



WEB TECHNOLOGIES

React.JS – Key Property

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React.JS – Key property

key property

- When returning an array or list of elements, the individual element should be uniquely identified by a **key** property
- The key property helps React identify each element in the list for rendering or updating etc.
- Not specifying the key property will display a warning on the console:

Warning: Each child in an array or iterator should have a unique "key" prop.



React.JS – Key property

Specifying Key

When returning a list of elements:

```
function Stuff () {  
  return (  
    [  
      <p>Batman</p>,  
      <p>Ironman</p>,  
      <p>Spiderman</p>  
    ]  
  );  
};
```

Specify key property as follows:

```
function Stuff () {  
  return (  
    [  
      <p key="1">Batman</p>,  
      <p key="2">Ironman</p>,  
      <p key="3">Spiderman</p>  
    ]  
  );  
};
```



React.JS – Key property

Using map method



- To Recap, the map method on an array or list, calls a callback function for each element of the array

```
const numbers = [1, 2, 3, 4, 5];
```

```
const doubled = numbers.map((number) => number * 2);
```

```
console.log(doubled);
```



React.JS – Key property

Using map method



- We return a `` element for each item.

```
const numbers = [1, 2, 3, 4, 5];
```

```
const listItems = numbers.map((number) => <li>{number}</li>);
```

We include the entire `listItems` array inside a `` element, and render it to the DOM:

```
ReactDOM.render(  
  <ul>{listItems}</ul>,  
  document.getElementById('root') );
```

The code will result in error, as the list of items does not have the key property.



React.JS – Key property

Using map method

- By assigning the key property to the list items

```
function NumberList(props) {  
  const numbers = props.numbers;  
  const listItems = numbers.map((number) =>  
    <li key={number.toString()}> {number} </li>  
  );  
  return ( <ul>{listItems}</ul> );  
}  
const numbers = [1, 2, 3, 4, 5];  
ReactDOM.render(  
  <NumberList numbers={numbers} />,  
  document.getElementById('root') );
```





THANK YOU

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