

# MIS3690 - Web Technologies



# Advanced CSS Selectors

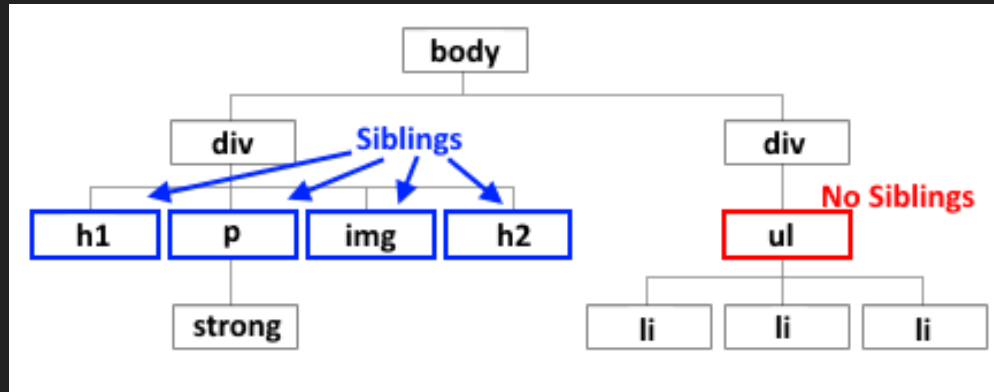
# Basic CSS Selectors

- Type selectors: `li {color:red}`
- Class selectors: `li.spacious {margin: 20px}`
- ID selectors: `#bordered {border:1px black solid}`
- Universal selectors: `* {color :green}`
- Attribute selectors:
  - `a[href="https://www.google.com"] {font-size: 2em}`
  - more on [syntax](#)
- Combine selectors into a selector list, using `,`

```
h1, .special {  
  color: blue;  
}
```

# Adjacent sibling combinator

- Siblings

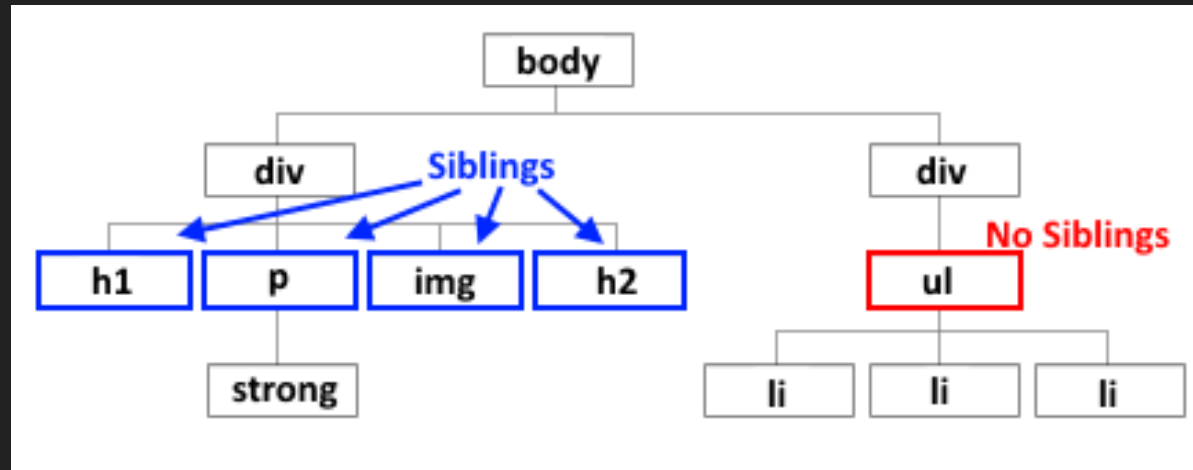


- Syntax: +

```
/* Paragraphs that come immediately after any h1 */
h1+p {
  color: red;
}
```

# General sibling combinator

- Siblings

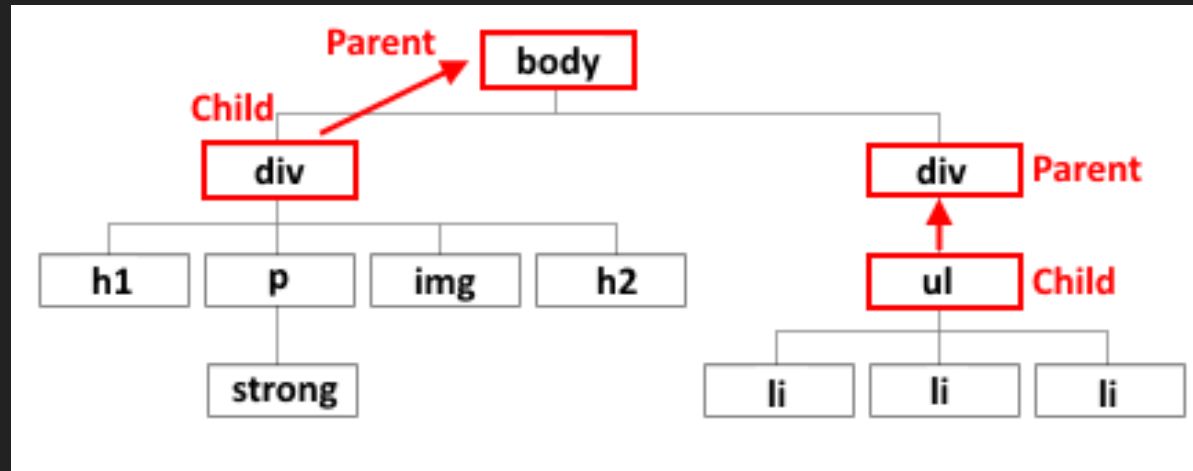


- Syntax: ~

```
/* all <h2> elements that are siblings of and subsequent to any h1 */
h1~h2 {
  color: red;
}
```

# Child combinator

- Parent and child

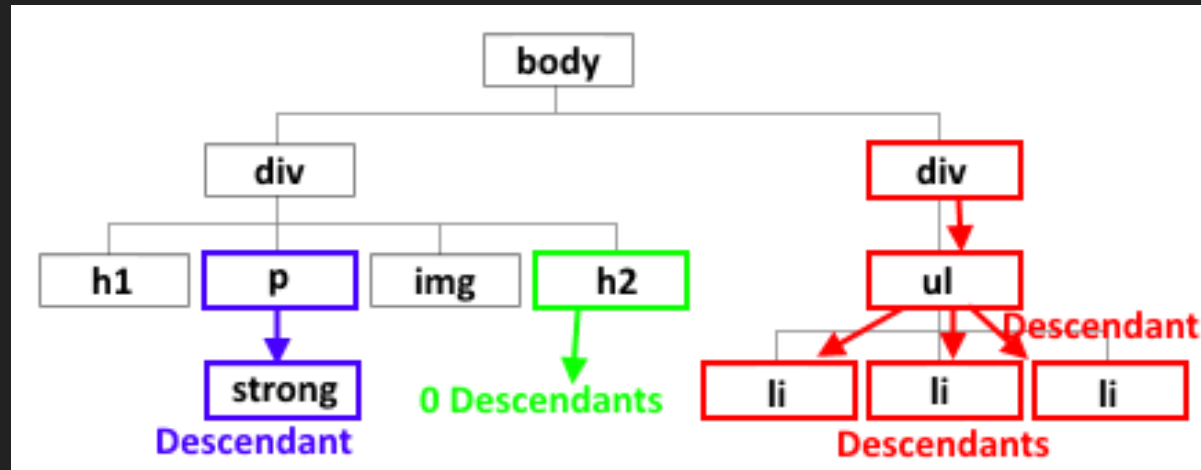


- Syntax: >

```
/* List items that are children of the "my-things" list */
ul.my-things>li {
  color: red;
}
```

# Descendant combinator

- Ancestor and descendant



- Syntax: (a single space)

```
/* List items that are descendants of any <div> */  
div li {  
    color: red;  
}
```

# Pseudo-elements ::

- Pseudo-element selectors select a certain part of an element rather than the element itself.
- Examples:

```
/* Selects the first lines of any <p> */  
p::first-line {color: red;}  
  
/* Selects the first letters of any <p> */  
p::first-letter {font-size: 2em;}
```

- See more [examples](#)



# Pseudo-classes :

- Pseudo-classes style certain states of an element.
- Examples:

```
/* Selects any <p> that is the last element among its siblings */  
p:last-child {  
    color: lime;  
}  
/* Selects the second <li> element in any list */  
li:nth-child(2) {  
    color: lime;  
}
```

- See more [examples](#)

# Link styles

- `a:link` (applies to normal links)
- `a:visited` (applies to visited links)
- `a:hover` (affects a link when cursor is placed above it)
- `a:active` (applies to active links)

# In-class exercises

- Play with all the selectors on [w3schools](#)
- Try some advanced selectors in any of your old files.
  - e.g., in *ex05.html*, can you use `smiley.gif` as bullet markers for courses only?
- Play with [CSS Diner](#)

# Questions?

