

# Training Connection

## Class 7817

Miscellaneous slides and board notes

Chris Langtiw, [chris@sitebabble.com](mailto:chris@sitebabble.com)

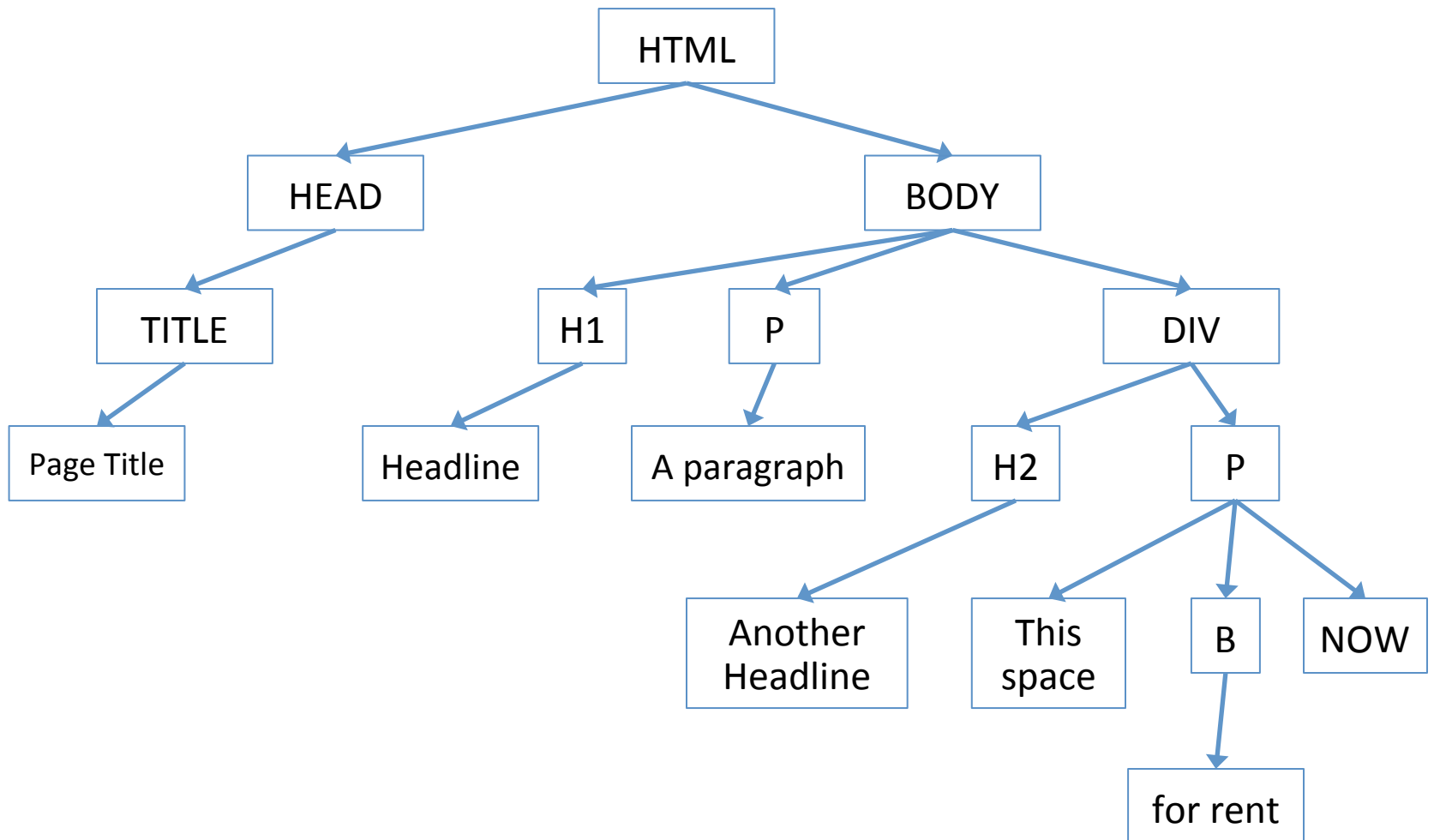
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# The Document Object Model (DOM)

- The web browser parses the HTML and stores the content in memory as a tree
- EVERYTHING is represented in the tree as nodes (12 kinds of nodes total)
- The order of the nodes is important
- In Javascript, our concern is with element and text nodes

# The Document Object Model (DOM)

```
<html>
<head>
  <title>Page Title</title>
</head>
<body>
  <h1>Headline</h1>
  <p>A paragraph</p>
  <div>
    <h2>Another Headline</h2>
    <p>This space <b>for rent</b> NOW</p>
  </div>
</body>
</html>
```



# CSS Conflict Resolution Rules

Rules are hierarchal and flow from highest to lowest priority:

1. !important outranks all, including inline styles
2. Rank order: inline styles => ids => classes => elements
3. Rule with highest specificity wins
4. Last defined selector wins
5. Inheritance always loses

# Inheritance Always Loses

```
body {  
    color: #000;  
}
```

```
p {  
    color: #7a7a7a;  
}
```

# Last Rule Defined Wins

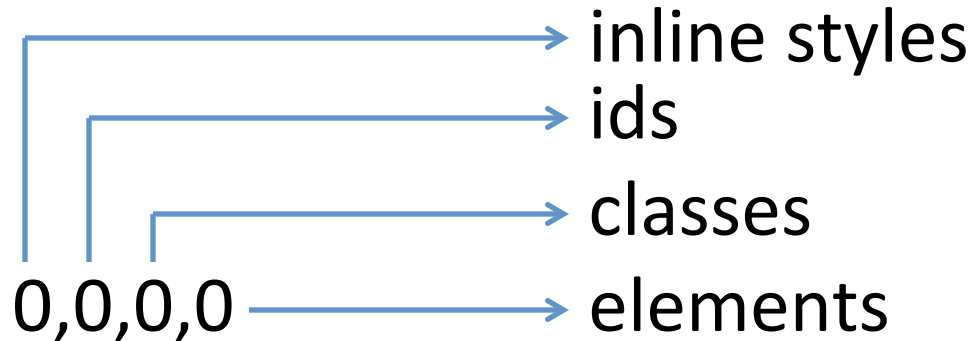
```
p { color: black; }
```

```
...
```

```
p { color: blue; }
```

# Rule With The Highest Specificity Wins

Specificity is expressed as a value 0,0,0,0 where:



To determine a selector's specificity count the number of elements, classes, and ids contained in the selector.



HTML

BODY

DIV#main

P

DIV#sidebar

P

```
body p { color: #000; }  
p { color: #f00; }
```

# Rank Order (a.k.a. “The Poker Rule”)

```
html body div div div table tbody tr td div a span  
{ color: red; }
```

```
.highlight  
{ color: yellow; }
```

# Which rule has the highest rank?

0,0,1,0

0,1,0,0

0,0,0,102

0,1,1,0

0,0,2,15

0,1,0,2

0,0,4,3

# !important sucks!

- !important overrides all other directives, including inline styles
- Can only be overridden with more !important directives
- Quickly gets out of hand
- Avoid using unless absolutely necessary

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IE  
"quirks mode"

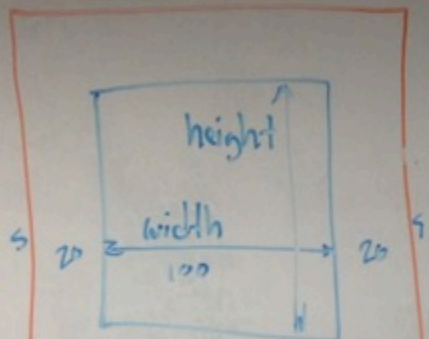
$$C = W - M - B - P$$

30 px

\* ALSO WHEN  
WIDTH: AUTO  
(OR NOT SET)

box-sizing:  
content-box

box-sizing:  
border-box



padding

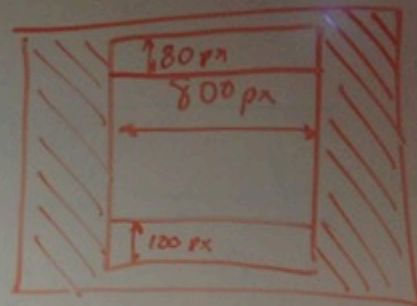
border

margin

$$T = W + P + B + M$$

170 px

$$C = W - B - P \quad T = W + M$$



10.6.10.124/TC7817

`<div class="icon downarrow"></div>`

```
.icon {  
  background: url('icons.png');  
  width: 20px;  
  height: 20px;  
}
```

```
.downarrow {  
  background-position: -20px 0;  
}
```

```
.close {  
  background-position: -20px -20px;  
}
```

