

Traversing - Descendants in jQuery

With jQuery you can traverse down the DOM tree to find descendants of an element.

A descendant is a child, grandchild, great-grandchild, and so on.

Traversing Down the DOM Tree

Two useful jQuery methods for traversing down the DOM tree are:

- `children()`
- `find()`

jQuery `children()` Method

The `children()` method returns all direct children of the selected element.

This method only traverses a single level down the DOM tree.

The following example returns all elements that are direct children of each `<div>` elements:

Example

```
$(document).ready(function(){  
    $("div").children();  
});
```

You can also use an optional parameter to filter the search for children.

The following example returns all `<p>` elements with the class name "first", that are direct children of `<div>`:

Example

```
$(document).ready(function(){  
    $("div").children("p.first");  
});
```

jQuery find() Method

The find() method returns descendant elements of the selected element, all the way down to the last descendant.

The following example returns all elements that are descendants of <div>:

Example

```
$(document).ready(function(){  
    $("div").find("span");  
});
```

Source Code:

```
<!DOCTYPE html>  
<html lang="en">  
  
<head>  
    <meta charset="UTF-8">  
    <meta http-equiv="X-UA-Compatible" content="IE=edge">  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <title>Descendants Method in jQuery</title>  
    <style>  
        .box {  
            width: 500px;  
            height: 500px;  
            margin: auto;  
            justify-content: center;  
            align-items: center;  
            border: 2px solid black;  
        }  
  
        .box2 {  
            width: 400px;  
            height: 400px;  
            background-color: greenyellow;  
            margin: auto;  
        }  
    </style>  
</head>  
  
<body>  
    <div class="box">  
        <div class="box2">  
            <span>1</span>  
            <span>2</span>  
            <span>3</span>  
            <span>4</span>  
            <span>5</span>  
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        </div>  
    </div>  
</body>  
</html>
```

```

        justify-content: center;
        align-items: center;
        border: 2px solid black;
    }

    .box3 {
        width: 300px;
        height: 300px;
        background-color: blueviolet;
        margin: auto;
        justify-content: center;
        align-items: center;
        border: 2px solid black;
        display: flex;
    }

    .boxes {
        width: 50px;
        height: 50px;
        background-color: aliceblue;
        margin: 10px;
    }

    #test1 {
        background-color: aqua;
        border: 2px solid black;
        overflow: auto;
        padding: 10px 10px;
        position: relative;
    }
</style>
<script src="jquery-3.7.1.min.js"></script>
</head>

<body>

    <h1> Decendants Method in jQuery</h1>
    <div class="box" id="test1" style="position:relative;">
        <h1>Box Dev main Outer</h1>
        <div class="box2" id="outer">
            <h1>Box Dev 2 Outer</h1>
            <div class="box3" id="inner">
                <span>Boxes Inner </span>
                <div class="boxes" id="a">

```

```
        </div>
        <div class="boxes" id="b">
            B
        </div>
        <div class="boxes" id="c">
            C
        </div>
        <div class="boxes" id="d">
            D
        </div>
    </div>
</div>
<button id="btnAnimate">Animate</button>

<script>
    $(document).ready(function () {

        $('#outer').children().css('background', 'pink');
        $('body').children('#test1').css('background', 'red');

        $('#inner').find('#c').css('background', 'green');

    });
</script>
</body>

</html>
```

Thank You