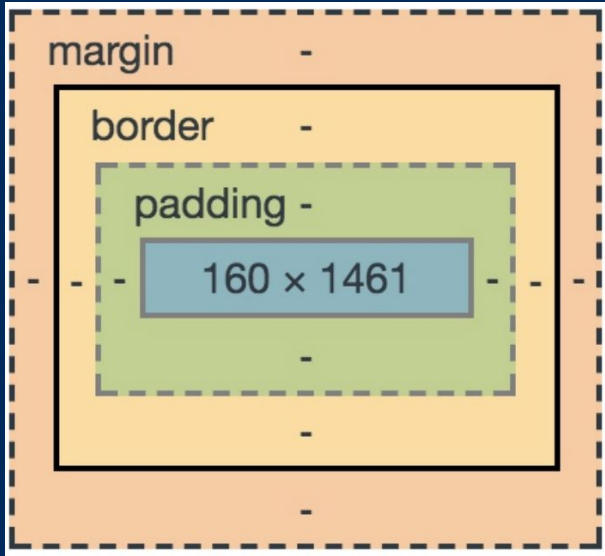
**All size elements are properties in CSS:**

border

border-top, border-bottom  
border-right, border-left

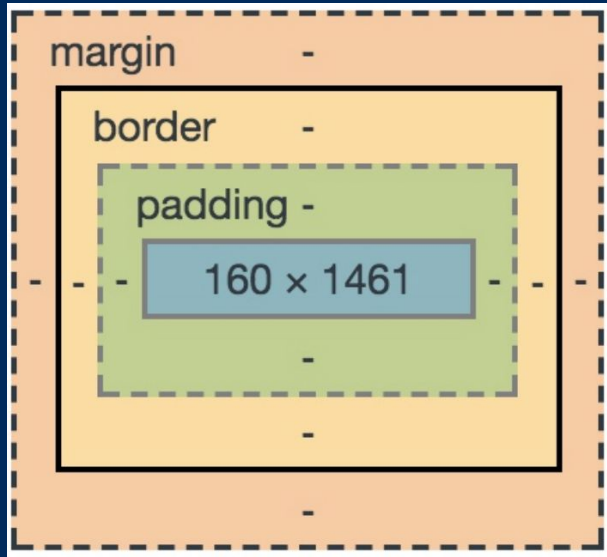
margin, margin-top, etc.

padding, padding-top, etc.





# CSS Box Model: Size



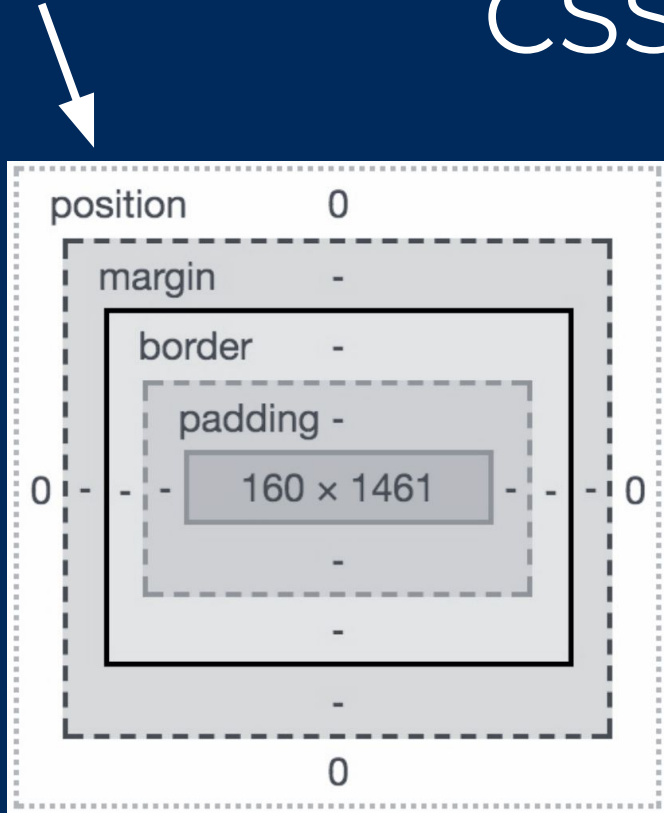
**Content size** (blue area)  
specified by pixels or % of  
parent element dimensions

width: 20px

height: 50%

Recall, can only change  
height/width for block  
elements

# CSS Positioning



- **Positioning** of elements refers to a deviation from their natural flow
  - I.e., where the elements are placed by default

# CSS Positioning

- Static
  - The default position (in the 'flow')
- Fixed
  - Fixed position in viewport
  - Does not move even with scrolling
- Relative
  - Positioned relative to **its natural location**
- Absolute
  - Positioned relative to **first non-static parent**

# Cascading Style Sheets

**Cascade:** The order of precedence for rules on a selector

