



## Making an Object with Properties

## Adding a Method (function) to an Object

## Updating / Setting Object Properties

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1. Make an object variable called `product`. - In the object variable declaration, include the following properties of indicated key and datatype. - For the values, refer to the method's return value

- `product` object's properties: key (datatype)
  - `prodName` (string)
  - `patentNum` (number)
  - `assemblyRequired` (boolean)
  - `buzzwords` (array with 3 items)
  - `company` (object with 2 properties: name, country)
  - `promote` (method) the returns a string concatenated from ALL the other properties and array items: `promote` method returns: "Announcing Doo-Dad Incorporated's newest high-tech, labor-saving, water-resistant Wonder Widget! Made in U.S.A. Patent number: 7654321. Some assembly required." HINT: Use if-else logic in the method to concatenate or not based on the boolean

```
const product = {  
  // your code  
}
```

2. Log the following properties of the object:

- the whole object
- the boolean, including with it the label "Assembly Required:"
- the first item in the `buzzwords` array
- the last item in `buzzwords`, accessed via the array length
- the company name and country as: "All Doo-Dad, Inc. products are made in U.S.A."
- the `promote` method: Get Doo-Dad Inc.'s new high-tech, labor-saving, water-resistant Wonder Widget! Made in U.S.A. Patent number: 7654321. Some assembly required.

```
console.log(product); // {} (contains all properties)  
console.log(product); // Assembly Required: true  
console.log(product); // high-tech
```

```
console.log(product); // water-resistant
console.log(product); // All Doo-Dad, Inc. products are made in U.S.A.
console.log(product); // Get Doo-Dad Inc.'s new high-tech, labor-
saving, water-resistant Wonder Widget!
// Made in U.S.A. Patent number: 7654321. Some assembly required.
```

3. Add four new properties outside of the object. In other words, do not add these new properties directly into the object declaration:

- msrp (number) -- MSRP (Manufacturer's Suggested Retail Price)
- discount (number) -- as decimal: .2 means 20%
- salePrice (result of math done with msrp and discount)
- caution (string)

4. Update the promote method to include the new properties.

- do not edit the original object method HINT: `product.promote = function()`
- The promote method's updated return value should be: "Get Doo-Dad Inc.'s new high-tech, labor-saving, water-resistant Wonder Widget! Made in U.S.A. Made in U.S.A. Patent number: 7654321. Some assembly required. MSRP: \$40 \* \* \* ON SALE! 20% OFF \* \* \* NOW ONLY: \$32 \* \* \* (CAUTION: Water-resistant does NOT mean waterproof. Do not submerge.)"
- log the promote method to see the changes.

```
product.promote = function() {
}

console.log(product.promote());
// Get Doo-Dad Inc.'s new high-tech, labor-saving, water-resistant
Wonder Widget!
// Made in U.S.A. Patent number: 7654321. Some assembly required.
// * * * MSRP: $40 * * * ON SALE! 20% OFF * * * NOW ONLY: $32;
```

5. Update / change properties and log the whole object and the method again:

- flip the boolean to false
- increase the MSRP to \$75
- increase the discount to 50%
- push another buzzword into the array: "shock-resistant"
- update the promote method to include the new array item
- log the promote method to see the changes.

```
product.promote = function() {
}

console.log(product.promote());
// Get Doo-Dad Inc.'s new high-tech, labor-saving, water-resistant,
shock-resistant Wonder Widget!
```

```
// Made in U.S.A. Patent number: 7654321. Some assembly required.  
// *** MSRP: $75 *** ON SALE! $50% OFF *** NOW ONLY: $37.50;
```

**SEE Lab 04.02 Solution**