

◆ Three Ways to Replace "World War II" in JavaScript

You've learned **three** different methods to replace "World War II" with "the Second World War" in a string.

1 Loop and Slice Method (Basic Approach)

```
for (var i = 0; i < text.length; i++) {  
    if (text.slice(i, i + 12) === "World War II") {  
        text = text.slice(0, i) + "the Second World War" + text.slice(i + 12);  
    }  
}
```

✓ How It Works

- **Loops through the string** character-by-character.
- **Checks each 12-character segment** to see if it matches "World War II".
- Uses `slice()` to reconstruct the string with the replacement.

⚠ Downsides

- Inefficient (especially for long strings).
 - Only replaces the **first occurrence**.
 - Requires a manual loop.
-

2 `indexOf()` Method (Improved Approach)

```
var firstChar = text.indexOf("World War II");  
if (firstChar !== -1) {  
    text = text.slice(0, firstChar) + "the Second World War" + text.slice(firstChar +  
12);  
}
```

✓ How It Works

- Uses `indexOf()` to find the starting index of "World War II".
- **Reconstructs the string** using `slice()`, similar to the first approach.

⚠ Downsides

- Only replaces the **first occurrence**.
 - Still requires manual slicing and concatenation.
-

3 `replace()` Method (Best Approach)

◆ Replace First Occurrence

```
text = text.replace("World War II", "the Second World War");
```

◆ Replace All Occurrences (Global Replace)

```
text = text.replace(/World War II/g, "the Second World War");
```

✓ How It Works

- `replace("oldText", "newText")` replaces the **first** occurrence.
- `replace(/oldText/g, "newText")` replaces **all** occurrences using a **regular expression** (`/pattern/g`).
 - The **g** flag makes it a **global replacement**.

⚡ Why is this the Best Approach?

- ✓ More concise
- ✓ More readable
- ✓ More efficient
- ✓ Handles multiple replacements (when using `/g/`)

🔪 Summary Table

Method	Replaces First Occurrence?	Replaces All Occurrences?	Efficient?	Best for?
Loop & Slice	✓ Yes	✗ No	✗ No (Slow)	Learning how string manipulation works
indexOf & Slice	✓ Yes	✗ No	⚠ Medium	Basic replacements
replace()	✓ Yes	✓ Yes (With <code>/g/</code> flag)	✓ Yes (Fast)	Best method for replacing text

💡 Best Practice

If you need **just one replacement**, use:

```
text = text.replace("World War II", "the Second World War");
```

If you need to **replace all occurrences**, use:

```
text = text.replace(/World War II/g, "the Second World War");
```
