

JavaScript Decimal Control Notes

Overview

- Control the number of decimal places in numbers using `toFixed()` for formatting.

Key Concepts

- **Decimal Control with `toFixed()`:**
 - Rounds a number to a specified number of decimal places, returns a string.
 - Example: `var total = 10.59675; var prettyTotal = total.toFixed(2);`
→ `prettyTotal` is "10.60".
 - Syntax: `number.toFixed(digits)` (e.g., 2 for two decimal places).
 - Currency formatting: `var currencyTotal = "$" + prettyTotal;` → "\$10.60".
 - Empty parentheses (`toFixed()`) rounds to zero decimals.
- **Rounding Issue:**
 - `toFixed()` may round inconsistently for numbers ending in 5 (e.g., 1.555 may become "1.55" or "1.56", depending on browser).
- **Workaround for Rounding Issue:**
 - Convert number to string, check if last digit is 5, replace with 6, convert back, apply `toFixed(2)`.

```
var str = num.toString();
if (str.charAt(str.length - 1) === "5") {
    str = str.slice(0, str.length - 1) + "6";
}
num = Number(str);
var prettyNum = num.toFixed(2);
```
- **Key Points:**
 - `toFixed()` returns a string, not a number.
 - Use `Number()` to convert back to a number for further calculations.