

Understanding the Rest of the `switch` Statement

Now that we've covered the basics of a `switch` statement, let's look at **why we use `break`; and `default`:**

Why Do We Need `break`;

- When a **match is found**, JavaScript executes the code **below that case**.
- However, **without `break`**, JavaScript **keeps running all the cases** that follow—even if they don't match!

Example Without `break`; (Bad Code)

```
let dayOfWk = "Sat";
```

```
switch (dayOfWk) {  
  case "Sat":  
    alert("Whoopee!");  
  case "Sun":  
    alert("Whoopee!");  
  case "Fri":  
    alert("TGIF!");  
  default:  
    alert("Shoot me now!");  
}
```

What Happens?

If `dayOfWk = "Sat"`, **all alerts will run!**

- It will show "Whoopee!" (for "Sat").
- Then "Whoopee!" again (for "Sun").
- Then "TGIF!".
- Then "Shoot me now!".

This is called **"fall-through" behavior**, and it usually causes **bugs**.

How `break`; Fixes This

A `break`; **stops execution** after a matching case.

Fixed Code:

```
let dayOfWk = "Sat";
```

```
switch (dayOfWk) {  
  case "Sat":  
    alert("Whoopee!");  
    break;  
  case "Sun":  
    alert("Whoopee!");  
    break;  
  case "Fri":  
    alert("TGIF!");  
    break;  
  default:  
    alert("Shoot me now!");  
}
```

Now, if `dayOfWk = "Sat"`, only **one** alert will show.

What is `default`;

- The `default`: case **runs if no other case matches**.

- It works **like else in an if-else statement**.
- It usually **doesn't need a break**; because it's the last case.

Example:

```
let dayOfWk = "Monday";
```

```
switch (dayOfWk) {  
  case "Sat":  
  case "Sun":  
    alert("Whoopee!");  
    break;  
  case "Fri":  
    alert("TGIF!");  
    break;  
  default:  
    alert("Shoot me now!");  
}
```

☞ Since "Monday" doesn't match any case, the "Shoot me now!" alert will run.

When Should You Use `switch`?

- ✓ When checking **one variable** against **multiple values**.
 - ✓ When you have **a lot of if-else conditions**.
 - ✓ When all conditions **check for exact matches (===)**.
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Final Summary

1. `switch` is cleaner than if-else for multiple conditions.
2. Use `break`; to **stop execution** after a match.
3. Use `default`: as a **fallback** (like else).
4. If you **forget break**;, all cases below the match will **run unintentionally**.