codecademy

Find Your Hat

Static Methods

Within a JavaScript class, the `static` keyword defines a static method for a class. Static methods are not called on individual instances of the class, but are called on the class itself. Therefore, they tend to be general (utility) methods.

```
class Dog {
  constructor(name) {
    this._name = name;
  }

  introduce() {
    console.log('This is ' + this._name
+ ' !');
  }

  // A static method
  static bark() {
    console.log('Woof!');
  }
}

const myDog = new Dog('Buster');
myDog.introduce();

// Calling the static method
Dog.bark();
```

Class

JavaScript supports the concept of *classes* as a syntax for creating objects. Classes specify the shared properties and methods that objects produced from the class will have.

When an object is created based on the class, the new object is referred to as an *instance* of the class. New instances are created using the `new` keyword.

The code sample shows a class that represents a `Song`. A new object called `mySong` is created underneath and the `.play()` method on the class is called. The result would be the text `Song playing!` printed in the console.

```
class Song {
  constructor() {
    this.title;
    this.author;
  }

  play() {
    console.log('Song playing!');
  }
}

const mySong = new Song();
mySong.play();
```

Class Constructor

Classes can have a `constructor` method. This is a special method that is called when the object is created (instantiated). Constructor methods are usually used to set initial values for the object.

```
class Song {
  constructor(title, artist) {
    this.title = title;
    this.artist = artist;
  }
}

const mySong = new Song('Bohemian
Rhapsody', 'Queen');
console.log(mySong.title);
```

Class Methods

Properties in objects are separated using commas. This is not the case when using the `class` syntax. Methods in classes do not have any separators between them.

```
class Song {
  play() {
    console.log('Playing!');
  }

  stop() {
    console.log('Stopping!');
  }
}
```