Day 15, Today's Topic
Destructuring Part 2

DAILY JS

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## ================= Daily JS - Day 15 ================
## ========================================================
*/
```

Day 15: Destructuring Part 2

As we discussed yesterday, destructuring has many
use cases, and we will discuss one per day.

Yesterday we discussed that destructuring can be
used to extract properties and their values out of
an object.

Today's discussion will be about how destructuring
can be used to pull out properties from an object
within function arguments.

Let's take the yesterday's example forward.

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  ## 2. Pulling properties out of objects when
  ## they are passed as function arguemnts

  Yesterday we saw an example for object
  destructuring, let's see today's topic on the
  same example.

  **Make a greetings function which takes
  studentDetails object as argument and returns
  a greeting message**

  Let's solve this problem with normal object
  destructuring and with destructuring in function
  arguments.

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  ## `Greetings` example - solution 1

  ```js
  var studentDetails = {
      first_name: "Madhav",
      last_name: "Bahl",
      profession: "Student",
      age: 21
  };

  function greetings (studentDetails) {
      var { first_name, last_name, profession, age } = studentDetails;

      return `Hi, I am ${first_name} ${last_name}.
          I am a ${profession}
          My age is ${age}`
  }
  ```


  Yesterday when we saw this example without destructuring, we saw that
  we had to write 4 lines (= num of properties) just to extract variables
  from the object, but with destructuring that was reduced to a single line.

  Now that can also be reduced further.

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*/
  ## `Greetings` example  - destructuring in function argument

  **Question:** Make a greetings function which takes studentDetails
  object as argument and returns a greeting message.

  ```js
    var studentDetails =  {
        first_name: "Madhav",
        last_name: "Bahl",
        profession: "Student",
        age: 21
    };

    // Destructuring in function argument
    function greetings3 ({ first_name, last_name, profession, age }) {
        return `Hi, I am ${first_name} ${last_name}.
            I am a ${profession}
            My age is ${age}`
    }
  ```


  As you can see, this reduced the 4 lines (without destructuring) of
  extracting properties, into 0 explicit lines.

  And you will see this type of destructuring quite often if you are
  aiming to become a JS developer, so keep this syntax in mind :)

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```

```
/* ================================================================== */
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/* ================================================================== */

   var studentDetails = {
       first_name: "Madhav",
       last_name: "Bahl",
       profession: "Student",
       age: 21
   };

   // Without Destructuring
   function greetings1 (studentDetails) {
       var first_name = studentDetails.first_name;
       var last_name = studentDetails.last_name;
       var profession = studentDetails.profession;
       var age = studentDetails.age;

       return `Hi, I am ${first_name} ${last_name}.
           I am a ${profession}
           My age is ${age}`
   }
   console.log ("Without destructuring: ", greetings1(studentDetails));

   // With Destructuring
   function greetings2 (studentDetails) {
       var { first_name, last_name, profession, age } = studentDetails;

       return `Hi, I am ${first_name} ${last_name}.
           I am a ${profession}
           My age is ${age}`
   }
   console.log ("Without destructuring: ", greetings2(studentDetails));

   // Destructuring in function argument
   function greetings3 ({ first_name, last_name, profession, age }) {
       return `Hi, I am ${first_name} ${last_name}.
           I am a ${profession}
           My age is ${age}`
   }
   console.log ("Destructuring in function argument: ", greetings3 (studentDetails));

   // One Liner
   const greetings4 = ({ first_name, last_name, profession, age }) ⇒ `Hi, I am ${first_name}
     ${last_name}. I am a ${profession}. My age is ${age}`;
   console.log ("One Liner: ", greetings4 (studentDetails));

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Thank you!

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