# Selecting descendants

**HTML document**

```html
<h1>Where do you want to go?</h1>
<h2>Travel Destinations</h2>
<p>Plan your next adventure.</p>
<ul id="destinations">
   <li>Rome</li>
   <li>Paris</li>
   <li class='promo'>Rio</li>
</ul>
```

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

🔍 descendant selector

TRY jQuery

# Using the descendant selector

**HTML document**

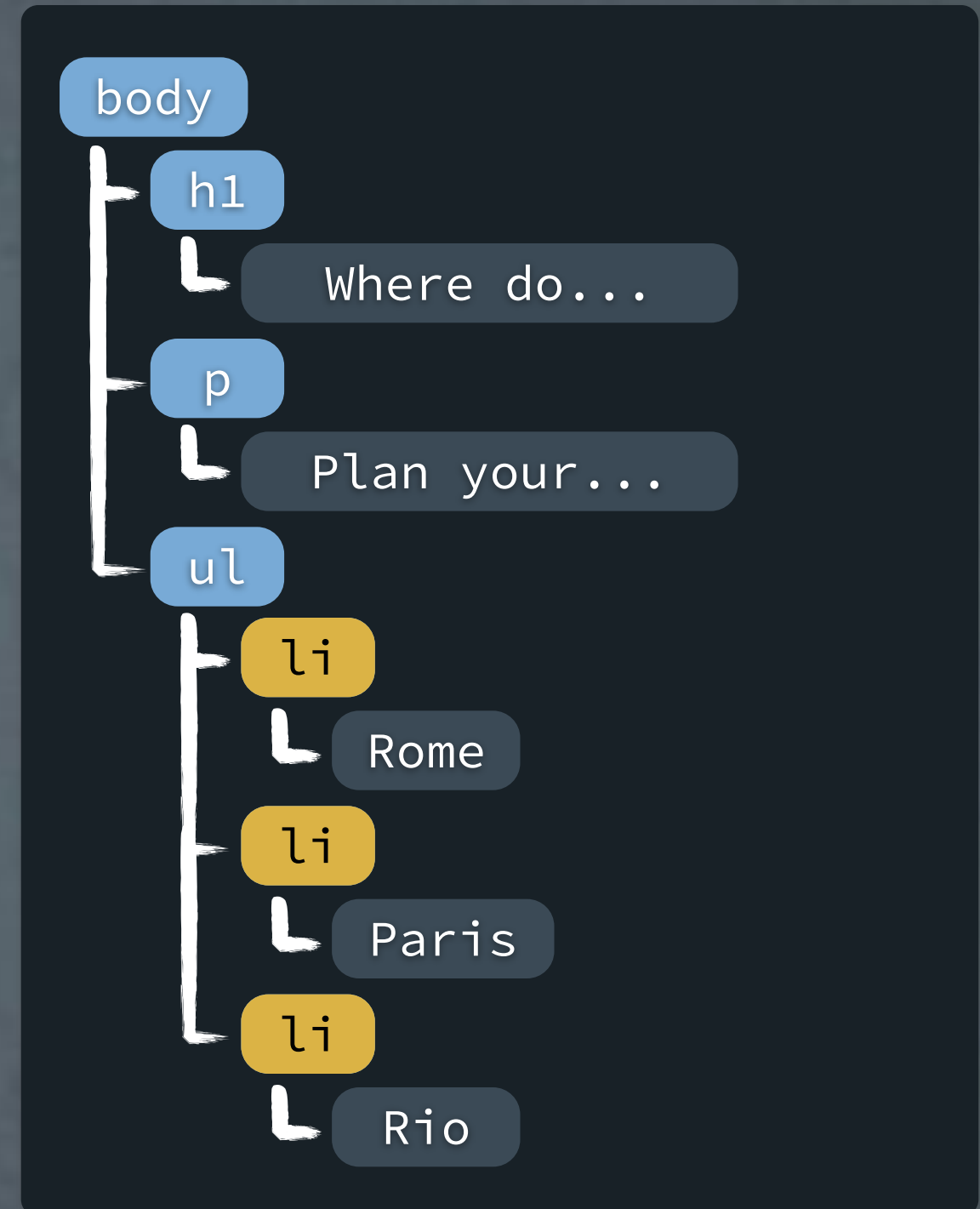```
<h1>Where do you want to go?</h1>
<h2>Travel Destinations</h2>
<p>Plan your next adventure.</p>
<ul id="destinations">
   <li>Rome</li>
   <li>Paris</li>
   <li class='promo'>Rio</li>
</ul>
```

*the space matters*

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

*parent*   *descendant*

## 2.1 Searching the DOM

body
├─ h1
│    └─ Where do...
├─ p
│    └─ Plan your...
└─ ul
     ├─ li
     │    └─ Rome
     ├─ li
     │    └─ Paris
     └─ li
          └─ Rio

TRY jQuery

# Selecting direct children

**HTML document**

```html
<h1>Where do you want to go?</h1>
<h2>Travel Destinations</h2>
<p>Plan your next adventure.</p>
<ul id="destinations">
  <li>Rome</li>
  <li>
    <ul id="france">
      <li>Paris</li>
    </ul>
  </li>
  <li class='promo'>Rio</li>
</ul>
```

How do we find only the <li> elements that are children of the "destinations" <ul>?

🔍 descendant selector?

TRY jQuery

# Selecting direct children

**HTML document**

```html
<h1>Where do you want to go?</h1>
<h2>Travel Destinations</h2>
<p>Plan your next adventure.</p>
<ul id="destinations">
  <li>Rome</li>
  <li>
    <ul id="france">
      <li>Paris</li>
    </ul>
  </li>
  <li class='promo'>Rio</li>
</ul>
```
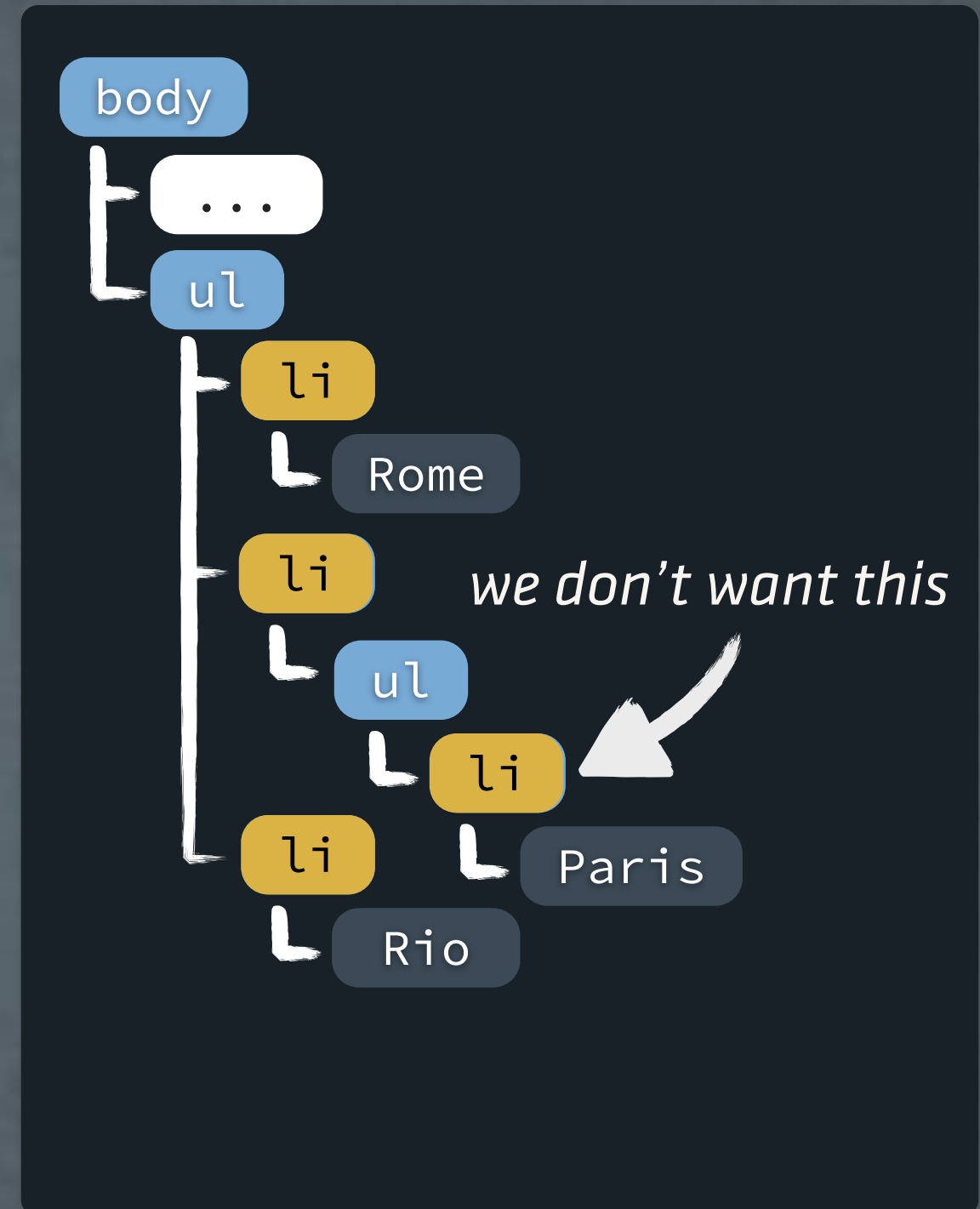
```
$("#destinations li");
```



body
... 
ul
li
Rome
li
ul
*we don't want this*
li
Paris
li
Rio

## 2.1 Searching the DOM

tryjQuery

# Selecting only direct children

**HTML document**

```html
<h1>Where do you want to go?</h1>
<h2>Travel Destinations</h2>
<p>Plan your next adventure.</p>
<ul id="destinations">
  <li>Rome</li>
  <li>
    <ul id="france">
      <li>Paris</li>
    </ul>
  </li>
  <li class='promo'>Rio</li>
</div>
```

How do we find only the <li> elements that are **direct** children of the "destinations" <ul> then?

🔍 child selector

TRY jQuery

# Selecting only direct children

**HTML document**

```html
<h1>Where do you want to go?</h1>
<h2>Travel Destinations</h2>
<p>Plan your next adventure.</p>
<ul id="destinations">
  <li>Rome</li>
  <li>
    <ul id="france">
      <li>Paris</li>
    </ul>
  </li>
  <li class='promo'>Rio</li>
</ul>
```
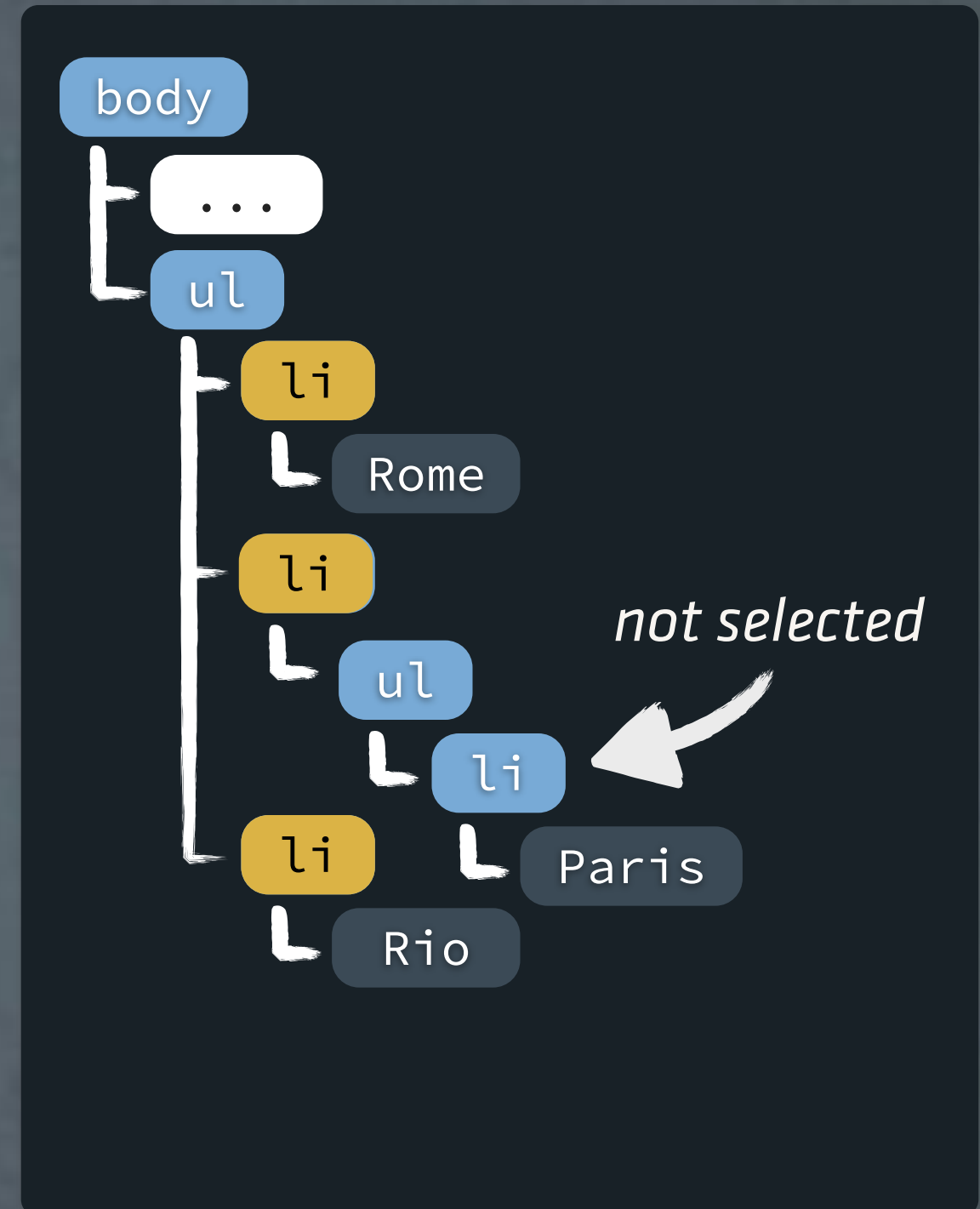
*the sign matters*

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

*parent*          *child*

body

...

ul

li

Rome

li

ul

*not selected*

li

Paris

li

Rio

**TRY jQuery**

# Selecting multiple elements

**HTML document**

```html
<h1>Where do you want to go?</h1>
<h2>Travel Destinations</h2>
<p>Plan your next adventure.</p>
<ul id="destinations">
  <li>Rome</li>
  <li>
    <ul id="france">
      <li>Paris</li>
    </ul>
  </li>
  <li class='promo'>Rio</li>
</ul>
```

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

🔍 multiple selector

TRY jQuery

# Selecting multiple elements

**HTML document**

```html
<h1>Where do you want to go?</h1>
<h2>Travel Destinations</h2>
<p>Plan your next adventure.</p>
<ul id="destinations">
  <li>Rome</li>
  <li>
    <ul id="france">
      <li>Paris</li>
    </ul>
  </li>
  <li class='promo'>Rio</li>
</ul>
```
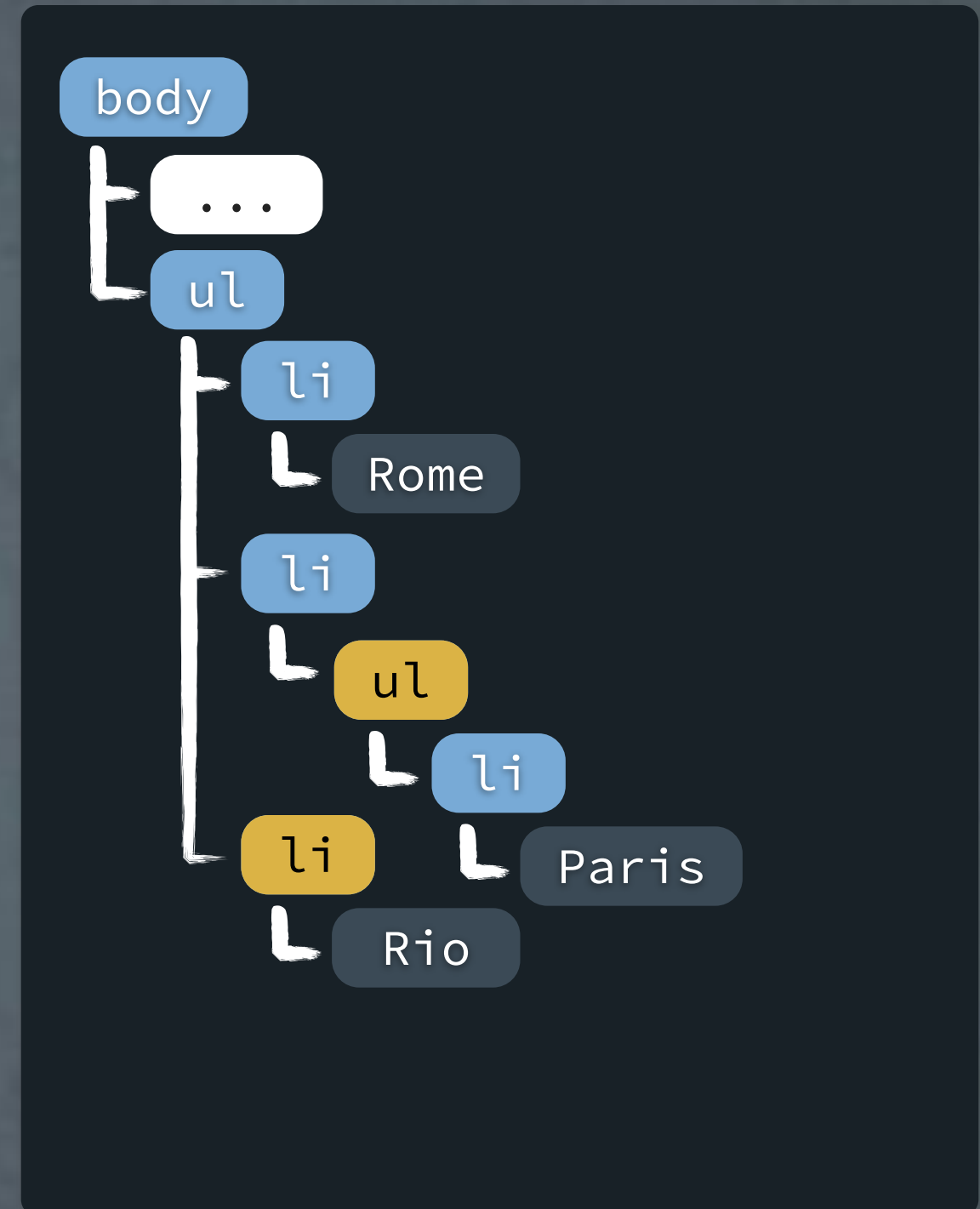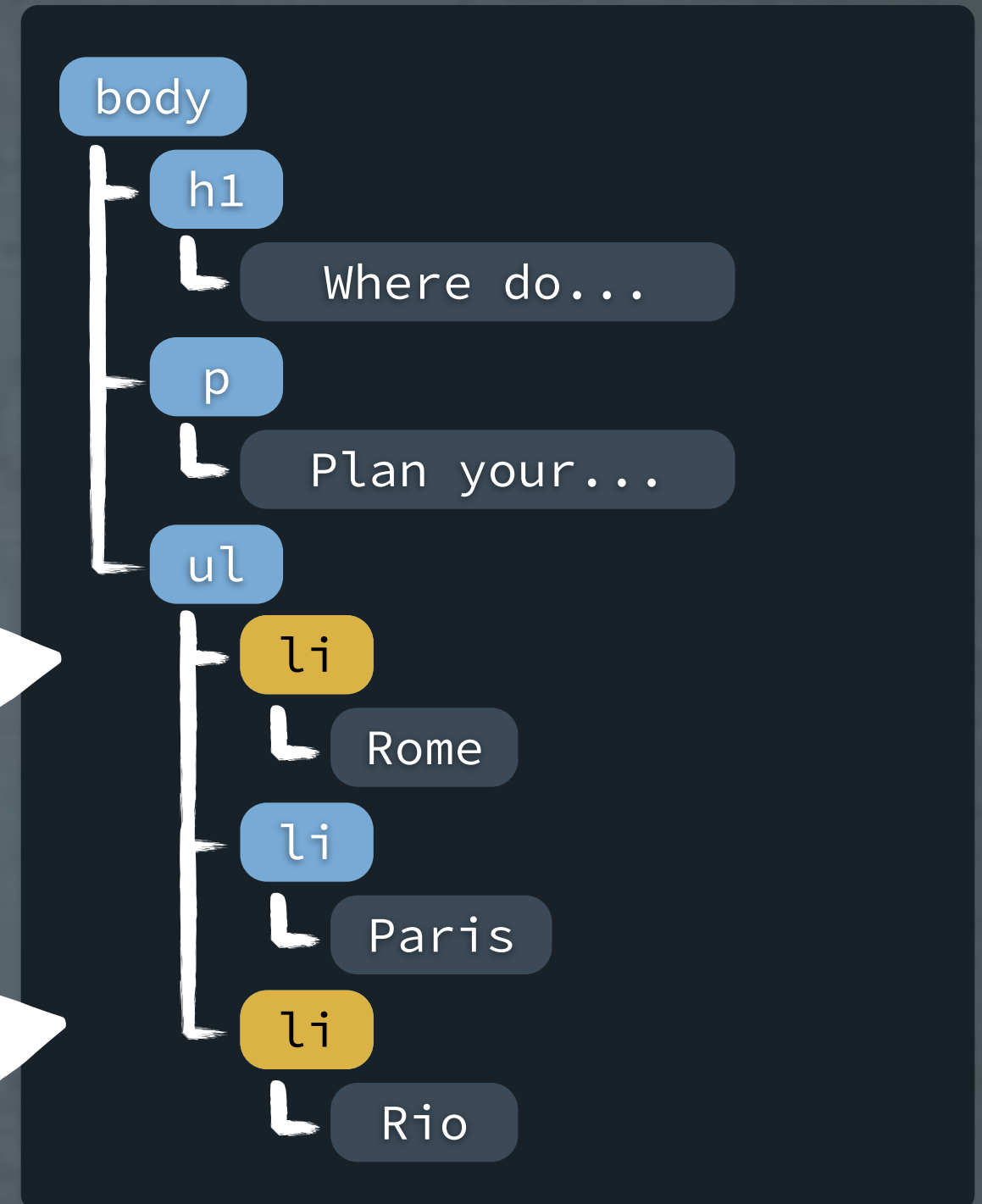
*the comma matters*

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

body

...

ul

li

Rome

li

ul

li

li

Paris

Rio

TRY jQuery

# CSS-like pseudo classes

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

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

*filter*

body
h1
    Where do...
p
    Plan your...
ul
    li
        Rome
    li
        Paris
    li
        Rio

TRY jQuery

# CSS-like pseudo classes

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

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

body
h1
Where do...
p
Plan your...
ul
#0 li
Rome
#1 li
Paris
#2 li
Rio

⚠ watch out, the index starts at 0

TRY jQuery