

## Why can't you return adjacent, top-level JSX elements?

It becomes clear, once you translate the JSX code to the `React.createElement()` calls React actually executes (don't forget: The React project build workflow performs this transformation for you!)

**JSX:**

```
import React from 'react';

const heading = props => (
  <h1>{props.title}</h1>
  <h2>{props.subtitle}</h2>
);

export default heading;
```

This is NOT allowed because it would be translated to:

```
import React from 'react';

const heading = props => React.createElement('h1', {}, props.title) React.createElement('h2', {}, props.subtitle);

export default heading;
```

This is **invalid JavaScript syntax**, you're trying to return two expressions (two `React.createElement()` calls).

You are allowed to do that if you

- a) return an array of `React.createElement()` calls OR
- b) return a single `React.createElement()` call that wraps the other two

a)

```
import React from 'react';

const heading = props => [
  React.createElement('h1', {key: 'i1'}, props.title),
  React.createElement('h2', {key: 'i2'}, props.subtitle)
];

export default heading;
```

This is equivalent to returning an array of keyed JSX elements.

b)

```
import React from 'react';

import Aux from '../hoc/Aux';

const heading = props => React.createElement(
  Aux,
  {},
  React.createElement('h1', {key: 'i1'}, props.title),
  React.createElement('h2', {key: 'i2'}, props.subtitle)
);

export default heading;
```

This is equivalent to using <Aux>.

b) works because we can pass as many children (third argument to `React.createElement()`) as we want.

React Adjacent JSX means wrapping up of all JSX Code in a single div element. But it's alternative is to create a Higher Order Component having a Auxiliary.jsx which is used to wrap up the return statement jsx code but it has a limitation that it makes the CSS Styling difficult to do.

```
return [
  <p>.....</p>,
  any more jsx code
];
```

This means that sending a JSX Code in a single `React.createElement()` in a Array Format.

[Important Note -> When using Return statement in an Array Format we have to key value to every JSX Element as React wants to distinguish between elements.