BETA

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□
Lesson

Classes

Path: Front End Engineering - Atlanta - September 2016
Unit: JavaScript Lessons

Classes are like blueprints for creating Objects in JavaScript. The object created from a class is called an instance of that class. You can also think of classes like cookie cutters and instances like the cookies. Syntax

```
class Foo {
  contructor() {
    // in here `this` refers to the new object
  }
  doSomething() {
    // do something
  }
}
```

The `constructor` function is special, and it is run when a new instance is created. You can create an instance of Foo from above like so:

```
let foo = new Foo();
```

If you pass params when creating an instance, those params are passed to the constructor function:

```
class Bar {
  contructor(param) {
    console.log(param); // 5
  }
}
let bar = new Bar(5);
```

Constructors

The class is new in ES6 and is replacing a construct in ES5 known as constructor functions. You can create the same Foo as before using constructors like so:

```
function Foo() {
  // in here `this` refers to the new object
}
Foo.prototype.doSomething = function() {
  // do something
}
```

Constructor functions aren't going away, and whether you use constructors or classes, the end result behaves generally the same.

Demos

```
class Zoo {
  constructor(city) {
    this.animals = [];
    this.info = {
      count: 0,
      location: city
    };
  }
  addAnimals(specificAnimal) {
    this.animals.push(specificAnimal);
    this.info.count = this.animals.length;
    return specificAnimal.name + ' has been added!';
  }
}

class Animal {
  constructor(options) {
    let opts = options || {};
    this.name = opts.name;
    this.species = opts.species;
    this.age = opts.age;
  }
  speak() {
    return this.name + 'says groooowwwwll!!!';
  }
}
```

Mark As Complete

Hooray! You're all caught up on this path. Head back to your Dashboard to check for new content or work on another path.

‹ Back to Dashboard

Navigate Path
Path
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Assignments

- Intro to Git
- HTML/CSS Intro - Iron News
- Intro to HTML/CSS Layout
- Image to HTML/CSS **
- Intro to JavaScript
- Dom Manipulation
- Function Practice
- Functional Etsy Items **
- The Color Clock
- jQuery Accordion

- Etsy Search Page **
- Form Builder
- Internal User Data
- Soundcloud Music App **
- Group Project **
- Constructor Functions
- Class Practice

Bonus Assignments

- Bonus: Functional Practice

Miscellaneous Lessons

- Install Party
- Command Line 101
- Simple Guide to Git
- Github Pages
- Github API Authorization
- Git Fundamentals
- New Project Cheatsteet
- Branches, Forks, and Pull Requests, Oh my!

HTML & CSS Lessons

- HTML Intro
- CSS Intro
- CSS Layout & The Box Model
- CSS Review
- HTML Forms
- Syntactally Awesome Style Sheets
- CSS Transitions
- Responsive Web Design
- Flexbox
- Font Awesome & Icons

JavaScript Lessons

- Intro to JavaScript
- Functions
- Document Object Model (DOM)
- Callbacks
- Objects & Arrays
- Functional Programming
- Truthy vs Falsey & Conditional Logic
- Looping
- Window Timers
- jQuery Introduction
- JavaScript Modules
- Template Literals
- Ajax & JSON
- Lodash Library
- Constructors
- Prototypes
- Classes

- An Intro to Objects

Prework

- Prework

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