



# Why React?

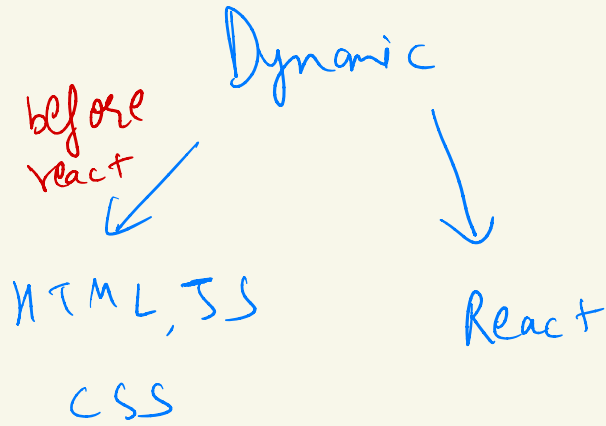
## Types of websites

Static

"DOM remains same"

Dynamic

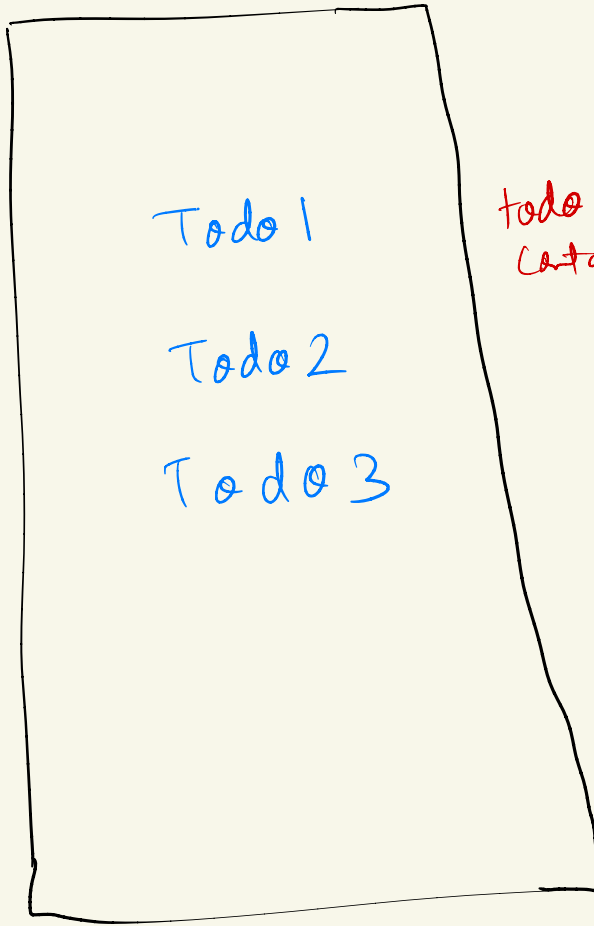
"DOM changes based on user's actions"



document. create Element  
document. append Child  
document. get Element Id

DOM manipulation  
is a very hard  
way to write  
as a developer

List goes on



`<div id="todo"> </div>`

`todo`  
container `= document.getElementById("todo")`

`todoContainer.innerHTML`  
`= " " ;`

- 
- ① attend react class
- ② go to gym
- ③ solve assignment
- ??
- ??
- ??

- ① attend DSA Class
- ② go to gym
- ③ solve assignment
- ④ eat dinner

this list is coming from backend

difference between  
old dom & new dom

& update accordingly

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react says you just update the state  
& leave diffing to me.

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Can we create react apps without

JSX  $\Rightarrow$  Yes

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JSX  $\Rightarrow$  It is JS XML & it's HTML like syntax. It allows us to write JS. inside HTML.

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HTML, JS.  $\Rightarrow$  HTML & JS in a way.

$\Downarrow$  markup  $\downarrow$  logic



J.S.X. is not pure J.S.

what browsers understand  $\Rightarrow$  pure J.S.

browsers (J.S. Engine)

J.S.X

Developers are happy

Browsers are  
not able to understand

Browsers were able  
to understand

React.createElement



J.S. object

J.S.X  $\implies$  J.S. object

"babe"

J.S.X Babel  $\Rightarrow$  React.createElement  $\Rightarrow$  J.S. object

`npm create-react-app`



root.render  
(dom object)  
/ HTML