

Combining CSS Selectors

Selecting elements with CSS

Select by Tag

```
h1 {  
    color: blue;  
}
```

Select by Class

```
.class-name {  
    color: blue;  
}
```

Select by ID

```
#id-name {  
    color: blue;  
}
```

We can get
even more
specific with
our selectors!

Select by Tag

```
h1 {  
    color: blue;  
}
```

Select by Class

```
.class-name {  
    color: blue;  
}
```

Select by ID

```
#id-name {  
    color: blue;  
}
```

Combining Tag and Class

```
.logo {  
    font-style: italic;  
}
```

Selects all elements with class logo and makes them italic

Combining Tag and Class

```
h1.logo {  
    font-style: italic;  
}
```

Selects all **h1** elements with class logo and makes them italic

Combining Multiple Classes

```
h1.logo.important {  
    font-style: italic;  
}
```

Selects all **h1** elements with BOTH the class logo and the class important and makes them italic

Combining Multiple Classes

```
h1.logo.important {  
    font-style: italic;  
}
```

```
<h1 class="logo">Hello</h1>
```

```
<h1 class="logo important">Hello</h1>
```

Combining Multiple Classes

```
h1.logo.important {  
    font-style: italic;  
}
```

The rule does NOT apply to this element

```
<h1 class="logo">Hello</h1>
```

```
<h1 class="logo important">Hello</h1>
```


Combining Multiple Classes

```
h1.logo.important {  
    font-style: italic;  
}
```

The rule DOES apply to this element!

```
<h1 class="logo">Hello</h1>
```

```
<h1 class="logo important">Hello</h1>
```

Combining CSS Selectors

```

```

```
<h1>Welcome</h1>
```

```
<p>
```

Here is an image of a
cheetah:

```

```

```
</p>
```

```
<p>
```

Here is an image of a zebra:

```

```

```
<p>
```

Combining CSS Selectors

```

```

```
<h1>Welcome</h1>
```

```
<p>
```

Here is an image of a
cheetah:

```

```

```
</p>
```

```
<p>
```

Here is an image of a zebra:

```

```

```
<p>
```

How can we select
ONLY these img tags?

Combining CSS Selectors

```

```

```
<h1>Welcome</h1>
```

```
<p>
```

Here is an image of a
cheetah:

```

```

```
</p>
```

```
<p>
```

Here is an image of a zebra:

```

```

```
<p>
```

How can we select
ONLY these img tags?

We could make a new
class called
“paragraph-img” and
style that class...

Combining CSS Selectors

```

```

```
<h1>Welcome</h1>
```

```
<p>
```

Here is an image of a
cheetah:

```

```

```
</p>
```

```
<p>
```

Here is an image of a zebra:

```

```

```
<p>
```

How can we select
ONLY these img tags?

OR we could select
only the tags
that are *inside of* <p>
tags!

Introducing

CSS Combinators

CSS Combinators combine two simple selectors to make a more specific selector

CSS Combinators

We'll be looking at 3 combinators:

- Descendant selector (space)
- Child selector (>)
- Next Sibling selector (+)

CSS Combinators

We'll be looking at 3 combinators:

- Descendant selector (space)
- Child selector (>)
- Next Sibling selector (+)

Why are they called “descendant” and “child” and “sibling”?

Family Terminology

Descendants - everything inside of an element

Children - everything one level inside of an element

Parent - the element directly above an element

Siblings - elements that share the same parent

Tree Structure

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title></title>
```

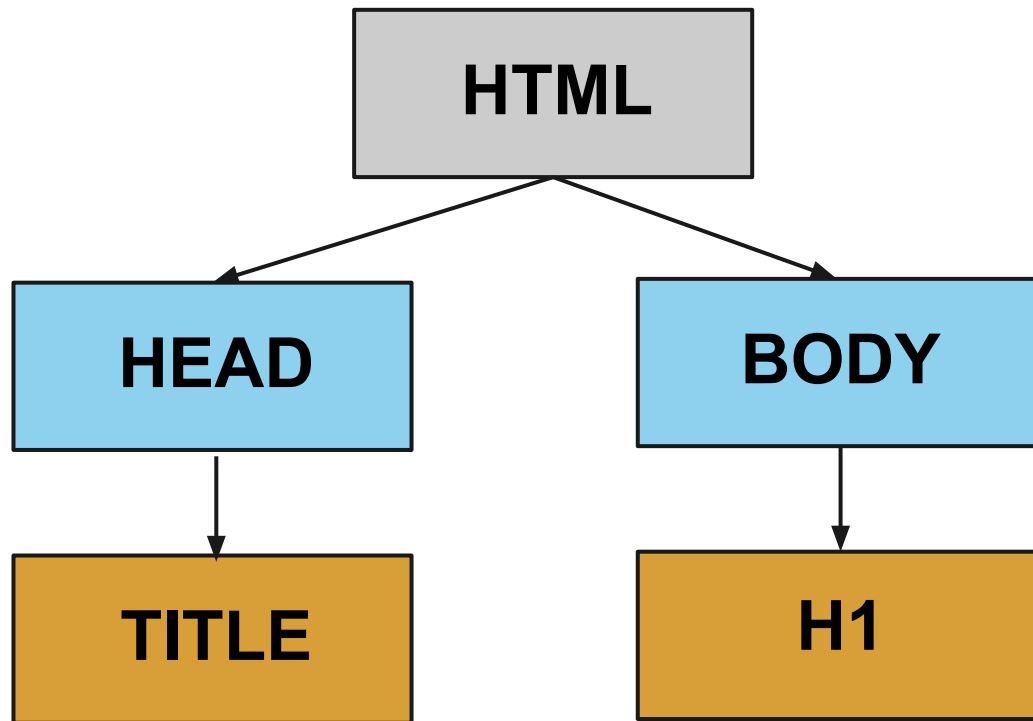
```
  </head>
```

```
  <body>
```

```
    <h1></h1>
```

```
  </body>
```

```
</html>
```



Tree Structure

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title></title>
```

```
</head>
```

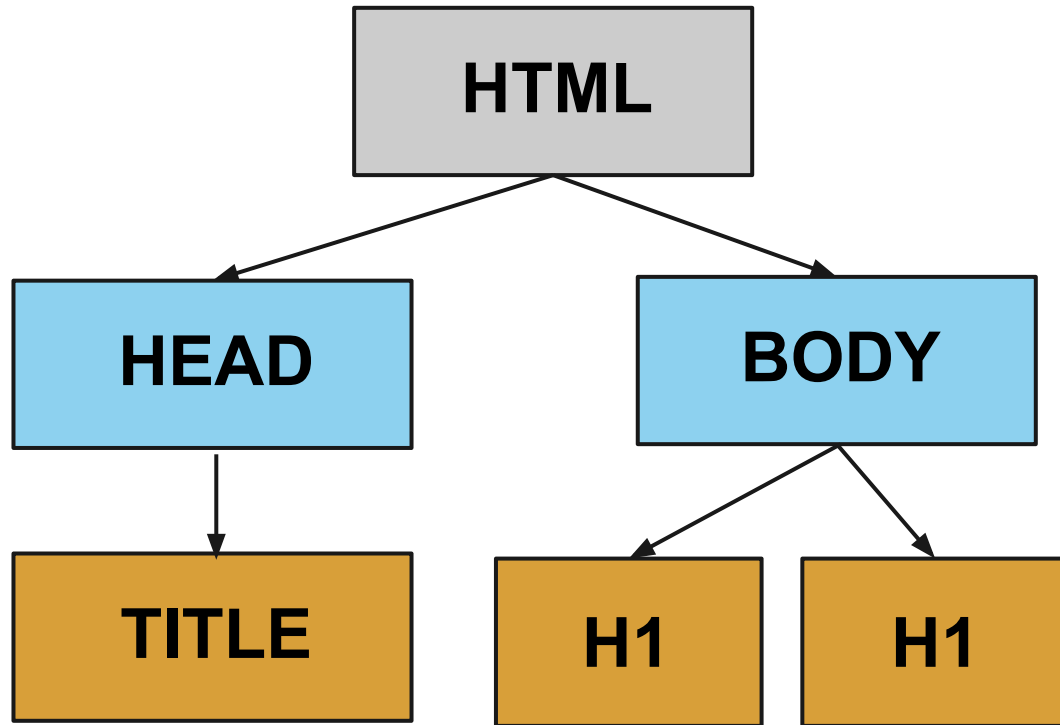
```
<body>
```

```
<h1></h1>
```

```
<h1></h1>
```

```
</body>
```

```
</html>
```



Tree Structure

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title></title>
```

```
</head>
```

```
<body>
```

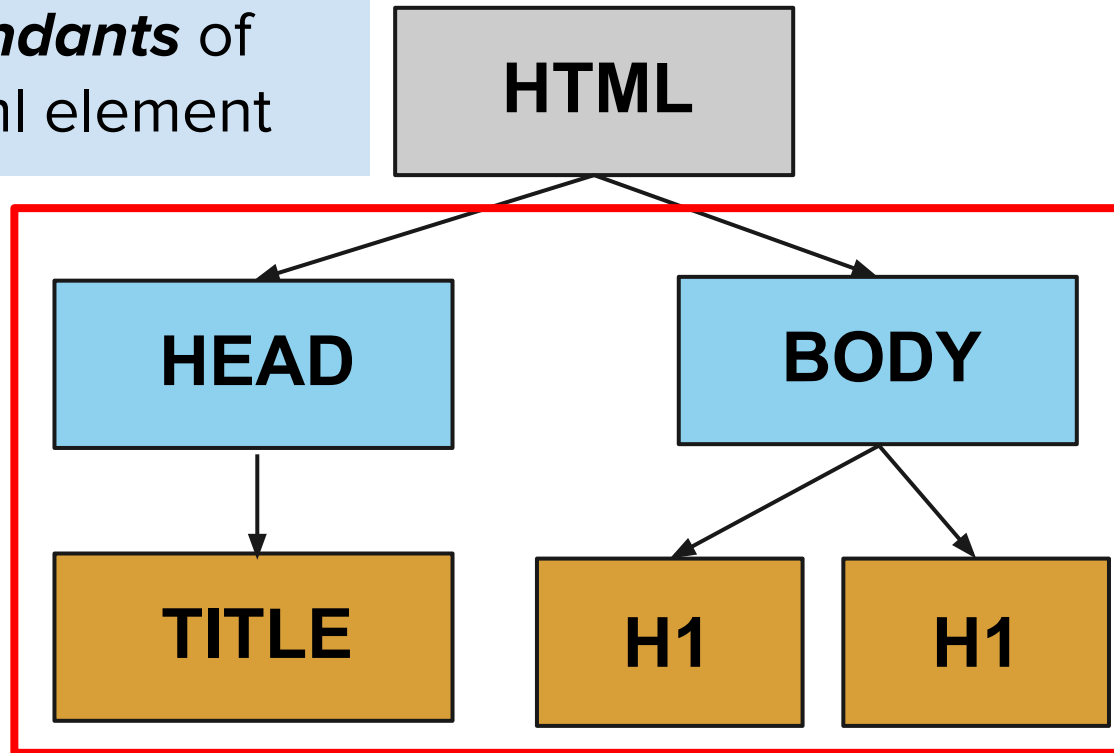
```
<h1></h1>
```

```
<h1></h1>
```

```
</body>
```

```
</html>
```

Descendants of
the html element



Tree Structure

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title></title>
```

```
</head>
```

```
<body>
```

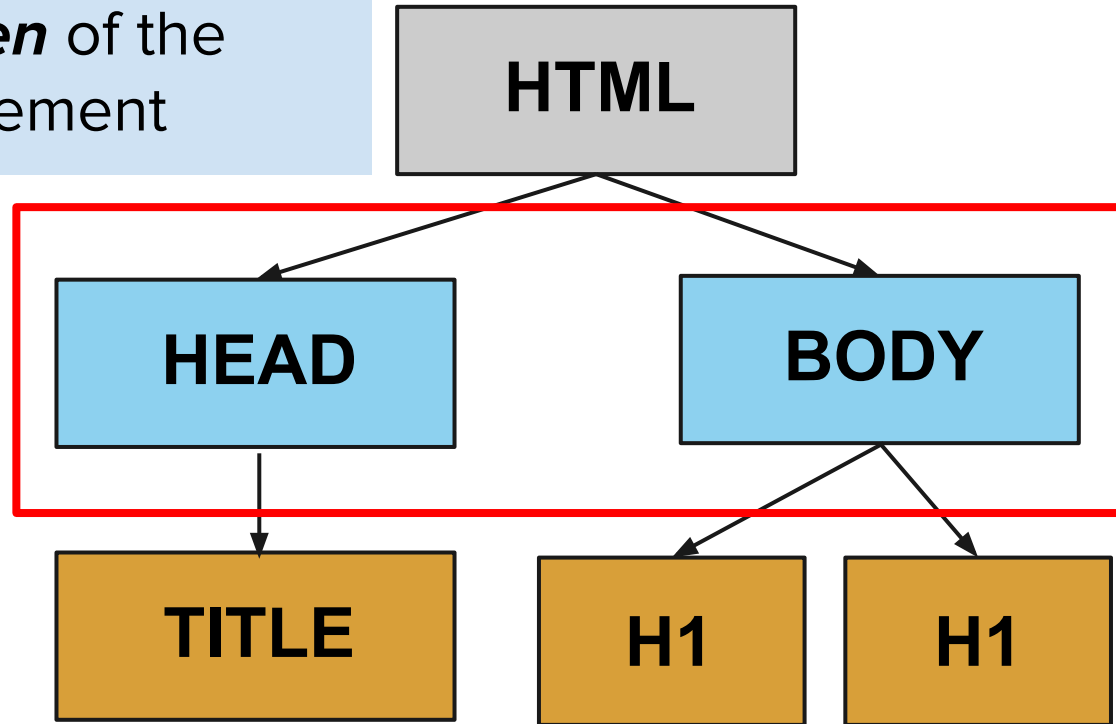
```
<h1></h1>
```

```
<h1></h1>
```

```
</body>
```

```
</html>
```

Children of the
html element



Tree Structure

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title></title>
```

```
</head>
```

```
<body>
```

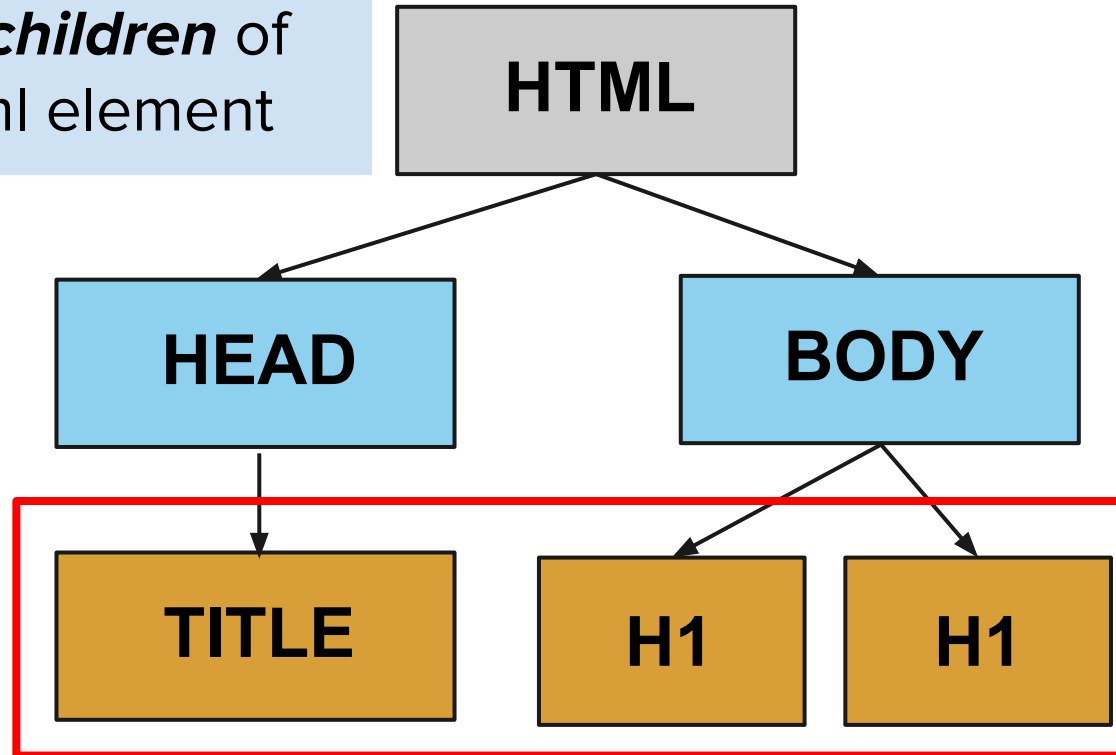
```
<h1></h1>
```

```
<h1></h1>
```

```
</body>
```

```
</html>
```

Grandchildren of
the html element



Tree Structure

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title></title>
```

```
</head>
```

```
<body>
```

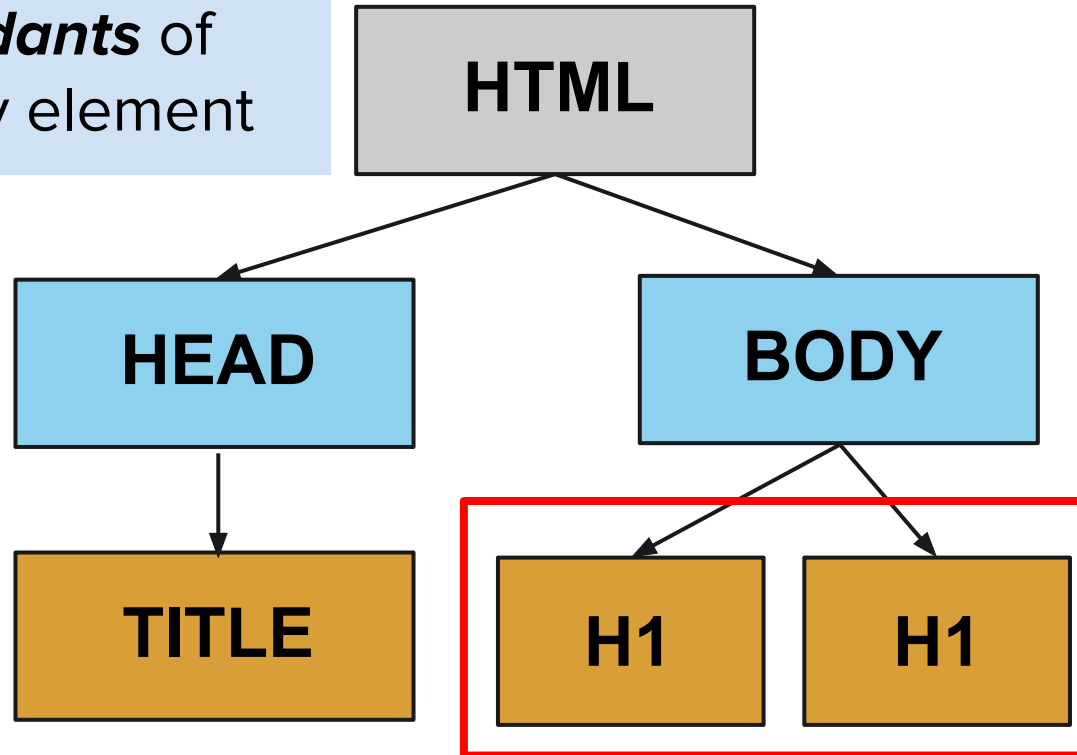
```
<h1></h1>
```

```
<h1></h1>
```

```
</body>
```

```
</html>
```

Descendants of
the body element



Tree Structure

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title></title>
```

```
</head>
```

```
<body>
```

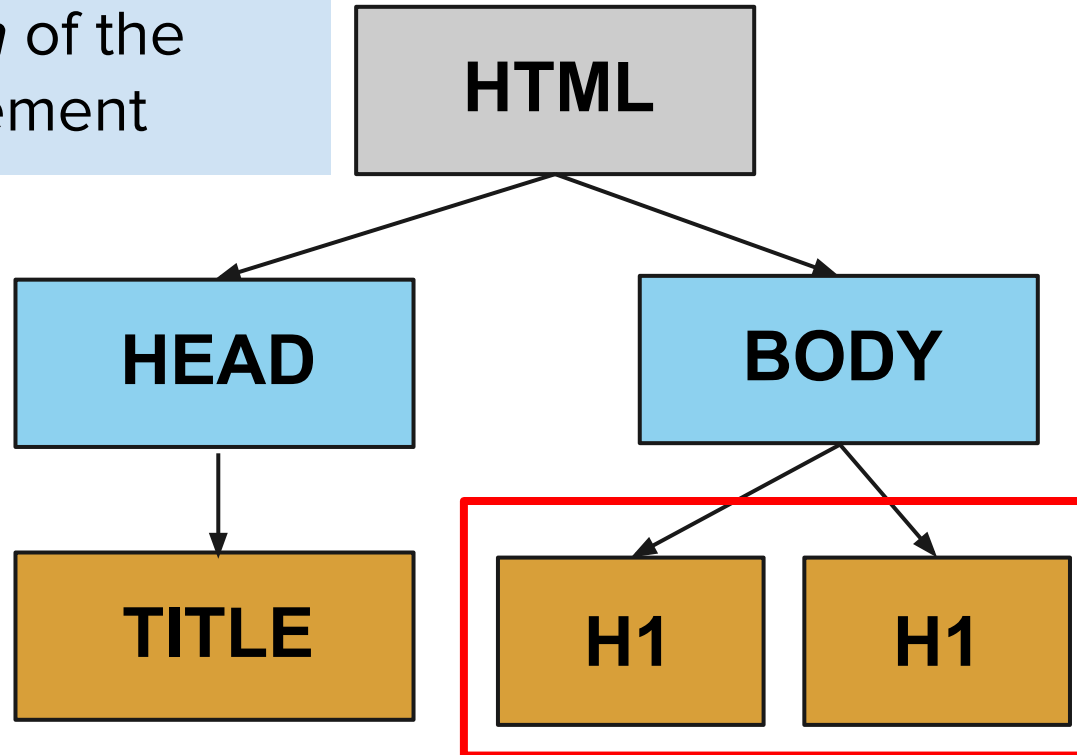
```
<h1></h1>
```

```
<h1></h1>
```

```
</body>
```

```
</html>
```

Children of the
body element



Tree Structure

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title></title>
```

```
</head>
```

```
<body>
```

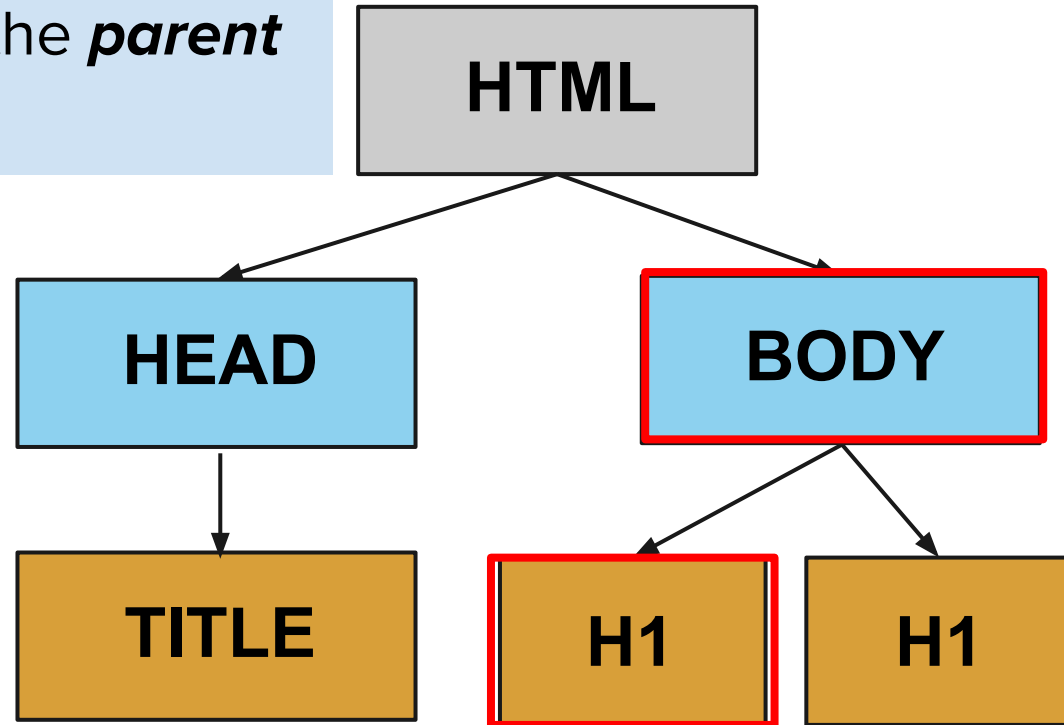
```
<h1></h1>
```

```
<h1></h1>
```

```
</body>
```

```
</html>
```

body is the *parent*
of h1



Tree Structure

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title></title>
```

```
</head>
```

```
<body>
```

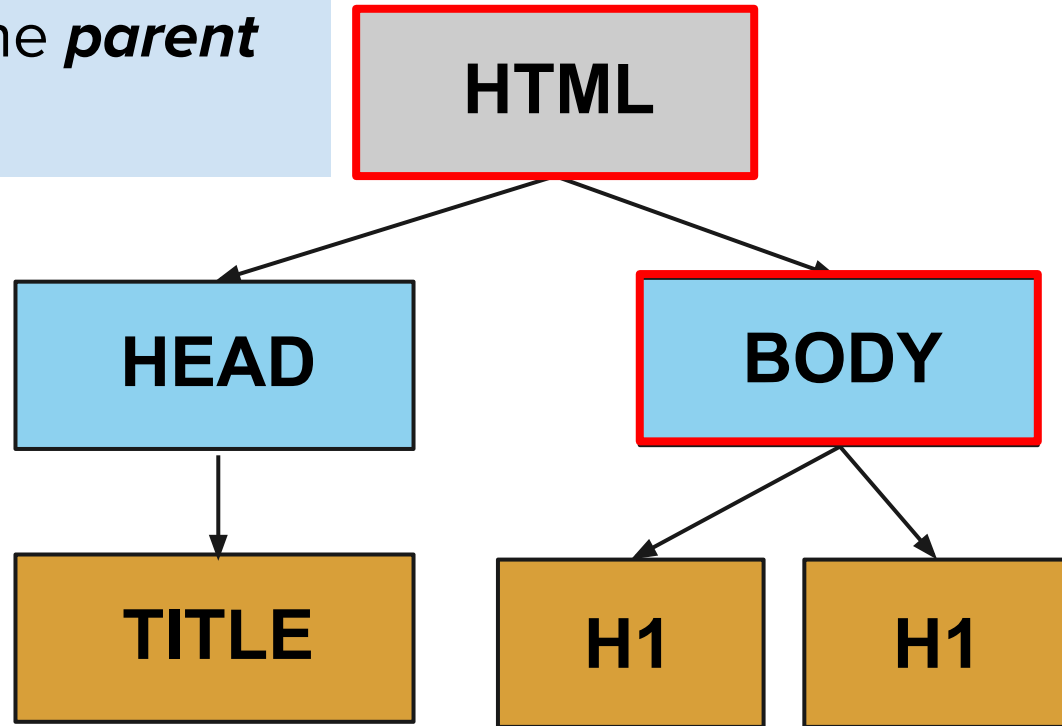
```
<h1></h1>
```

```
<h1></h1>
```

```
</body>
```

```
</html>
```

html is the *parent*
of body



Tree Structure

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title></title>
```

```
</head>
```

```
<body>
```

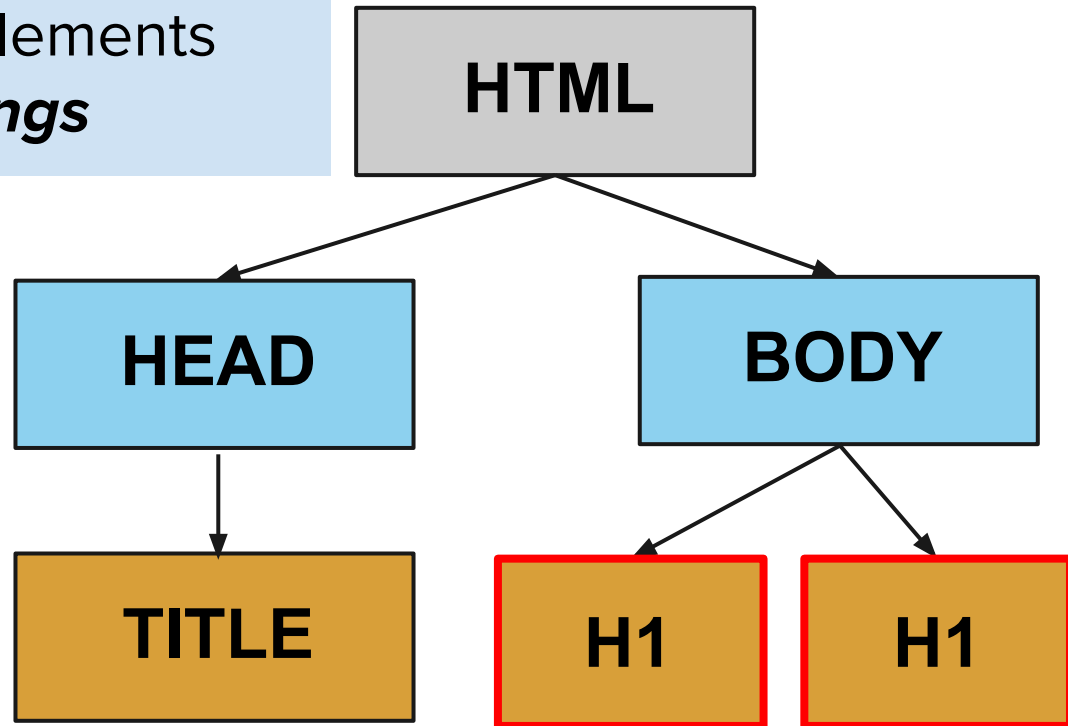
```
<h1></h1>
```

```
<h1></h1>
```

```
</body>
```

```
</html>
```

The h1 elements
are *siblings*



Selecting Descendants

```
p img {  
    width: 50px;  
}
```

Selects all img elements that are descendants of (inside of) p tags

Selecting Descendants

```

```

```
<h1>Welcome</h1>
```

```
<p>
```

Here is an image of a
cheetah:

```

```

```
</p>
```

```
<p>
```

Here is an image of a zebra:

```

```

```
</p>
```

```
p img {  
    width: 50px;  
}
```

The rule does NOT
apply to this img
element

Selecting Descendants

```

```

```
<h1>Welcome</h1>
```

```
<p>
```

Here is an image of a
cheetah:

```

```

```
</p>
```

```
<p>
```

Here is an image of a zebra:

```

```

```
<p>
```

```
p img {  
    width: 50px;  
}
```

The rule DOES apply
to these img elements

Selecting Descendents

```
p a {  
    ...  
}
```

Selects all a tags that are *inside of* p tags

Selecting Descendents

```
.footer a {  
    ...  
}
```

Selects all a tags that are *inside of* elements with the class footer

Selecting Descendents

```
div .footer {  
    ...  
}
```

Selects all elements with the class footer that are *inside of* divs

Selecting Children

```
div > a {  
    ...  
}
```

Selects all a tags that are *immediate children* of div tags

Selecting Children

```
<h1>Welcome</h1>
<a href="about.html">About</a>
<div class="content">
  Sign up <a href="signup.html">here</a>
  Logout <a href="logout.html">here</a>
<p>
  <a href="thanks.html">Thanks!</a>
</p>
</div>
```

```
div > a {
    font-size: 18px;
}
```

The rule DOES apply
to these a elements

Selecting Children

```
<h1>Welcome</h1>
<a href="about.html">About</a>
<div class="content">
  Sign up <a href="signup.html">here</a>
  Logout <a href="logout.html">here</a>
  <p>
    <a href="thanks.html">Thanks!</a>
  </p>
</div>
```

```
div > a {
    font-size: 18px;
}
```

The rule does NOT
apply to these a
elements

Selecting Children

```
div.footer > h6 {  
    ...  
}
```

Selects all h6 tags that are *immediate children* of div tags with class footer

Selecting Children

```
#menu-bar > li{  
    ...  
}
```

Selects all li tags that are *immediate children* of the element with id menu-bar

Selecting the Next Sibling

```
h1 + h2 {  
    ...  
}
```

Selects all h2 tags that immediately follow h1 tags

Selecting the Next Sibling

```
<h1>Large Title</h1>
```

```
<h2>Subtitle</h2>
```

```
<p>Welcome to my page</p>
```

```
<h2>Next Section</h2>
```

```
h1 + h2 {  
    font-weight: bold;  
}
```

The rule DOES apply
to this h2 element

Selecting the Next Sibling

```
<h1>Large Title</h1>
```

```
<h2>Subtitle</h2>
```

```
<p>Welcome to my page</p>
```

```
<h2>Next Section</h2>
```

```
h1 + h2 {  
    font-weight: bold;  
}
```

The rule does NOT
apply to this h2
element

Selecting the Next Sibling

```
p + p {  
    ...  
}
```

Selects all p tags that immediately follow other p tags

Selecting the Next Sibling

```
.header + h1 {  
    ...  
}
```

Selects all h1 tags that immediately follow elements with the class header

Let's look at some examples
