

Introduction to "Switch" Statements

Now that I've taken you through if and else statements, you can see how conditional logic can be used to branch among different values.

JavaScript has another way of controlling flow that's actually designed for that sort of situation - the switch statement.

Multiple Possible Outcomes

switch statements are designed to handle multiple possible outcomes from the value of a single variable or expression. They can replace a pattern of using if and else statements repeatedly if you want to test a single expression. We've already seen nested if and else statements used together to branch across different possible outcomes depending upon the value of a variable, such as color in this case.

```
var color = "red";

if (color == "blue") {
  console.log("Blue is my favorite color");
} else if (color == "red") {
  console.log("That's not as bad as green");
} else {
  conslole.log("You have bad taste");
}
// "That's not as bad as green"
```

switch statements are a way to structure code that's trying to accomplish something like this, in a cleaner way. switch statements use one statement to handle multiple possible cases for a single value, and this is the way that they look:

```
var color = "red";

switch (color) { // the value to test
   case "blue": // first test case
    console.log("Blue is my favorite color");
   break; // terminate the statement
   case "red": // the second test case
    console.log("That's not as bad as green");
   break; // terminate the statement
   default: // do this if nothing else matches
    console.log("You have bad taste");
}
// "That's not as bad as green"
```

switch is passed the variable that we want it to switch on, and this can either be a variable or an expression. The switch statement takes a single block that contains a bunch of different cases, and depending on the value of color, one of these cases will be executed.

"Switch" Statement Syntax

One of the advantages of the switch statement, is that the syntax looks a little bit less messy than having a bunch of ifs and elses together, but basically we're performing the same operations. The important thing with switch statements is to remember not to forget the break statements. If there's a break missing, the switch statement will go on and execute the next case.

```
switch (color) {
  case "blue":
    console.log("Blue is my favorite color");
  case "red":
    console.log("That's not as bad as green");
  default:
    console.log("You have bad taste");
}
// "That's not as bad as green"
// "You have bad taste"
```

It may seem inconvenient, having to remember to put in a break statement every single time just in order to be able to use the [switch].

Selective "Break" Use

Using switch lets you set up structures that will allow you to execute more than one case if that's what you're going for.

```
var adjectiveCount = 3;
var adjectiveArray = [];
var compliment;

switch (adjectiveCount) {
    case 4:
        adjectiveArray.push("exquisite");
    case 3:
        adjectiveArray.push("fantastic");
    case 2:
        adjectiveArray.push("amazing");
    default:
        adjectiveArray.push("great");
}

compliment = "You have " + adjectiveArray.join(", ") + " taste!";
console.log(compliment);
// You have fantastic, amazing, great taste!
```

So sometimes you'll want to use break statements and switches, and sometimes not. Usually you will want a break statement between each case and a switch, and some JavaScript compilers will actually give you warnings telling you that you need breaks between your case statements, but the JavaScript will still work without them.