49-2 What is JSX, React Component, babel transpiler

Passing Props to a Component

Click ME

Step 1: Pass props to the child component

Step 2: Read props inside the child component

```
function Avatar({ person, size }) {
   // person and size are available here
}
```

Forwarding props with the JSX spread syntax

```
function Profile({    person, size, isSepia, thickBorder
  return
    <div className="card">
      <Avatar
        person={person}
        size={size}
        isSepia={isSepia}
        thickBorder={thickBorder}
    </div>
```

Passing JSX as children

How props change over time

Conditionally returning JSX

```
function Item({    name, isPacked })
 return {name}
export default function PackingList()
 return
   <section>
     <h1>Sally Ride's Packing List</h1>
     <l
       <Item
         isPacked={true}
         name="Space suit'
```

Conditionally returning JSX

```
isPacked={true}
      name="Helmet with a golden leaf
    <Item
      isPacked={false}
      name="Photo of Tam'
</section>
```

Conditionally including JSX

```
if (isPacked) {
  return {name} \(\mathbf{V} < / \);
}
return <li className="item">{name} < / \);</pre>
```

Logical AND operator (&&)

```
return (

          {name} {isPacked && 'V'}

);
```

Rendering Lists

```
     Creola Katherine Johnson: mathematician
     Mario José Molina-Pasquel Henríquez: chemist
     Mohammad Abdus Salam: physicist
     Percy Lavon Julian: chemist
     Subrahmanyan Chandrasekhar: astrophysicist
```

Adding Interactivity

```
export default function App()
  return
    <Toolbar
      onPlayMovie={() => alert('Playing!')
      onUploadImage={() => alert('Uploading!')
function Toolbar({ onPlayMovie, onUploadImage })
  return
```

Adding Interactivity

Managing State

Escape Hatches

```
import { useRef } from 'react';

export default function Counter() --
  let ref = useRef(0);

function handleClick() {
   ref.current = ref.current + 1;
   alert('You clicked ' + ref.current + ' times!')
}
```