# 



# Searching the DOM



### Selecting descendants

### **HTML** document

How do we find the elements that are inside of the with a "destinations" ID?



descendant selector

### Using the descendant selector

### **HTML** document

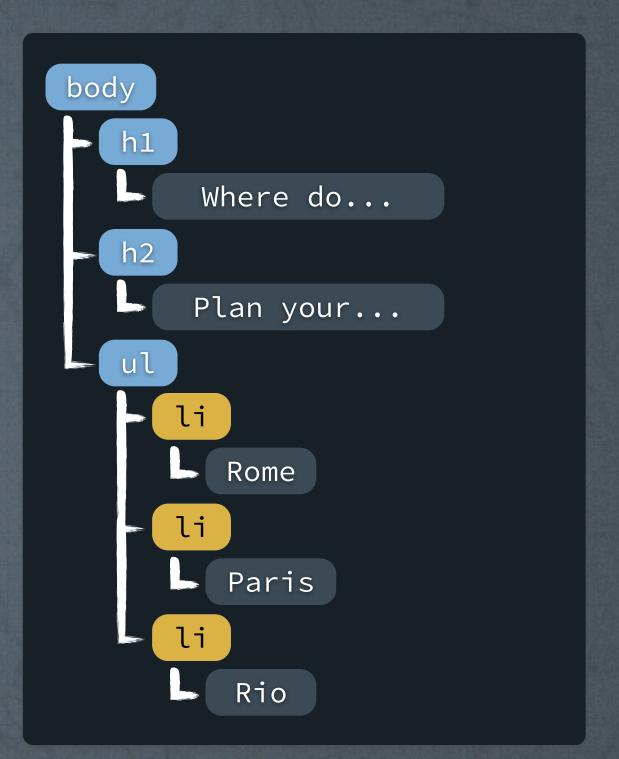
the space matters

```
$("#destinations li");
```

parent

descendant

# 2.1 Searching the DOM





### Selecting direct children

### **HTML** document

How do we find only the elements that are children of the "destinations" ?

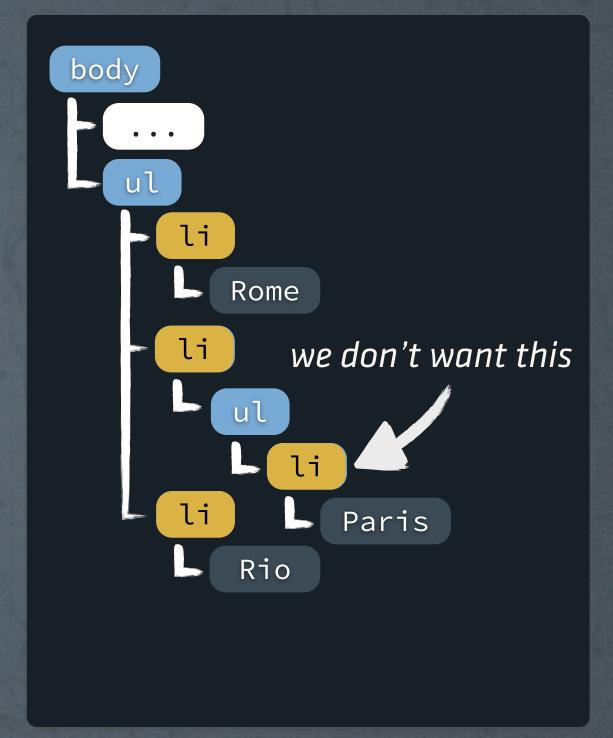


descendant selector?

### Selecting direct children

### **HTML** document

```
$("#destinations li");
```



### Selecting only direct children

### **HTML** document

How do we find only the elements that are direct children of the "destinations" then?



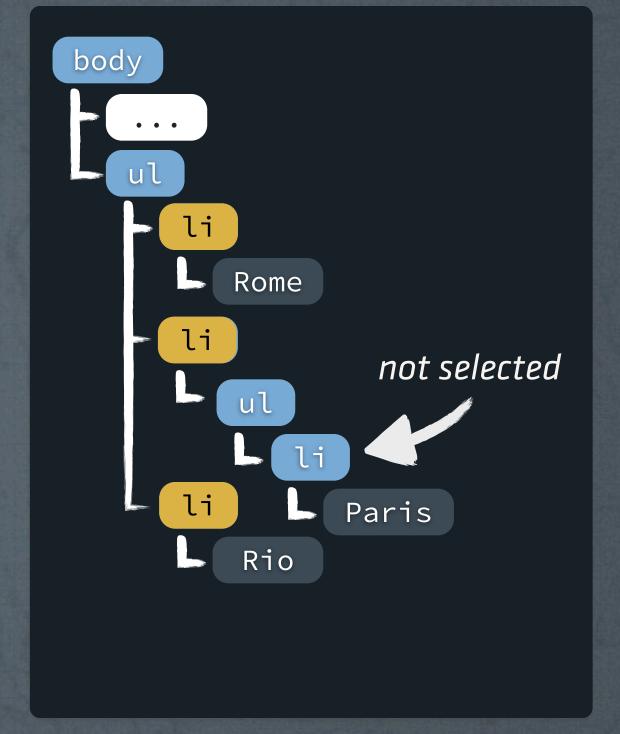
child selector

### Selecting only direct children

### **HTML** document

the sign matters

```
$("#destinations > li");
```



### Selecting multiple elements

### **HTML** document

How do we find only elements with either a "promo" class or a "france" ID



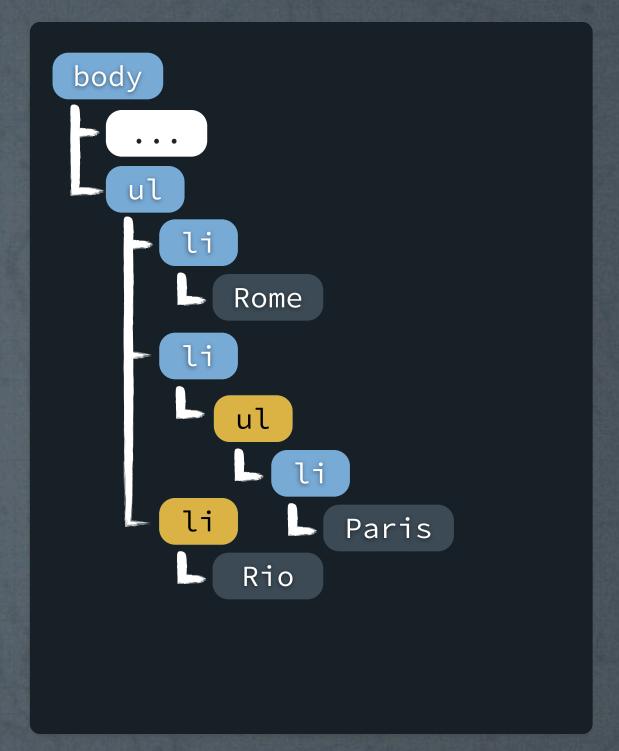
multiple selector

### Selecting multiple elements

### **HTML** document

the comma matters

```
$(".promo, #france");
```





### CSS-like pseudo classes

```
$("#destinations li:first");
                                                      body
                                                              Where do...
$("#destinations li:last");
              filter
                                                             Plan your...
                                                               Rome
                                                               Paris
                                                                Rio
```

### CSS-like pseudo classes

```
$("#destinations li:odd");
                                                     body
                                                            Where do...
  $("#destinations li:even");
                                                            Plan your...
                                                     #0
                                                              Rome
                                                     #1
                                                              Paris
watch out, the index starts at 0
                                                              Rio
```

2.1 Searching the DOM

TRY JQUETY



# Traversing

# Walking the DOM by traversing it

### **HTML** document

Can we find all the elements that the "destinations" list contains without using a descendant selector?



filter by traversing

# Filtering by traversing

```
$("#destinations li");
$("#destinations").find("li");
      selection
                   traversal
```

It takes a bit more code, but it's faster.

```
body
        Where do...
       Plan your...
         Rome
         Paris
          Rio
```

# Filtering by traversing

```
$("li:first");
```

```
$("li").first();
```

```
body
       Where do...
       Plan your...
         Rome
         Paris
         Rio
```

# Filtering by traversing

```
$("li:last");
```

```
$("li").last();
```

```
body
       Where do...
       Plan your...
         Rome
         Paris
         Rio
```

### **HTML** document

Can we find the middle list item, knowing there is no filter to find it unlike :first or :last?



traversing

```
$("li").first();
```

```
body
       Where do...
       Plan your...
   ul
         Rome
         Paris
         Rio
```

```
$("li").first();
```

```
$("li").first().next();
```

```
body
       Where do...
       Plan your...
         Rome
         Paris
         Rio
```

```
$("li").first();

$("li").first().next();

$("li").first().next().prev();
```

```
body
       Where do...
       Plan your...
         Rome
         Paris
         Rio
```

### **HTML** document

If we started by selecting a child, can we figure out what element is its direct parent?



traversing up

```
$("li").first();
```

```
body
       Where do...
       Plan your...
         Rome
         Paris
         Rio
```

```
$("li").first();

$("li").first().parent();
```

```
body
       Where do...
       Plan your...
   ul
         Rome
         Paris
          Rio
```

### Walking down the DOM

### HTML document

With a parent that has many children who in turn have their own children, how could we find only the first generation of children?



traversing down

# Walking the DOM up and down

```
$("#destinations").children("li");
```

children(), unlike find(), only selects direct children

```
body
       id="destinations"
         Rome
                Paris
          Rio
```