

JavaScript Cheatsheet

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Constructor

What is a constructor?

In JavaScript, a constructor is a special function that acts as a mold to create new objects.

There are numerous built-in constructors in JavaScript, such as String, Number, Promise, Date, Array, Object, and many more.

We can create our own custom constructors if need be.

A great place to use a constructor is when you are creating multiple objects of the same kind.

There are two parts to working with a constructor.

- (1) Defining a constructor
 When creating a custom constructor
- (2) Using a constructor with the "new" keyword

```
// Defining a Constructor
function Car(make, model, year){
  this.make = make;
  this.model = model;
  this.year = year;
  this.setMiles = function(miles){
    this.miles = miles
    return miles;
// Using a constructor
const car1 = new Car('Toyota', 'Prius', 2016);
const car2 = new Car('Hyundai', 'Sonata', 2018);
// Adding method to the constructor prototype
Car.prototype.age = function(){
  return (new Date()).getFullYear() - this.year;
car1.age(); // 2
```

Rule of thumb:

- A) Set properties inside a constructor.
- B) Set methods inside the prototype property.

"new" keyword

The new keyword is used to create a new object (instance) from the constructor.

prototype" property prototype is a special property on every object. Properties (methods or values) attached to the prototype property get inherited to every instance of the constructor.