



# Traversing

# Walking the DOM by traversing it

## 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>
```

Can we find all the `<li>` elements that the “destinations” list contains without using a descendant selector?



filter by traversing

# Filtering by traversing

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



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



selection

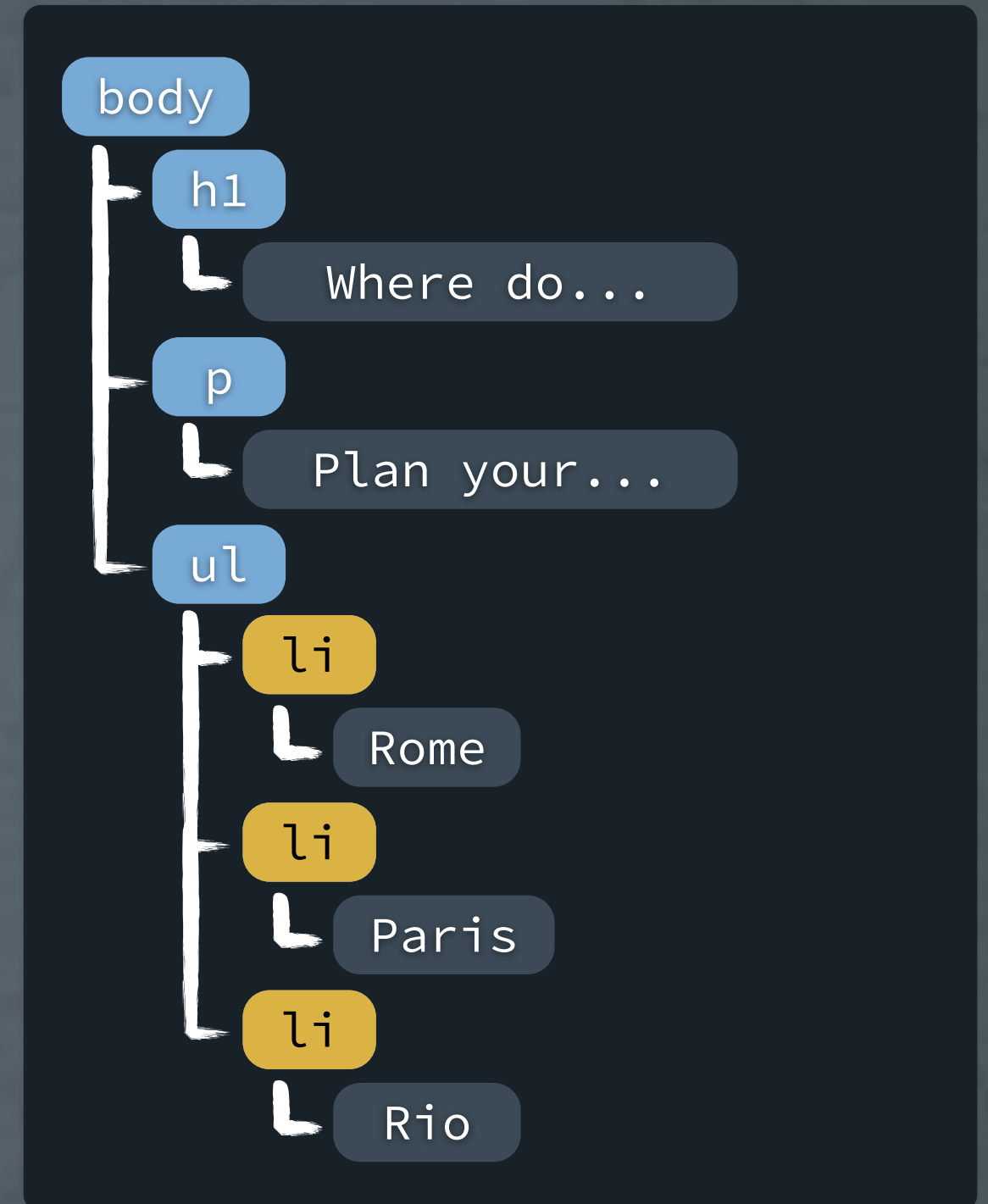


traversal



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

## 2.2 Traversing

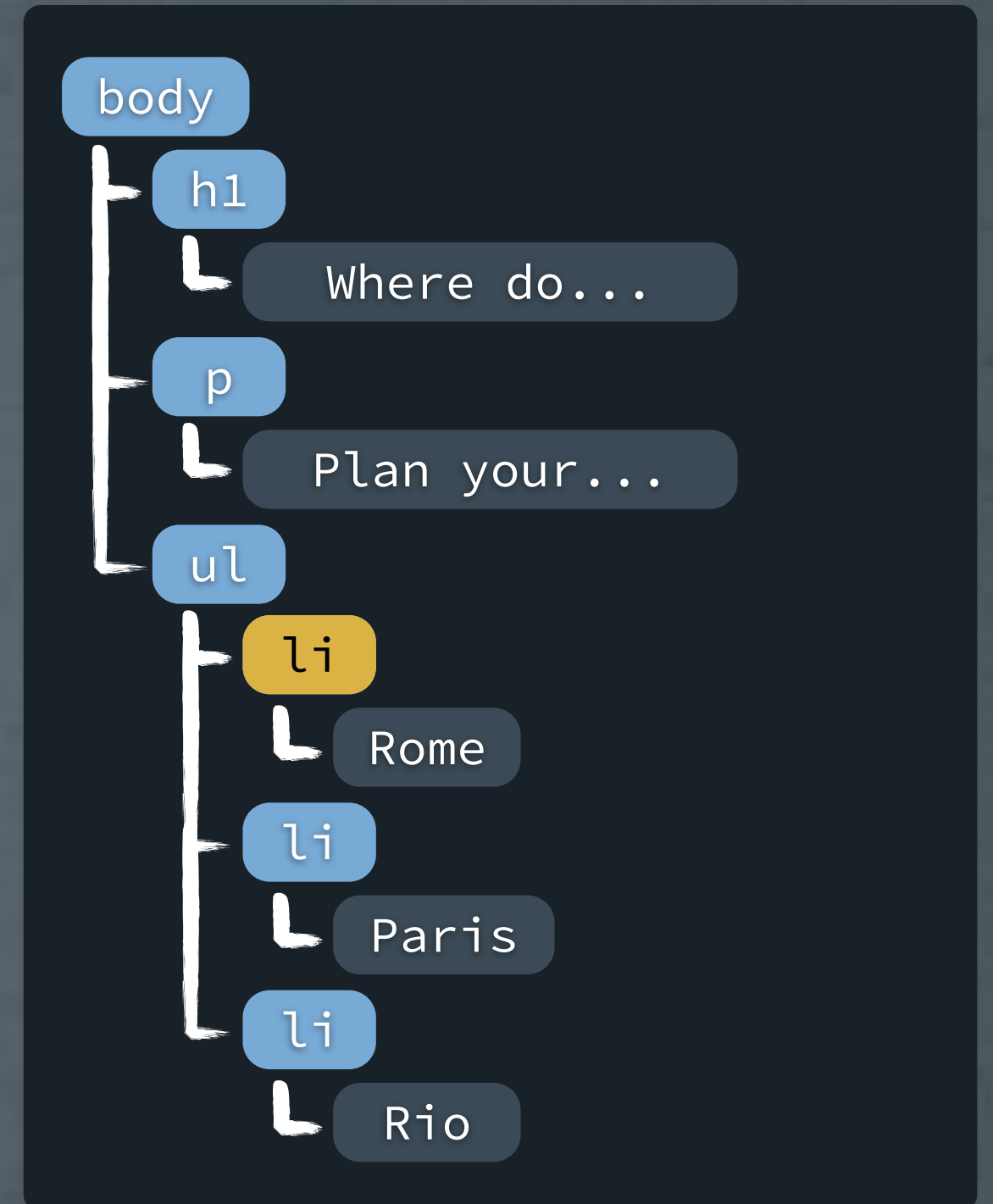


# Filtering by traversing

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



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



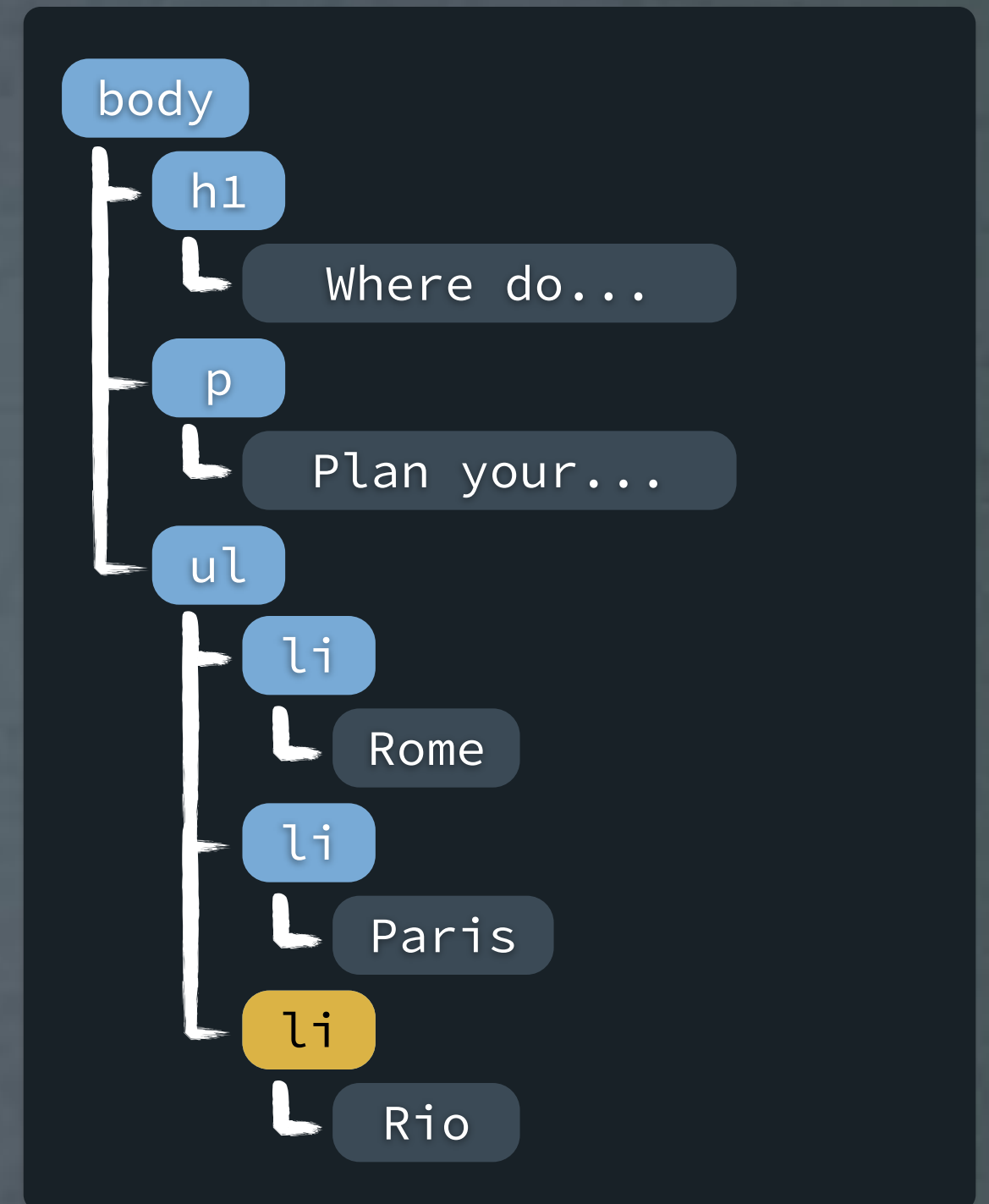
## 2.2 Traversing

# Filtering by traversing

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



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



## 2.2 Traversing

# Walking the DOM

## 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>
```

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

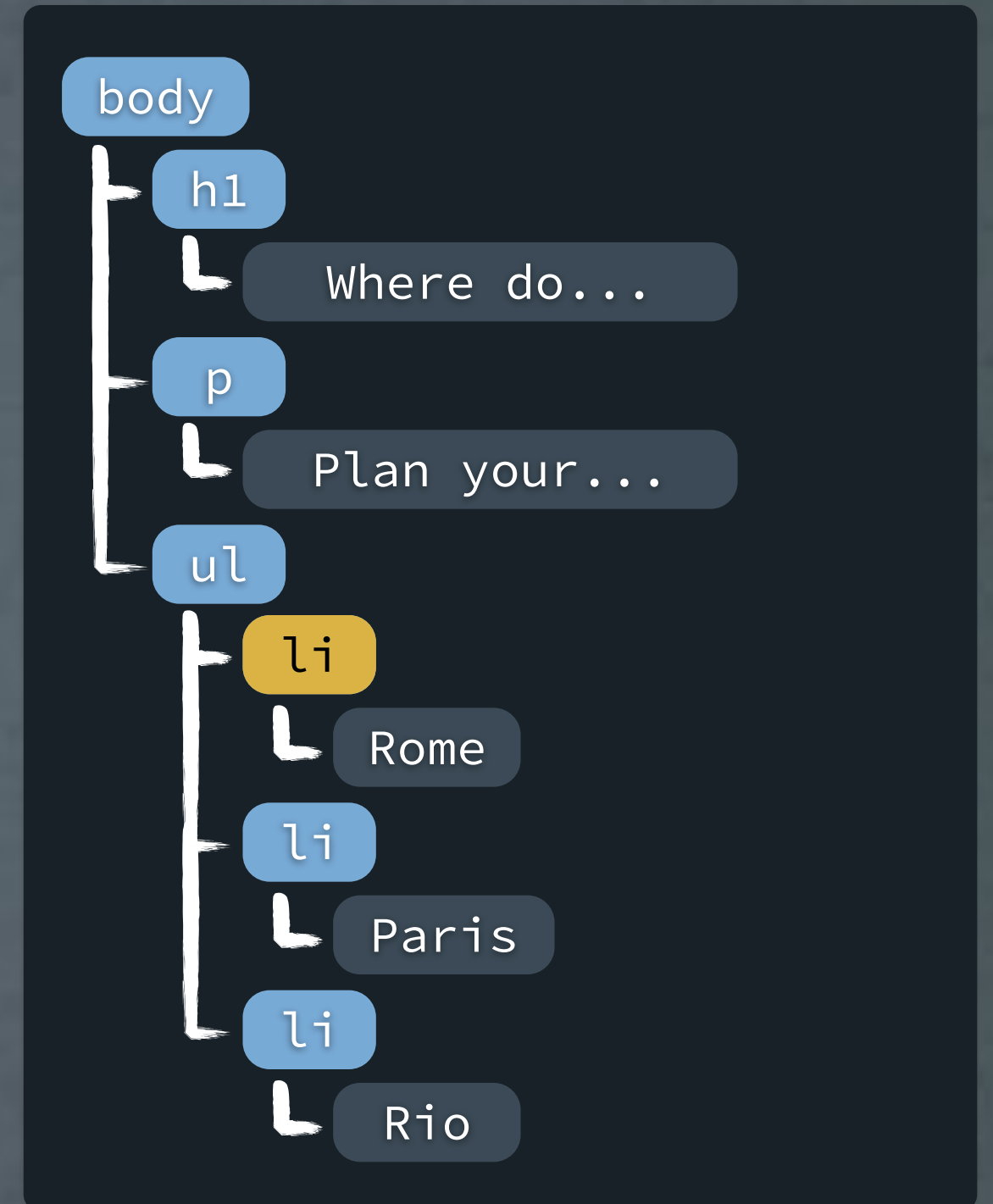


traversing

## 2.2 Traversing

# Walking the DOM

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



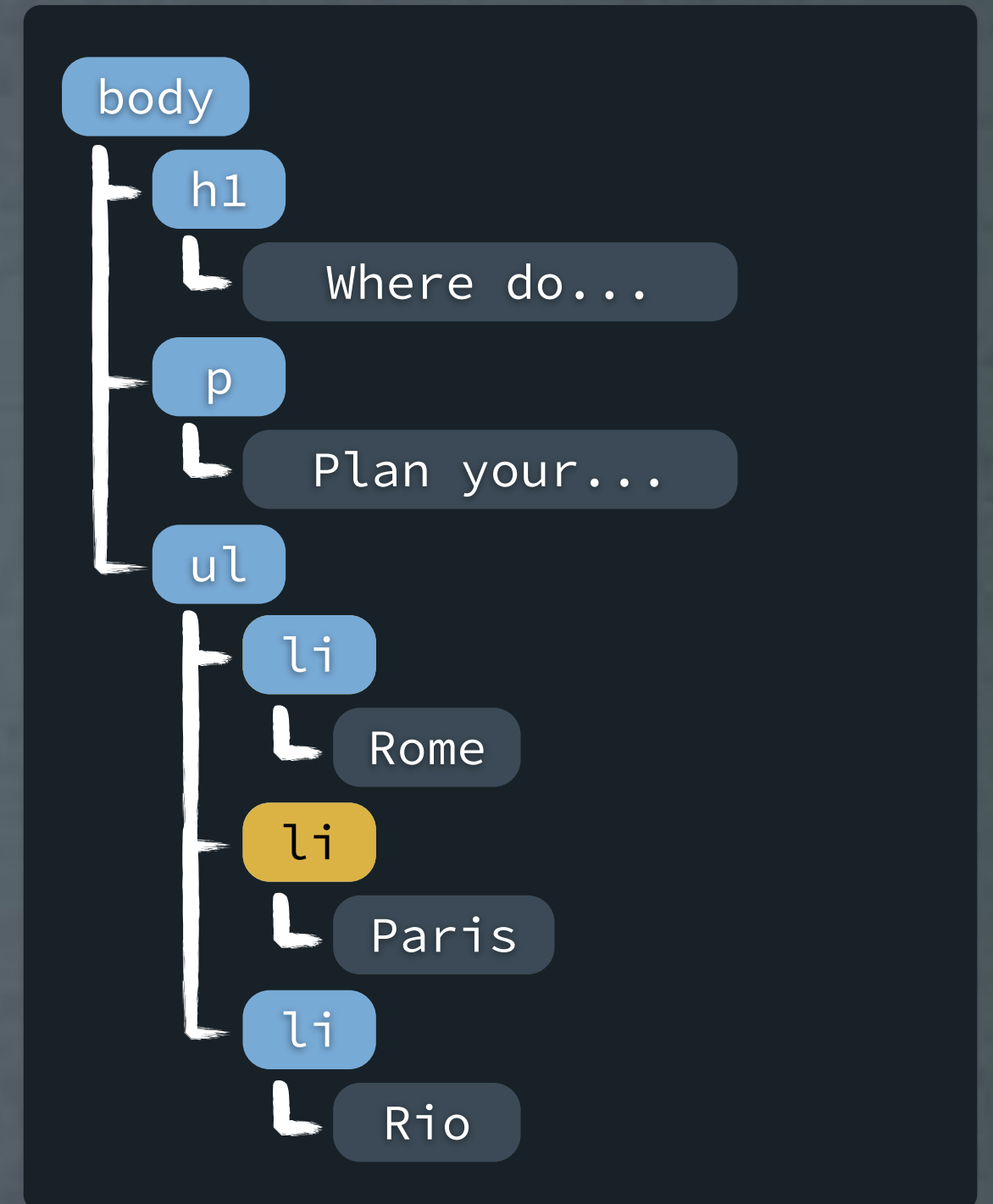
## 2.2 Traversing



# Walking the DOM

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

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



## 2.2 Traversing

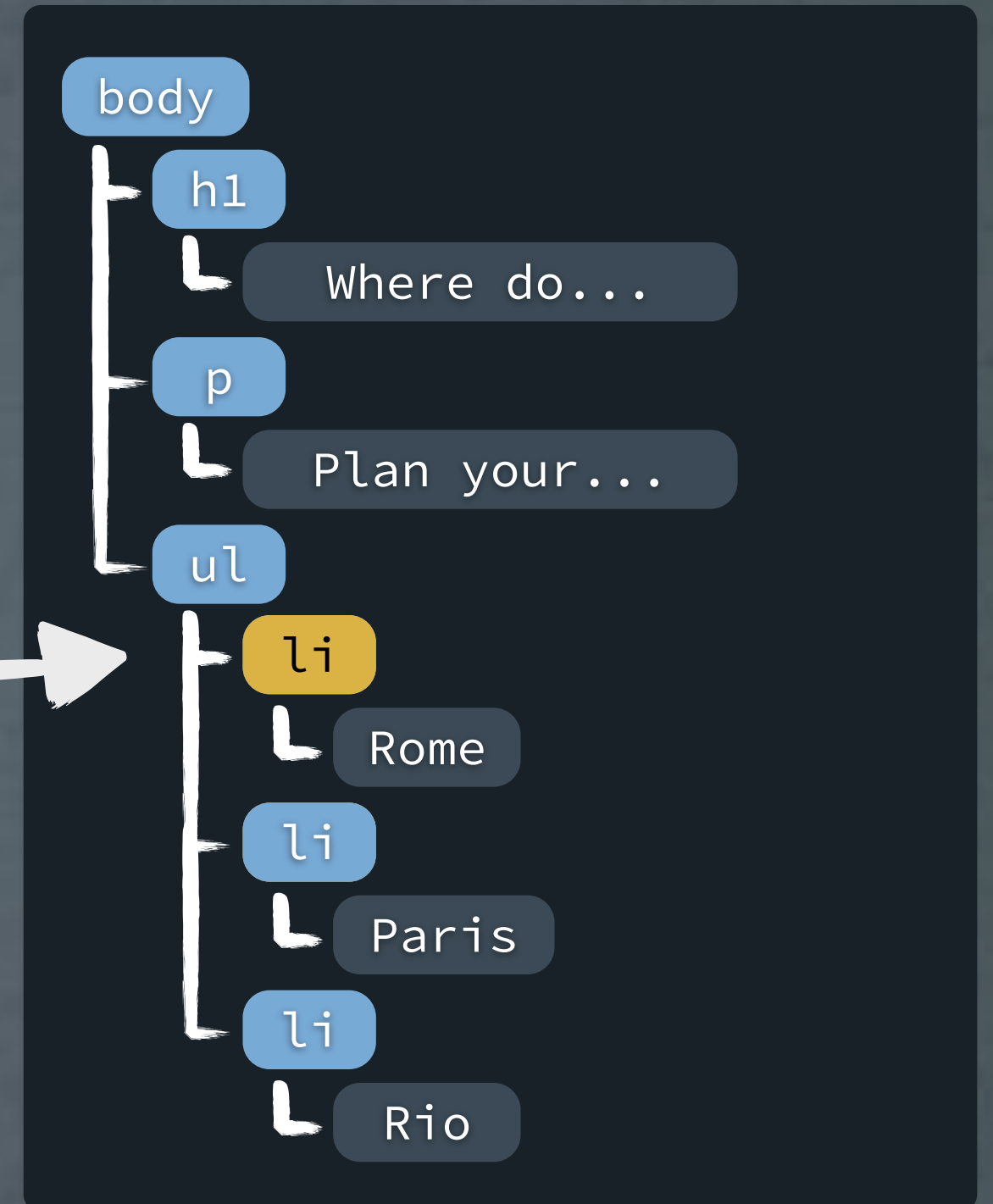


# Walking the DOM

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

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

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



## 2.2 Traversing

# Walking up the DOM

## 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>
```

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

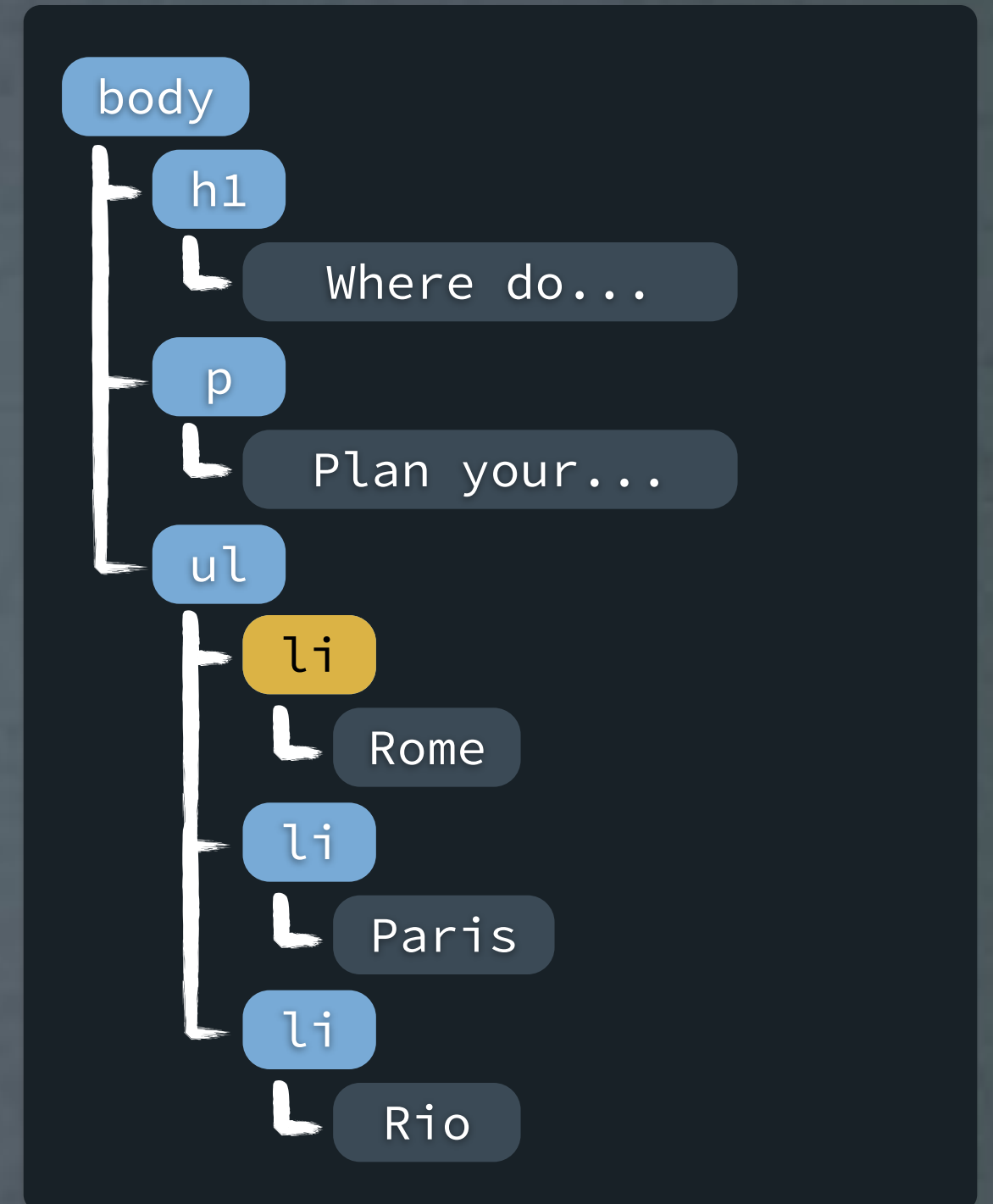


traversing up

## 2.2 Traversing

# Walking up the DOM

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

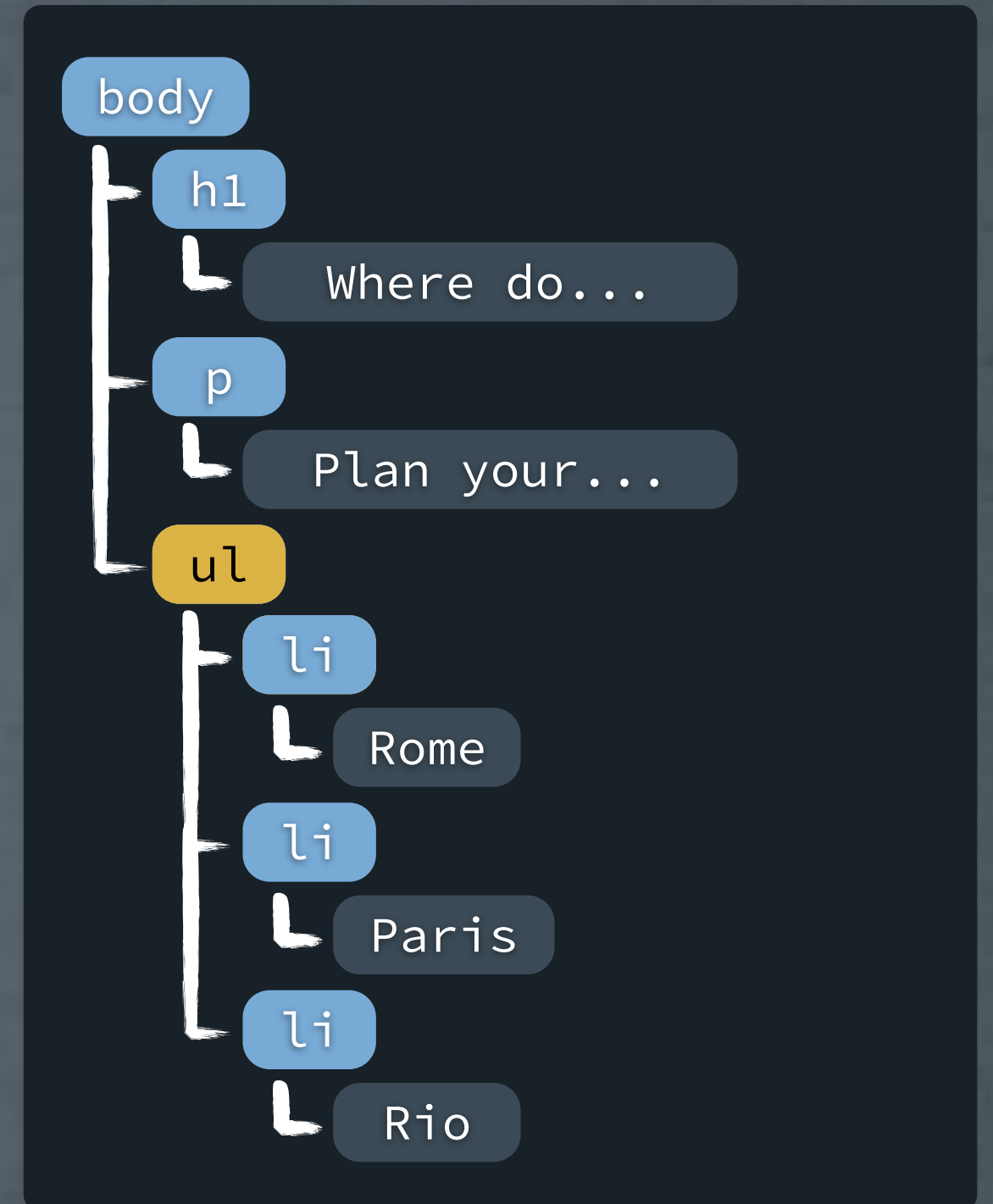


## 2.2 Traversing

# Walking up the DOM

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

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



## 2.2 Traversing

# Walking down the DOM

## 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>
  <ul id="france">
    <li>Paris</li>
  </ul>
  <li class='promo'>Rio</li>
</ul>
```

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



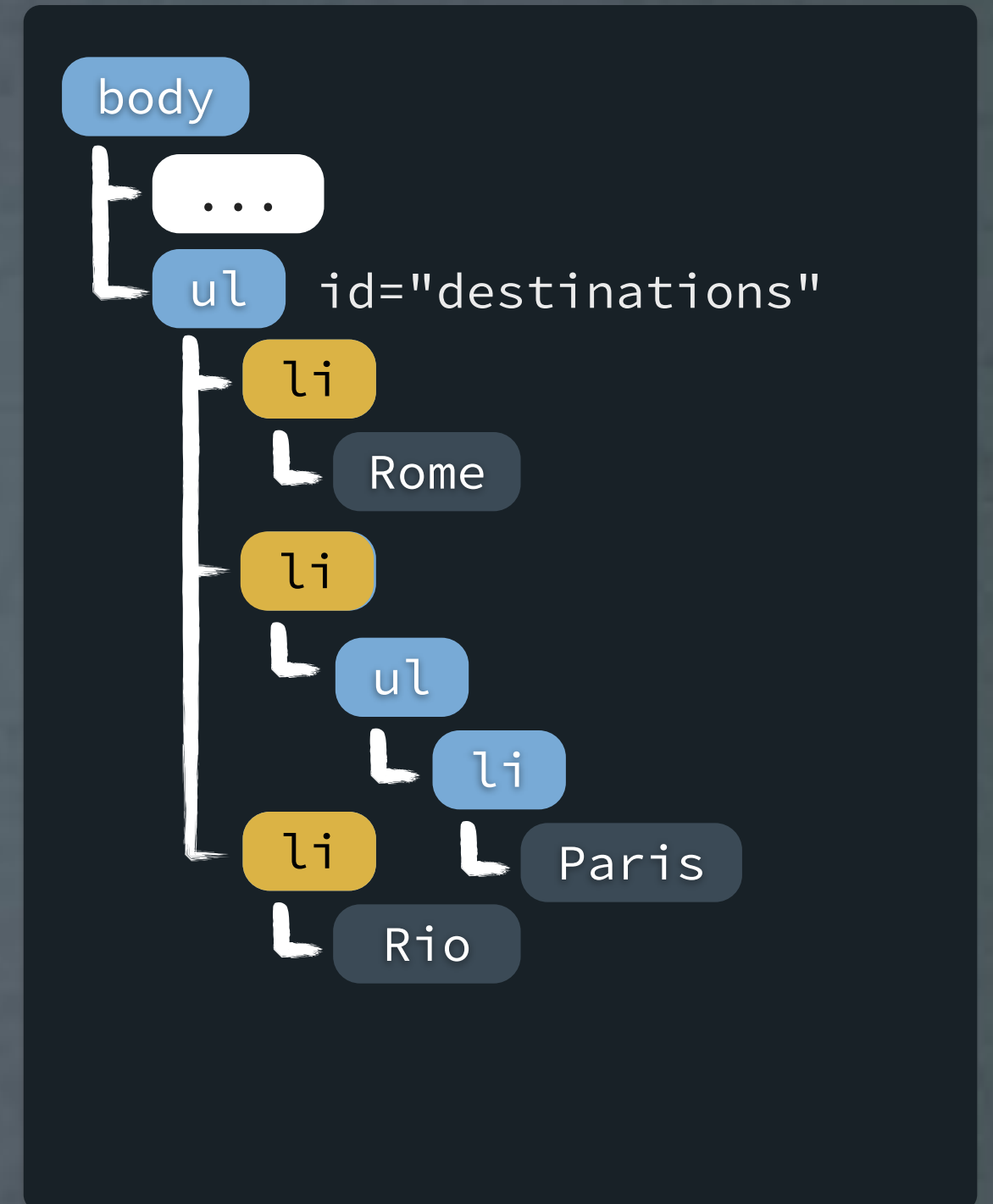
traversing down

## 2.2 Traversing

# Walking the DOM up and down

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

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



## 2.2 Traversing