

React useState + Arrow vs Normal Function Notes

Q What is useState?

• A React Hook that lets you add state (data that changes) to functional components.

```
const [state, setState] = useState(initialValue);
```

Example:

```
const [ingredients, setIngredients] = useState([]);
```

Prevent Form Reloading

```
event.preventDefault();
```

• Stops the page from refreshing when a form is submitted.

Getting Form Data

```
const formData = new FormData(event.currentTarget);
const newIngredient = formData.get("ingredient");
```

- event.currentTarget refers to the form that triggered the submit event.
- formData.get("ingredient") fetches input value by the name="ingredient" attribute.

Updating State with Previous Value (Functional Way)

Arrow Function:

```
setIngredients((prev) => [...prev, newIngredient]);
```

Normal Function:

```
setIngredients(function (prev) {
   return [...prev, newIngredient];
});
```

• Both do the same thing: take old state, add new item, return new array.

Why use spread ...?

```
[...prev, newIngredient]
```

- Creates a new array, doesn't change the old one (immutability).
- Spread operator works in **JavaScript**, not just React.
- Clean, readable, modern syntax.

```
坳 .concat() vs ...spread
```

- array.concat(item) also returns a new array
- spread is more flexible and readable:

```
[...arr, item1, item2]
```

Arrow Function vs Normal Function

Feature	Arrow Function	Normal Function
Implicit return	Yes (if no {} used)	No
Needs return?	Only with {} block	Always
Cleaner syntax		More verbose

Examples:

```
// Arrow function - implicit return
const add = (a, b) => a + b;

// Arrow with return
const add = (a, b) => {
  return a + b;
};

// Normal function
```

```
function add(a, b) {
  return a + b;
}
```

React map example with arrow:

♦ Summary

- useState gives state to React components
- Always use **spread** or concat() to update arrays without mutating
- Arrow functions are shorter but normal functions are easier to read at first
- prev is just a parameter name for previous state, React gives it
- Using forms with FormData and event.currentTarget works even if multiple forms exist

You're on fire, Raj! Keep this handy for future projects.