

React/Reducer required no changes to server!

- Server is independent of front end
- We had RESTful chat services
- Switching to React requires no server changes

You might want to change the server anyway

- That's not bad!
- Learning what makes a good server for clients
- Make sure changes aren't custom to the client
- Remember, related but separate concepts:
 - Server state
 - Service data
 - Client state

How to do polling?

Thought process:

- It interacts with client state
 - Must be in a component
- It itself does not render output
 - Not a component itself
- It is synchronization with React and non-React
 - That is an effect
- use `useEffect()`
 - Don't forget cleanup!

Debugging

Remember the lessons from early in the semester:

- Find the line that doesn't work as expected
- This means you have verified the input!
- Too many students aren't checking DevTools Network
 - See what service actually returns
 - See if problem is server or client side
- You can use the browser debugger
 - Place breakpoints
 - Look at variables at that point
 - See when values aren't what you expect

Spread Operator

- Common point of confusion
- I've added a document in `/readings/js/`
- You need to avoid mutating state objects/arrays
 - It messes up React checking for changes