




# JavaScript DOM Challenges

17 - 21



# Challenge 17

For each of these challenges, use the [start file](#) and add `<script>` tags at the bottom of the page, just before the closing `</body>` tag, and put your JavaScript between those tags.

Save each challenge as `challenge17.html`, etc.

For this challenge, write a script that gets the text inside the paragraph with the id set to "copyright" and use the `color` property to change the color of the text to green.

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copyright info

# Challenge 17 Answer

You should get something similar to this:

```
</main>
```

```
<script>
```

```
document.getElementById('copyright').style.color = "green";
```

```
</script>
```

# Challenge 18

For this challenge, get all the paragraphs on the page, assign them to a variable, then use that variable in a loop to set the style.color property to green.

Try to do this without looking at the answer on the next slide!

## Article Title

Today's Date

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Libero enim voluptatem recusandae, magni nesciunt quia tenetur doloribus labore eos sed quos impedit debitis adipisci, [optio neque](#), molestiae placeat quisquam nisi?

"You're braver than you believe, and stronger than you seem, and smarter than you think."

—A. A. Milne

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Incidunt eum eos, [modi illum nisi quas](#). Repellendus odit impedit est ab omnis, reiciendis explicabo, amet error, harum officiis vitae quae incidunt!

copyright info

# Challenge 18 Answer

You could either use a for loop, or the for .. of loop to do this.

```
<script>

    var allPs = document.getElementsByTagName('p');
    for( var i=0; i<allPs.length; i++){
        allPs[i].style.color = "green";
    }

</script>
```

```
var allPs = document.getElementsByTagName('p');

for( var eachP of allPs ){
    eachP.style.color = "green";
}
```

# Challenge 19

For this challenge, assign the class of `.red` (which is already defined inside the style tags at the top of the page) to the `<h1>` in the header and to the date in the second article.

## Page Title

Some basic information about this page.

## Article Title

## Article Title

Today's Date

Lorem ipsum dolor sit amet, consectetur ac  
quia tenetur doloribus labore eos sed quos  
nisi?

# Challenge 19 Answer

There are a few ways to do this, but this is what I came up with...

```
<script>

  var mainHeading = document.querySelector('h1');
  mainHeading.className = "red";

  var datePs = document.getElementsByClassName('date');
  datePs[1].className = "red";

</script>
```

# Challenge 20

For this challenge, change the src attribute for the first picture in the first article to:

"<http://meadpoint.net/images/xmasajax.jpg>"

Also add the class "blue" to all the paragraphs in the second article.

## Article Title

Today's Date

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Accusantium commodi ullam voluptatem porro officiis culpa impedit nobis provident veniam deserunt quas velit perspiciatis ipsa dignissimos ab est, quo consequuntur magnam?

"You're off to great places, today is your day. Your mountain is waiting, so get on your way."  
—Dr. Seuss



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## Article Title

Today's Date

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Libero enim voluptatem recusandae, magni nesciunt quia tenetur doloribus labore eos sed quos impedit debitis adipisci, [optio neque](#), molestiae placeat quisquam nisi?

"You're braver than you believe, and stronger than you seem, and smarter than you think."  
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copyright info



# Challenge 20 Answer

There are a few ways to do this, but here is one solution.

```
<script>

  var img = document.querySelector('#one img');
  img.setAttribute('src', 'http://meadpoint.net/images/xmasajax.jpg');

  var secondArticlePs = document.querySelectorAll('#two p');

  for( var i=0; i<secondArticlePs.length; i++){
    secondArticlePs[i].className = "blue";
  }

</script>
```

# Challenge 21

For this challenge, get all the links, then check to see if one of them is set to go to the wikipedia page on llamas, if it is, set the text of that link to "Llamas are cool!"

Do you need a hint? Look at the next slide...

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Incidunt eum eos, [Llamas are cool!](#). Repellendus odit impedit est ab omnis, reiciendis explicabo, amet error, harum officiis vitae quae incididunt!

# Challenge 21 hint

Use these document methods and properties:

**.getElementsByTagName();**

**.getAttribute();**

**.innerHTML = "";**

You will have multiple anchor tags to check and you're looking to see if one of them matches, so that should tell you what logical flow control structures you need.



# Challenge 21 Answer

Hopefully, you came up with something similar to this:

```
<script>

    var anchors = document.getElementsByTagName('a');

    for( var i=0; i<anchors.length; i++){
        var link = anchors[i].getAttribute('href');

        if( link === "https://en.wikipedia.org/wiki/Llama"){
            anchors[i].innerHTML = "Llamas are cool!";
        }
    }

</script>
```