Fragments

A common pattern in React is for a component to return multiple elements. Fragments let you group a list of children without adding extra nodes to the DOM.

There is also a new short syntax for declaring them.

Motivation

A common pattern is for a component to return a list of children. Take this example React snippet:

<Columns /> would need to return multiple elements in order for the rendered HTML to be valid. If a parent div was used inside the render() of <Columns />, then the resulting HTML will be invalid.

results in a <Table /> output of:

INSTALLATION ~

MAIN CONCEPTS V

ADVANCED GUIDES ^

Accessibility

Code-Splitting

Context

Error Boundaries

Forwarding Refs

Fragments

Higher-Order Components

Integrating with Other Libraries

JSX In Depth

Optimizing Performance

Portals

Profiler

React Without ES6

React Without JSX

Reconciliation

Refs and the DOM

Render Props

Static Type Checking

Strict Mode

Typechecking With PropTypes

Uncontrolled Components

Web Components

API REFERENCE Y

HOOKS ~

TESTING V

CONCURRENT MODE

(EXPERIMENTAL) ~

CONTRIBUTING ~

FAQ ~

```
<div>
<div>
Hello
</di>

</di>
</div>
</div>
```

Fragments solve this problem.

Usage

which results in a correct <Table /> output of:

```
Hello
```

Short Syntax

There is a new, shorter syntax you can use for declaring fragments. It looks like empty tags:

You can use <></> the same way you'd use any other element except that it doesn't support keys or attributes.

Keyed Fragments

Fragments declared with the explicit React.Fragment syntax may have keys. A use case for this is mapping a collection to an array of fragments — for example, to create a description list:

INSTALLATION ~

MAIN CONCEPTS V

ADVANCED GUIDES ^

Accessibility

Code-Splitting

Context

Error Boundaries

Forwarding Refs

Fragments

Higher-Order Components

Integrating with Other Libraries

JSX In Depth

Optimizing Performance

Portals

Profiler

React Without ES6

React Without JSX

Reconciliation

Refs and the DOM

Render Props

Static Type Checking

Strict Mode

Typechecking With PropTypes

Uncontrolled Components

Web Components

API REFERENCE Y

HOOKS ~

TESTING V

CONCURRENT MODE

(EXPERIMENTAL) >

CONTRIBUTING V

FAQ ~

key is the only attribute that can be passed to Fragment. In the future, we may add support for additional attributes, such as event handlers.

Live Demo

You can try out the new JSX fragment syntax with this CodePen.

Edit this page

INSTALLATION ~

MAIN CONCEPTS V

ADVANCED GUIDES ^

Accessibility

Code-Splitting

Context

Error Boundaries

Forwarding Refs

Fragments

Higher-Order Components

Integrating with Other Libraries

JSX In Depth

Optimizing Performance

Portals

Profiler

React Without ES6

React Without JSX

Reconciliation

Refs and the DOM

Render Props

Static Type Checking

Strict Mode

Typechecking With PropTypes

Uncontrolled Components

Web Components

API REFERENCE V

HOOKS V

TESTING ~

CONCURRENT MODE

(EXPERIMENTAL) V

CONTRIBUTING ~

FAQ ~