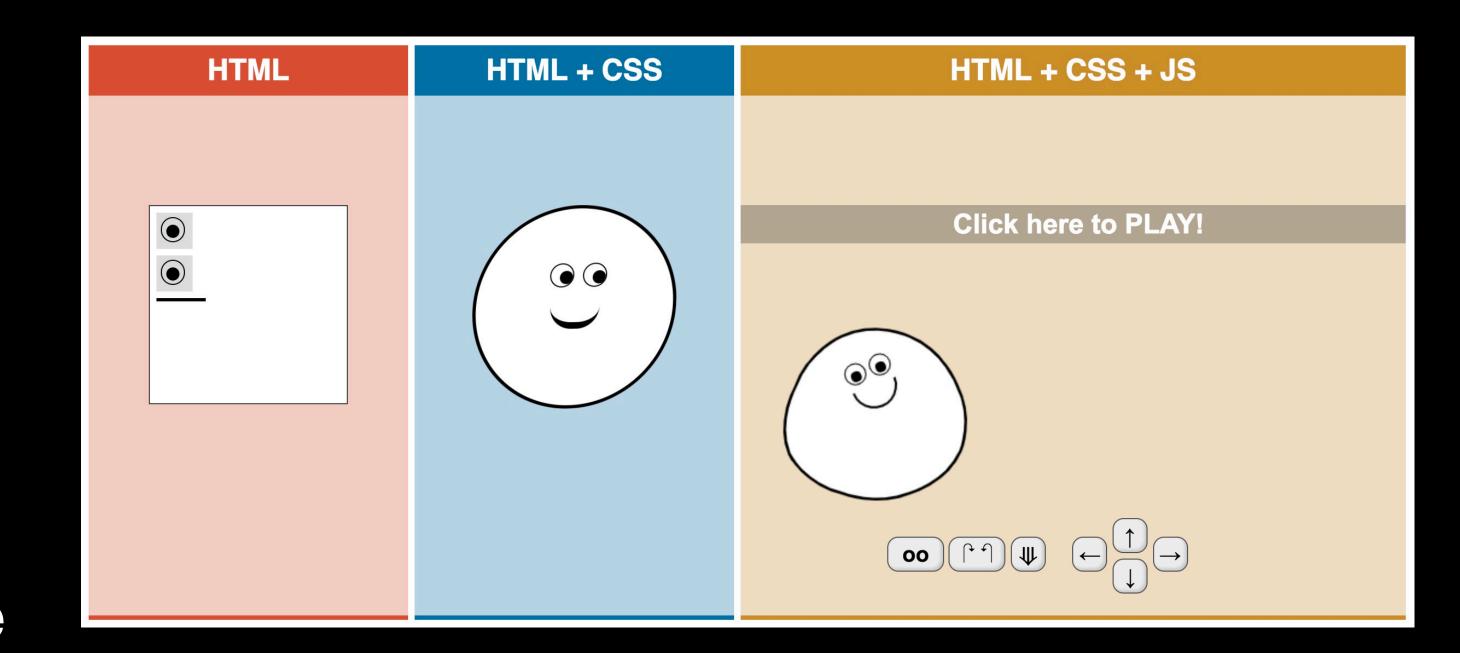
Coding

Front-end Web App HTML + CSS + JavaScript

• HTML: Skeleton of the website

CSS: Skin of the website

JavaScript: Spirit of the website



Vanilla JavaScript is not enough

- User interface is getting more and more complicated
- e.g. 62 million lines of code (Facebook)

Component-based



Component-based

```
> src

JS App.js

# index.css

JS index.js

# Todoltem.css

JS Todoltem.js

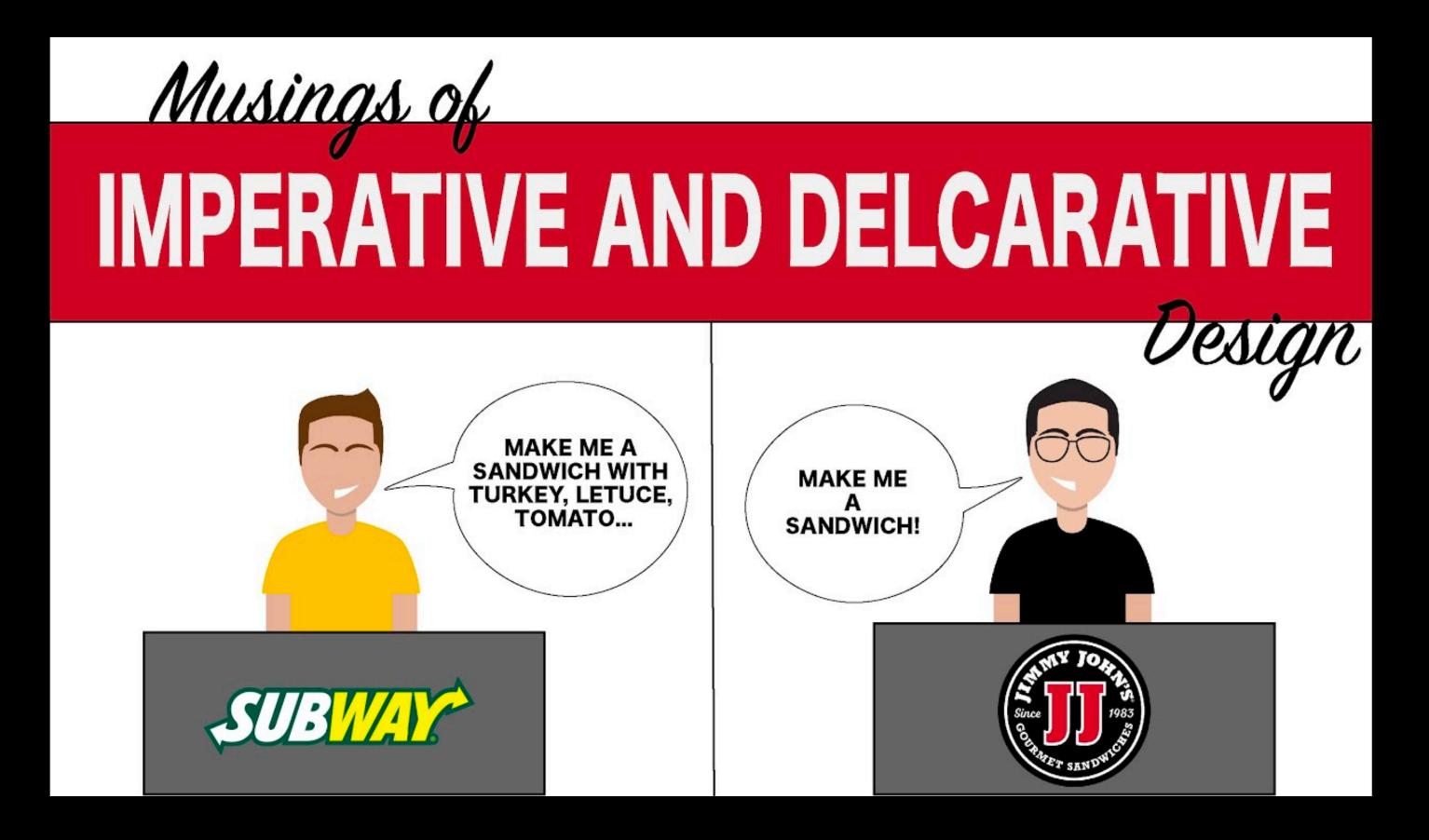
# TodoList.css

JS TodoList.js
```

https://codepen.io/yi-hung-chou/pen/PomqEyX

Declarative when render views

Imperative (Vanilla JavaScript) v.s. Declarative (React)



Declarative when render views

todoltems = empty list

Describe the view

Update the view accordingly

When user click the button: Update data

Update the view again

Vanilla JavaScript	React
const todoltems = []	const [todoltems, setTodoltems] = useState([])
In HTML: <div id="todo-items"></div>	<div>{todoltems}</div>
updateViewWithData(todoltems)	X
todoltems.push(newItem)	setTodoltems([todoltems, newItem]);
updateViewWithData(todoltems)	X

Learn once, write anywhere

- Easlily integrated with legacy code
 - CrowdNews
- Portable
 - ReactNative (Mobile App)
 - Electron + React (Desktop App)
 - ReactVR (Virtual Reality)

Docs

Blog

React

A JavaScript library for building user interfaces

Get Started

Take the Tutorial >

Declarative

React makes it painless to create interactive Uls. Design simple views for each state in your application, and React will efficiently update and render just the right components when your data changes.

Declarative views make your code more predictable and easier to debug.

Component-Based

Build encapsulated components that manage their own state, then compose them to make complex Uls.

Since component logic is written in JavaScript instead of templates, you can easily pass rich data through your app and keep state out of the DOM.

Learn Once, Write Anywhere

We don't make assumptions about the rest of your technology stack, so you can develop new features in React without rewriting existing code.

React can also render on the server using Node and power mobile apps using React Native.