

Todo List

- Common examples in webdev
- Lets do it in React
- Write as a component passed the data
 - State changes are OUTSIDE component
- How will this change with services?
 - Foreshadowing!

The Todo Data Model Plan

- list of items
 - have unique id
 - store as object, not array
- each item has:
 - task (the text)
 - done (boolean)
 - id (unique identifier)

The Todo UI Plan

- Each item
 - shows name
 - shows done status (how?)
 - allows a toggle interaction (done)
 - allows a delete option
- Can add new items
 - input for task
 - assume not done
 - id is auto-assigned

Todo in React

- pass in functions to manage state changes
- a component that is in charge of display
 - Can use child components
 - Needs to include form to add

An Example breakdown

`<TodoList/>`

- `todos` - object of todos
- `onToggle` - called when a todo changes done
- `onDelete` - called when a todo is deleted
- `onAdd` - called when a todo is created

Further Breakdown

- many `<TodoListItem/>`
 - `key` (id) - we are an array
 - `todo` individual todo item
 - `onToggle`
 - `onDelete`
- `<TodoAddForm/>`
 - manages temporary state
 - `onAdd`