# Day 1 Review

Daily Standup

1. Something you learned yesterday.

2. What you're looking forward to learning today.

3. Blockers. (confusion, questions, etc).

Vite

Components

Composition over Inheritance

Idiomatic Javascript - know JavaScript === know React

renders UI from components - happens with every state update

compares rendered UI with HTML DOM (in browser)

diff between Virtual DOM and HTML DOM

applies updates

One way data flow - all updates happen from state updates

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All data flow down

Events flow up

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Virtual DOM

ReactDOM.createNode().render()

JSX - template syntax using XML to write JavaScript

<div style={{}}>

<p>this is some text</p>

</div>

React.createElement('div', {style:{}}, React.createElement('p',null,"this is some text"))

{JS expression} - treat contents as literal JavaScript

JS expression === anything that returns a value

{myFunction()}

{customName}

variable

isTrue?dothis:dothat

isTrue&&isTrue // returns right side if both are true, left side if false

Return value of a component must be:

\* single element

\* primitive value

\* undefined

\* array of primitives or elements

<MyComponent />

Return value can't be:

<div>

<button></button>

</div>

return (

<>

<div></div>

<button></button>

</>

);

multiple elements (unless nested)

object

React Development Process

1. Break a mockup into components
2. Build a static version

<App >

<Header>

<Footer>

<Main products={products}>

<ProductList products={products}>

<Product product={product}>

<Cart cartItems={cartItems}>

<CartItems>

Conditional rendering

\* if / else statement outside of the return

\* &&

\* ternary (conditional operator)