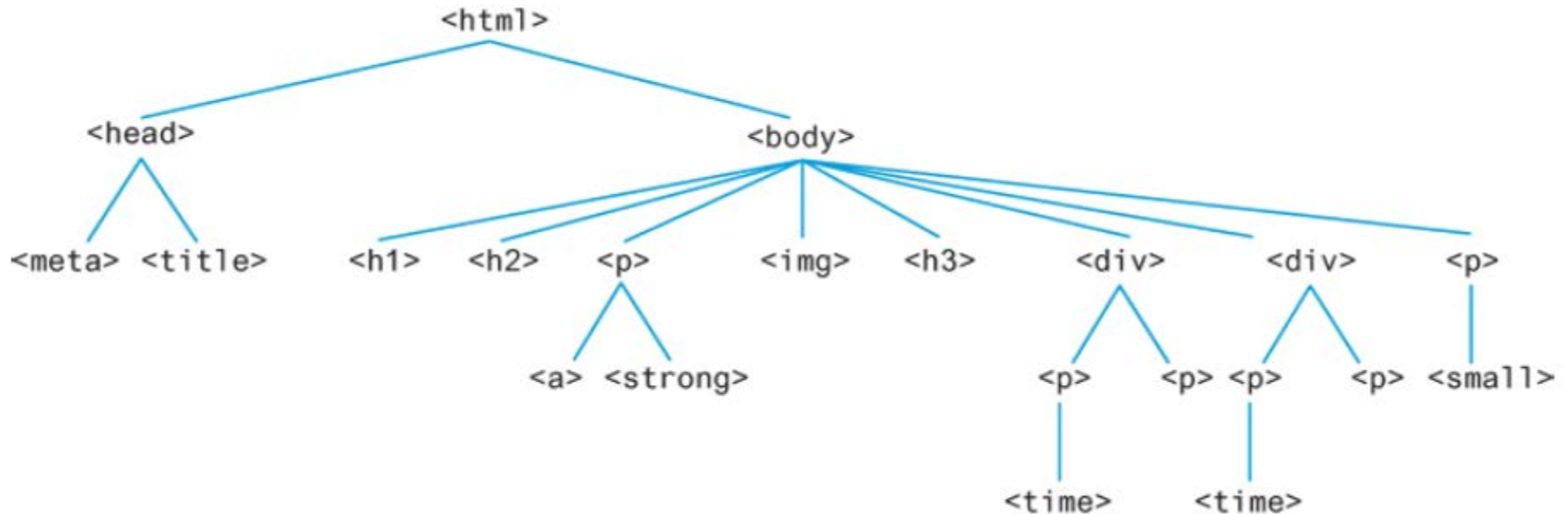


MIS 310 – CSS (cont)

- `/* this is a CSS external style sheet comment and it can span multiple lines */`
 - Useful for organization
 - Also debugging / hiding rules
- Normalize.css
 - <http://necolas.github.io/normalize.css/>
- Useful test page
 - <https://github.com/cbracco/html5-test-page/blob/master/index.html>

Remember the DOM



When devising CSS rules, keeping the DOM in mind will help.

Selectors

- Element selectors

- * { color: blue; }

- p { color: red; }

- Class selectors

- .ri { color: red; font-style: italic; }

- <p class="ri">This will be red and in italics</p>

- Adding the same **class** attribute value to different HTML elements will apply the same style

MDN [reference](#) for CSS selectors.

Selectors (cont)

- ID selectors

```
#best { color: red; font-style: italic; }
```

```
<p id="best">This will be red and in italics</p>
```

- ID selectors are used once per page; Class selectors can be used multiple times

- Attribute selectors

```
[title] { border: 10px solid red; }
```

```

```

- Can make use of additional symbols: =, ~, ^, \$

Selectors (cont)

- Attribute selectors (cont)

```
a[href$="pdf"] { color: red; }
```

```
<p><a href="doc1.pdf">1pdf</a></p>
```

```
<p><a href="doc1.doc">1doc</a></p>
```

- Pseudo-Element selector

```
p::first-letter { font-size: 130%; }
```

- Pseudo-Class selector

```
img:hover { transform: scale(1.1); }
```

Selectors (cont)

- Contextual selectors / Combinators
 - Adjacent siblings: immediately follows
`h1 + p { color: red; }`
 - General siblings: follows
`h1 ~ p { color: red; }`
 - Child: direct descendants
`h1 > p { color: red; }`
 - Descendant: any level
`h1 p { color: red; }`

Cascading

- Inheritance – many (but not all) CSS properties affect descendants
 - E.g. font, color, text (not layout, sizing, borders)
- Selector specificity
 - `body { color: red; }` is overridden by `p { color: blue; }`
- Location – last rule wins
- !important
 - `.myParagraph { color: blue !important; }`

The Box Model

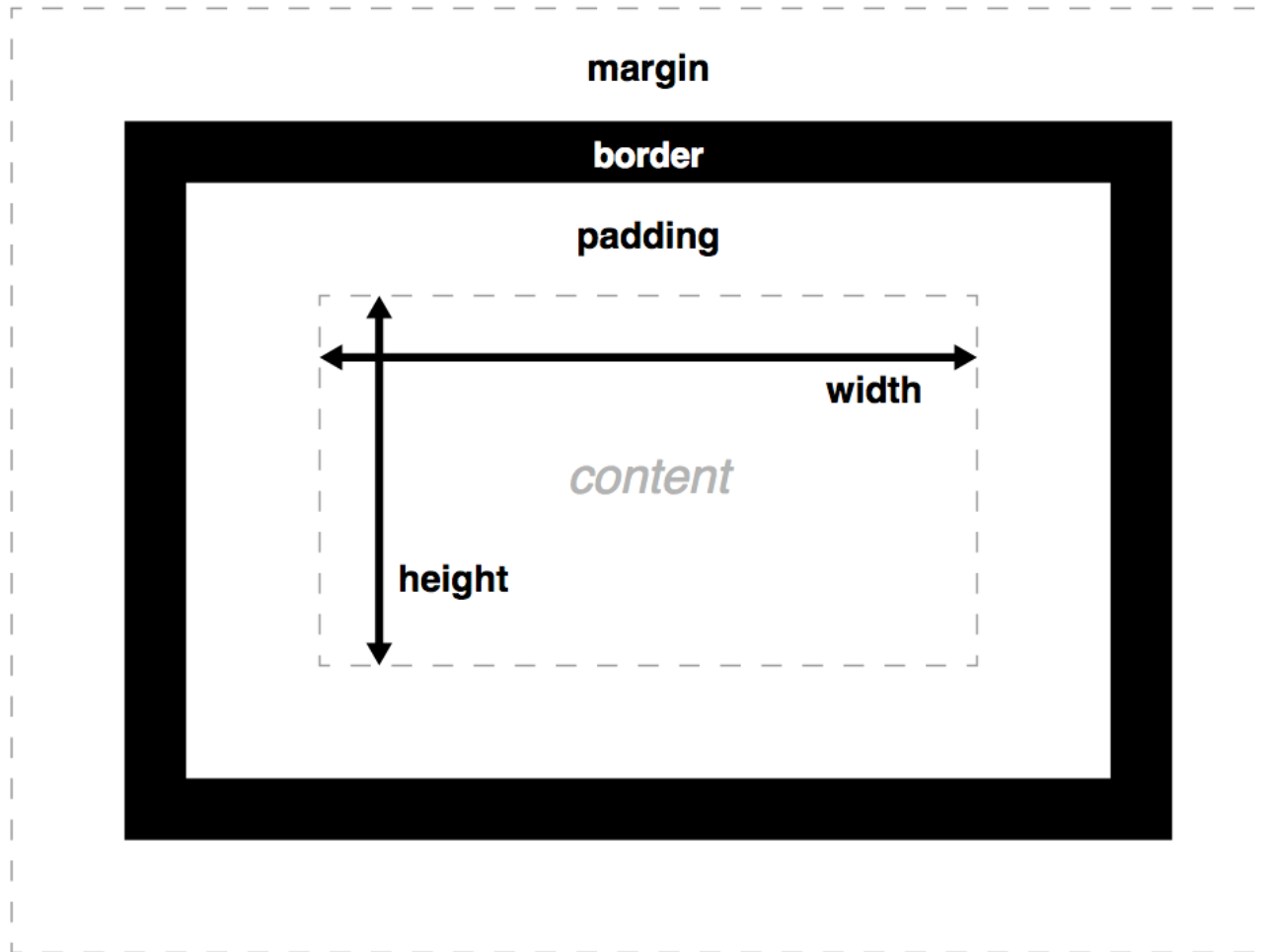


Image from [MDN](https://developer.mozilla.org/en-US/docs/Web/CSS/Box_model)

Border

- Border [width] [style] [color];
border: 2px dashed black;
border-top: 2px solid black;
border-color: red;
border-color: red green orange blue; /* top-right-
bottom-left */

Margin / Padding

- Examples:

`margin: -3px; /* All four sides */`

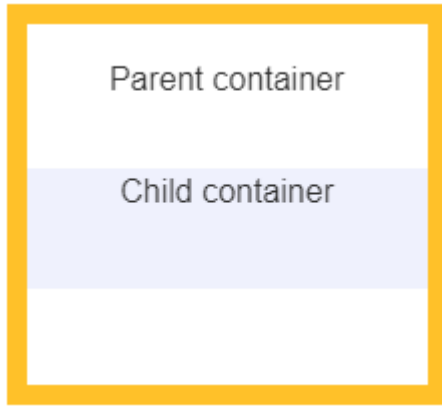
`margin: 5% auto; /* vertical | horizontal */`

`margin: 1em auto 2em; /* top | horizontal | bottom */`

`margin: 2px 1em 0 auto; /* top | right | bottom | left */`

- Same approach for padding
- MDN demo: [margin](#) | [padding](#)

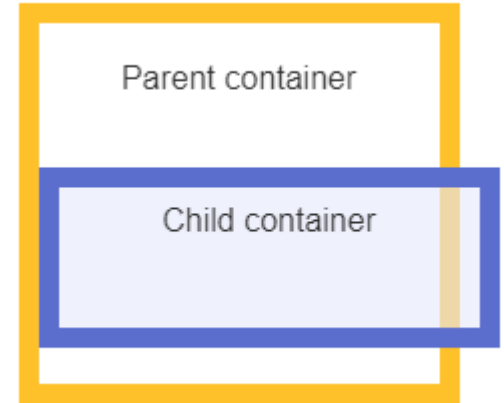
Sizing Concerns



`width: 100%;`



Border/padding might cause a child element to extend beyond the limits of the parent element.



`width: 100%;`
`border: solid #5B6DCD 10px;`
`padding: 5px;`

Default box-sizing behavior is with respect to the content-box. Changing it to border-box will take padding/border into account.



`box-sizing: border-box;`
`width: 100%;`
`border: solid #5B6DCD 10px;`
`padding: 5px;`

Image from [MDN](https://developer.mozilla.org/en-US/docs/Web/CSS/box-sizing)