

Static Methods Lab

- Due No Due Date
- Points 1
- Submitting a website url



<https://github.com/learn-co-curriculum/phase-1-static-methods-lab>



<https://github.com/learn-co-curriculum/phase-1-static-methods-lab/issues/new>

Learning Goals

- Write JavaScript `static` methods

Introduction

In this lab, we are going to practice writing `static` methods. In JavaScript, *static methods* aren't called on instances of a class, but are called directly on a class itself.

Declaring a Static Method

To declare a `static` method, we write the word `static` inside the class declaration directly before a method's name:

```
class StaticMethod {  
  static methodName() {  
    console.log('My method is static!');  
  }  
}
```

Because `static` methods are called directly on the classes themselves, `static` methods have no access to data stored in specific objects.

Calling a `Static` Method

As the `static` method is operating on the class, you call the `static` method directly on the class.

```
ClassName.methodName();  
// Calls the method explicitly on the class name itself and returns the `static` value
```

For `static` methods, `this` references the class. This means that you can call a `static` method from within another `static` method of the same class using `this`.

Instructions

You are going to write three `static` methods in the `Formatter` class. Write your code in the `index.js` file. Let the tests guide you through the process.

1. Write a method `static capitalize` that takes in a string and capitalizes the first letter.
2. Write a method `static sanitize` that takes in a string and removes all non-alphanumeric characters except for dashes, single quotes and spaces.
3. Write a method `static titleize` that takes in a string and capitalizes all words in a sentence except the, a, an, but, of, and, for, at, by, and from; and always capitalizes the first word.

Conclusion

`Static` methods are useful ways to create utility methods for your data. If you have operation that you need to perform on a batch of data (say, capitalize all of the headlines on your website, as above), `static` methods are your go-to tool. Since they are called on the class but don't have access to individual objects, they are somewhat limited in their scope, but can be very powerful in the correct application.

Resources

- [Static Methods ↗\(https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Classes#Static_methods\)](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Classes#Static_methods)