

# React - 1

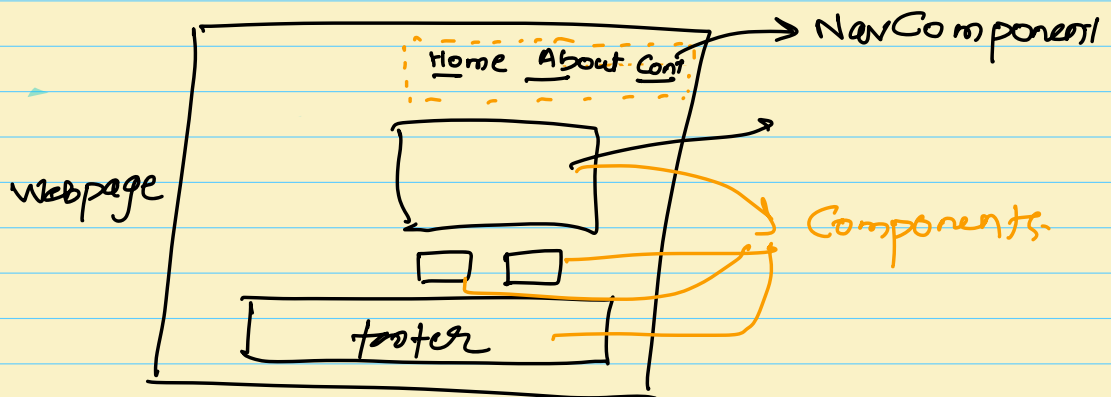
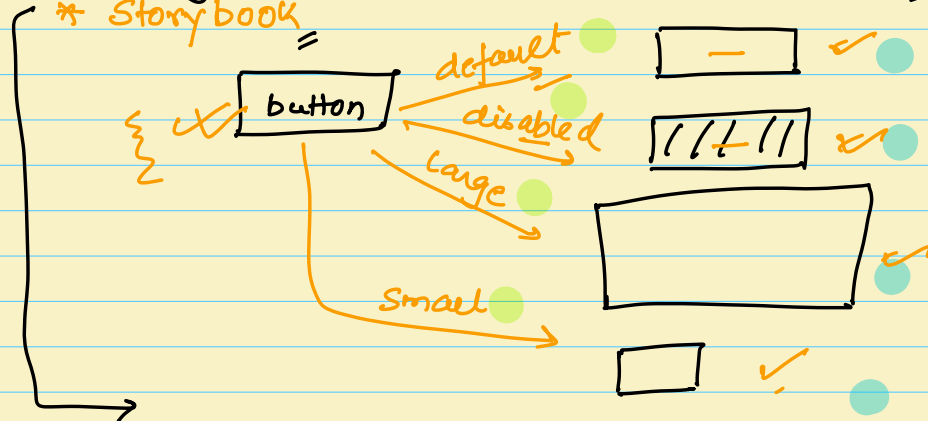
- Few years back  
HTML, CSS, JS, jQuery
- Newer kind of applications
  - like ecommerce, gaming, media...

Solving similar engineering problems

- community was divided on approach
- State Mgmt.
  - Reusable Markup ✓
  - Routing.

UI = function(application state, properties)

\* Storybook



## Library & Framework

### Library

- Visit Ikea/HomeTown get a chair
- In charge of flow of applic<sup>n</sup>
- Augment some feature / functionality

### Framework

- Buying a model houses "apartment"
- They are in charge
- Complete sol<sup>n</sup> with their own set of tools & packages to solve the problem

React is unopinionated

Routing — React-Router  
State Mgmt — Redux / Mobx  
Network req — Axios.

React Framework eg — NextJs

Why to go for Framework / Libraries

① More reliable

- Provides sol<sup>n</sup> to common engineering problem
- Time tested (trust factor)
- Documentation & Community support

- ② Optimized by default (React)
- ③ Faster development  
(less code)
- ④ Consistent & standardised approach

### Disadvantages

### React

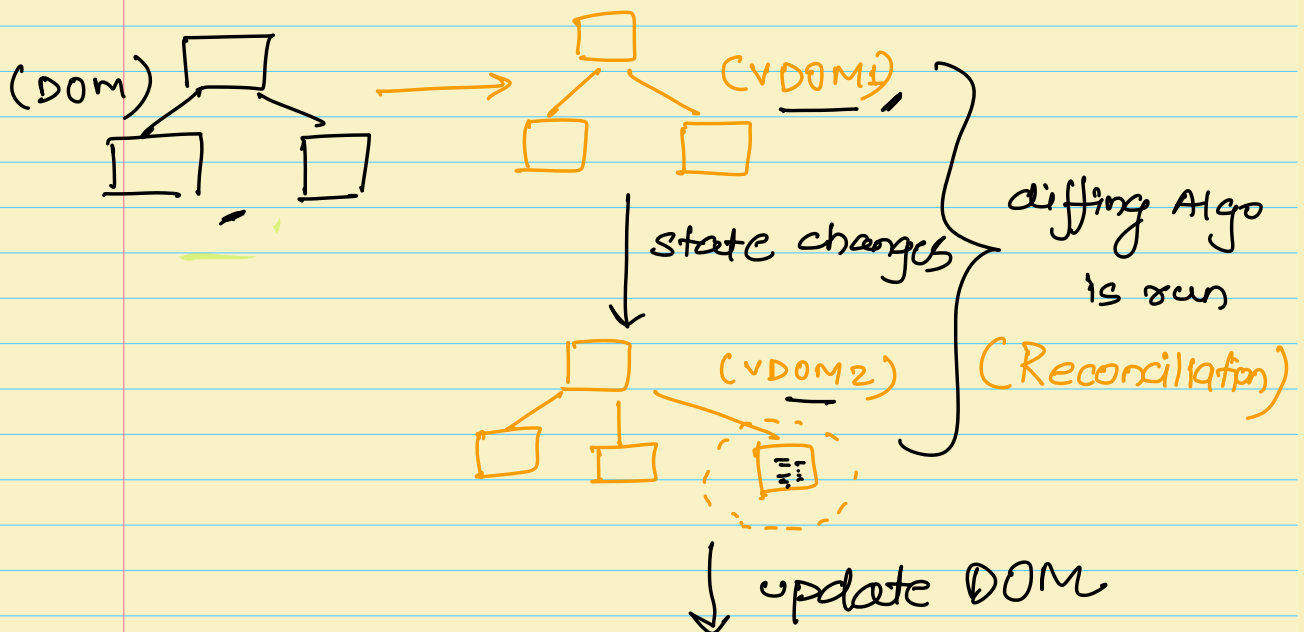
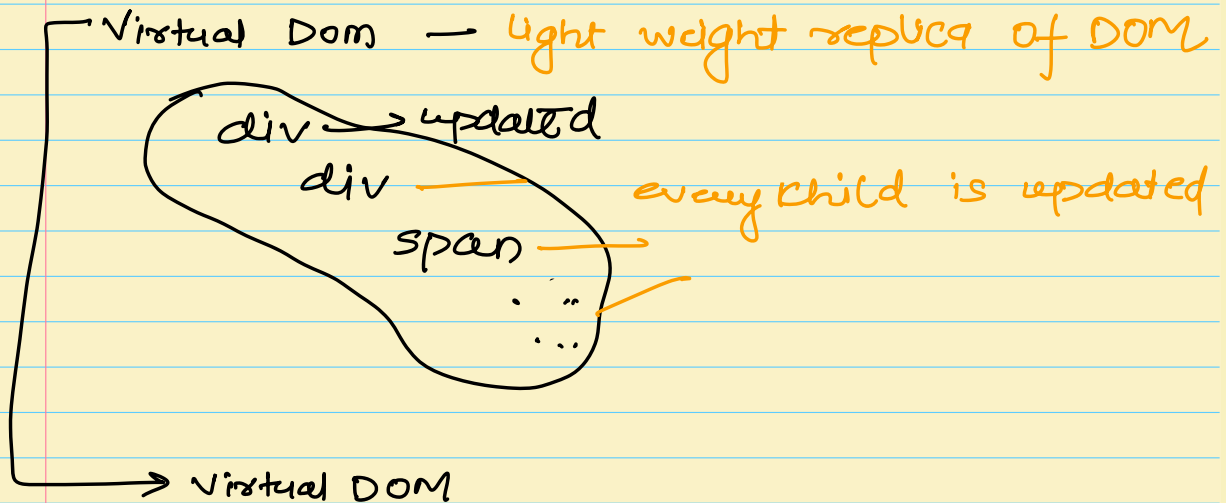
- Backed by Fb
- Lot of major tech players contributing
  - Airbnb (coding guidelines)
  - Netflix
  - Walmart
  - Plipkent

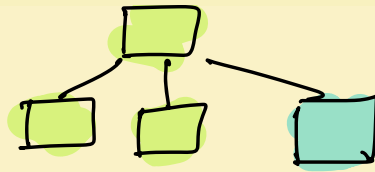
(First Principles - Elon Musk, Warren)

- It is efficient by default

## Virtual DOM

DOM - document object model (Tree DS)





What you need to get started?

1. Download latest node.js

2. Inside your terminal in code editor  
Run

- `npm install create-react-app`
- `create-react-app project-name`
- `npm start` to run program

Package.json has dependencies

- these dependencies get installed via "npm install" command
- all the dependencies are available in node-modules folder

Code written in class

<https://codesandbox.io/s/react-1-wx2sv3?file=/src/App.js>