jQuery

Adding jQuery to Your Web Pages

- Download the jQuery library from jQuery.com
- Include jQuery from a CDN, like Google

1. Download the jQuery library from jQuery.com

- There are two versions of jQuery available for downloading:
- 1. Production version this is for your live website because it has been minified and compressed
- 2. Development version this is for testing and development (uncompressed and readable code)
- Both versions can be downloaded from <u>iQuery.com</u>.
- <head><script src="jquery-3.5.1.min.js"></script></head>

2. jQuery CDN

- If you don't want to download and host jQuery yourself, you can include it from a CDN (Content Delivery Network).
- Google is an example of someone who host jQuery:

```
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/
jquery.min.js"></script>
</head>
```

jQuery Syntax

• The jQuery syntax is tailor-made for **selecting** HTML elements and performing some **action** on the element(s).

Basic syntax is: \$(selector).action()

- 1. A \$ sign to define/access jQuery
- 2. A (selector) to "query (or find)" HTML elements
- 3. A jQuery action() to be performed on the element(s)

Examples:

1.\$(this).hide() - hides the current element.

2.\$("p").hide() - hides all elements.

3.\$(".test").hide() - hides all elements with class="test".

4.\$("#test").hide() - hides the element with id="test".

jQuery Philosophy

Write Less, Do More



Let's do some magic

Our Mission

"Hide all <div>s"

Let's do some

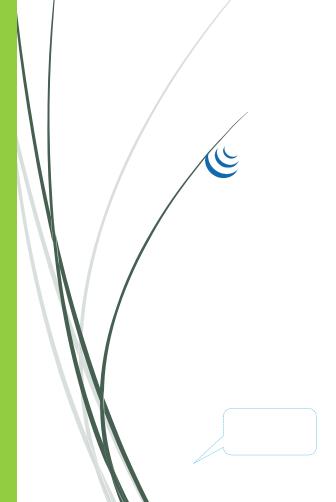
magic

Our Mission

"Hide all <div>s"

```
$("div").hide();
```







Don't worry, It's free



So, What's that \$?

It just a function Name



HjQW

How does jQuery work?



The jQuery Object



div

div

div

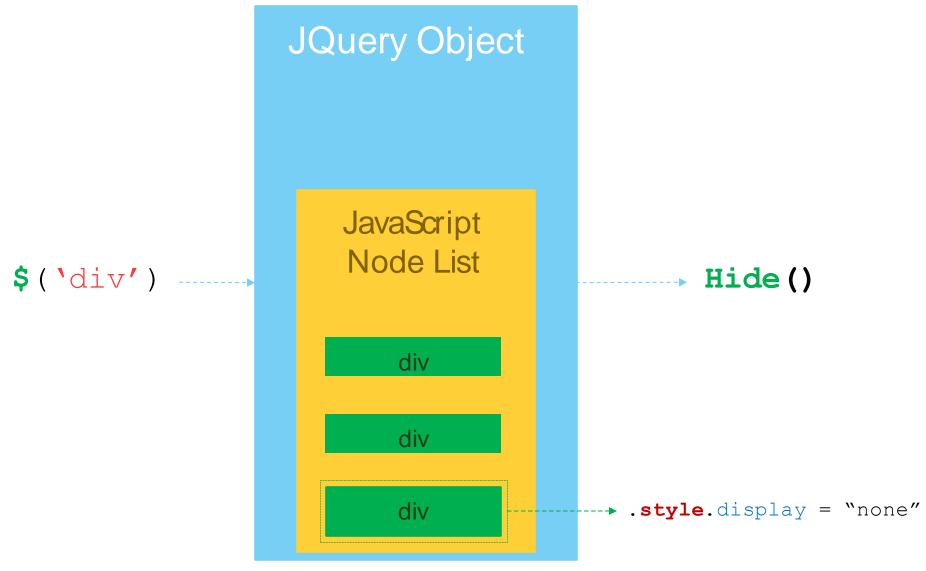
The jQuery Object



JavaScript Node List div div div

→ .style.display = "none"

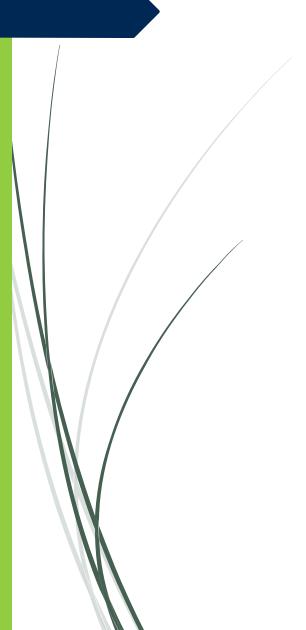
The jQuery Object







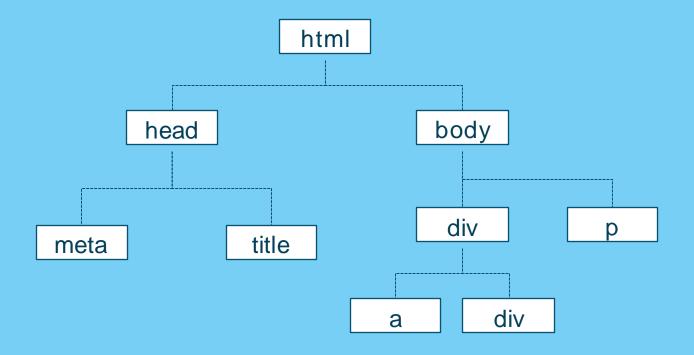
jQuery Rules



- 1 Find DOM Elements
- 2 Do Something

```
$("div").hide();
```

Do you remember DOM Tree?



Let's see how jQuery controls it

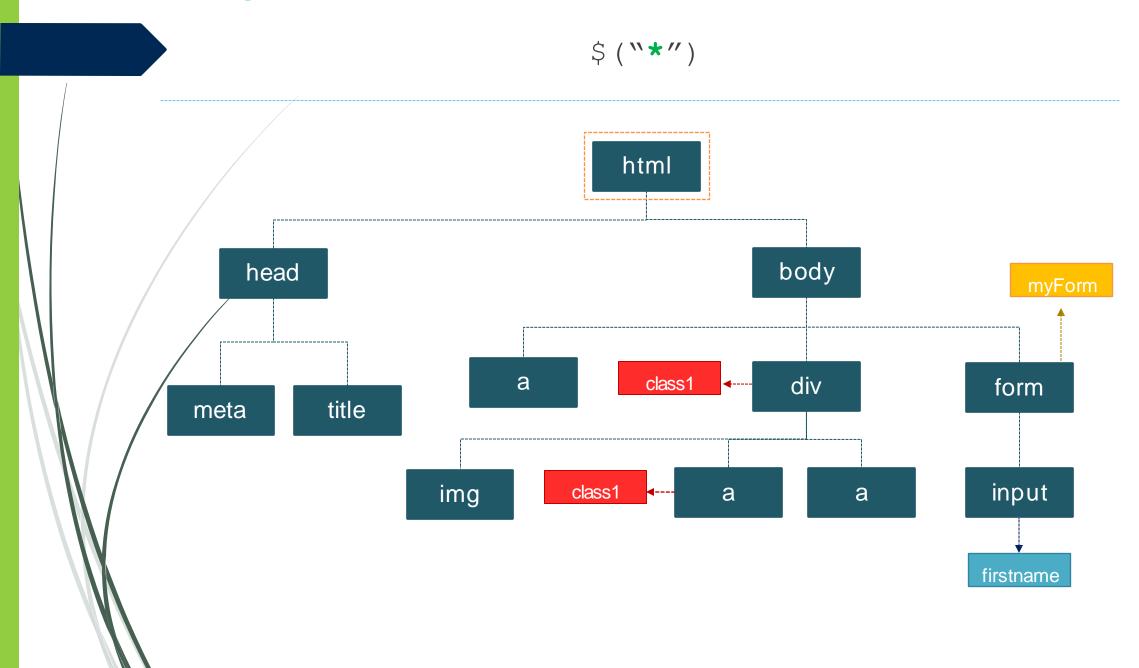


Find

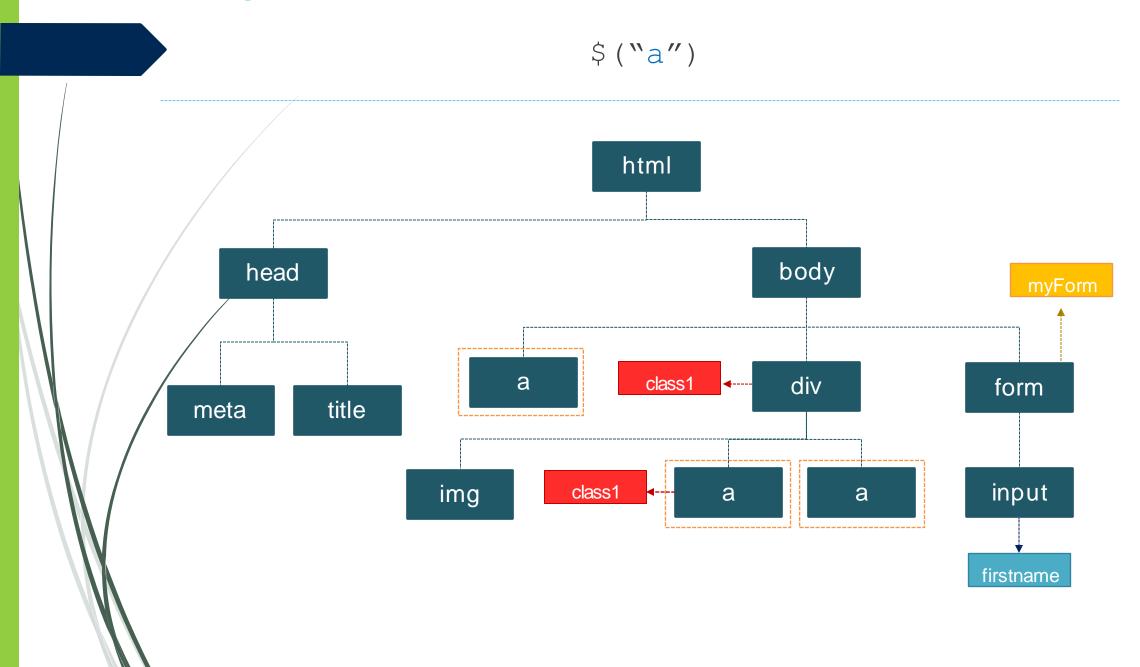
I will find you, easily



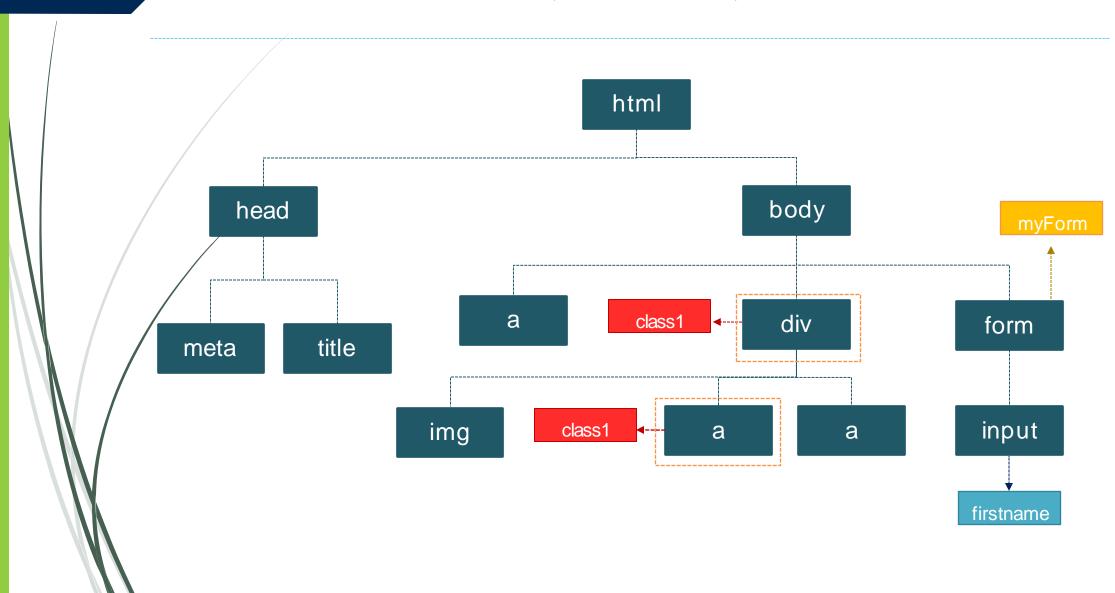
Using CSS Selectors



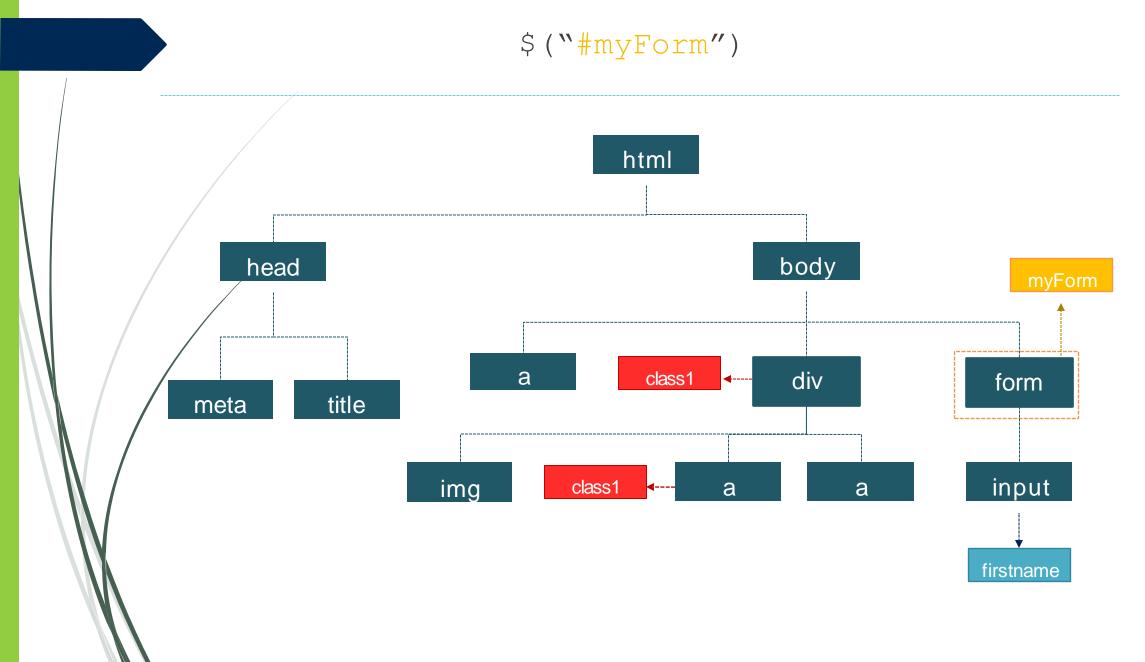
Using CSS Selectors



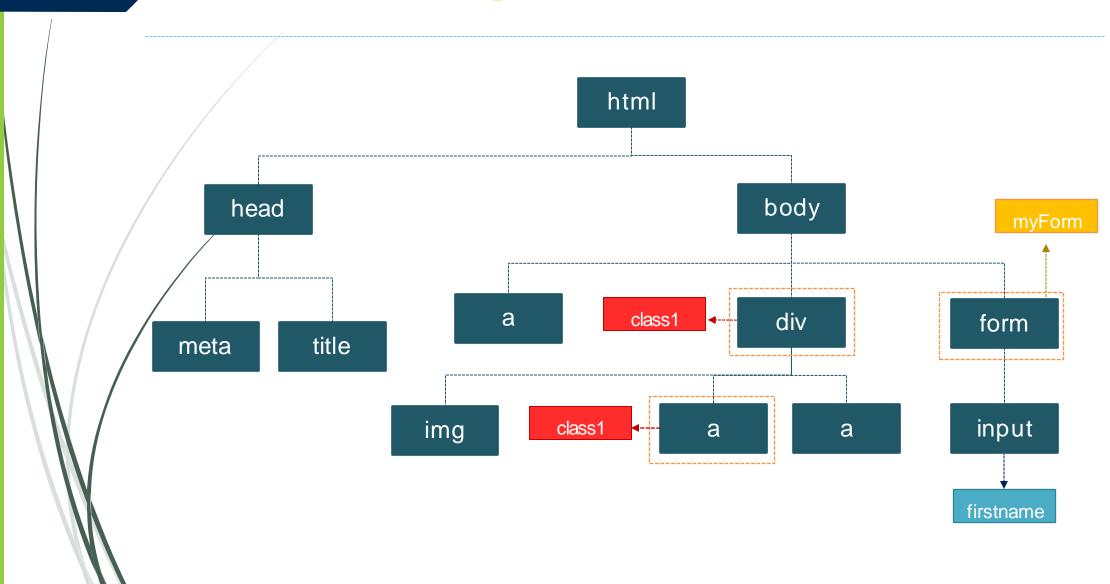
\$(".class1")



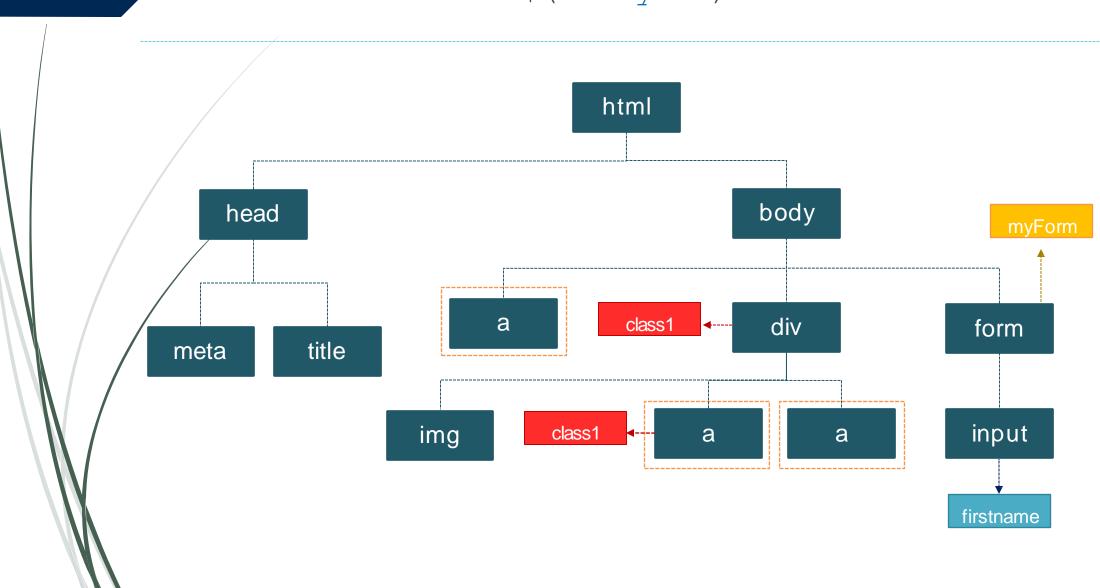
Using CSS Selectors



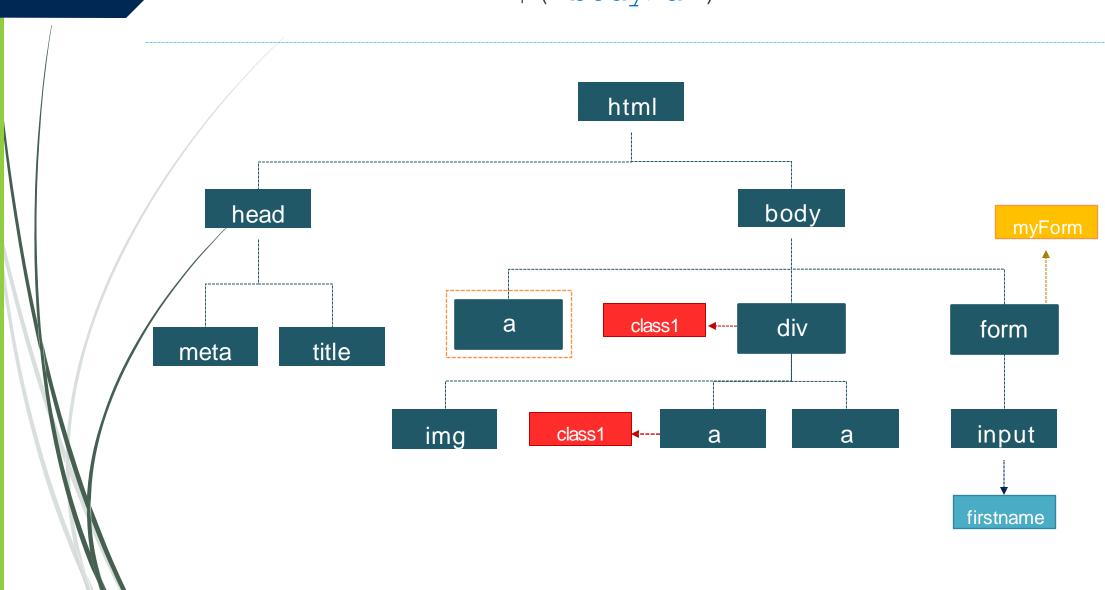
\$("#myForm, .class1, div")



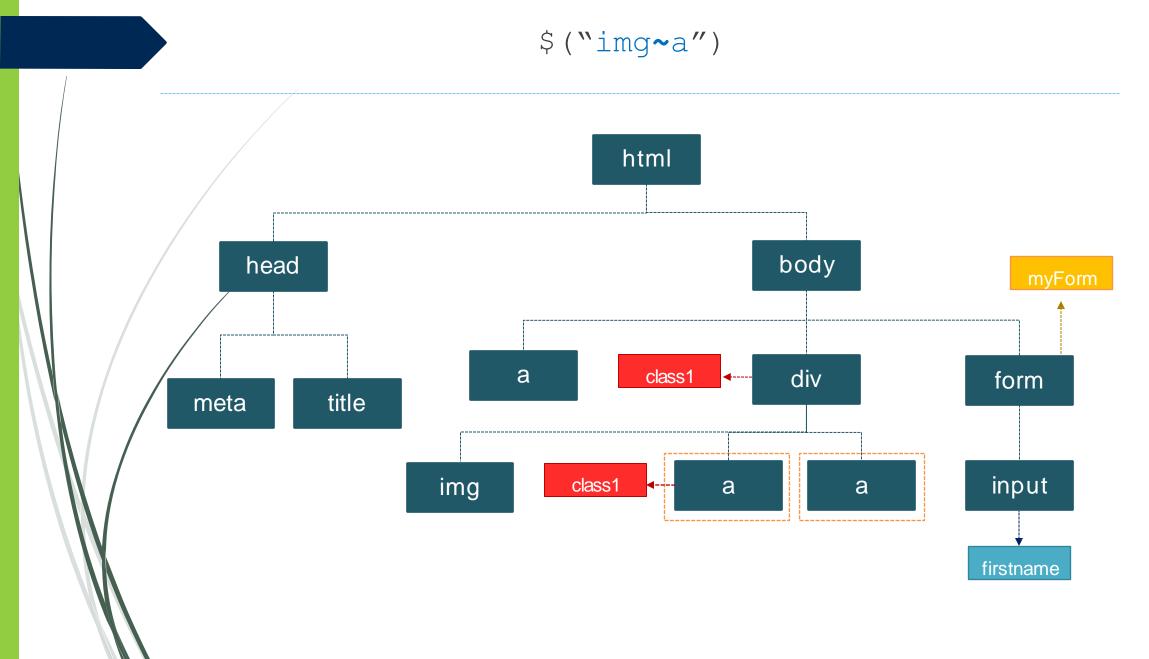






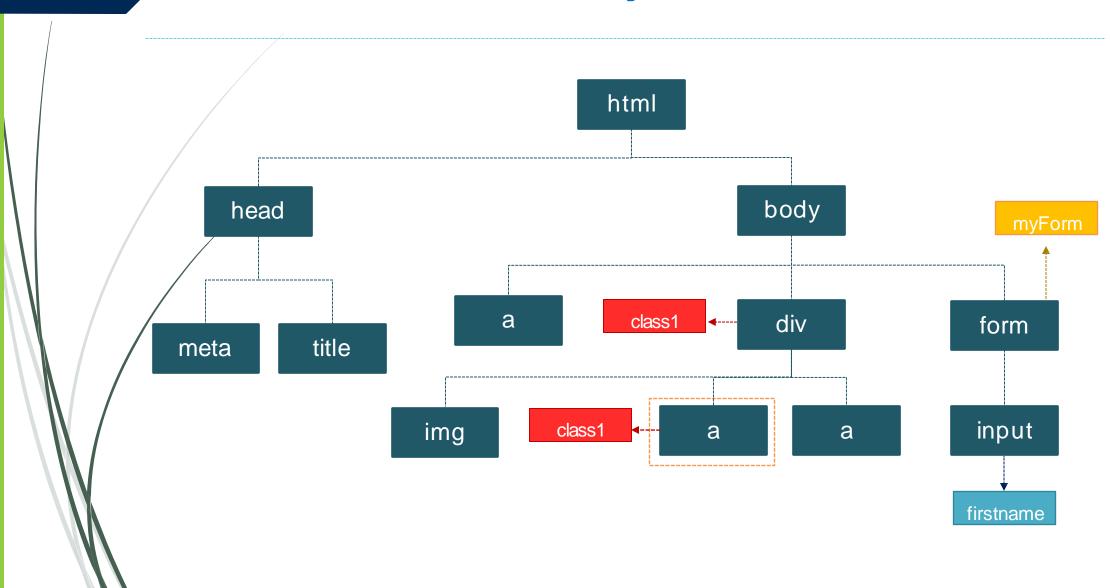


Using CSS Selectors

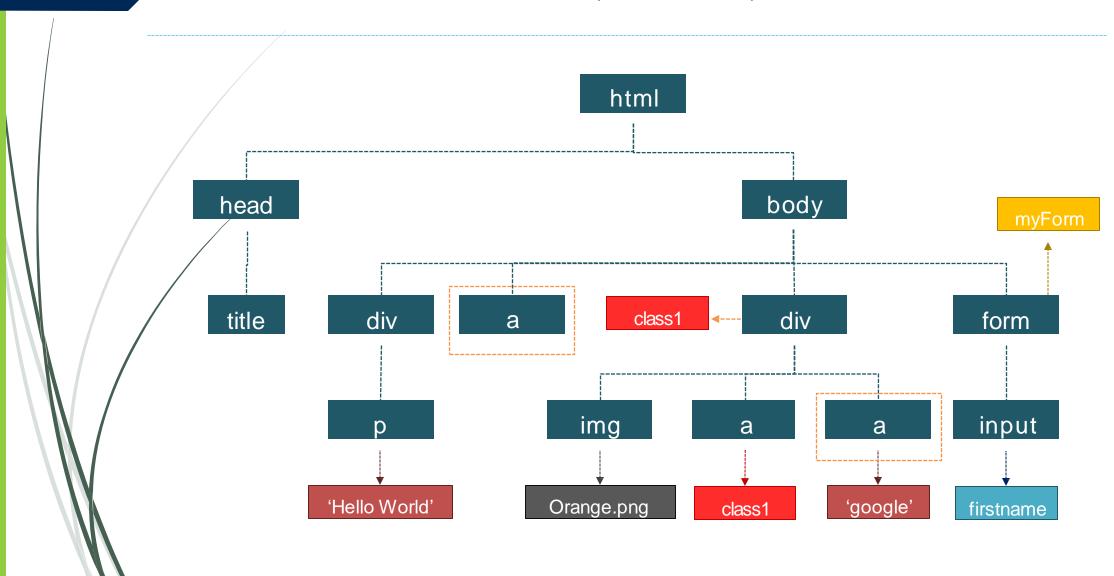


Using CSS Selectors

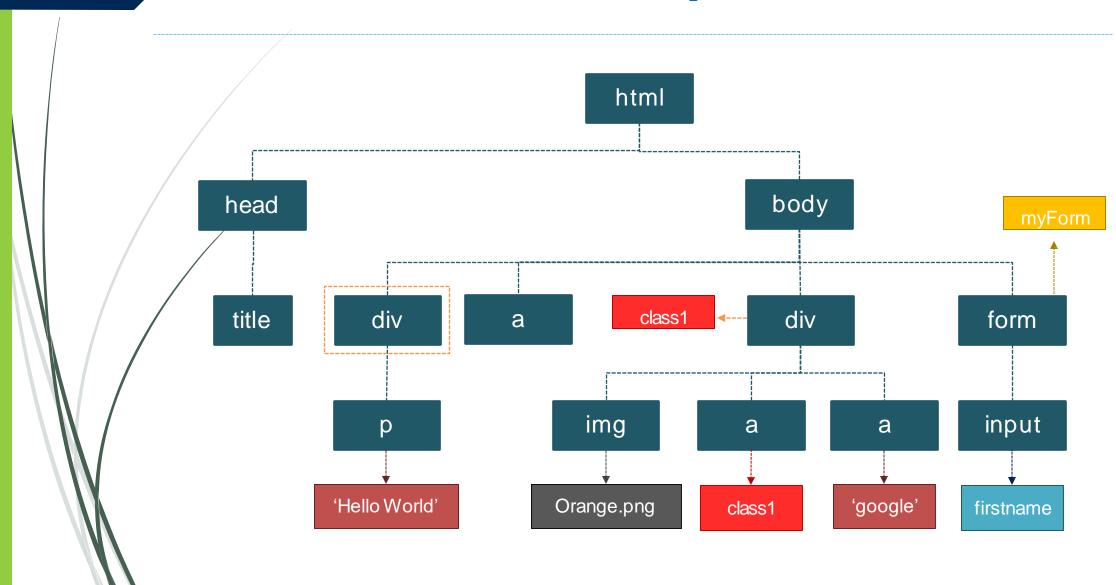




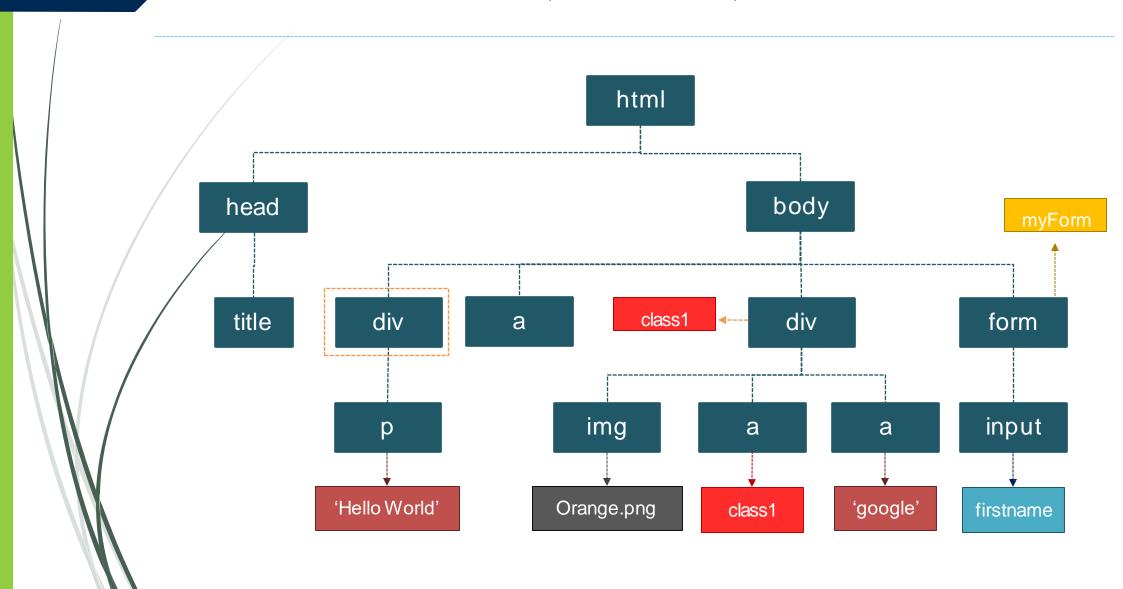
\$ ("a:not('.class1')")



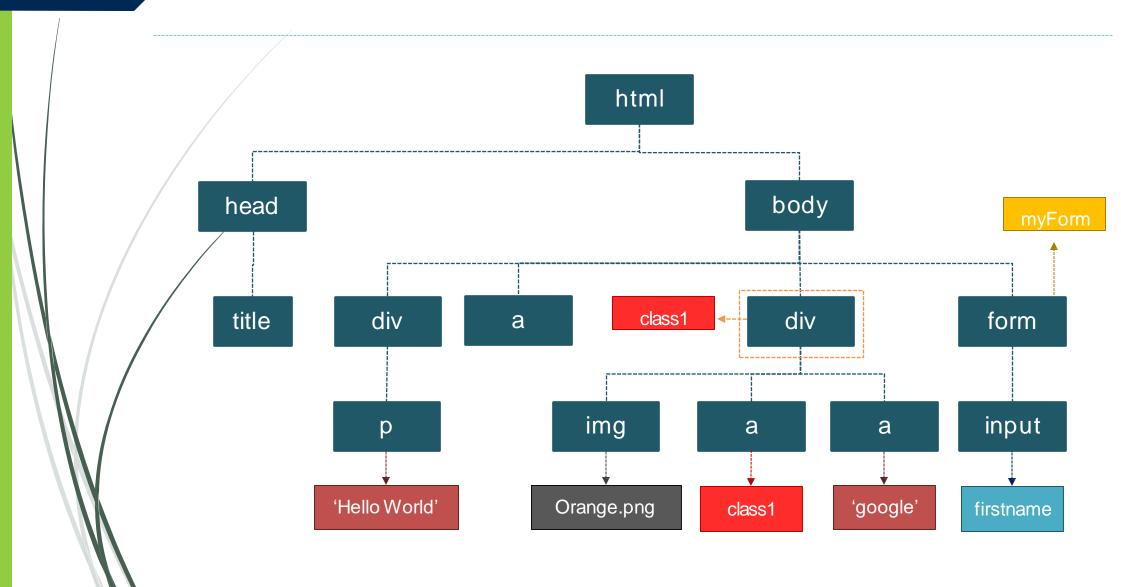
\$("div:has('p')")



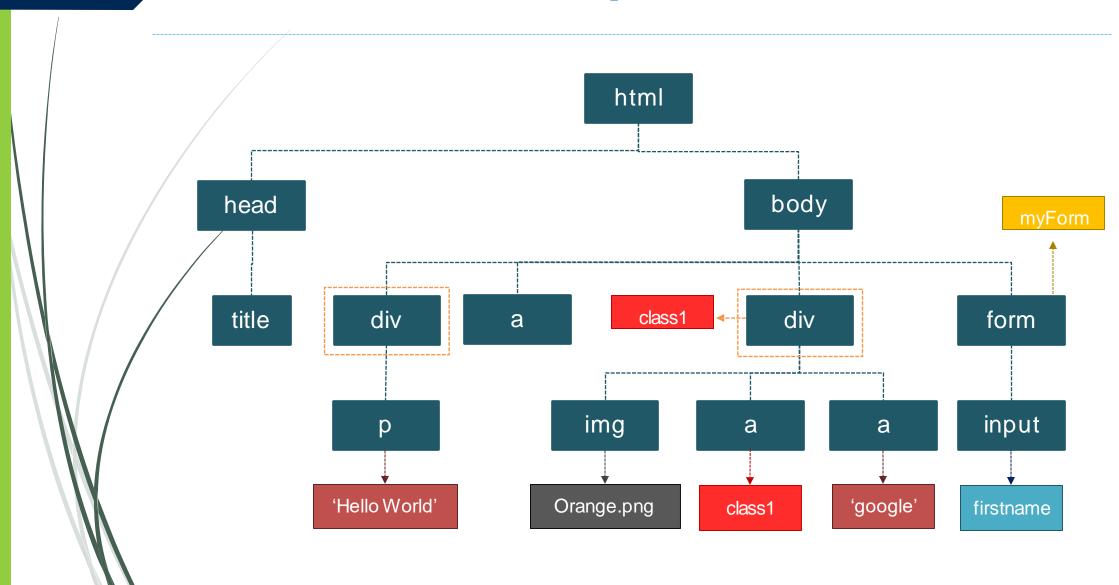
\$("div:first")



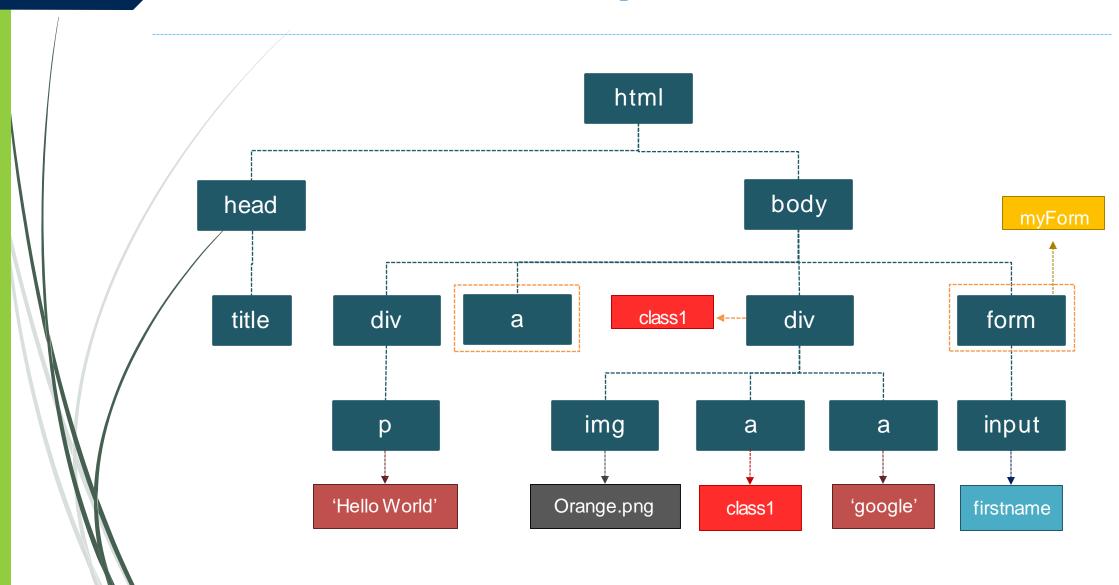
\$ ("div:last")



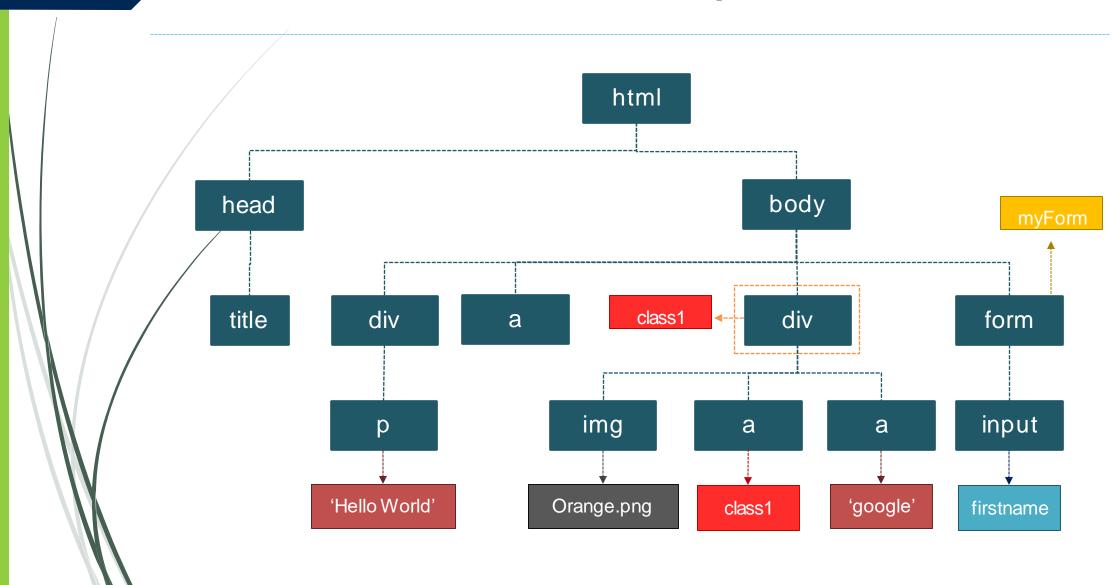
\$ ("body>:even")



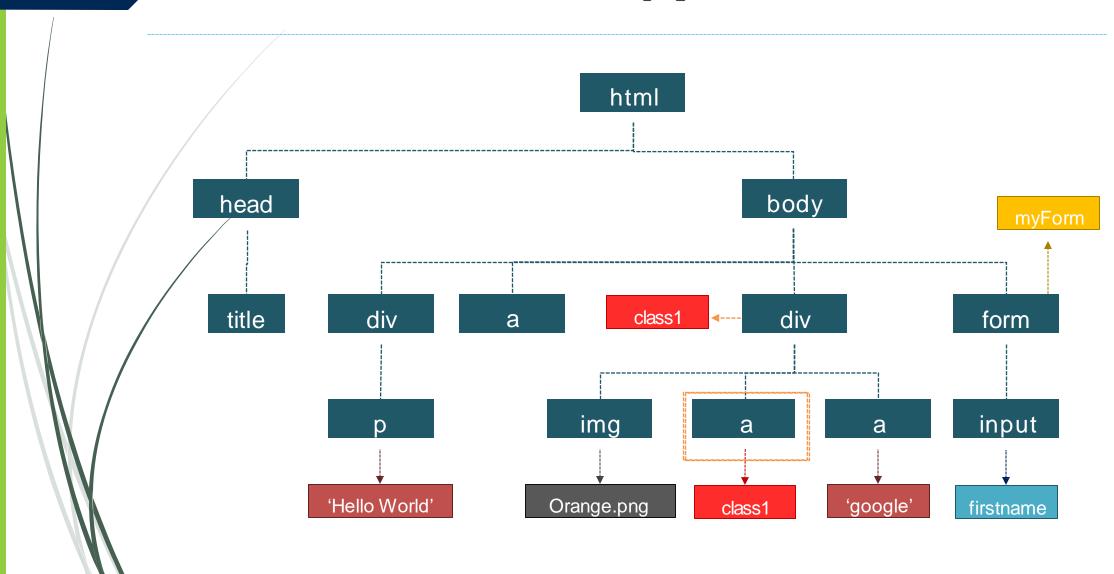
\$ ("body>:odd")



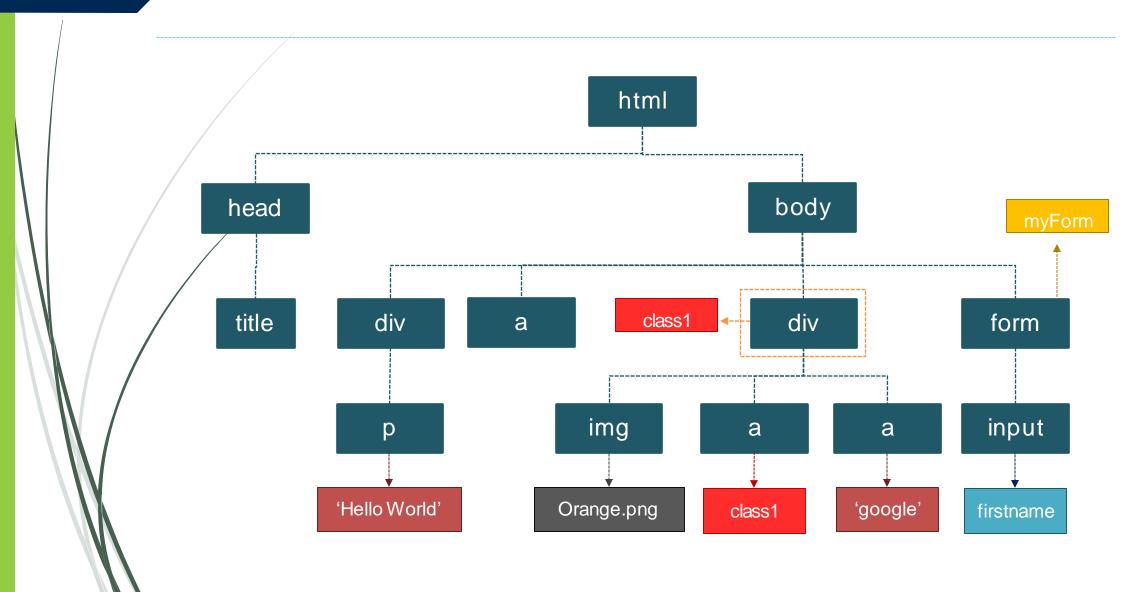
\$ ("div:contains('goo')")

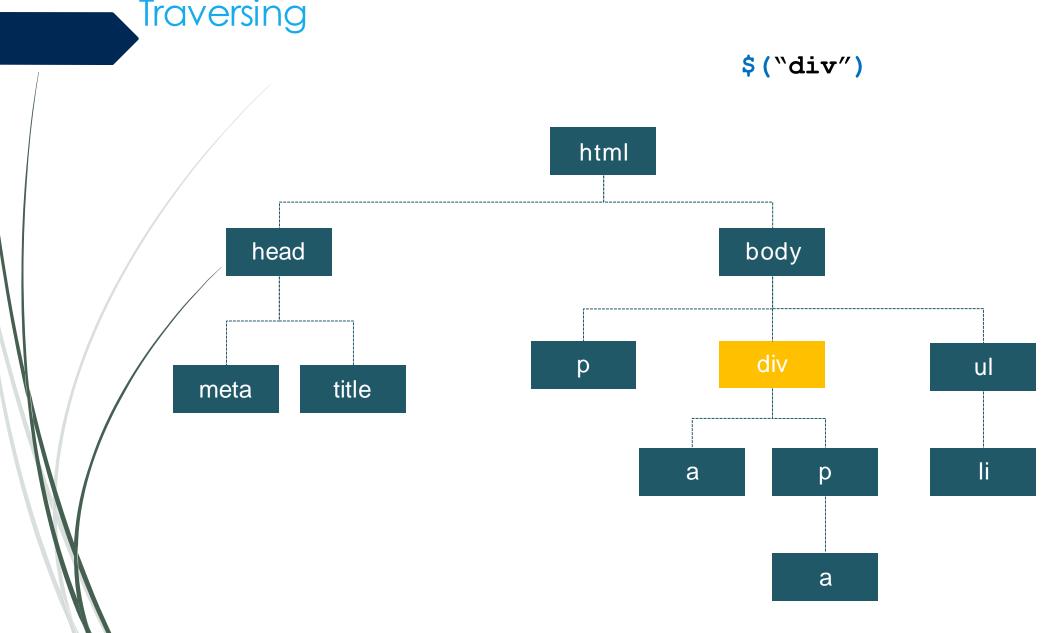


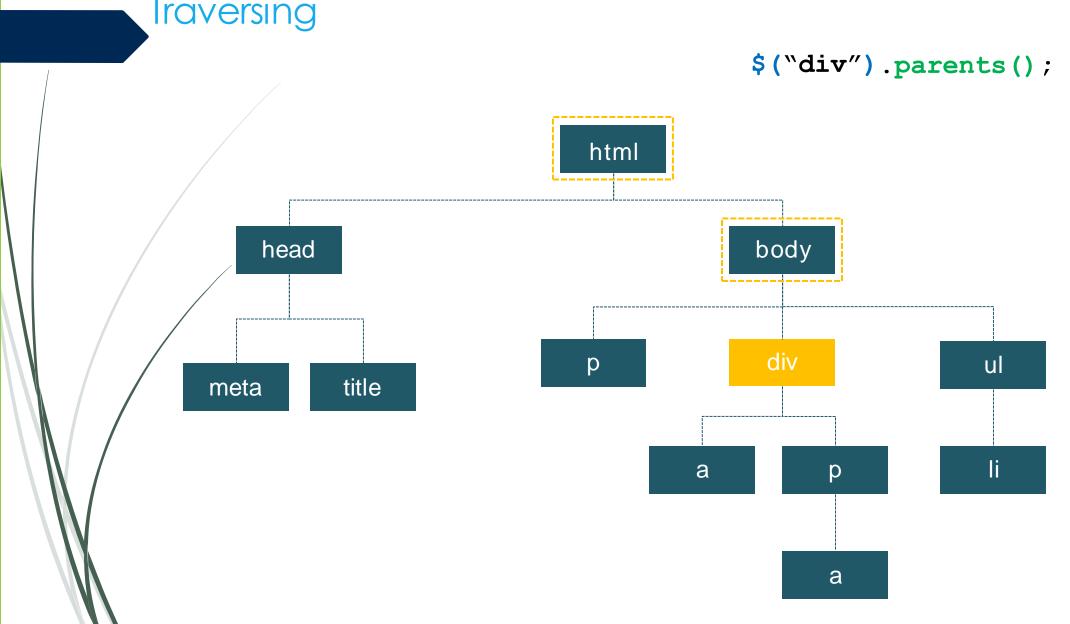
\$ ("a:empty")

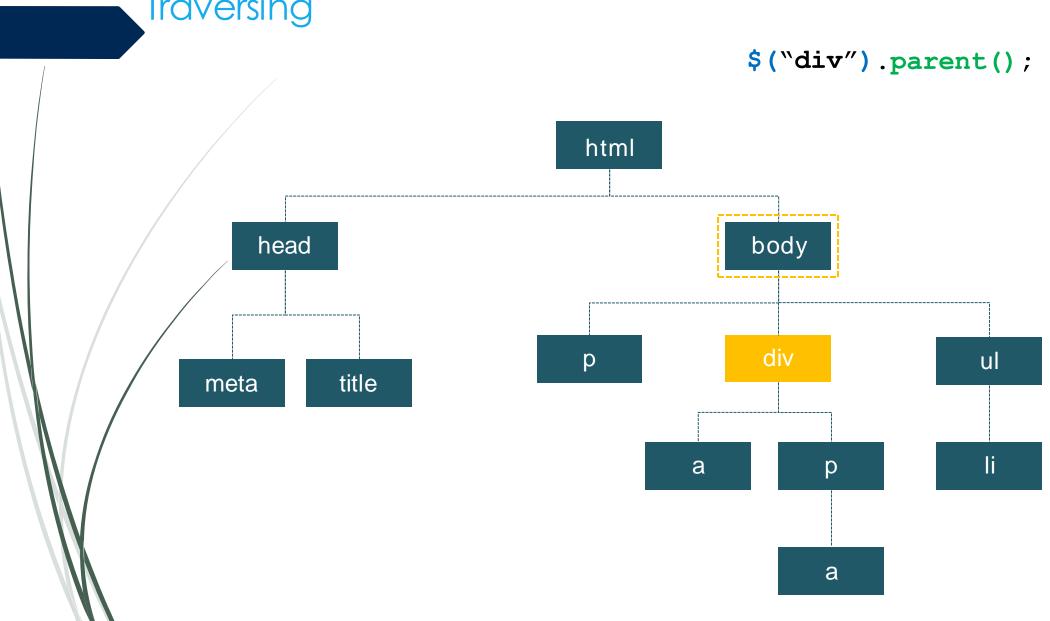


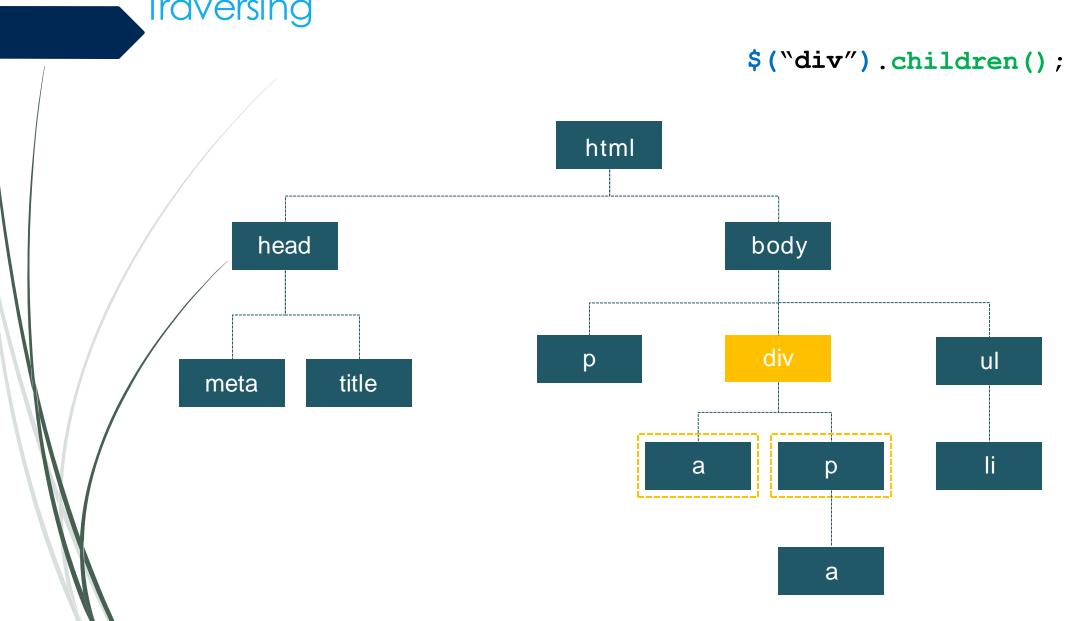
\$ ("div.class1:nth-child(3)")

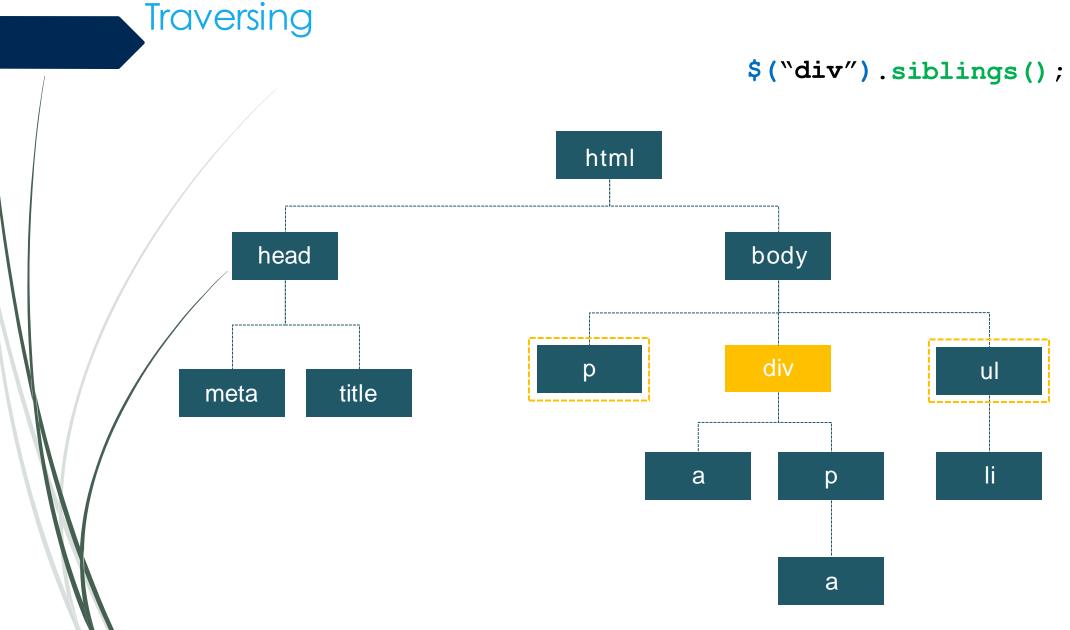


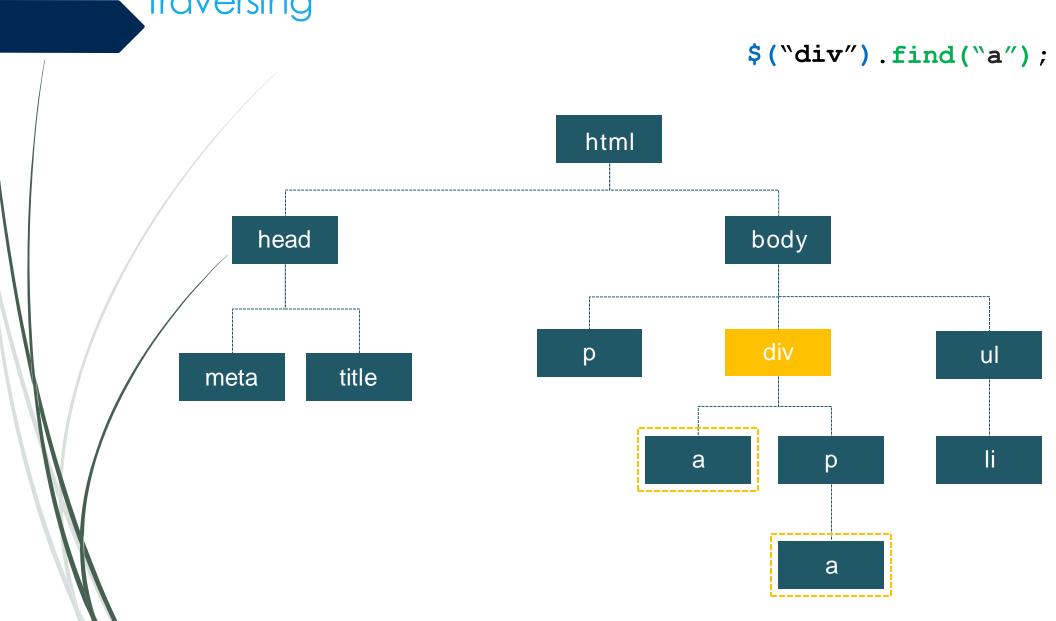


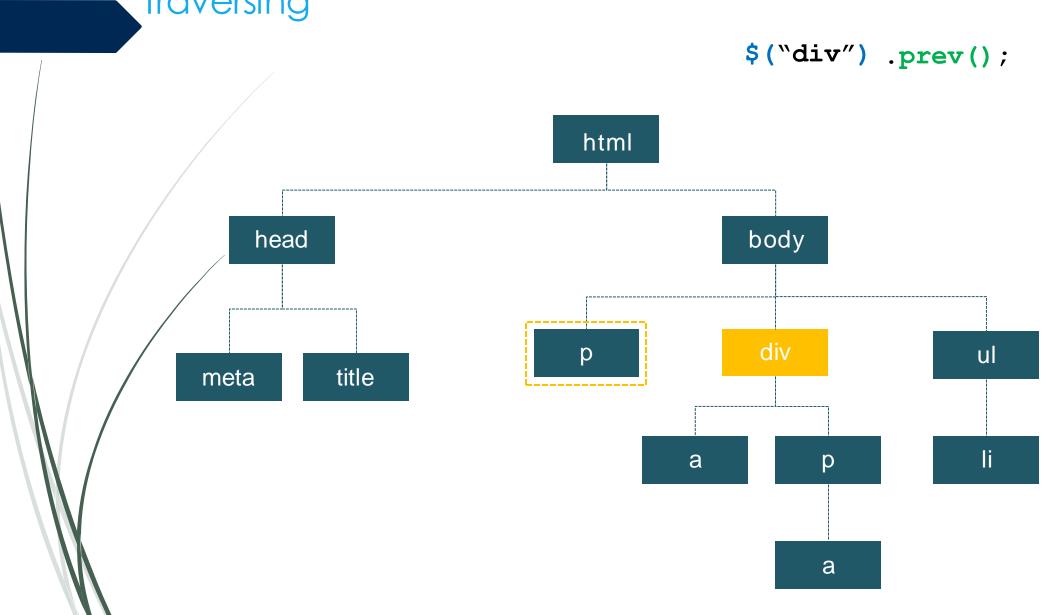


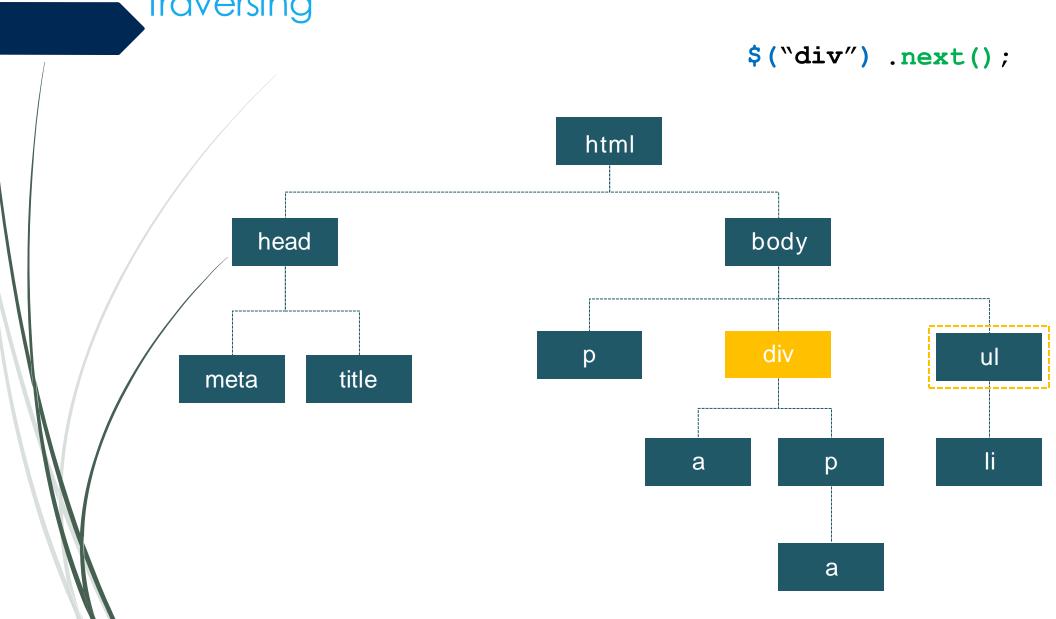












Do

Let's do some actions



Appending Elements

```
$(".inner").append("append text")
```

Appending Elements

```
$(".inner").append("append text")
```

Inserting Elements

```
$(".inner").before("before inner")
```

Inserting Elements

```
$(".inner").before("before inner")
```

Replacing Elements

```
$("#np").replaceWith("I'm the new one")
```

<div class="container">

I warn you, Don't Replace Me

</div>

Replacing Elements

```
$("#np").replaceWith("I'm the new one")
```

<div class="container">

I'm the new one

</div>

Wrapping Elements

```
$("#par").wrap("<div class='umbrella'></div>")
```

It's so sunny today

Wrapping Elements

```
$("#par").wrap("<div class='umbrella'></div>")
```

<div class="umbrella">

It's so sunny today

</div>

Wrapping Contents

```
$(".blanket").wrapInner("")
```

<div class="blanket">

I feel cold

</div>

Wrapping Contents

```
$(".blanket").wrapInner("")
```

Changing CSS

1 Modify one CSS property

```
$("div").css( "color", "blue");
```

2 Modify Many CSS Properties

Getting Contents GET HTML Content

```
$("div").html();
2 GET Text Content
    $("p").text();
3 GET Input Value
    $("input").val();
```

Setting Contents Set HTML Content

```
$("div").html("some html");
5 Set Text Content
    $("p").text("some text");
6 Set Input Value
    $("input").val("Hello There!");
```

Treating with Attributes



1 GET Attribute Value of an Element

```
$("img").attr("src");
```

Treating with Attributes



1 GET Attribute Value of an Element

```
$("img").attr("src");
```

2 Set Attribute value

```
$("img").attr("src", "orange.png");
```

addClass("my-cls")

\$("div") .

<div class="my-cls">

</div>

```
Classes
                addClass("my-cls")
                                         <div >
               removeClass("my-cls")
                                         </div>
```

```
addClass("my-cls")
                          <div class="my-cls">
removeClass("my-cls")
toggleClass("my-cls")
                          </div>
```

```
addClass("my-cls")
                          <div >
removeClass("my-cls")
toggleClass("my-cls")
                          </div>
toggleClass("my-cls")
```

Helper Methods

jQuery has many of them, let's explore some



```
$("p").filter('.class1');
                               html
                                            body
    head
                                             div
                                                               ul
          title
meta
                    class1
                                       a
                                                 class1
```

filter

```
$("p").filter($('div p.class1'));
                              html
    head
                                          body
                                           div
          title
meta
                    class1
                                      a
                                               class1
```

each

```
var colorArr = ['orange', 'red', 'blue', 'green'];
   $('p').each(function(index){
           $(this).css('background', colorArr[index]);
   } );
                        Hello, I'm paragraph
                        Hello, I'm paragraph
                        Hello, I'm paragraph
                        Hello, I'm paragraph
```

```
var colorArr = ['orange', 'red', 'blue', 'green'];
   $('p').each(function(index){
           $(this).css('background', colorArr[index]);
   } );
                        Hello, I'm paragraph
                        Hello, I'm paragraph
                        Hello, I'm paragraph
                        Hello, I'm paragraph
```

```
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   $('p').each(function(index){
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   } );
                        Hello, I'm paragraph
                        Hello, I'm paragraph
                        Hello, I'm paragraph
                        Hello, I'm paragraph
```

each

```
var colorArr = ['orange', 'red', 'blue', 'green'];
   $('p').each(function(index){
           $(this).css('background', colorArr[index]);
   });
                        Hello, I'm paragraph
                        Hello, I'm paragraph
                        Hello, I'm paragraph
                        Hello, I'm paragraph
```