Plain Javascript vs React

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Plain Javascript

- Instructive
- Traditional programming approach
 - We write program
 - · to modify data
 - decide what data will be displayed on which location.
 - show the data in the right place
 - Pull the data from UI (textbox) manually
- Problem
 - O You need to keep checking when data changes
 - You need to keep your data and UI in sync yourself.
 - o It is a manual process.

What Programmer will do in React

1. Create Declarative Components

- Components should know what data they will display.
- When data changes display is updated. NO additional logic.
- Data can be 'props' or 'state'

2. Modify Data on some event

- There are only a few event that you must understand
- 1. Click Event (Button/Link/List Selection)
- 2. Input Event (Text change/checkbox selection
- 3. Lifecycle Event
 - componentDidMount
 - componentDidUpdate
- 4. Timer event
 - Less used.

React

- Declarative
- We don't read/write data to/from UI manually
- We create a UI that is designed to display a predefined data structure
 - o Cell can display one O or X that is passed to
 - O A BookListItem can display detains of one book passed to it.
- UI doesn't know how it gets the information
 - o Logic
- Ui Reacts to changes in the connected data (props/state)
 - O When data changes UI is updated.
 - O We don't have to do it manually
- Programmers role

In the UI, you don't think of manipulation logic. In event handling you don't think of UI model