

Describing the UI

Session 02



Nesting Components

```
function App(){
  return (
    <div>
      <NavBar />
    </div>
  )
}

function NavBar(){
  return (
    <nav>
      <NavItem />
      <NavItem />
    </nav>
  )
}

function NavLink(){
  return (
    <a href="...">
      <Icon /> Some Label here
    </a>
  )
}
```

- App
 - NavBar
 - NavLink
 - Icon
 - NavLink
 - Icon

Props

Pass data to Components

```
function UserCard( { name, age } ) {  
  return (  
    <p>  
      Hi, I'm { name }. My age is { age }.  
    </p>  
  )  
}
```

{ }

in JSX

insert a
JavaScript
value

```
function App() {  
  return (  
    <UserCard name="Alex" age={36} />  
  )  
}
```

" "

for String
Value

{ }

for everything
else

Rendering data from Arrays

.map() returns rendered Components

```
const fruits = [ "apple", "banana", "orange" ];

return (
  <ul>
    {
      fruits.map( (fruit) => (
        <li>{fruit}</li>
      )
    }
  </ul>
)
```



never use
.map()
without the
key Prop

Always use `key` Prop with array Rendering

```
const fruits = [  
  {id: 1, name: "apple"},  
  {id: 2, name: "banana"},  
  {id: 3, name: "orange"}  
];  
  
return (  
  <ul>  
    {  
      fruits.map( (fruit) => (  
        <li key={fruit.id}>{fruit.name}</li>  
      )  
    }  
  </ul>  
)
```

always
provide a fixed

id

for each array
item

Conditional Rendering

Display content conditionally

IF logic

```
const showName = true;
const name = "Alex";

return (
  <div>
    <p>Hi, my name is:</p>
    {
      showName && <p>{name}</p>
    }
  </div>
)
```

IF - ELSE logic


```
const showName = true;
const name = "Alex";

return (
  <div>
    <p>Hi, my name is:</p>
    {
      showName
        ? <p>{name}</p>
        : <p>Name is hidden</p>
    }
  </div>
)
```

Special Prop: children

Between Start- and End-Tag

```
function App() {  
  return (  
    <div>  
      <UserCard name="Alex">  
        <h2>That's me</h2>  
        <p>I like climbing.<p>  
      </UserCard>  
    </div>  
  )  
}  
  
function UserCard({name, children}) {  
  return (  
    <div>  
      <p>Hi, I'm { name }.</p>  
      { children }  
    </div>  
  )  
}
```



A red box highlights the content between the start and end tags of the `<UserCard>` component in the `App` function: `<h2>That's me</h2>` and `<p>I like climbing.<p>`. A red arrow points from this box to the `{ children }` prop in the `UserCard` function, illustrating that the content between the start and end tags is passed as the `children` prop to the component.