

The jQuery logo consists of the word "jQuery" in a bold, lowercase, sans-serif font. The letter "j" is stylized with three concentric arcs above it.

WRITE LESS.

DO MORE.

WHO AM I?



Engine
Yard™

merb

DataMapper



WHAT IS JQUERY?

UNDETRUSIVE


```
h1 {  
    color: #999;  
}
```

CSS

```
h1 {  
    color: #999;  
}
```

```
h1 {  
    color: #999;  
}
```

JS WITH JQUERY

```
$(“h1”).click(function() {  
    $(this).fadeIn();  
});
```


WHY DO WE LIKE CSS?

REUSABLE STYLES

CHANGE-ONCE,
CHANGE-EVERYWHERE

WE GOT OVER

WHY SHOULD YOU LIKE UJS?

SAME REASONS

APPLICATION-WIDE

BEHAVIOR

CHANGE-ONCE,
CHANGE EVERYWHERE

WE'RE OVER ONCLICK=

IN SHORT...

IF YOU LIKE CSS, YOU'LL LIKE UDS

JAVASCRIPT CAN BE FUN!

JQUERY'S CORE PHILOSOPHY

GET SOME ELEMENTS.

DO SOME STUFF.

SOME PEOPLE*

* JEREMY KEITH

SOME PEOPLE*

* JEREMY KEITH

SOME PEOPLE* CALL IT
DOM-SCRIPTING.

* JEREMY KEITH IN HIS BOOK:
DOM-SCRIPTING

GET SOME ELEMENTS.

BUT HOW?

DID I MENTION C88?

CSS 3 PLUS

CSS 3 PLUS

- div
- div#foo
- div.class
- div, p, a
- div p
- div > p
- div + p
- div ~ p
- div:first
- div:last
- div:not(#foo)
- div:even
- div:odd
- div:eq(1)
- div:gt(1)
- div:lt(1)
- div:header
- div:animated
- div:contains(txt)
- div:empty
- div:has(p)
- div:parent
- div:hidden
- div:visible

CSS 3 PLUS

CSS 3 PLUS

CSS 3 PLUS

- div[foo]
- div[foo=bar]
- div[foo!=bar]
- div[foo^=bar]
- div[foo\$=bar]
- div[foo*=bar]
- :nth-child(2)
- :nth-child(even)
- :first-child
- :last-child
- :only-child
- :input
- :text
- :password
- :radio
- :checkbox
- :submit
- :image
- :reset
- :button
- :file
- :hidden
- :enabled
- :disabled
- :checked
- :selected

CSS 3 PLUS

GET SOME ELEMENTS.


```
$(`“table tr:nth-child(even)> td:visible”)
```


DO STUFF.

`$("div")`

RETURNS JQUERY OBJECT

`$("div").fadeIn()`

RETURNS JQUERY OBJECT


```
$("div").fadeIn()  
.css("color", "green")
```

RETURNS JQUERY OBJECT

WE CALL THIS CHAINING

CRAZY CHAINS

CRAZY CHAINS

```
$(“ul.open”) // [ ul, ul, ul ]
    .children(“li”) // [ li, li, li ]
        .addClass(“open”) // [ li, li, li]
    .end() // [ ul, ul, ul ]
    .find(“a”) // [ a, a, a ]
        .click(function(){
            $(this).next().toggle();
            return false;
        }) // [ a, a, a ]
    .end(); // [ ul, ul, ul ]
```


5 PARTS OF JQUERY

DOM

EVENTS

EFFECTS

AJAX

PLUGINS

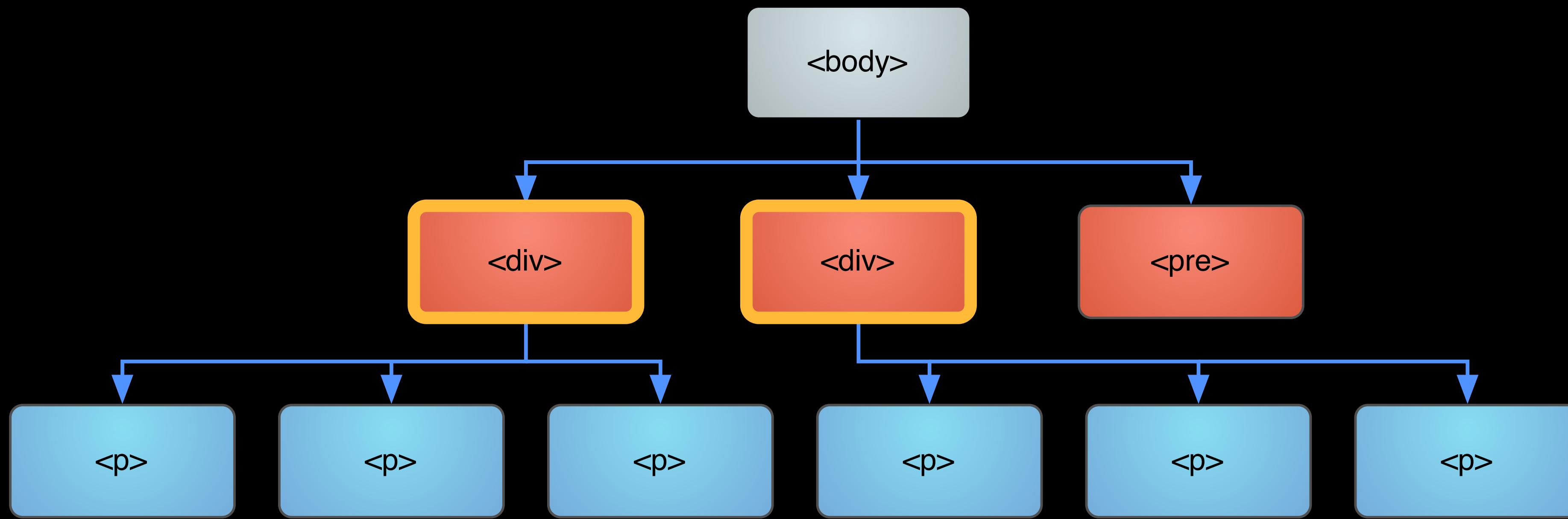
DOM

DOM TRAVERSAL

```
$("div").parent();  
$("div").siblings();  
$("div").next();  
$("div").nextAll("p");  
$("div").nextAll("p:first");
```

DOM

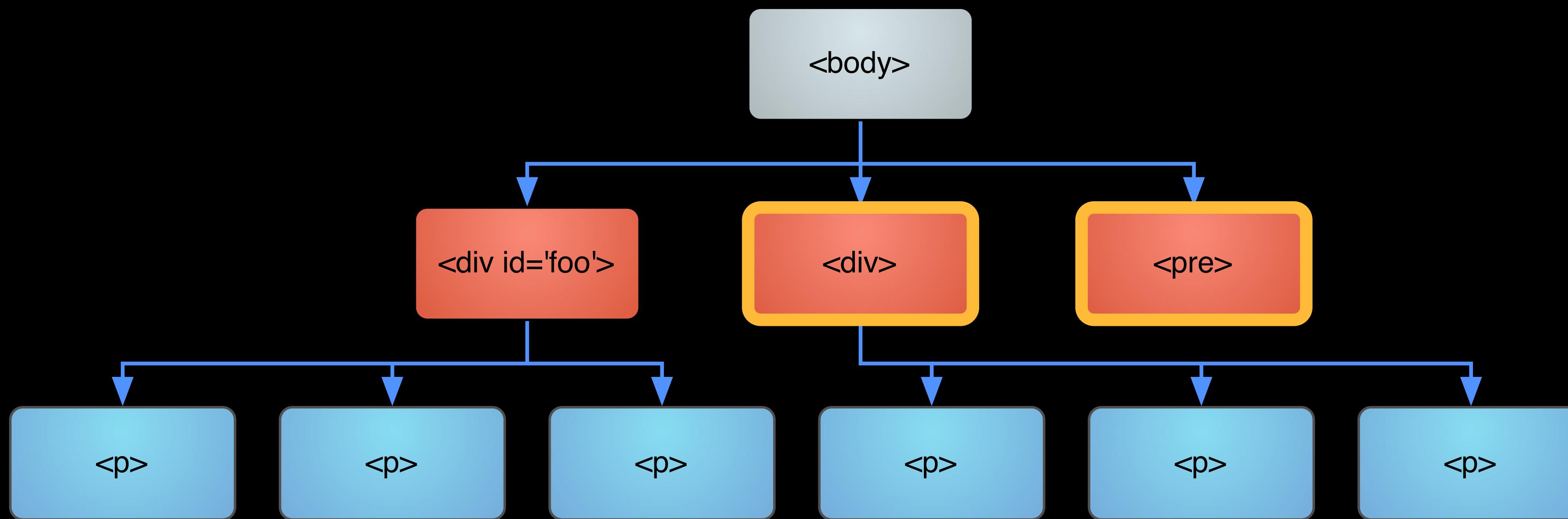
\$(“DIV”)



DOM

DOM

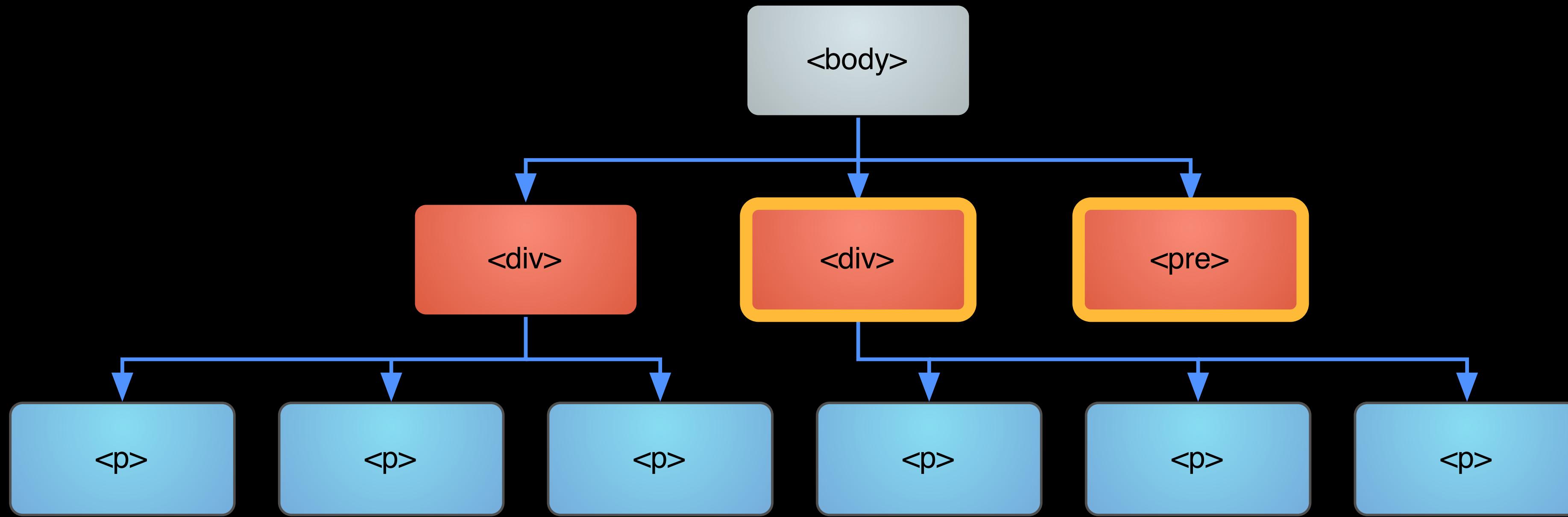
\$(“DIV#FOO”).SIBLING()



DOM

DOM

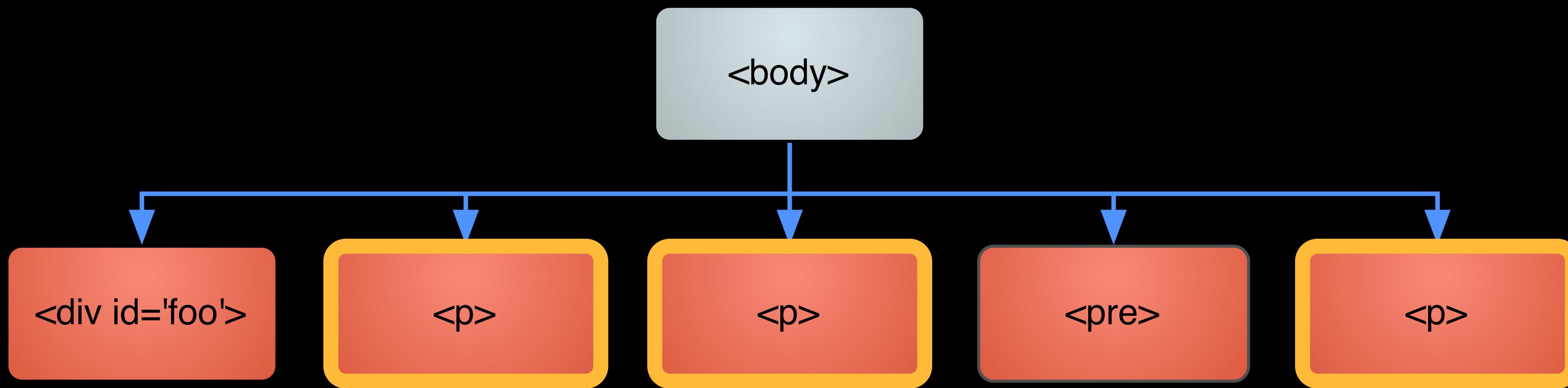
`$("DIV").NEXT()`



DOM

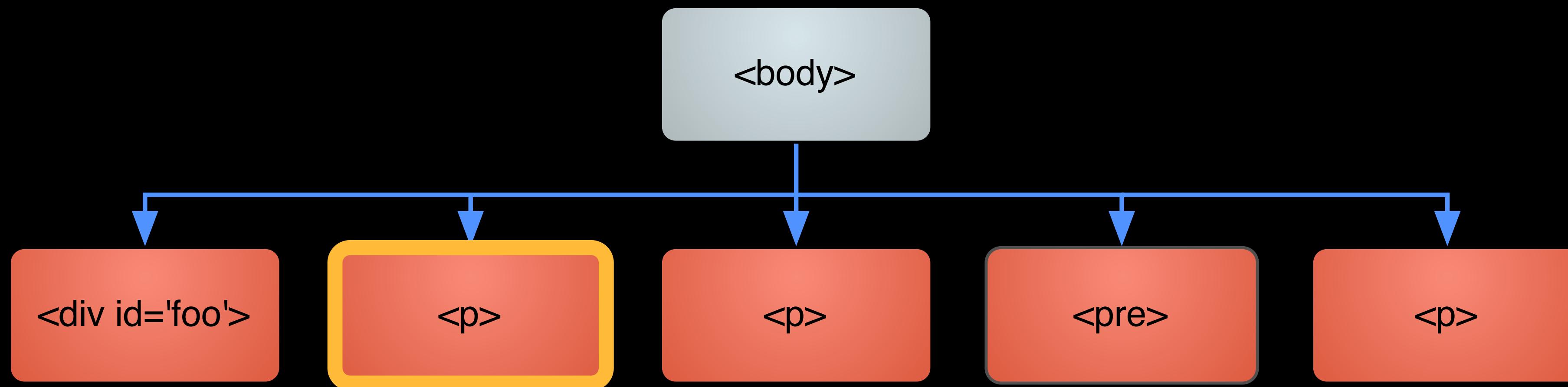
DOM

`$(“DIV”).NEXTALL(“P”)`



DOM

`$("div").nextAll("p:first")`



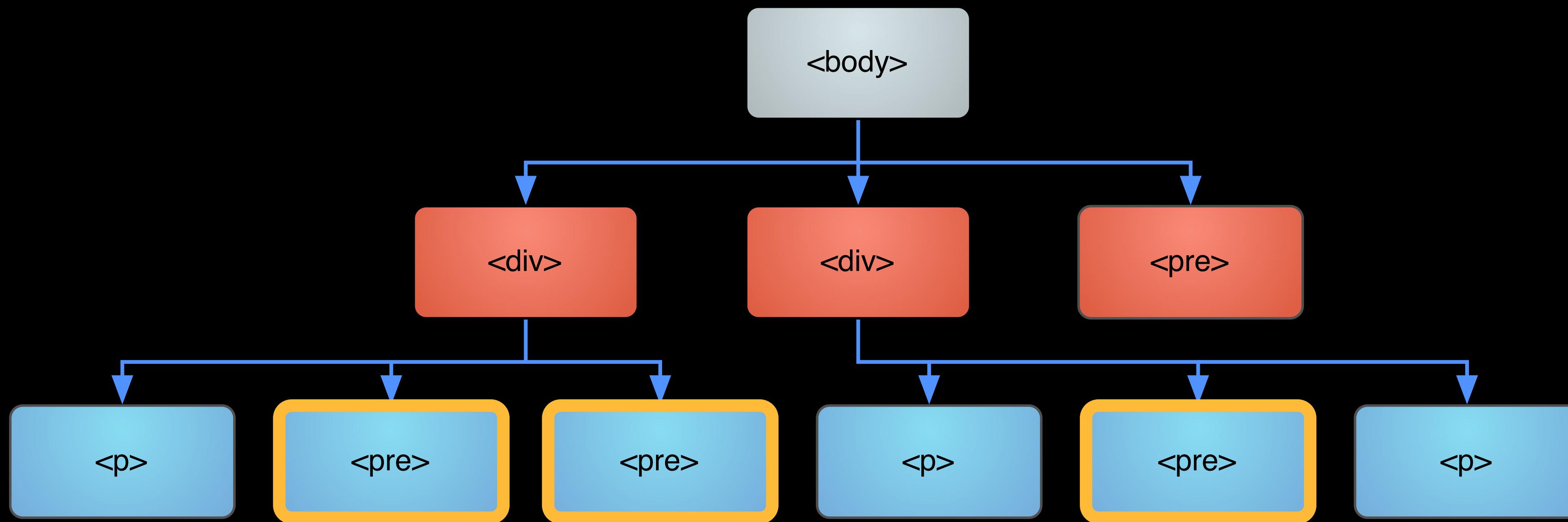
DOM

FIND

```
$(“div pre”)  
$(“div”).find(“pre”)
```

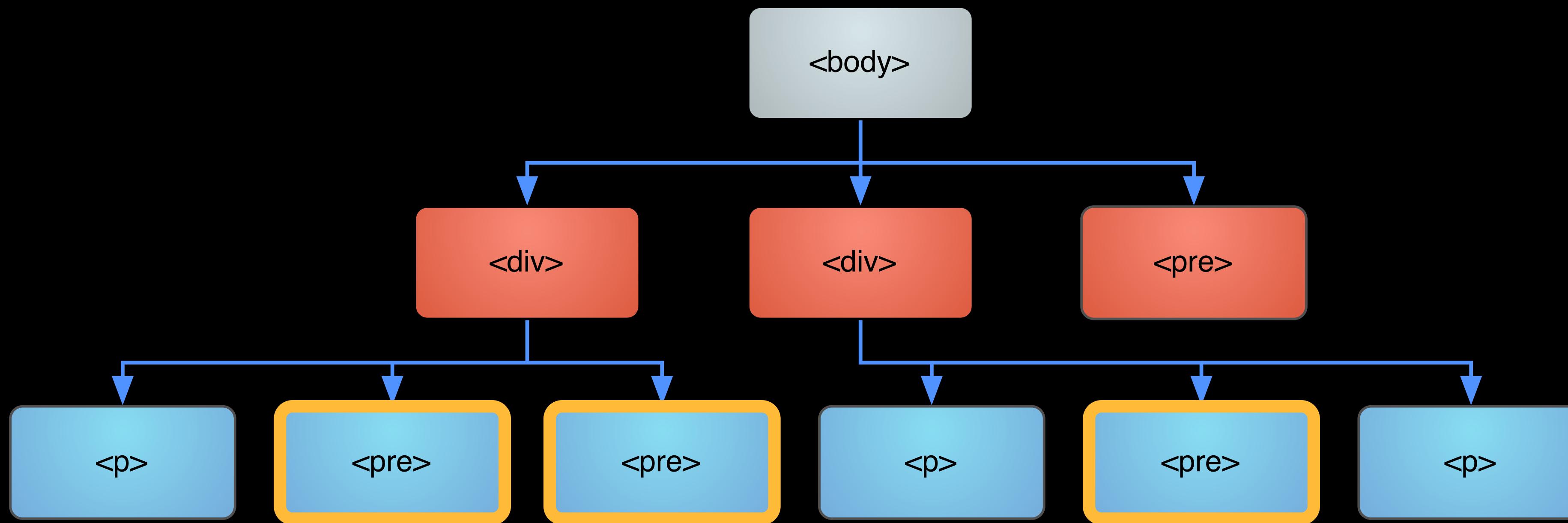
DOM

Si "DIV PRE"



DOM

`$("DIV").find("PRE")`



DOM

FILTER

```
$("div:contains(some text)")  
$("div").filter(":contains(some text)")  
  
$("div").filter(function() {  
    return $(this).text().match("some text")  
})
```

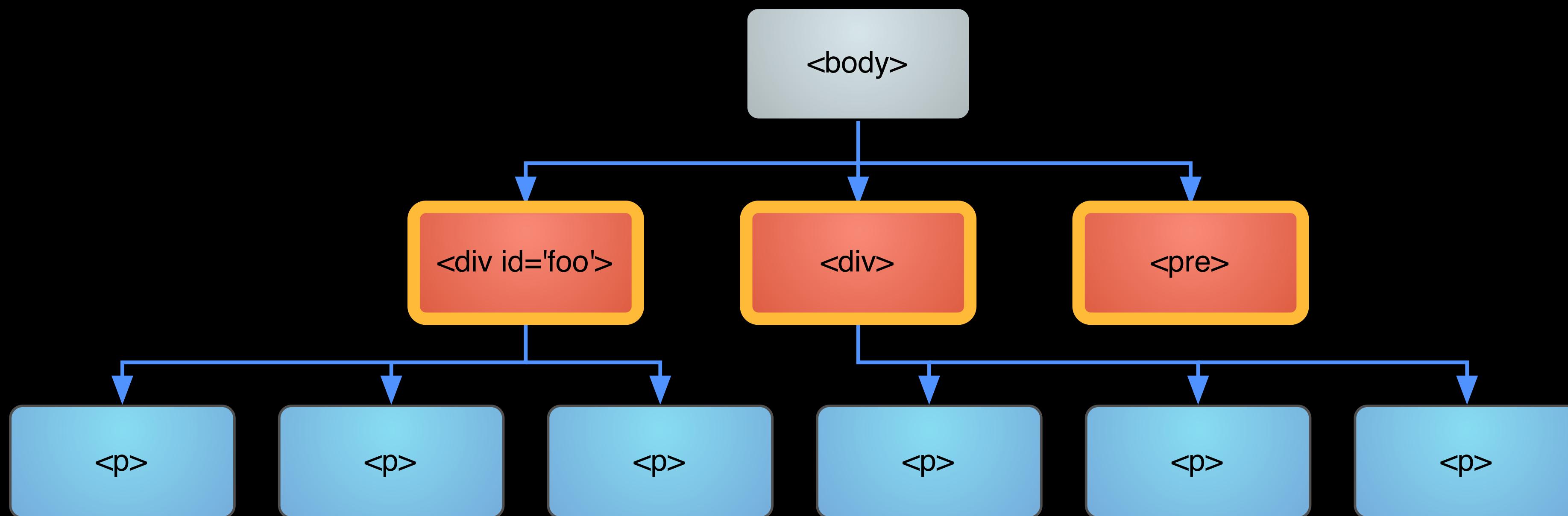
DOM

ANDSELF

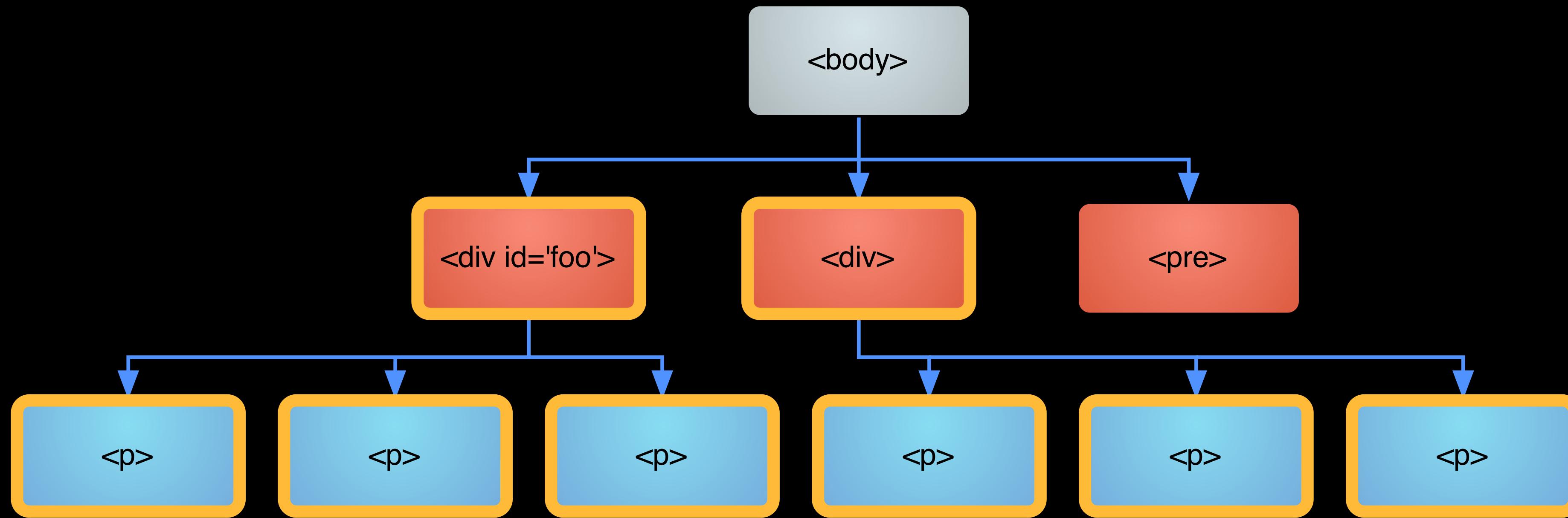
```
$(“div”).siblings().andSelf()  
$(“div”).parent().andSelf()
```

DOM

`s("div").siblings().andSelf()`

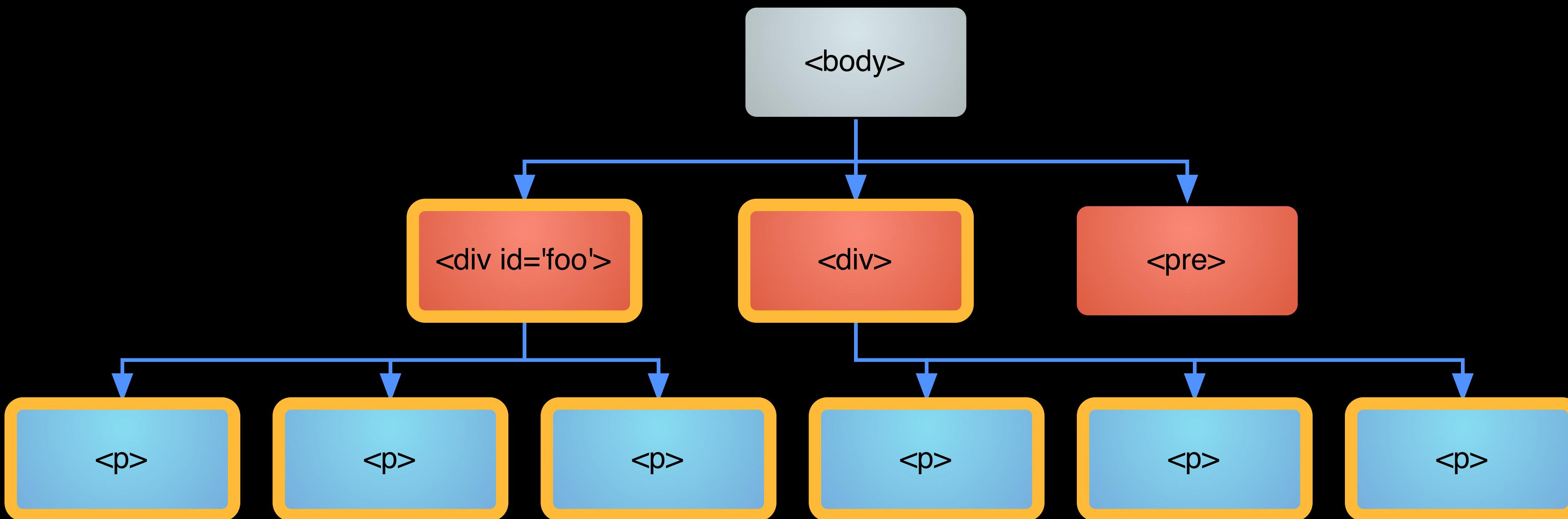


DOM



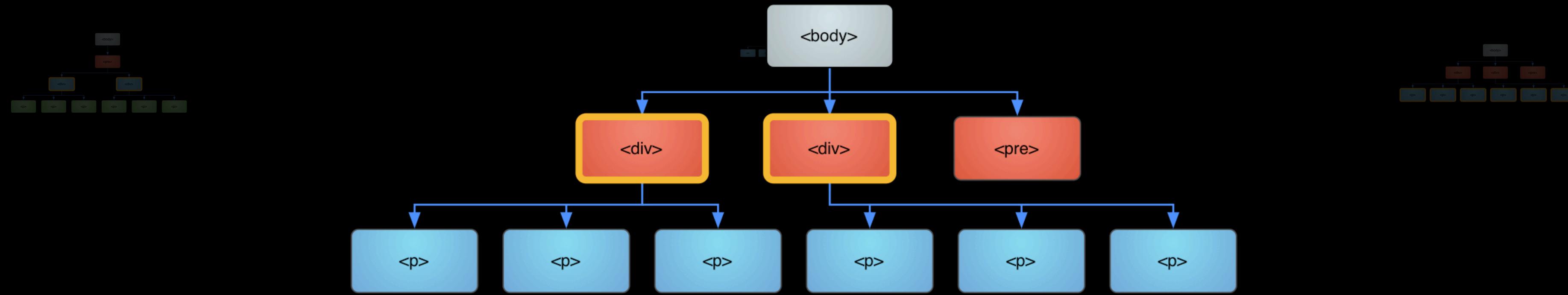
DOM

`$(“P”).PARENT().ANDSELF()`



DOM

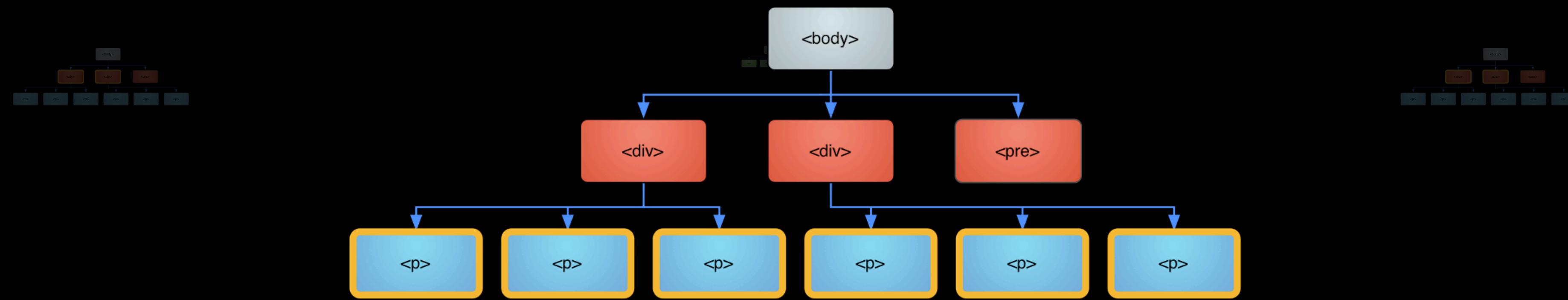
ENDO



`$("div")`

DOM

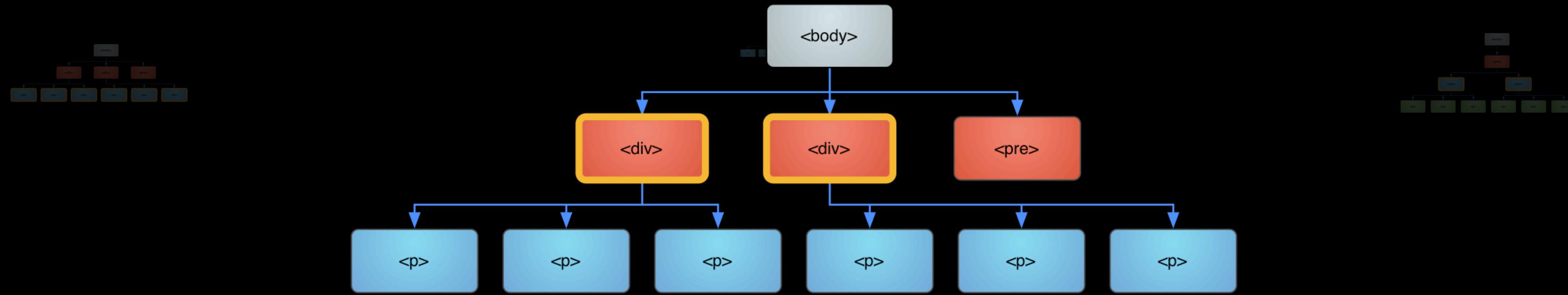
ENDO



`$("DIV").find("P")`

DOM

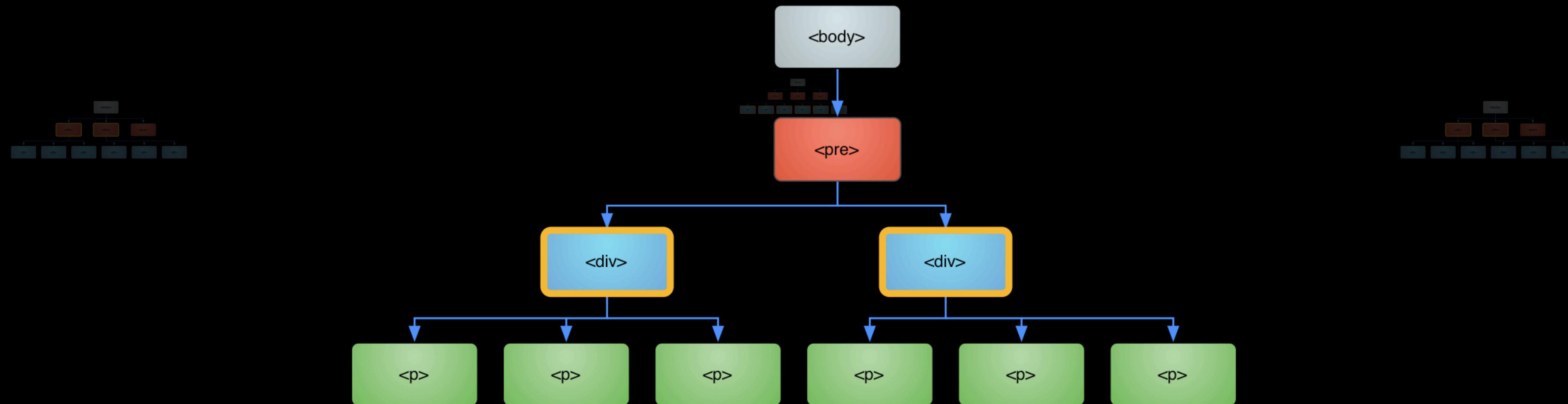
ENDO



`$("div").find("p").end()`

DOM

ENDO



```
$("DIV").find("P").endo.appendTo("PRE")
```

DOM

DOM

ATTRIBUTES

```
$("div").attr("id") // returns id  
$("div").attr("id", "hello") // sets id to hello  
$("div").attr("id", function() { return this.name })  
$("div").attr({id: "foo", name: "bar"})  
$("div").removeAttr("id");
```

DOM

CLASSES

```
$("div").addClass("foo")  
$("div").removeClass("foo")  
$("div").toggleClass("foo")  
$("div").hasClass("foo")
```

DOM

OTHER

```
$(“div”).html()  
$(“div”).html(“<p>Hello</p>”)  
$(“div”).text()  
$(“div”).text(“Hello”)  
$(“div”).val()  
$(“div”).val(“Hello”)
```


NOTICING A PATTERN?

DOM

MANIPULATION

```
$("div").append("<p>Hello</p>")  
 $("<p>Hello</p>").appendTo("div")  
 $("div").after("<p>Hello</p>")  
 $("<p>Hello</p>").insertAfter("div")
```

DOM

WAY MORE...

[HTTP://DOCS.JQUERY.COM](http://docs.jquery.com)

DOM

5 PARTS OF JQUERY

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PLUGINS

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DOCUMENT READY

DOCUMENT READY

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

Alias: `$(function() { ... })`

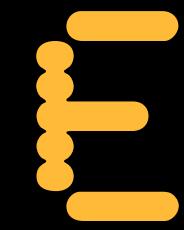
BIND

```
$(“div”).bind(“click”, function() { ... })
```

```
Alias: $(“div”).click(function() { ... })
```


“THIS”

REFERS TO THE ELEMENT BOUND

A yellow, stylized letter 'E' composed of three horizontal bars of decreasing length from top to bottom, with small circles at the intersections.

```
$(“div”).click(function(e) { ... })
```


CORRECTED EVENT OBJECT

Property	Correction
target	The element that triggered the event (event delegation)
relatedTarget	The element that the mouse is moving in (or out) of
pageX/Y	The mouse cursor relative to the document
which	mouse: 1 (left) 2 (middle) 3 (right)
	keypress: The ASCII value of the text input
metaKey	Control on Windows and Apple on OSX

TRIGGER

```
$(“div”).trigger(“click”)  
Alias: $(“div”).click()
```


TRIGGERHANDLER

DOESN'T TRIGGER THE BROWSER'S DEFAULT ACTIONS

CUSTOM EVENTS

```
$(“div”).bind(“myEvent”, function() { ... })  
$(“div”).trigger(“myEvent”)
```


HOVER

```
$(“div”).hover(function() { ... }, function() { ... })
```


TOGGLE

```
$(“div”).toggle(function() { . . . }, function() { . . . })
```

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FADES

```
$(“div”).fadeIn()  
$(“div”).fadeOut(“slow”)
```


SLIDES

```
$(“div”).slideUp(200)  
$(“div”).slideDown(“slow”)
```


ANIMATE

```
$(“div”).animate({height: “toggle”, opacity: “toggle”})  
$(“div”).animate({fontSize: “24px”, opacity: 0.5}, {easing: “expo”})
```

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MAKE EASY THINGS EASY

```
$(“div”).load(“some_url”);  
$(“div”).load(“some_url”, {data: “foo”},  
function(text) { ... });
```


IT'S EASY TO DO IT RIGHT

```
$.getJSON("some_url", function(json) { ... })  
$.getJSON("some_url", {data: "foo"},  
         function(json) { ... })
```


IT'S CONSISTENT

```
$.get("some_url", function(text) { ... })  
$.post("some_url", {data: "foo"},  
      function(text) { ... })
```


AND POWERFUL

SAJAX OPTIONS

- `async`
- `beforeSend`
- `cache`
- `complete`
- `contentType`
- `data`
- `dataType`
- `error`
- `global`
- `ifModified`
- `jsonp`
- `processData`
- `success`
- `timeout`
- `type`

AND POWERFUL

AND POWERFUL

GLOBAL AJAX SETTINGS

```
/* No Ajax requests exist, and one starts */
$("div.progress").ajaxStart(function() { $(this).show() });

/* The last Ajax request stops */
$("div.progress").ajaxStop(function() { $(this).hide() });

/* Any Ajax request is sent */
$("p").ajaxSend(function() { ... });

/* Any Ajax request completes (success or failure) */
$("div").ajaxComplete(function() { ... });

/* Any Ajax request errors out */
$("div").ajaxError(function() { ... });

/* Any Ajax request succeeds */
$("div").ajaxSuccess(function() { ... });
```

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THERE ARE HUNDREDS

WHICH ARE IMPORTANT?

JQUERY UI

- Draggables
- Droppables
- Sortables
- Selectables
- Resizables

Primitives

- Accordion
- Date Picker
- Dialog
- Slider
- Tabs

Widgets

[HTTP://UI.JQUERY.COM](http://ui.jquery.com)



JQUERY ENCHANT

IMPROVEMENTS TO OUR CORE ANIMATION

[HTTP://UI.JQUERY.COM/ENCHANT](http://ui.jquery.com/enchant)

JQUERY FORMS

AJAXIFY A FORM IN ONE EASY STEP:

```
$("form.remote").ajaxForm()
```

[HTTP://WWW.MALSUP.COM/JQUERY/FORM/](http://www.malsup.com/jquery/form/)

FORM VALIDATION

SPECIFY VALIDATION RULES IN YOUR MARKUP

[HTTP://BASSISTANCE.DE/JQUERY-
PLUGINS/JQUERY-PLUGIN-VALIDATION/](http://bassistance.de/jquery-plugins/jquery-plugin-validation/)



METADATA PLUGIN

SPECIFY METADATA FOR ELEMENTS IN MARKUP

```
<DIV DATA="{SOME: 'DATA'}">  
$(“DIV”).METADATAO.SOME // RETURNS ‘DATA’
```

[HTTP://JQUERYJS.GOOGLECODE.COM/SVN/](http://jqueryjs.googlecode.com/svn/trunk/plugins/metadata/)

[TRUNK/PLUGINS/METADATA/](http://jqueryjs.googlecode.com/svn/trunk/plugins/metadata/)

WHO'S USING JQUERY?

WHO, YOU ASK?

- Google
- Dell
- NBC
- CBS
- MSNBC
- Bank of America
- BBC
- Reuters
- Digg
- Business Week
- Newsweek
- Amazon
- Intel
- Oracle
- Cisco
- Slashdot
- Technorati
- Sourceforge

HOT ENOUGH?

- Intuit
- American Eagle
- Salesforce
- Newsgator
- Boston Globe
- New York Post
- Miami Herald
- The Food Network
- The Onion
- Feedburner
- WB Records
- Def Jam Records
- AOL
- Classmates.com
- Fandango
- Pandora
- Vodafone
- Ars Technica

YOU SAY YOU WANT MORE?

- Linux.com
- Super Smash Bros.
- Barack Obama
- Joost
- iFilm.com
- Mozilla
- Wordpress
- PEAR
- Trac
- Zend
- Hackety Hack
- Joomla
- Age of Empires 3
- myYearbook.com
- REI
- Poker Room
- isoHunt
- Ask a Ninja

GET A COMPLETE LIST AT

[HTTP://DOCS.JQUERY.COM/SITES_USING_JQUERY](http://docs.jquery.com/SITES_USING_JQUERY)

THIS IS ONLY THE
BEGINNING

THANK YOU.