

EXAMPLE 1

HelloWorld.html

HelloWorld.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Hello JQuery World</title>
    <script src=".../lib/jquery.js"></script>
    <script>
        $(document).ready(function () {
            console.log("Document loaded");
        });
        window.onload = function() {
            console.log("Window loaded");
        }
    </script>
</head>
<body>
    <h4>
        There is a bright new JQuery world out there
    </h4>
    <p>
        Getting started with jQuery can be easy or challenging, depending on your experience
        with JavaScript, HTML, CSS, and programming concepts in general.
    </p>
    <p>
        One important thing to know is that jQuery is just a JavaScript library. All the power of jQuery
        is accessed via JavaScript, so having a strong grasp of JavaScript is essential for understanding,
        structuring, and debugging your code. While working with jQuery regularly can, over time, improve your
        proficiency with JavaScript, it can be hard to get started writing jQuery without a working knowledge
        of JavaScript's built-in constructs and syntax.
    </p>
    
    
</body>
</html>
```

HelloWorld.html

```
<head>
  <title>Hello JQuery World</title>
  <script src="../../lib/jquery.js"></script>
  <script>
    $(document).ready(function () {
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    }
  </script>
</head>
```

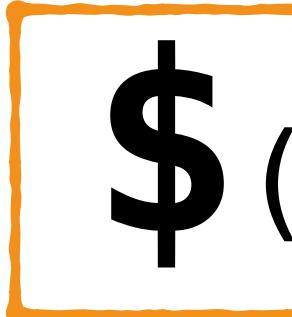
All code in jQuery has to be wrapped
within a `$(document).ready(function(){})`

HelloWorld.html

```
<head>
  <title>Hello JQuery World</title>
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  <script>
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    });
    window.onload = function() {
      console.log("Window loaded");
    }
  </script>
</head>
```

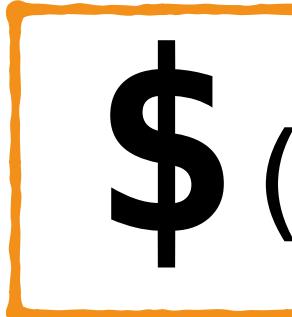
There is actually a whole bunch of stuff
going on in that single line of code

HelloWorld.html

```
 $(document).ready(function () {  
    console.log("Document loaded");  
});
```

jQuery all its functions via 2 properties on the global window object

HelloWorld.html

```
 $(document).ready(function () {  
    console.log("Document loaded");  
});
```

window.jquery and
window.\$

HelloWorld.html

```
 $(document).ready(function () {  
   console.log("Document loaded");  
});
```

window.jquery and window.\$

\$ is an alias for jquery and is used more often as its simpler and faster to write

HelloWorld.html

```
 $(document).ready(function () {  
    console.log("Document loaded");  
});
```

window.jQuery and window.\$

\$ used standalone references
the property on the global
window object

HelloWorld.html

```
$(document).ready(function () {  
    console.log("Document loaded");  
});
```

`$(document)` returns a
jQuery object which wraps the
browser's document object

we'll talk about jQuery objects in more detail later on

HelloWorld.html

```
$(<document>).ready(function () {  
    console.log("Document loaded");  
});
```

.ready(function() {})
schedules a function which is
fired as soon as the DOM is set up

HelloWorld.html

```
$(<document>).ready(function () {  
    console.log("Document loaded");  
});
```

This is a cross browser solution which
works even after the DOM is set up

HelloWorld.html

```
$(document).ready(function () {  
    console.log("Document loaded");  
});
```

This is a cross browser solution which works even after the DOM is set up

i.e. the function will execute even if the DOM ready event has occurred earlier

HelloWorld.html

```
$(document).ready(function () {  
    console.log("Document loaded");  
});
```

You can make multiple calls to the
\$(document).ready(function() {})
and they will be executed in the
order they are set up

HelloWorld.html

```
$ (document) . ready ( function () {  
    console . log ( " Document loaded " ) ;  
} ) ;
```

The function to be executed

HelloWorld.html

```
<head>
  <title>Hello JQuery World</title>
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  <script>
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      console.log("Document loaded");
    });
    window.onload = function() {
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    }
  </script>
</head>
```

Traditionally we've used the `window.onload` to hook our code in once the page has loaded

HelloWorld.html

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  <script>
    $(document).ready(function () {
      console.log("Document loaded");
    });
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      console.log("Window loaded");
    }
  </script>
</head>
```

How does the jQuery ready() function compare with window.onload?

HelloWorld.html

```
$(document).ready(function () {  
  console.log("Document loaded");  
});
```

Runs the code as soon as the document is ready to be manipulated

```
window.onload = function() {  
  console.log("Window loaded");  
}
```

Document needs to be ready, images all downloaded, including banner ads

HelloWorld.html

```
$(document).ready(function () {  
  console.log("Document loaded");  
});
```

Images may not have loaded so image height, width and other properties may not be available

```
window.onload = function() {  
  console.log("Window loaded");  
}
```

All images have been loaded so all properties can be accessed

HelloWorld.html

```
$(document).ready(function () {  
    console.log("Document loaded");  
});
```

Multiple
functions can
listen to the
ready() event

```
window.onload = function() {  
    console.log("Window loaded");  
}
```

Only one function
at a time can be
assigned to the
unload event

HelloWorld.html

```
$(document).ready(function () {  
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functions can
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}
```

Only one function
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A queue of
functions executed
one after another

A single function

HelloWorld.html

```
$(document).ready(function () {  
  console.log("Document loaded");  
});
```

Multiple
functions can
listen to the
ready() event

```
window.onload = function() {  
  console.log("Window loaded");  
}
```

Only one function
at a time can be
assigned to the
unload event

HelloWorld.html

```
window.onload = function() {  
    console.log("Window Loaded");  
}
```

Document needs to be ready, images
all downloaded, including banner ads

For a fresh load of any page the
ready() functions will execute
BEFORE the window.onload

HelloWorld.html

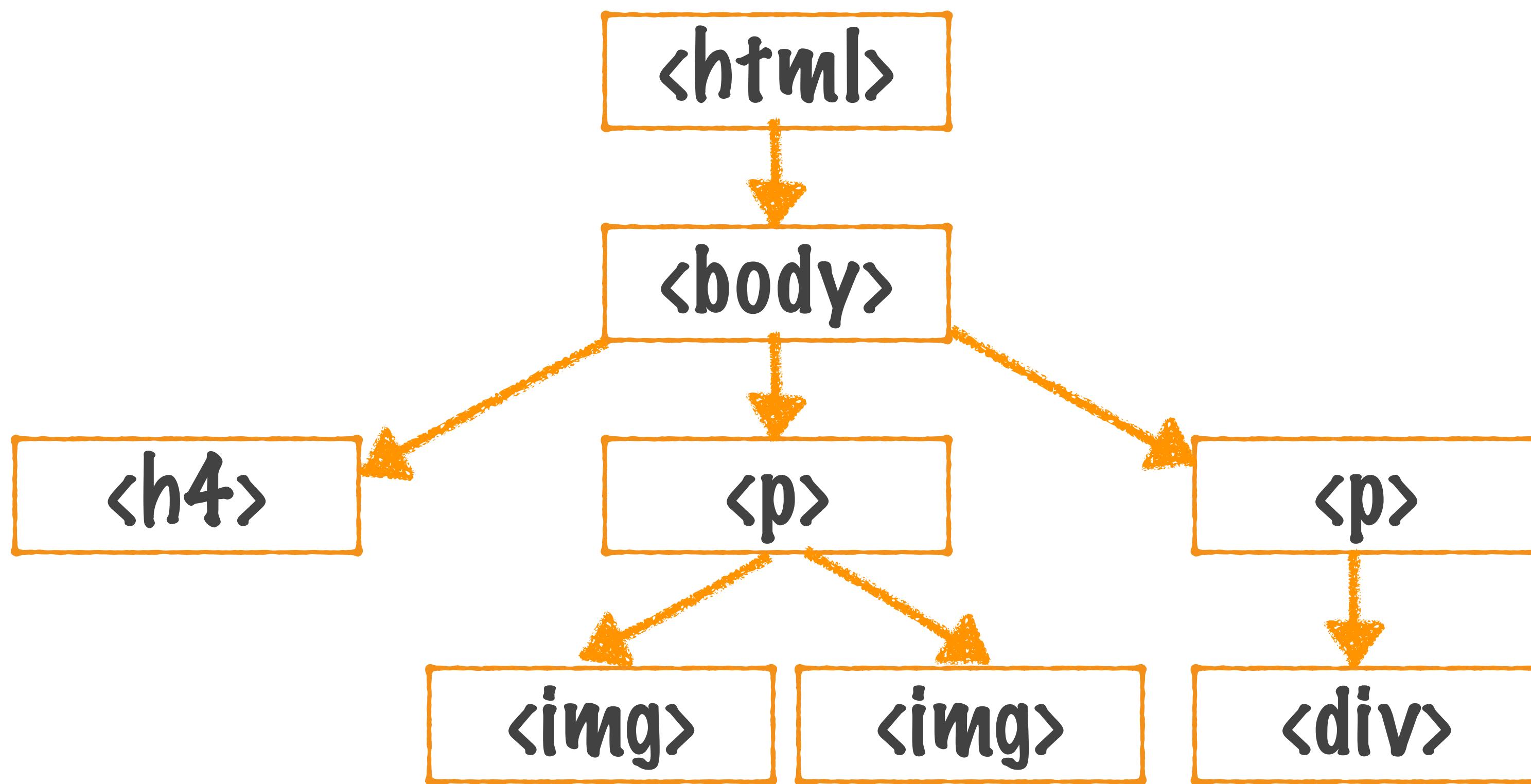
```
<!DOCTYPE html>
<html lang="en">
<head>
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    <script src=".../lib/jquery.js"></script>
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        proficiency with JavaScript, it can be hard to get started writing jQuery without a working knowledge
        of JavaScript's built-in constructs and syntax.
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</body>
</html>
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HelloWorld.html

Example1Demo

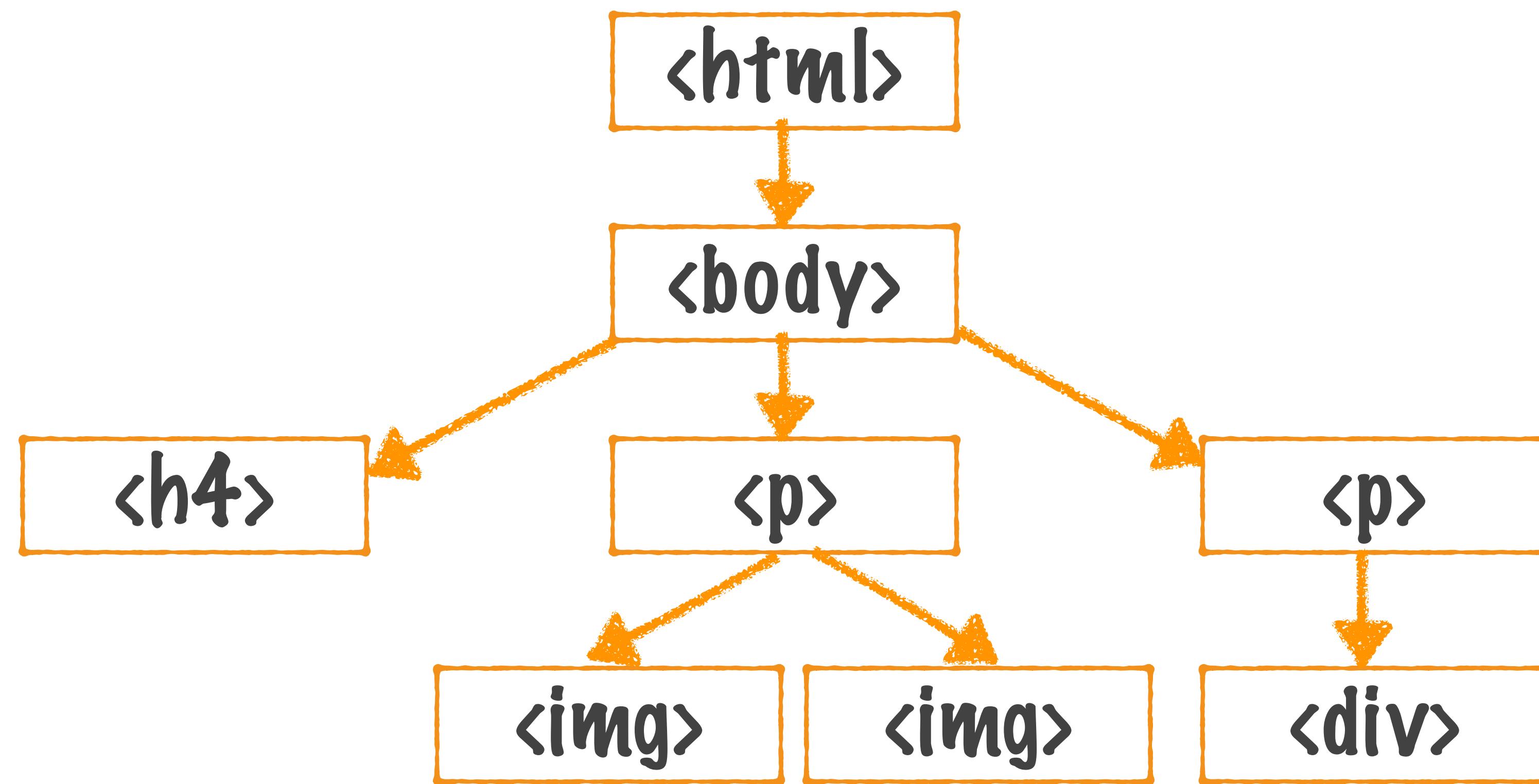
JQUERY Selectors

Selectors



What if you wanted to select some elements from the DOM?

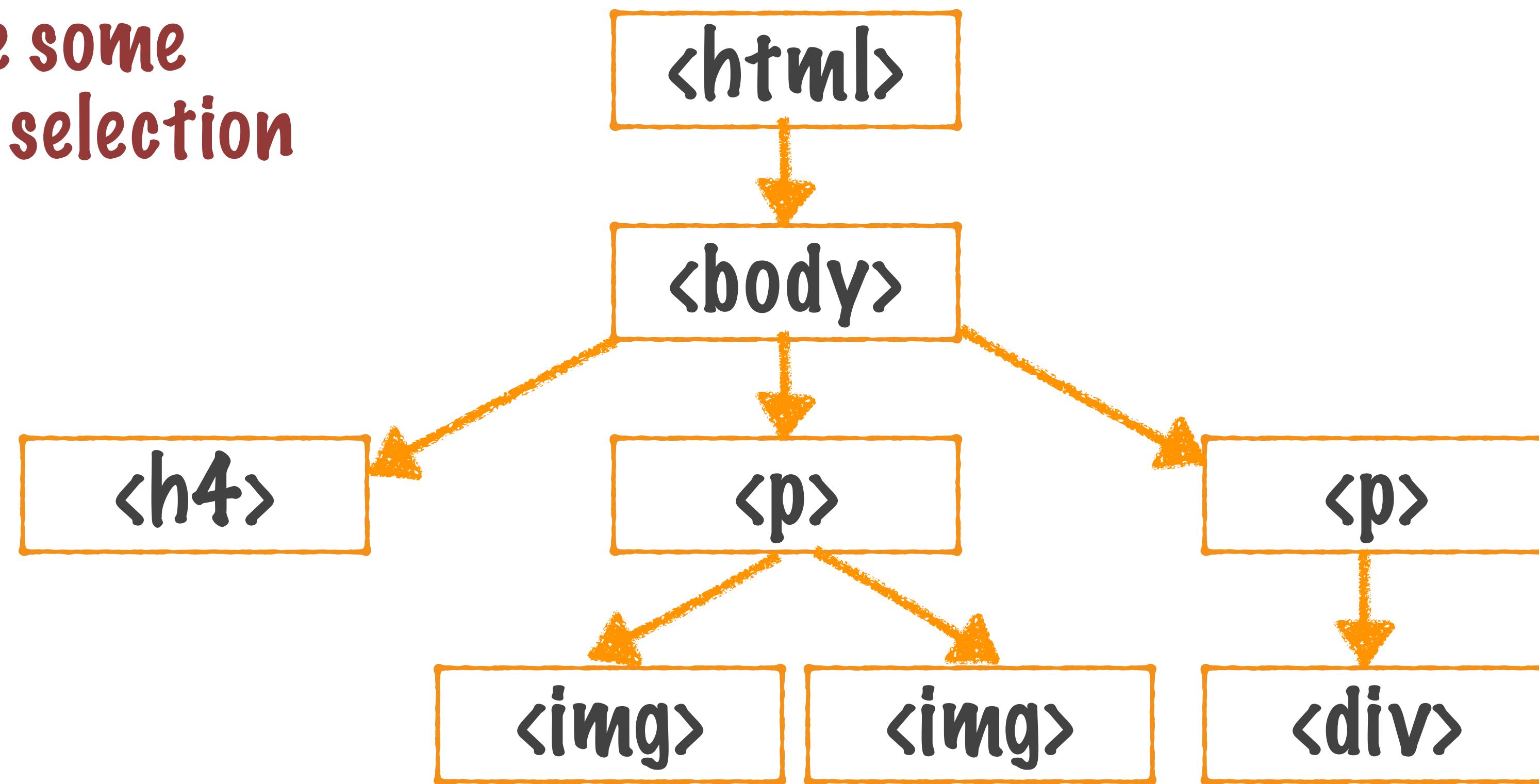
Selectors



You have some criteria for selection

Selectors

You have some criteria for selection

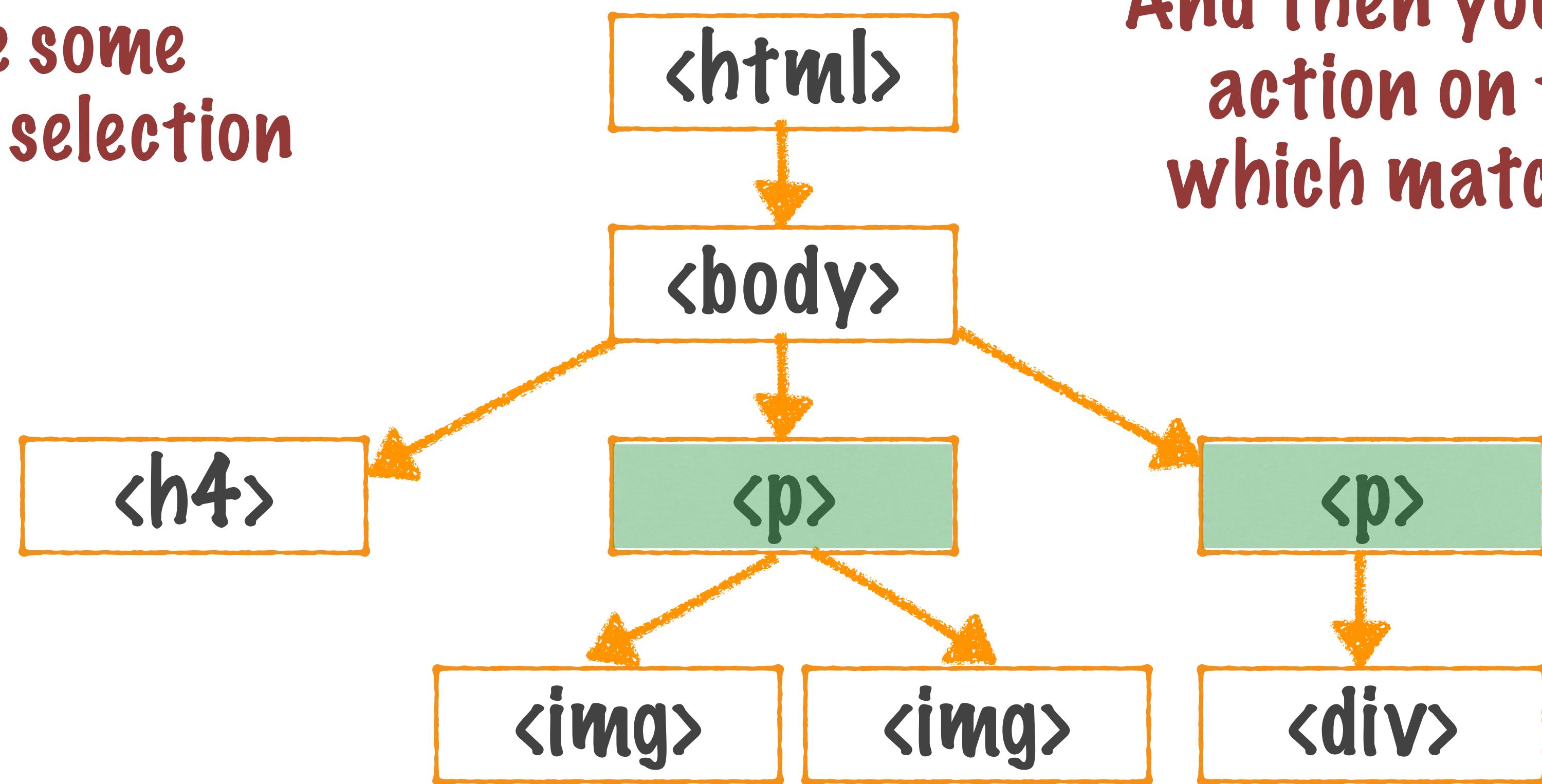


And then you perform some action on the elements which match the criteria

Selectors

You have some criteria for selection

And then you perform some action on the elements which match the criteria

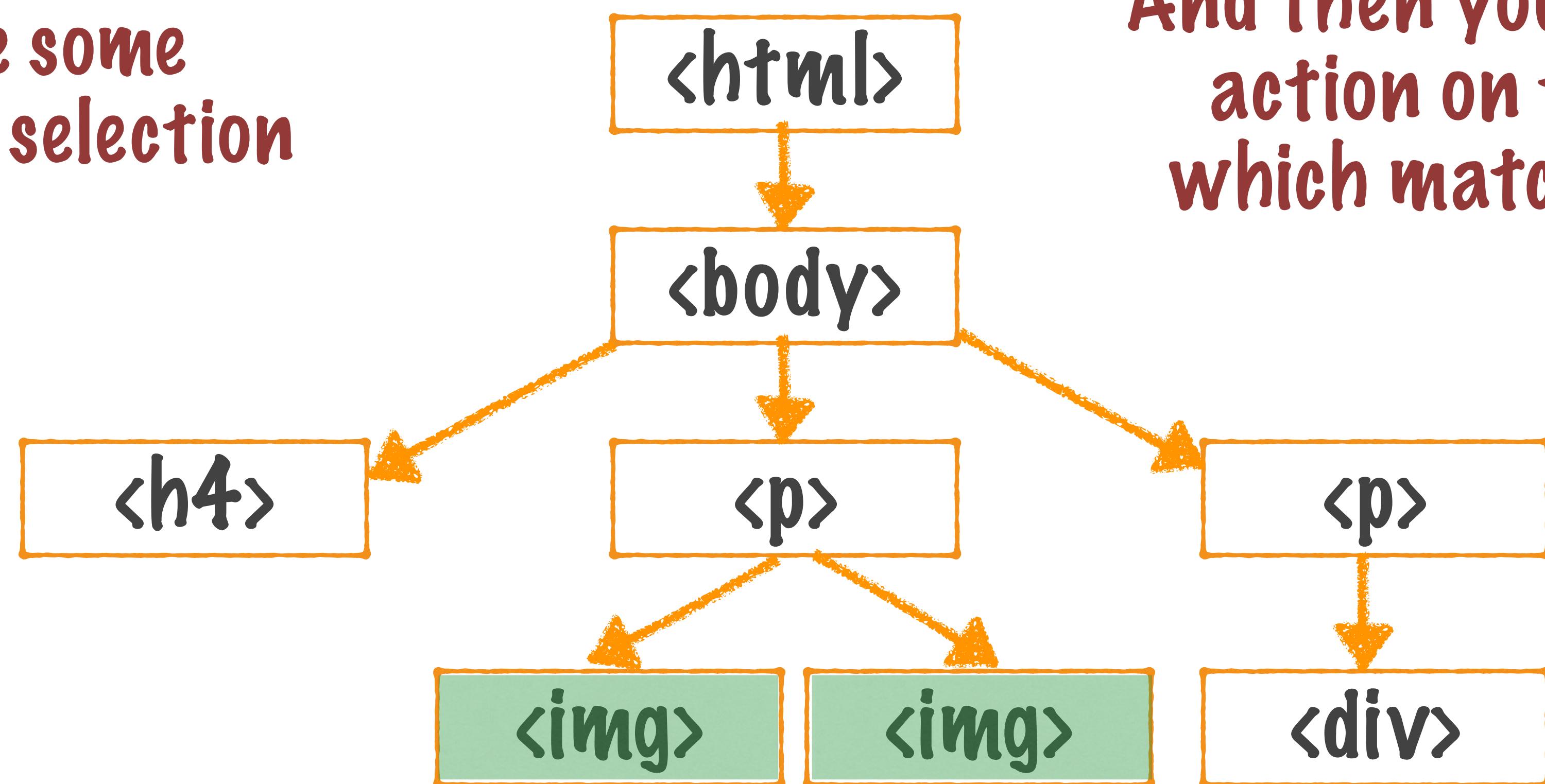


Select all the paragraphs in this document

Selectors

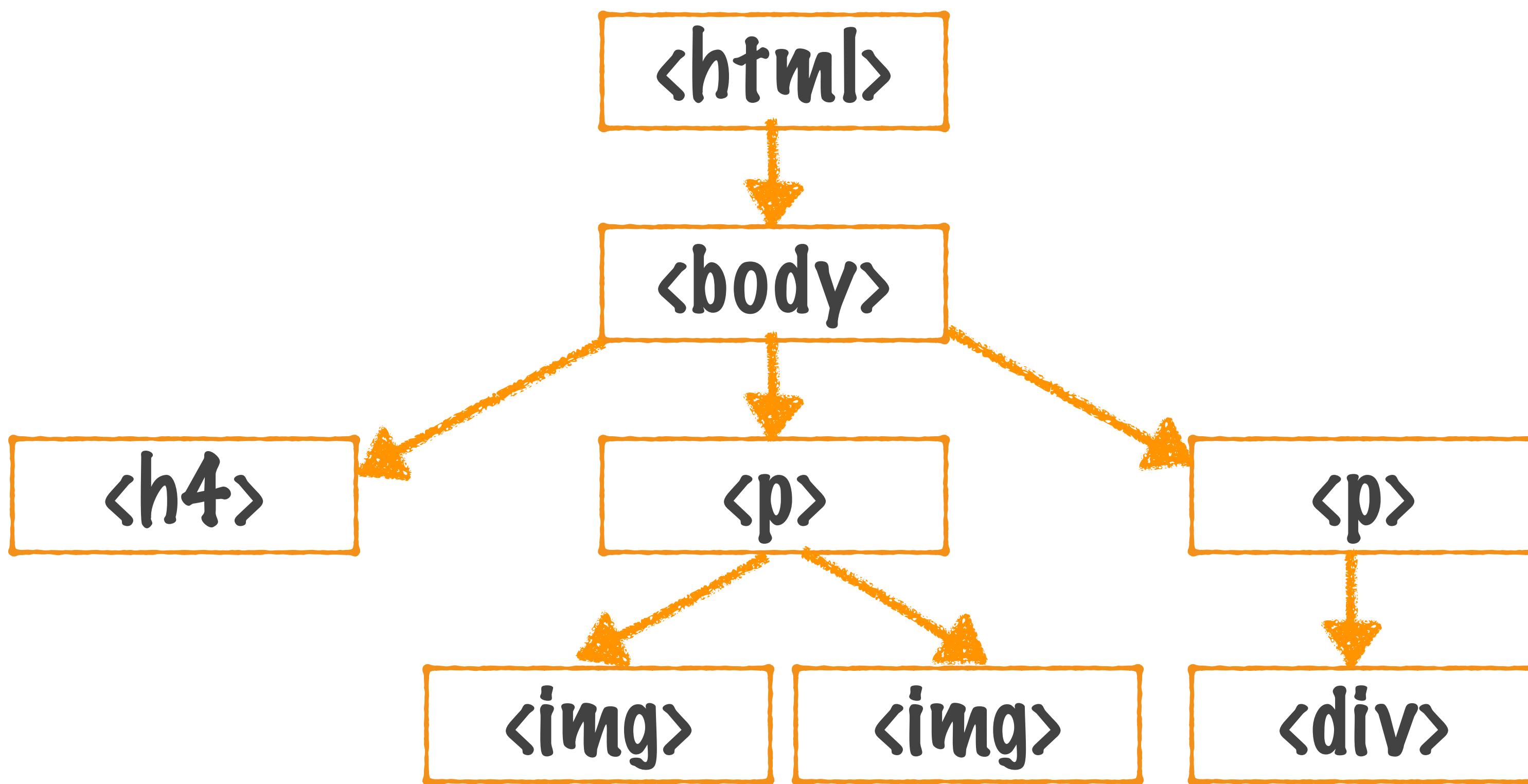
You have some criteria for selection

And then you perform some action on the elements which match the criteria



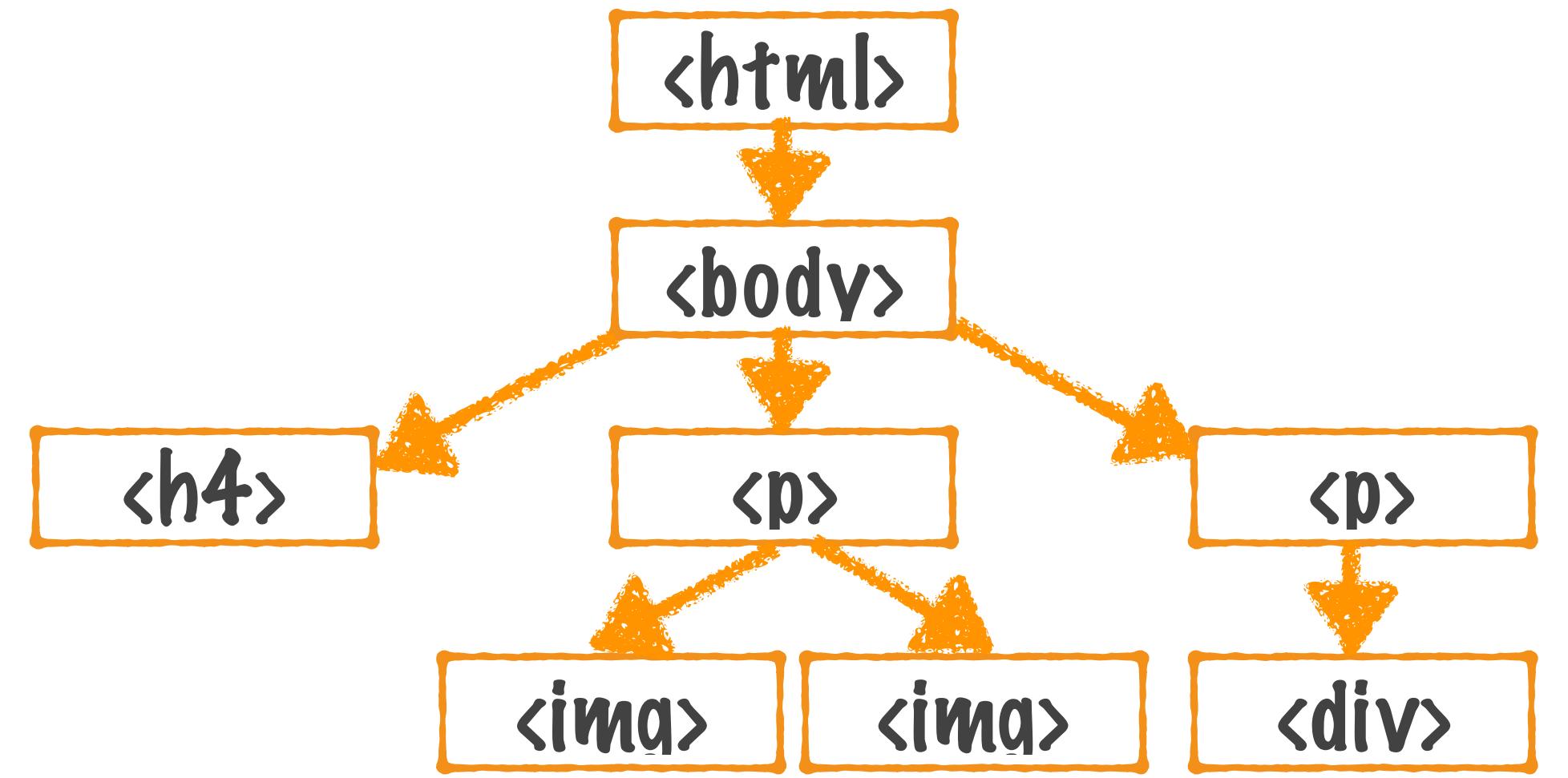
Select all images in this document

Selectors



jQuery makes selections, even very
complicated ones super easy

Selectors



The `$(())` function
selects elements in the
document

And wraps them in a
jQuery object

Selectors

And wraps them in a
jQuery object

This jQuery object is not the
native Javascript element

It is a jQuery wrapper!

Selectors

It is a **jQuery wrapper!**

The wrapper holds **multiple elements** which have been selected

Selectors

It is a **jQuery wrapper!**

The wrapper holds **multiple**
elements which have been selected

The wrapper has a variety of
functions which can be applied
to all the selected elements

Selectors

The wrapper holds **multiple** elements which have been selected

The wrapper has a variety of functions which can be applied to all the selected elements

You can manipulate selected elements in one line of code!

EXAMPLE 2

SimpleSelectors.html

SimpleSelectors.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Simple Selectors</title>
  <script src="../../lib/jquery.js"></script>
  <script>
    $(document).ready(function() {
      $('h3').addClass('red-color');

      $('#firstpara').addClass('blue-color');

      $('.para-class').addClass('green-color');
    });
  </script>
  <style>
    .red-color {
      color: #de1515;
    }
    .blue-color {
      color: cornflowerblue;
    }
    .green-color {
      color: seagreen;
    }
  </style>
</head>
<body>
  <h3>
    Trump suddenly sounds a lot like Jeb Bush and
    Marco Rubio on immigration
  </h3>
  <p id="firstpara">
    If it sticks, his shift away from a pledge to deport 11 million
    illegal immigrants marks a dramatic turnaround for a candidate who
    repeatedly attacked primary rivals as weak and spineless on immigration.
  </p>
  <h3>
    A new class of galaxy has been discovered, and
    it's almost all dark matter
  </h3>
  <p class="para-class">
    According to one of the astronomers who found it, Dragonfly 44 is as big
    as the Milky Way, and its existence exposes how little scientists know
    about how galaxy formation works.
  </p>
</body>
</html>
```

SimpleSelectors.html

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Notice the structure of the document

SimpleSelectors.html

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<body>
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  </p>
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```

Trump suddenly sounds a lot like Jeb Bush and Marco Rubio on immigration

If it sticks, his shift away from a pledge to deport 11 million illegal immigrants marks a dramatic turnaround for a candidate who repeatedly attacked primary rivals as weak and spineless on immigration.

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    });
  </script>
</head>
```

Select all the `<h3>` elements and
add a CSS style

SimpleSelectors.html

```
<head>
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  </script>
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  </h3>
  <p id="firstpara">
  </p>
  <h3>
  </h3>
  <p class="para-class">
  </p>
</body>
```

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SimpleSelectors.html

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  <script>
    $(document).ready(function() {
      $('h3').addClass('red-color');

      $('#firstpara').addClass('blue-color');

      $('.para-class').addClass('green-color');
    });
  </script>
</head>
```

Select all the element with
id="firstpara" and add a CSS
style to it

SimpleSelectors.html

```
<head>
  <title>Simple Selectors</title>
  <script src="../../lib/jquery.js"></script>
  <script>
    $(document).ready(function() {
      $('h3').addClass('red-color');

      $('#firstpara').addClass('blue-color');

      $('.para-class').addClass('green-color');
    });
  </script>
</head>
```

Notice the “#” to indicate that the selection is on the element id

SimpleSelectors.html

```
<head>
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  <script src="../../lib/jquery.js"></script>
  <script>
    $(document).ready(function() {
      $('h3').addClass('red-color');

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      $('.para-class').addClass('green-color');
    });
  </script>
</head>

<body>
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  </h3>
  <p id="firstpara">
  </p>
  <h3>
  </h3>
  <p class="para-class">
  </p>
</body>
```

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  <script>
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      $('h3').addClass('red-color');

      $('#firstpara').addClass('blue-color');

      $('.para-class').addClass('green-color');
    });
  </script>
</head>
```

Select all elements which have
the CSS class “para-class”
assigned to them

SimpleSelectors.html

```
<head>
  <title>Simple Selectors</title>
  <script src="../../lib/jquery.js"></script>
  <script>
    $(document).ready(function() {
      $('h3').addClass('red-color');

      $('#firstpara').addClass('blue-color');

      $('.para-class').addClass('green-color');
    });
  </script>
</head>
```

Notice the `.` to indicate that the selection is of a CSS class

SimpleSelectors.html

```
<!DOCTYPE html>
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  <title>Simple Selectors</title>
  <script src="../../lib/jquery.js"></script>
  <script>
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    });
  </script>
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  </p>
</body>
</html>
```

EXAMPLE 3

MoreSelectors.html

MoreSelectors.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>More Selectors</title>
    <script src="../../lib/jquery.js"></script>
    <script>
        $(document).ready(function() {
            $("li[name='thedonald']").addClass('red-color');

            $("#ted ul.vicepresident li").addClass('blue-color');

            $("li.governor, li.ceo").addClass('underline');

            $('#republican > li').addClass('border');

            $('li.governor:gt(0)').addClass('highlight');
        });
    </script>
    <style>
        .red-color {
            color: #de1515;
        }
        .blue-color {
            color: cornflowerblue;
        }
        .underline {
            text-decoration: underline;
        }
        .border {
            padding: 10px;
            border: solid 1px seagreen;
        }
        .highlight {
            background-color: darkkhaki;
        }
    </style>
</head>
<body>
<h3> Republican presidential candidates
</h3>
<div>
    <ul id="republican">
        <li id="djt" name="thedonald">
            Donald Trump
            <ul>
                <li class="vicepresident">
                    Mike Pence
                </li>
                <li>
                    Chris Christie
                </li>
                <li>
                    Newt Gingrich
                </li>
            </ul>
        </li>
        <li id="ted">
            Ted Cruz
            <ul class="vicepresident">
                <li>
                    Carly Fiorina
                </li>
            </ul>
        </li>
        <li class="governor">John Kasich</li>
        <li class="governor">Jeb Bush</li>
        <li>Ben Carson</li>
        <li class="ceo">Carly Fiorina</li>
        <li class="governor">Chris Christie</li>
    </ul>
</div>
</body>
</html>
```

MoreSelectors.html

```
<ul id="republican">
  <li id="djt" name="thedonald">
    Donald Trump
    <ul>
      <li class="vicepresident">
        Mike Pence
      </li>
      <li>
        Chris Christie
      </li>
      <li>
        Newt Gingrich
      </li>
    </ul>
  </li>
  <li id="ted">
    Ted Cruz
    <ul class="vicepresident">
      <li>
        Carly Fiorina
      </li>
    </ul>
  </li>
  <li class="governor">John Kasich</li>
  <li class="governor">Jeb Bush</li>
  <li>Ben Carson</li>
  <li class="ceo">Carly Fiorina</li>
  <li class="governor">Chris Christie</li>
</ul>
```

Republican presidential candidates

- Donald Trump
 - Mike Pence
 - Chris Christie
 - Newt Gingrich
- Ted Cruz
 - Carly Fiorina
- John Kasich
- Jeb Bush
- Ben Carson
- Carly Fiorina
- Chris Christie

MoreSelectors.html

```
<!DOCTYPE html>
<html lang="en">
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  <script src="../../lib/jquery.js"></script>
  <script>
    $(document).ready(function() {
      $("li[name='thedonald']").addClass('red-color');

      $('#ted ul.vicepresident li').addClass('blue-color');

      $('li.governor, li.ceo').addClass('underline');

      $('#republican > li').addClass('border');

      $('li.governor:gt(0)').addClass('highlight');
    });
  </script>
  <style>
    .red-color {
      color: #de1515;
    }
    .blue-color {
      color: cornflowerblue;
    }
    .underline {
      text-decoration: underline;
    }
    .border {
      padding: 10px;
      border: solid 1px seagreen;
    }
    .highlight {
      background-color: darkkhaki;
    }
  </style>
</head>
<body>
<h3>
  Republican presidential candidates
</h3>
<div>
  <ul id="republican">
    <li id="djt" name="thedonald">
      Donald Trump
      <ul>
        <li class="vicepresident">
          Mike Pence
        </li>
        <li>
          Chris Christie
        </li>
        <li>
          Newt Gingrich
        </li>
      </ul>
    </li>
    <li id="ted">
      Ted Cruz
      <ul class="vicepresident">
        <li>
          Carly Fiorina
        </li>
      </ul>
    </li>
    <li class="governor">John Kasich</li>
    <li class="governor">Jeb Bush</li>
    <li>Ben Carson</li>
    <li class="ceo">Carly Fiorina</li>
    <li class="governor">Chris Christie</li>
  </ul>
</div>
</body>
</html>
```

Republican presidential candidates

- Donald Trump
 - Mike Pence
 - Chris Christie
 - Newt Gingrich
- Ted Cruz
 - Carly Fiorina
- John Kasich
- Jeb Bush
- Ben Carson
- Carly Fiorina
- Chris Christie

MoreSelectors.html

```
$( "li[name='thedonald']" ).addClass( 'red-color' );
```

```
<li id="djt" name="thedonald">  
  Donald Trump  
  <ul>  
    <li class="vicepresident">  
      Mike Pence  
    </li>  
    <li>  
      Chris Christie  
    </li>  
    <li>  
      Newt Gingrich  
    </li>  
  </ul>  
</li>
```

Republican presidential candidates

- Donald Trump
 - Mike Pence
 - Chris Christie
 - Newt Gingrich

- Ted Cruz
 - Carly Fiorina

- John Kasich

- Jeb Bush

- Ben Carson

- Carly Fiorina

- Chris Christie

MoreSelectors.html

```
$( "li[name='thedonald']" ).addClass( 'red-color' );
```

```
<li id="djt" name="thedonald">
  Donald Trump
  <ul>
    <li class="vicepresident">
      Mike Pence
    </li>
    <li>
      Chris Christie
    </li>
    <li>
      Newt Gingrich
    </li>
  </ul>
</li>
```

Select an `` element

MoreSelectors.html

```
$( "li[name='thedonald']" ).addClass( 'red-color' );
```

```
<li id="djt" name="thedonald">
  Donald Trump
  <ul>
    <li class="vicepresident">
      Mike Pence
    </li>
    <li>
      Chris Christie
    </li>
    <li>
      Newt Gingrich
    </li>
  </ul>
</li>
```

With the name
attribute equal to
“thedonald”

MoreSelectors.html

```
$( "li[name='thedonald']" ).addClass( 'red-color' );
```

And add a CSS style
to it

```
<li id="djt" name="thedonald">  
  Donald Trump  
  <ul>  
    <li class="vicepresident">  
      Mike Pence  
    </li>  
    <li>  
      Chris Christie  
    </li>  
    <li>  
      Newt Gingrich  
    </li>  
  </ul>  
</li>
```

Republican presidential candidates

- Donald Trump
 - Mike Pence
 - Chris Christie
 - Newt Gingrich

- Ted Cruz
 - Carly Fiorina

- John Kasich

- Jeb Bush

- Ben Carson

- Carly Fiorina

- Chris Christie

MoreSelectors.html

```
$( '#ted ul.vicepresident li' ).addClass( 'blue-color' );
```

Republican presidential candidates

```
<li id="ted">
  Ted Cruz
  <ul class="vicepresident">
    <li>
      Carly Fiorina
    </li>
  </ul>
</li>
```

- Donald Trump
 - Mike Pence
 - Chris Christie
 - Newt Gingrich
- Ted Cruz
 - Carly Fiorina
- John Kasich
- Jeb Bush
- Ben Carson
- Carly Fiorina
- Chris Christie

MoreSelectors.html

```
$( '#ted ul.vicepresident li' ).addClass( 'blue-color' );
```

```
<li id="ted">  
  Ted Cruz  
  <ul class="vicepresident">  
    <li>  
      Carly Fiorina  
    </li>  
  </ul>  
</li>
```

Select and element
with id="ted"

MoreSelectors.html

```
$( '#ted ul.vicepresident li' ).addClass('blue-color');
```

```
<li id="ted">
  Ted Cruz
  <ul class="vicepresident">
    <li> Carly Fiorina
    </li>
  </ul>
</li>
```

Find an unordered list element `` within it which has the CSS class “`vicepresident`” set on it

MoreSelectors.html

```
$( '#ted ul.vicepresident li' ).addClass( 'blue-color' );
```

```
<li id="ted">
  Ted Cruz
  <ul class="vicepresident">
    <li> Carly Fiorina
    </li>
  </ul>
</li>
```

Select the list item
 within this
unordered list

MoreSelectors.html

```
$( '#ted ul.vicepresident li' ).addClass('blue-color');
```

Republican presidential candidates

Add a CSS style to it

```
<li id="ted">  
  Ted Cruz  
  <ul class="vicepresident">  
    <li> Carly Fiorina </li>  
  </ul>  
</li>
```

- Donald Trump
 - Mike Pence
 - Chris Christie
 - Newt Gingrich

- Ted Cruz
 - Carly Fiorina

- John Kasich

- Jeb Bush

- Ben Carson

- Carly Fiorina

- Chris Christie

MoreSelectors.html

```
$( 'li.governor, li.ceo' ).addClass( 'underline' );
```

Republican presidential candidates

```
<li class="governor">John Kasich</li>
<li class="governor">Jeb Bush</li>
<li>Ben Carson</li>
<li class="ceo">Carly Fiorina</li>
<li class="governor">Chris Christie</li>
```

- Donald Trump
 - Mike Pence
 - Chris Christie
 - Newt Gingrich
- Ted Cruz
 - Carly Fiorina
- John Kasich
- Jeb Bush
- Ben Carson
- Carly Fiorina
- Chris Christie

MoreSelectors.html

```
$( 'li.governor, li.ceo' ).addClass( 'underline' );
```

Two selections - a list item with the **governor** class and a list item with the **ceo** class

```
<li class="governor">John Kasich</li>
<li class="governor">Jeb Bush</li>
<li>Ben Carson</li>
<li class="ceo">Carly Fiorina</li>
<li class="governor">Chris Christie</li>
```

MoreSelectors.html

```
$( '#republican > li' ).addClass( 'border' );
```

Republican presidential candidates

```
<ul id="republican">
  <li id="djt" name="thedonald">
    Donald Trump
    <ul>
      <li class="vicepresident">
        Mike Pence
      </li>
      <li>
        Chris Christie
      </li>
      <li>
        Newt Gingrich
      </li>
    </ul>
  </li>
  <li id="ted">
    Ted Cruz
    <ul class="vicepresident">
      <li>
        Carly Fiorina
      </li>
    </ul>
  </li>
  <li class="governor">John Kasich</li>
  <li class="governor">Jeb Bush</li>
  <li>Ben Carson</li>
  <li class="ceo">Carly Fiorina</li>
  <li class="governor">Chris Christie</li>
</ul>
```

- Donald Trump
 - Mike Pence
 - Chris Christie
 - Newt Gingrich
- Ted Cruz
 - Carly Fiorina
- John Kasich
- Jeb Bush
- Ben Carson
- Carly Fiorina
- Chris Christie

MoreSelectors.html

```
$( '#republican > li' ).addClass( 'border' );
```

```
<ul id="republican">
  <li id="djt" name="thedonald">
    Donald Trump
    <ul>
      <li class="vicepresident">
        Mike Pence
      </li>
      <li>
        Chris Christie
      </li>
      <li>
        Newt Gingrich
      </li>
    </ul>
  </li>
  <li id="ted">
    Ted Cruz
    <ul class="vicepresident">
      <li>
        Carly Fiorina
      </li>
    </ul>
  </li>
  <li class="governor">John Kasich</li>
  <li class="governor">Jeb Bush</li>
  <li>Ben Carson</li>
  <li class="ceo">Carly Fiorina</li>
  <li class="governor">Chris Christie</li>
</ul>
```

Select and element
with id=republican

MoreSelectors.html

```
$( '#republican > li' ).addClass( 'border' );
```

```
<ul id="republican">
  <li id="djt" name="thedonald">
    Donald Trump
    <ul>
      <li class="vicepresident">
        Mike Pence
      </li>
      <li>
        Chris Christie
      </li>
      <li>
        Newt Gingrich
      </li>
    </ul>
  </li>
  <li id="ted">
    Ted Cruz
    <ul class="vicepresident">
      <li>
        Carly Fiorina
      </li>
    </ul>
  </li>
  <li class="governor">John Kasich</li>
  <li class="governor">Jeb Bush</li>
  <li>Ben Carson</li>
  <li class="ceo">Carly Fiorina</li>
  <li class="governor">Chris Christie</li>
</ul>
```

Find the top level
children within it
which are ``
elements

MoreSelectors.html

```
$( '#republican > li' ).addClass( 'border' );
```

```
<ul id="republican">
  <li id="djt" name="thedonald">
    Donald Trump
    <ul>
      <li class="vicepresident">
        Mike Pence
      </li>
      <li>
        Chris Christie
      </li>
      <li>
        Newt Gingrich
      </li>
    </ul>
  </li>
  <li id="ted">
    Ted Cruz
    <ul class="vicepresident">
      <li>
        Carly Fiorina
      </li>
    </ul>
  </li>
  <li class="governor">John Kasich</li>
  <li class="governor">Jeb Bush</li>
  <li>Ben Carson</li>
  <li class="ceo">Carly Fiorina</li>
  <li class="governor">Chris Christie</li>
</ul>
```

This does NOT select
 elements which
are beyond the first
child level

MoreSelectors.html

```
$( '#republican > li' ).addClass( 'border' );
```

And add a CSS style
with a border to it

Republican presidential candidates

- Donald Trump
 - Mike Pence
 - Chris Christie
 - Newt Gingrich
- Ted Cruz
 - Carly Fiorina
- John Kasich
- Jeb Bush
- Ben Carson
- Carly Fiorina
- Chris Christie

MoreSelectors.html

```
$( 'li.governor:gt(0)' ).addClass( 'highlight' );
```

Republican presidential candidates

```
<ul id="republican">
  <li id="djt" name="thedonald">
    Donald Trump
    <ul>
      <li class="vicepresident">
        Mike Pence
      </li>
      <li>
        Chris Christie
      </li>
      <li>
        Newt Gingrich
      </li>
    </ul>
  </li>
  <li id="ted">
    Ted Cruz
    <ul class="vicepresident">
      <li>
        Carly Fiorina
      </li>
    </ul>
  </li>
  <li class="governor">John Kasich</li>
  <li class="governor">Jeb Bush</li>
  <li>Ben Carson</li>
  <li class="ceo">Carly Fiorina</li>
  <li class="governor">Chris Christie</li>
</ul>
```

- Donald Trump
 - Mike Pence
 - Chris Christie
 - Newt Gingrich
- Ted Cruz
 - Carly Fiorina
- John Kasich
- Jeb Bush
- Ben Carson
- Carly Fiorina
- Chris Christie

MoreSelectors.html

```
$( 'li.governor:gt(0)' ).addClass( 'highlight' );
```

```
<ul id="republican">
  <li id="djt" name="thedonald">
    Donald Trump
    <ul>
      <li class="vicepresident">
        Mike Pence
      </li>
      <li>
        Chris Christie
      </li>
      <li>
        Newt Gingrich
      </li>
    </ul>
  </li>
  <li id="ted">
    Ted Cruz
    <ul class="vicepresident">
      <li>
        Carly Fiorina
      </li>
    </ul>
  </li>
  <li class="governor">John Kasich</li>
  <li class="governor">Jeb Bush</li>
  <li>Ben Carson</li>
  <li class="ceo">Carly Fiorina</li>
  <li class="governor">Chris Christie</li>
</ul>
```

Select all list items
 with the
governor class

MoreSelectors.html

```
$( 'li.governor:gt(0)' ).addClass( 'highlight' );
```

```
<ul id="republican">
  <li id="djt" name="thedonald">
    Donald Trump
    <ul>
      <li class="vicepresident">
        Mike Pence
      </li>
      <li>
        Chris Christie
      </li>
      <li>
        Newt Gingrich
      </li>
    </ul>
  </li>
  <li id="ted">
    Ted Cruz
    <ul class="vicepresident">
      <li>
        Carly Fiorina
      </li>
    </ul>
  </li>
  <li class="governor">John Kasich</li>
  <li class="governor">Jeb Bush</li>
  <li>Ben Carson</li>
  <li class="ceo">Carly Fiorina</li>
  <li class="governor">Chris Christie</li>
</ul>
```

Select all list items
 with the
governor class

greater than index 0

MoreSelectors.html

```
$( 'li.governor:gt(0)' ).addClass( 'highlight' );
```

And add a highlight
CSS style

Republican presidential candidates

- Donald Trump
 - Mike Pence
 - Chris Christie
 - Newt Gingrich

- Ted Cruz
 - Carly Fiorina

- John Kasich

- Jeb Bush

- Ben Carson

- Carly Fiorina

- Chris Christie

EXAMPLE 4

TraversingTheDom.html

TraversingTheDom.html

```
<body>
<div class="indent great-grandfather">
    Great-grandfather

    <div class="indent grandfather">
        Grandfather

        <div class="indent father">
            Father

            <div class="indent son">
                Son 1
            </div>
            <div class="indent son">
                Son 2
            </div>
            <div class="indent son">
                Son 3
            </div>
        </div>
    </div>
<div class="indent great-grandmother">
    Great-grandmother

    <div class="indent grandmother">
        Grandmother

        <div class="indent mother">
            Mother

            <div class="indent daughter">
                Daughter 1
            </div>
            <div class="indent daughter">
                Daughter 2
            </div>
            <div class="indent daughter">
                Daughter 3
            </div>
        </div>
    </div>
<div class="indent great-granduncle">
    Great-granduncle
</div>
<div class="indent great-grandaunt">
    Great-grandaunt
</div>
</body>
```

TraversingTheDom.html

```
<body>
<div class="indent great-grandfather">
  Great-grandfather

  <div class="indent grandfather">
    Grandfather

    <div class="indent father">
      Father

      <div class="indent son">
        Son 1
      </div>
      <div class="indent son">
        Son 2
      </div>
      <div class="indent son">
        Son 3
      </div>
    </div>
  </div>
<div class="indent great-grandmother">
  Great-grandmother

  <div class="indent grandmother">
    Grandmother

    <div class="indent mother">
      Mother

      <div class="indent daughter">
        Daughter 1
      </div>
      <div class="indent daughter">
        Daughter 2
      </div>
      <div class="indent daughter">
        Daughter 3
      </div>
    </div>
  </div>
<div class="indent great-granduncle">
  Great-granduncle
</div>
<div class="indent great-grandaunt">
  Great-grandaunt
</div>
</body>
```

Great-grandfather

Grandfather

Father

Son 1

Son 2

Son 3

Great-grandmother

Grandmother

Mother

Daughter 1

Daughter 2

Daughter 3

Great-granduncle

Great-grandaunt

```
$( "div.father" ).parent().addClass( 'red-color' );
```

```
<div class="indent great-grandfather">  
  Great-grandfather  
  
<div class="indent grandfather">  
  Grandfather  
  
    <div class="indent father">  
      Father  
  
      <div class="indent son">  
        Son 1  
      </div>  
      <div class="indent son">  
        Son 2  
      </div>  
      <div class="indent son">  
        Son 3  
      </div>  
    </div>  
  </div>  
</div>
```

Select a `<div>` with
the “father” CSS
class

TraversingTheDom.html

```
$( "div.father" ).parent().addClass( 'red-color' );
```

```
<div class="indent great-grandfather">  
  Great-grandfather  
  
<div class="indent grandfather">  
  Grandfather  
    <div class="indent father">  
      Father  
  
      <div class="indent son">  
        Son 1  
      </div>  
      <div class="indent son">  
        Son 2  
      </div>  
      <div class="indent son">  
        Son 3  
      </div>  
    </div>  
  </div>  
</div>
```

Find the parent element for this `<div>`

TraversingTheDom.html

```
$( "div.father" ).parent().addClass( 'red-color' );
```

```
<div class="indent great-grandfather">  
  Great-grandfather  
  
<div class="indent grandfather">  
  Grandfather  
  
    <div class="indent father">  
      Father  
  
        <div class="indent son">  
          Son 1  
        </div>  
        <div class="indent son">  
          Son 2  
        </div>  
        <div class="indent son">  
          Son 3  
        </div>  
      </div>  
    </div>  
</div>
```

And add a CSS class

Great-grandfather

Grandfather

Father

Son 1

Son 2

Son 3

Great-grandmother

Grandmother

Mother

Daughter 1

Daughter 2

Daughter 3

Great-granduncle

Great-grandaunt

```
$( "div.son" ).parentsUntil("div.great-grandfather").addClass('red-color');
```

```
<div class="indent great-grandfather">  
  Great-grandfather  
  <div class="indent grandfather">  
    Grandfather  
    <div class="indent father">  
      Father  
      <div class="indent son">  
        Son 1  
      </div>  
      <div class="indent son">  
        Son 2  
      </div>  
      <div class="indent son">  
        Son 3  
      </div>  
    </div>  
  </div>  
</div>
```

Select all its parents till we reach the `<div>` with the “great-grandfather” class

TraversingTheDom.html

```
$( "div.son" ).parentsUntil("div.great-grandfather").addClass('red-color');
```

```
<div class="indent great-grandfather">
  Great-grandfather
    <div class="indent grandfather">
      Grandfather
        <div class="indent father">
          Father
            <div class="indent son">
              Son 1
            </div>
            <div class="indent son">
              Son 2
            </div>
            <div class="indent son">
              Son 3
            </div>
          </div>
        </div>
      </div>
    </div>
  </div>
</div>
```

The great-grandfather `<div>` is NOT included

TraversingTheDom.html

```
$( "div.son" ).parentsUntil("div.great-grandfather").addClass('red-color');
```

```
<div class="indent great-grandfather">  
  Great-grandfather  
  
  <div class="indent grandfather">  
    Grandfather  
  
    <div class="indent father">  
      Father  
  
      <div class="indent son">  
        Son 1  
      </div>  
      <div class="indent son">  
        Son 2  
      </div>  
      <div class="indent son">  
        Son 3  
      </div>  
    </div>  
  </div>  
</div>
```

Great-grandfather
Grandfather
Father
Son 1
Son 2
Son 3

Great-grandmother
Grandmother
Mother
Daughter 1
Daughter 2
Daughter 3

Great-granduncle
Great-grandauant

And add a CSS class

```
$( "div.daughter" ).closest( "div" ).addClass( 'green-color' );
```

```
<div class="indent great-grandmother">  
  Great-grandmother  
  
<div class="indent grandmother">  
  Grandmother  
  
<div class="indent mother">  
  Mother  
  
<div class="indent daughter">  
  Daughter 1  
</div>  
<div class="indent daughter">  
  Daughter 2  
</div>  
<div class="indent daughter">  
  Daughter 3  
</div>  
</div>  
</div>
```

Select the closest
<div> to the
daughter <div>

TraversingTheDom.html

```
$( "div.daughter" ).closest("div").addClass( 'green-color' );
```

```
<div class="indent great-grandmother">  
  Great-grandmother  
  
  <div class="indent grandmother">  
    Grandmother  
  
    <div class="indent mother">  
      Mother  
      <div class="indent daughter">  
        Daughter 1  
      </div>  
      <div class="indent daughter">  
        Daughter 2  
      </div>  
      <div class="indent daughter">  
        Daughter 3  
      </div>  
    </div>  
  </div>  
</div>
```

Since the daughter `<div>` has siblings, the siblings are the closest

TraversingTheDom.html

```
$( "div.daughter" ).closest("div").addClass( 'green-color' );
```

```
<div class="indent great-grandmother">
  Great-grandmother

  <div class="indent grandmother">
    Grandmother

    <div class="indent mother">
      Mother
      <div class="indent daughter">
        Daughter 1
      </div>
      <div class="indent daughter">
        Daughter 2
      </div>
      <div class="indent daughter">
        Daughter 3
      </div>
    </div>
  </div>
</div>
```

If the siblings had not existed it would have been the parent <div>

TraversingTheDom.html

```
$( "div.daughter" ).closest("div").addClass( 'green-color' );
```

```
<div class="indent great-grandmother">  
  Great-grandmother  
  
  <div class="indent grandmother">  
    Grandmother  
  
    <div class="indent mother">  
      Mother  
  
      <div class="indent daughter">  
        Daughter 1  
      </div>  
      <div class="indent daughter">  
        Daughter 2  
      </div>  
      <div class="indent daughter">  
        Daughter 3  
      </div>  
    </div>  
  </div>  
</div>
```

Great-grandfather
Grandfather
Father
Son 1
Son 2
Son 3

Great-grandmother
Grandmother
Mother
Daughter 1
Daughter 2
Daughter 3

Great-granduncle
Great-grandaunt

Add a CSS style

```
$(".great-grandfather").next().addClass('red-color');  
$(".great-grandmother").prev().addClass('blue-color');
```

```
<body>  
<div class="indent great-grandfather">  
    Great-grandfather  
</div>  
<div class="indent great-grandmother">  
    Great-grandmother  
</div>  
<div class="indent great-granduncle">  
    Great-granduncle  
</div>  
<div class="indent great-grandauant">  
    Great-grandauant  
</div>  
</body>
```

next() and prev()
allow us to select
sibling elements
after and before the
matched element

TraversingTheDom.html

```
$(".great-grandfather").next().addClass('red-color');  
$(".great-grandmother").prev().addClass('blue-color');
```

```
<body>  
<div class="indent great-grandfather">  
    Great-grandfather  
</div>  
<div class="indent great-grandmother">  
    Great-grandmother  
</div>  
<div class="indent great-granduncle">  
    Great-granduncle  
</div>  
<div class="indent great-grandaunt">  
    Great-grandaunt  
</div>  
</body>
```

Great-grandfather

Grandfather

Father

Son 1

Son 2

Son 3

Great-grandmother

Grandmother

Mother

Daughter 1

Daughter 2

Daughter 3

Great-granduncle

Great-grandaunt

TraversingTheDom.html

```
$(".great-grandfather").next().addClass('red-color');  
$(".great-grandmother").prev().addClass('blue-color');
```

```
<body>  
<div class="indent great-grandfather">  
    Great-grandfather  
</div>  
<div class="indent great-grandmother">  
    Great-grandmother  
</div>  
<div class="indent great-granduncle">  
    Great-granduncle  
</div>  
<div class="indent great-grandaunt">  
    Great-grandaunt  
</div>  
</body>
```

Great-grandfather
Grandfather
Father
Son 1
Son 2
Son 3

Great-grandmother
Grandmother
Mother
Daughter 1
Daughter 2
Daughter 3
Great-granduncle
Great-grandaunt

```
$(".great-grandfather").nextAll().addClass('red-color');
```

```
<body>
<div class="indent great-grandfather">
  Great-grandfather
</div>
<div class="indent great-grandmother">
  Great-grandmother
</div>
<div class="indent great-granduncle">
  Great-granduncle
</div>
<div class="indent great-grandauant">
  Great-grandauant
</div>
</body>
```

nextAll() selects all sibling elements after the match

```
$(".great-grandfather").nextAll().addClass('red-color');
```

```
<body>
<div class="indent great-grandfather">
  Great-grandfather
</div>
<div class="indent great-grandmother">
  Great-grandmother
</div>
<div class="indent great-granduncle">
  Great-granduncle
</div>
<div class="indent great-grandauant">
  Great-grandauant
</div>
</body>
```

There is a corresponding `prevAll()` method as well

TraversingTheDom.html

```
$(".great-grandfather").nextAll().addClass('red-color');
```

```
<body>
<div class="indent great-grandfather">
  Great-grandfather
</div>
<div class="indent great-grandmother">
  Great-grandmother
</div>
<div class="indent great-granduncle">
  Great-granduncle
</div>
<div class="indent great-grandaunt">
  Great-grandaunt
</div>
</body>
```

Great-grandfather
Grandfather
Father
Son 1
Son 2
Son 3

Great-grandmother
Grandmother
Mother
Daughter 1
Daughter 2
Daughter 3
Great-granduncle
Great-grandaunt

TraversingTheDom.html

```
$(".great-grandfather").nextAll().first().addClass('red-color');  
$(".great-grandfather").nextAll().last().addClass('blue-color');
```

```
<body>  
<div class="indent great-grandfather">  
  Great-grandfather  
</div>  
<div class="indent great-grandmother">  
  Great-grandmother  
</div>  
<div class="indent great-granduncle">  
  Great-granduncle  
</div>  
<div class="indent great-grandauant">  
  Great-grandauant  
</div>  
</body>
```

**nextAll().first() and
nextAll().last() matches
the first and last sibling
which come after the
selected element**

```
$(".great-grandfather").nextAll().first().addClass('red-color');  
$(".great-grandfather").nextAll().last().addClass('blue-color');
```

```
<body>  
<div class="indent great-grandfather">  
    Great-grandfather  
</div>  
<div class="indent great-grandmother">  
    Great-grandmother  
</div>  
<div class="indent great-granduncle">  
    Great-granduncle  
</div>  
<div class="indent great-grandauant">  
    Great-grandauant  
</div>  
</body>
```

Corresponding
methods are also
available on
prevAll()

TraversingTheDom.html

```
$(".great-grandfather").nextAll().first().addClass('red-color');  
$(".great-grandfather").nextAll().last().addClass('blue-color');
```

```
<body>  
<div class="indent great-grandfather">  
    Great-grandfather  
</div>  
<div class="indent great-grandmother">  
    Great-grandmother  
</div>  
<div class="indent great-granduncle">  
    Great-granduncle  
</div>  
<div class="indent great-grandaunt">  
    Great-grandaunt  
</div>  
</body>
```

Great-grandfather

Grandfather

Father

Son 1

Son 2

Son 3

Great-grandmother

Grandmother

Mother

Daughter 1

Daughter 2

Daughter 3

Great-granduncle

Great-grandaunt

TraversingTheDom.html

```
$(".great-grandfather").nextAll().first().addClass('red-color');  
$(".great-grandfather").nextAll().last().addClass('blue-color');
```

```
<body>  
<div class="indent great-grandfather">  
    Great-grandfather  
</div>  
<div class="indent great-grandmother">  
    Great-grandmother  
</div>  
<div class="indent great-granduncle">  
    Great-granduncle  
</div>  
<div class="indent great-grandaunt">  
    Great-grandaunt  
</div>  
</body>
```

Great-grandfather

Grandfather

Father

Son 1

Son 2

Son 3

Great-grandmother

Grandmother

Mother

Daughter 1

Daughter 2

Daughter 3

Great-granduncle

Great-grandaunt

```
$( ".daughter" ).siblings().addClass( 'green-color' );
```

```
<div class="indent great-grandmother">  
  Great-grandmother  
  
<div class="indent grandmother">  
  Grandmother  
  
<div class="indent mother">  
  Mother  
  
    <div class="indent daughter">  
      Daughter 1  
    </div>  
    <div class="indent daughter">  
      Daughter 2  
    </div>  
    <div class="indent daughter">  
      Daughter 3  
    </div>  
  </div>  
</div>  
</div>
```

Select all elements
at the same level as
the daughter <div>

TraversingTheDom.html

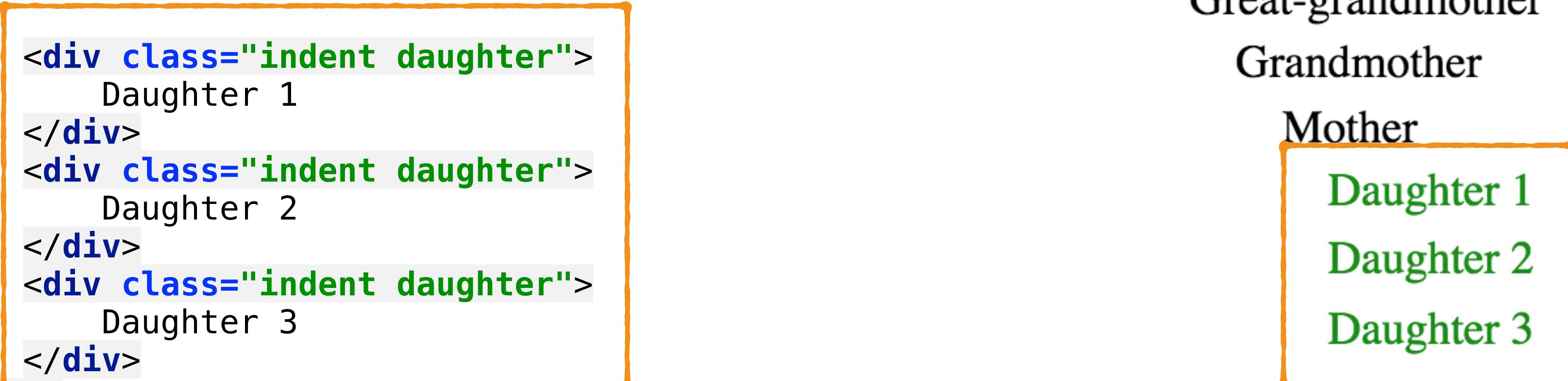
```
$( ".daughter" ).siblings().addClass( 'green-color' );
```

```
<div class="indent great-grandmother">
  Great-grandmother
    <div class="indent grandmother">
      Grandmother
        <div class="indent mother">
          Mother
            <div class="indent daughter">
              Daughter 1
            </div>
            <div class="indent daughter">
              Daughter 2
            </div>
            <div class="indent daughter">
              Daughter 3
            </div>
          </div>
        </div>
      </div>
    </div>
  </div>
</div>
```

Great-grandfather
Grandfather
Father
Son 1
Son 2
Son 3

Great-grandmother
Grandmother
Mother
Daughter 1
Daughter 2
Daughter 3

Great-granduncle
Great-grandaunt



EXAMPLE 5

AdvancedSelectors.html

AdvancedSelectors.html

```
<body>
<h3>
    Hogwarts professors and classes
</h3>
<div>
    <table>
        <tr class="non-human">
            <td> Cuthbert Binns </td>
            <td> History Of Magic </td>
        </tr>
        <tr>
            <td> Charity Burbage </td>
            <td> Muggle Studies </td>
        </tr>
        <tr class="non-human">
            <td> Firenze </td>
            <td> Divination </td>
        </tr>
        <tr class="non-human">
            <td> Rubeus Hagrid </td>
            <td> Care Of Magical Creatures </td>
        </tr>
        <tr>
            <td> Aurora Sinistra </td>
            <td> Astronomy </td>
        </tr>
    </table>
</div>
</body>
```

AdvancedSelectors.html

```
$( "tr:even" ).addClass( 'even-row' );
```

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	Muggle Studies
Firenze	Divination
Rubeus Hagrid	Care Of Magical Creatures
Aurora Sinistra	Astronomy

AdvancedSelectors.html

```
$("tr:even").addClass('even-row');
```

Selects all the even rows in the table

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	Muggle Studies
Firenze	Divination
Rubeus Hagrid	Care Of Magical Creatures
Aurora Sinistra	Astronomy

AdvancedSelectors.html

```
$("tr:even").addClass('even-row');
```

The first row at
index = 0 is an even
row

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	Muggle Studies
Firenze	Divination
Rubeus Hagrid	Care Of Magical Creatures
Aurora Sinistra	Astronomy

```
$( "tr:nth-child(even)" ).addClass( 'even-row' );
```

The “`tr:nth-child`”
allows selection of a
child at a specified
index

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	Muggle Studies
Firenze	Divination
Rubeus Hagrid	Care Of Magical Creatures
Aurora Sinistra	Astronomy

```
$( "tr:nth-child(even)" ).addClass( 'even-row' );
```

In place of the index
“even” or “odd” can
be specified to select
the even or odd rows

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	Muggle Studies
Firenze	Divination
Rubeus Hagrid	Care Of Magical Creatures
Aurora Sinistra	Astronomy

AdvancedSelectors.html

```
$("td:contains('Hagrid')").addClass('highlight');
```

Selects all cells
which which
contains the text
“Hagrid”

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	Muggle Studies
Firenze	Divination
Rubeus Hagrid	Care Of Magical Creatures
Aurora Sinistra	Astronomy

AdvancedSelectors.html

```
$( ".non-human:eq(1)" ).addClass( 'highlight' );
```

```
<body>
<h3>
  Hogwarts professors and classes
</h3>
<div>
  <table>
    <tr class="non-human">
      <td> Cuthbert Binns </td>
      <td> History Of Magic </td>
    </tr>
    <tr>
      <td> Charity Burbage </td>
      <td> Muggle Studies </td>
    </tr>
    <tr class="non-human">
      <td> Firenze </td>
      <td> Divination </td>
    </tr>
    <tr class="non-human">
      <td> Rubeus Hagrid </td>
      <td> Care Of Magical Creatures </td>
    </tr>
    <tr>
      <td> Aurora Sinistra </td>
      <td> Astronomy </td>
    </tr>
  </table>
</div>
</body>
```

Select the cell with the “non-human” CSS selector at index = 1

AdvancedSelectors.html

```
$(".non-human:eq(1)").addClass('highlight');
```

```
<body>
<h3>
  Hogwarts professors and classes
</h3>
<div>
  <table>
    <tr class="non-human">
      <td> Cuthbert Binns </td>
      <td> History Of Magic </td>
    </tr>
    <tr>
      <td> Charity Burbage </td>
      <td> Muggle Studies </td>
    </tr>
    <tr class="non-human">
      <td> Firenze </td>
      <td> Divination </td>
    </tr>
    <tr class="non-human">
      <td> Rubeus Hagrid </td>
      <td> Care Of Magical Creatures </td>
    </tr>
    <tr>
      <td> Aurora Sinistra </td>
      <td> Astronomy </td>
    </tr>
  </table>
</div>
</body>
```

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	Muggle Studies
Firenze	Divination
Rubeus Hagrid	Care Of Magical Creatures
Aurora Sinistra	Astronomy

AdvancedSelectors.html

```
$( ".non-human:gt(1)" ).addClass( 'highlight' );
```

```
<body>
<h3>
  Hogwarts professors and classes
</h3>
<div>
  <table>
    <tr class="non-human">
      <td> Cuthbert Binns </td>
      <td> History Of Magic </td>
    </tr>
    <tr>
      <td> Charity Burbage </td>
      <td> Muggle Studies </td>
    </tr>
    <tr class="non-human">
      <td> Firenze </td>
      <td> Divination </td>
    </tr>
    <tr class="non-human">
      <td> Rubeus Hagrid </td>
      <td> Care Of Magical Creatures </td>
    </tr>
    <tr>
      <td> Aurora Sinistra </td>
      <td> Astronomy </td>
    </tr>
  </table>
</div>
</body>
```

“.non-human:gt(1)”
will select all
elements greater
than index 1

AdvancedSelectors.html

```
$( ".non-human:gt(1)" ).addClass( 'highlight' );
```

```
<body>
<h3>
  Hogwarts professors and classes
</h3>
<div>
  <table>
    <tr class="non-human">
      <td> Cuthbert Binns </td>
      <td> History Of Magic </td>
    </tr>
    <tr>
      <td> Charity Burbage </td>
      <td> Muggle Studies </td>
    </tr>
    <tr class="non-human">
      <td> Firenze </td>
      <td> Divination </td>
    </tr>
    <tr class="non-human">
      <td> Rubeus Hagrid </td>
      <td> Care Of Magical Creatures </td>
    </tr>
    <tr>
      <td> Aurora Sinistra </td>
      <td> Astronomy </td>
    </tr>
  </table>
</div>
</body>
```

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	Muggle Studies
Firenze	Divination
Rubeus Hagrid	Care Of Magical Creatures
Aurora Sinistra	Astronomy

AdvancedSelectors.html

```
$(".non-human:lt(1)").addClass('highlight');
```

```
<body>
<h3>
  Hogwarts professors and classes
</h3>
<div>
  <table>
    <tr class="non-human">
      <td> Cuthbert Binns </td>
      <td> History Of Magic </td>
    </tr>
    <tr>
      <td> Charity Burbage </td>
      <td> Muggle Studies </td>
    </tr>
    <tr class="non-human">
      <td> Firenze </td>
      <td> Divination </td>
    </tr>
    <tr class="non-human">
      <td> Rubeus Hagrid </td>
      <td> Care Of Magical Creatures </td>
    </tr>
    <tr>
      <td> Aurora Sinistra </td>
      <td> Astronomy </td>
    </tr>
  </table>
</div>
</body>
```

“.non-human:lt(1)”
will select all
elements less than
index 1

AdvancedSelectors.html

```
$(".non-human:lt(1)").addClass('highlight');
```

```
<body>
<h3>
  Hogwarts professors and classes
</h3>
<div>
  <table>
    <tr class="non-human">
      <td> Cuthbert Binns </td>
      <td> History Of Magic </td>
    </tr>
    <tr>
      <td> Charity Burbage </td>
      <td> Muggle Studies </td>
    </tr>
    <tr class="non-human">
      <td> Firenze </td>
      <td> Divination </td>
    </tr>
    <tr class="non-human">
      <td> Rubeus Hagrid </td>
      <td> Care Of Magical Creatures </td>
    </tr>
    <tr>
      <td> Aurora Sinistra </td>
      <td> Astronomy </td>
    </tr>
  </table>
</div>
</body>
```

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	Muggle Studies
Firenze	Divination
Rubeus Hagrid	Care Of Magical Creatures
Aurora Sinistra	Astronomy

EXAMPLE 6

FilterSelector.html

FilterSelector.html

```
<h3>
  Hogwarts professors and classes
</h3>
<div>
  <table>
    <tr>
      <td> Cuthbert Binns </td>
      <td> History Of Magic </td>
    </tr>
    <tr>
      <td> Charity Burbage </td>
      <td>
        <a href="https://evil.com">
          Muggle Studies
        </a>
      </td>
    </tr>
    <tr>
      <td> Firenze </td>
      <td>
        <a href="https://en.wikipedia.org/wiki/Magic_in_Harry_Potter#Divination">
          Divination
        </a>
      </td>
    </tr>
    <tr>
      <td> Pomona Sprout </td>
      <td> Herbology </td>
    </tr>
    <tr>
      <td> Rubeus Hagrid </td>
      <td>
        <a href="https://en.wikipedia.org/wiki/Magic_in_Harry_Potter#Care_of_Magical_Creatures">
          Care Of Magical Creatures
        </a>
      </td>
    </tr>
    <tr>
      <td> Aurora Sinistra </td>
      <td> Astronomy </td>
    </tr>
    <tr>
      <td> Remus Lupin </td>
      <td> Defense Against The Dark Arts </td>
    </tr>
    <tr>
      <td> Severus Snape </td>
      <td> Defense Against The Dark Arts </td>
    </tr>
  </table>
</div>
```

FilterSelector.html

```
<h3>
  Hogwarts professors and classes
</h3>
<div>
  <table>
    <tr>
      <td> Cuthbert Binns </td>
      <td> History Of Magic </td>
    </tr>
    <tr>
      <td> Charity Burbage </td>
      <td>
        <a href="https://evil.com">
          Muggle Studies
        </a>
      </td>
    </tr>
    <tr>
      <td> Firenze </td>
      <td>
        <a href="https://en.wikipedia.org/wiki/Magic_in_Harry_Potter#Divination">
          Divination
        </a>
      </td>
    </tr>
    <tr>
      <td> Pomona Sprout </td>
      <td> Herbology </td>
    </tr>
    <tr>
      <td> Rubeus Hagrid </td>
      <td>
        <a href="https://en.wikipedia.org/wiki/Magic_in_Harry_Potter#Care_of_Magical_Creatures">
          Care Of Magical Creatures
        </a>
      </td>
    </tr>
    <tr>
      <td> Aurora Sinistra </td>
      <td> Astronomy </td>
    </tr>
    <tr>
      <td> Remus Lupin </td>
      <td> Defense Against The Dark Arts </td>
    </tr>
    <tr>
      <td> Severus Snape </td>
      <td> Defense Against The Dark Arts </td>
    </tr>
  </table>
</div>
```

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	<u>Muggle Studies</u>
Firenze	<u>Divination</u>
Pomona Sprout	Herbology
Rubeus Hagrid	<u>Care Of Magical Creatures</u>
Aurora Sinistra	Astronomy
Remus Lupin	<u>Defense Against The Dark Arts</u>
Severus Snape	<u>Defense Against The Dark Arts</u>

FilterSelector.html

```
$( "tr" ).filter( ':even' ).addClass( 'even-row' );
```

The filter() method only matches those elements which match the filter

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	<u>Muggle Studies</u>
Firenze	<u>Divination</u>
Pomona Sprout	Herbology
Rubeus Hagrid	<u>Care Of Magical Creatures</u>
Aurora Sinistra	Astronomy
Remus Lupin	Defense Against The Dark Arts
Severus Snape	Defense Against The Dark Arts

FilterSelector.html

```
$( "tr" ).filter( ':even' ).addClass( 'even-row' );
```

“:even” matches the even rows and “:odd” matches the odd rows

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	<u>Muggle Studies</u>
Firenze	<u>Divination</u>
Pomona Sprout	Herbology
Rubeus Hagrid	<u>Care Of Magical Creatures</u>
Aurora Sinistra	Astronomy
Remus Lupin	Defense Against The Dark Arts
Severus Snape	Defense Against The Dark Arts

FilterSelector.html

```
$( "tr" ).filter( ':even' ).addClass( 'even-row' );
```

What makes `filter()` powerful is the ability to specify a function as a matching mechanism

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	<u>Muggle Studies</u>
Firenze	<u>Divination</u>
Pomona Sprout	Herbology
Rubeus Hagrid	<u>Care Of Magical Creatures</u>
Aurora Sinistra	Astronomy
Remus Lupin	Defense Against The Dark Arts
Severus Snape	Defense Against The Dark Arts

FilterSelector.html

```
var favoriteTeachers = ['Rubeus Hagrid', 'Remus Lupin', 'Firenze'];
$("td").filter(function() {
  return favoriteTeachers.indexOf(this.innerText) != -1;
}).addClass('highlight');
```

This filter() function
selects those cells
which have your
favorite teachers

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	<u>Muggle Studies</u>
Firenze	<u>Divination</u>
Pomona Sprout	Herbology
Rubeus Hagrid	<u>Care Of Magical Creatures</u>
Aurora Sinistra	Astronomy
Remus Lupin	Defense Against The Dark Arts
Severus Snape	Defense Against The Dark Arts

FilterSelector.html

```
var favoriteTeachers = ['Rubeus Hagrid', 'Remus Lupin', 'Firenze'];
$("td").filter(function() {
  return favoriteTeachers.indexOf(this.innerText) != -1;
}).addClass('highlight');
```

If the teachers are in present in the array they match the filter

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	<u>Muggle Studies</u>
Firenze	<u>Divination</u>
Pomona Sprout	Herbology
Rubeus Hagrid	<u>Care Of Magical Creatures</u>
Aurora Sinistra	Astronomy
Remus Lupin	Defense Against The Dark Arts
Severus Snape	Defense Against The Dark Arts

FilterSelector.html

```
var favoriteTeachers = ['Rubeus Hagrid', 'Remus Lupin', 'Firenze'];
$("td").filter(function() {
  return favoriteTeachers.indexOf(this.innerText) != -1;
}).addClass('highlight');
```

Highlight the cells
with our favorite
teacher's names

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	<u>Muggle Studies</u>
Firenze	<u>Divination</u>
Pomona Sprout	Herbology
Rubeus Hagrid	<u>Care Of Magical Creatures</u>
Aurora Sinistra	Astronomy
Remus Lupin	Defense Against The Dark Arts
Severus Snape	Defense Against The Dark Arts

FilterSelector.html

```
$( "a" ).filter( function() {  
    return this.hostname && this.hostname.indexOf( 'wikipedia' ) == -1;  
}).addClass( 'error' );
```

Reference links to any site other than Wikipedia should be in red to warn the user that it is an untrusted site

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	<u>Muggle Studies</u>
Firenze	<u>Divination</u>
Pomona Sprout	Herbology
Rubeus Hagrid	<u>Care Of Magical Creatures</u>
Aurora Sinistra	Astronomy
Remus Lupin	Defense Against The Dark Arts
Severus Snape	Defense Against The Dark Arts

FilterSelector.html

```
$( "a" ).filter( function() {
  return this.hostname && this.hostname.indexOf( 'wikipedia' ) == -1;
} ).addClass( 'error' );
```

Charity Burbage	Muggle Studies
Firenze	Divination
Rubeus Hagrid	Care Of Magical Creatures

FilterSelector.html

```
$("a").filter(function() {  
  return this.hostname && this.hostname.indexOf('wikipedia') == -1;  
}).addClass('error');
```

“this” refers to the DOM element, check whether the host points to wikipedia

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Charity Burbage	<u>Muggle Studies</u>
Firenze	<u>Divination</u>
Pomona Sprout	Herbology
Rubeus Hagrid	<u>Care Of Magical Creatures</u>
Aurora Sinistra	Astronomy
Remus Lupin	Defense Against The Dark Arts
Severus Snape	Defense Against The Dark Arts

EXAMPLE 7

Chaining.html

Chaining.html

```
<body>
<h3>
    Hogwarts professors and classes
</h3>
<div>
    <table>
        <tr>
            <td> Cuthbert Binns </td>
            <td> History Of Magic </td>
        </tr>
        <tr>
            <td> Gilderoy Lockhart </td>
            <td> Defense Against The Dark Arts </td>
        </tr>
        <tr>
            <td> Charity Burbage </td>
            <td> Muggle Studies </td>
        </tr>
        <tr>
            <td> Alastor Moody </td>
            <td> Defense Against The Dark Arts </td>
        </tr>
        <tr>
            <td> Firenze </td>
            <td> Divination </td>
        </tr>
        <tr>
            <td> Quirinus Quirrell </td>
            <td> Defense Against The Dark Arts </td>
        </tr>
        <tr>
            <td> Rubeus Hagrid </td>
            <td> Care Of Magical Creatures </td>
        </tr>
        <tr>
            <td> Horace Slughorn </td>
            <td> Potions </td>
        </tr>
        <tr>
            <td> Aurora Sinistra </td>
            <td> Astronomy </td>
        </tr>
        <tr>
            <td> Remus Lupin </td>
            <td> Defense Against The Dark Arts </td>
        </tr>
        <tr>
            <td> Severus Snape </td>
            <td> Defense Against The Dark Arts </td>
        </tr>
    </table>
</div>
</body>
```

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Gilderoy Lockhart	Defense Against The Dark Arts
Charity Burbage	Muggle Studies
Alastor Moody	Defense Against The Dark Arts
Firenze	Divination
Quirinus Quirrell	Defense Against The Dark Arts
Rubeus Hagrid	Care Of Magical Creatures
Horace Slughorn	Potions
Aurora Sinistra	Astronomy
Remus Lupin	Defense Against The Dark Arts
Severus Snape	Defense Against The Dark Arts

Chaining.html

Hogwarts professors and classes

```
$(document).ready(function() {  
    $("td:contains('Dark Arts')")  
        .parent()  
        .find('td:eq(0)')  
        .addClass('highlight-name')  
        .end()  
        .find('td:eq(1)')  
        .addClass('highlight-subject');  
});
```

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```

Chaining refers to the fact that methods can be combined one-after-another in a chain

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        .addClass('highlight-subject');  
});
```

Each function returns
a jQuery object

Hogwarts professors and classes

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        .addClass('highlight-subject');  
});
```

to which the next
function can be applied

Hogwarts professors and classes

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        .addClass('highlight-subject');  
});
```

How does this chain work?

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        .addClass('highlight-subject');  
});
```

Select all cells which contain the text “Dark Arts”

Hogwarts professors and classes

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Alastor Moody	Defense Against The Dark Arts
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        .addClass('highlight-subject');  
});
```

Move to the parent
of the cell i.e. the
“tr” element

Hogwarts professors and classes

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        .addClass('highlight-name')  
        .end()  
        .find('td:eq(1)')  
        .addClass('highlight-subject');  
});
```

Within the row find
the first cell i.e the
first “td” element (at
index = 0)

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Gilderoy Lockhart	Defense Against The Dark Arts
Charity Burbage	Muggle Studies
Alastor Moody	Defense Against The Dark Arts
Firenze	Divination
Quirinus Quirrell	Defense Against The Dark Arts
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        .find('td:eq(0)')  
        .addClass('highlight-name')  
        .end()  
        .find('td:eq(1)')  
        .addClass('highlight-subject');  
});
```

Highlight the name
of the teacher

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Gilderoy Lockhart	Defense Against The Dark Arts
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Alastor Moody	Defense Against The Dark Arts
Firenze	Divination
Quirinus Quirrell	Defense Against The Dark Arts
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    $("td:contains('Dark Arts')")  
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        .find('td:eq(0)')  
        .addClass('highlight-name')  
        .end()  
        .find('td:eq(1)')  
        .addClass('highlight-subject');  
});
```

Move back to the parent of the cell (out of the find() function)

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Gilderoy Lockhart	Defense Against The Dark Arts
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Alastor Moody	Defense Against The Dark Arts
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Quirinus Quirrell	Defense Against The Dark Arts
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        .find('td:eq(0)')  
        .addClass('highlight-name')  
        .end()  
        .find('td:eq(1)')  
        .addClass('highlight-subject');  
});
```

Within the row find
the second cell i.e the
second “td” element
(at index = 1)

Hogwarts professors and classes

Cuthbert Binns	History Of Magic
Gilderoy Lockhart	Defense Against The Dark Arts
Charity Burbage	Muggle Studies
Alastor Moody	Defense Against The Dark Arts
Firenze	Divination
Quirinus Quirrell	Defense Against The Dark Arts
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Chaining.html

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        .find('td:eq(0)')  
        .addClass('highlight-name')  
        .end()  
        .find('td:eq(1)')  
        .addClass('highlight-subject');  
});
```

Highlight the cell
which has the
subject

Hogwarts professors and classes

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Charity Burbage	Muggle Studies
Alastor Moody	Defense Against The Dark Arts
Firenze	Divination
Quirinus Quirrell	Defense Against The Dark Arts
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EXAMPLE 8

NoConflict.html

jQuery and all its plugins use
the jQuery namespace on the
window object

The “\$” is a shortcut for jQuery
and is very commonly used

The “\$” is a shortcut for jQuery
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However, it's possible that you're
using other JS libraries in your
code which also use the \$

NoConflict.html

The “\$” is a shortcut for jQuery
and is very commonly used

However, it's possible that you're
using other JS libraries in your
code which also use the \$

These will conflict with jQuery!

These will conflict with jQuery!

In order to let other libraries use
the \$ symbol you can put jQuery
into a no-conflict mode

These will conflict with jQuery!

In order to let other libraries use
the \$ symbol you can put jQuery
into a no-conflict mode

jQuery will then surrender the
use of the \$ and allow other
libraries to use it

These will conflict with jQuery!

In order to let other libraries use
the \$ symbol you can put jQuery
into a no-conflict mode

You can optionally assign
another variable to reference
jQuery instead of the \$

NoConflict.html

```
<title>No Conflicts</title>
<script src="https://ajax.googleapis.com/ajax/libs/prototype/1.7.3.0/prototype.js"></script>
<script src=".../.../lib/jquery.js"></script>
<script>
    $jq = jQuery.noConflict();
    $jq(document).ready(function() {
        $jq('h3').addClass('red-color');
    });

    window.onload = function() {
        // Prototype function equivalent of document.getElementById()
        var el = $("content");
        el.innerHTML = 'Updated content!';
    };

    $jq(document).ready(function($) {
        $('p').addClass('red-color');
    });
</script>
```

NoConflict.html

```
<title>No Conflicts</title>
<script src="https://ajax.googleapis.com/ajax/libs/prototype/1.7.3.0/prototype.js"></script>
<script src=".../.../lib/jquery.js"></script>
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  });

  window.onload = function() {
    // Prototype function equivalent of document.getElementById()
    var el = $("content");
    el.innerHTML = 'Updated content!';
  };
</script>
```

The prototype.js library also uses the § symbol

NoConflict.html

```
<title>No Conflicts</title>
<script src="https://ajax.googleapis.com/ajax/libs/prototype/1.7.3.0/prototype.js"></script>
<script src=".../.../lib/jquery.js"></script>
<script>
  $jq = jQuery.noConflict();
  $jq(document).ready(function() {
    $jq('h3').addClass('red-color');
  });

  window.onload = function() {
    // Prototype function equivalent of document.getElementById()
    var el = $("content");
    el.innerHTML = "I'm the content!";
  };
</script>
```

jQuery is loaded after
prototype.js so it hijacks the \$
symbol from prototype.js

NoConflict.html

```
<title>No Conflicts</title>
<script src="https://ajax.googleapis.com/ajax/libs/prototype/1.7.3.0/prototype.js"></script>
<script src=".../.../lib/jquery.js"></script>
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  window.onload = function() {
    // Prototype function equivalent of document.getElementById()
    var el = $("content");
    el.innerHTML = 'Updated content!';
  };
  $jq(document).ready(function() {
    $('p').addClass('red-color');
  });
</script>
```

Let's fix this by moving jQuery into no-conflict mode

```
<title>No Conflict</title>
<script src="http://ajax.googleapis.com/ajax/libs/prototype/1.7.3.0/prototype.js"></script>
<script src="../../lib/jquery.js"></script>
<script>
  $jq = jQuery.noConflict();
  $jq(document).ready(function() {
    $jq('h3').addClass('red-color');
  });

  window.onload = function() {
    // Prototype function equivalent of document.getElementById()
    var el = $("content");
    el.innerHTML = 'Updated content!';
  };

  $jq(document).ready(function($) {
    $('p').addClass('red-color');
  });
</script>
```

This moves jQuery into no-conflict mode

```
<title>No Conflict</title>
<script src="http://ajax.googleapis.com/ajax/libs/prototype/1.7.3.0/prototype.js"></script>
<script src="../../lib/jquery.js"></script>
<script>
  $jq = jQuery.noConflict();
  $jq(document).ready(function() {
    $jq('h3').addClass('red-color');
  });

  window.onload = function() {
    // Prototype function equivalent of document.getElementById()
    var el = $("content");
    el.innerHTML = 'Updated content!';
  };

  $jq(document).ready(function($) {
    $('p').addClass('red-color');
  });
</script>
```

This has to be called immediately
after jQuery is loaded

```
<title>No Conflict</title>
<script src="http://ajax.googleapis.com/ajax/libs/prototype/1.7.3.0/prototype.js"></script>
<script src="../../lib/jquery.js"></script>
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        var el = $("content");
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    };

    $jq(document).ready(function($) {
        $('p').addClass('red-color');
    });
</script>
```

\$.jq is a variable that can be used
in place of \$

```
<title>No Conflict</title>
<script src="http://ajax.googleapis.com/ajax/libs/prototype/1.7.3.0/prototype.js"></script>
<script src="../../lib/jquery.js"></script>
<script>
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  window.onload = function() {
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    var el = $("content");
    el.innerHTML = 'Updated content!';
  };

  $jq(document).ready(function($) {
    $('p').addClass('red-color');
  });
</script>
```

Notice how we use `$jq`
instead of `$`

NoConflict.html

```
$jq = jQuery.noConflict();
$jq(document).ready(function() {
  $jq('h3').addClass('red-color');
});
```

```
window.onload = function() {
  // Prototype function equivalent of document.getElementById()
  var el = $("content");
  el.innerHTML = 'Updated content!';
};
```

In the no-conflict mode you can still continue to use the \$ from the prototype.js library

NoConflict.html

```
$jq = jQuery.noConflict();
$jq(document).ready(function() {
    $jq('h3').addClass('red-color');
});

window.onload = function() {
    // Prototype function equivalent of document.getElementById()
    var el = $("content");
    el.innerHTML = 'Updated content!';
};
```

This is equivalent to
document.getElementById() in
prototype.js

NoConflict.html

```
var el = $("content")
el.innerHTML = "Content loaded after document ready"
};

$jq(document).ready(function($){
  $('p').addClass('red-color');
});

</script>
```

To use the `$` for jQuery in the no-conflict mode you can pass it as an argument to your `ready()` function

NoConflict.html

```
var el = $("content")
el.innerHTML = "Content loaded after jQuery"
});  
  
$jq(document).ready(function ($) {  
    $('p').addClass('red-color');  
});  
</script>
```

You get the best of both worlds!
Within jQuery, `$` will refer to jQuery
and will refer to the prototype object
elsewhere in the code

JQUERY

Accessing the native DOM element

Accessing the native DOM element

```
var el = $('div').get(0);
```

A jQuery object holding a collection of `<div>` elements selected from the page

Accessing the native DOM element

```
var el = $('div').get(0);
```

Get the native browser DOM
element by index

Accessing the native DOM element

```
var el = $('div')[0];
```

Square brackets can be used as a
shortcut to access the elements
by index