✕   🔍

ELEMENTS

Instructions

1. Update index.html file and

2. Hit the following url from the browser http://localhost:8081/

Hello World

index.html

```
<script src="https://unpkg.com/react@16/umd/react.development.js"
crossorigin></script>
<script src="https://unpkg.com/react-dom@16/umd/react-
dom.development.js" crossorigin></script>
<script src="https://unpkg.com/babel-standalone@6/babel.min.js">
</script>

<div id="root">
</div>

<script type="text/babel">
ReactDOM.render(
    <h1>Hello World!</h1>,
    document.getElementById("root")
);
</script>
```

Templating

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✕   **index.html**   🔍

```html
<script src="https://unpkg.com/react@16/umd/react.development.js"
crossorigin></script>
<script src="https://unpkg.com/react-dom@16/umd/react-
dom.development.js" crossorigin></script>
<script src="https://unpkg.com/babel-standalone@6/babel.min.js">
</script>

<div id="root">
</div>


<script type="text/babel">

let name = "Archan";

ReactDOM.render(
    <h1>Hello {name}!</h1>,
    document.getElementById("root")
);
</script>
```

<p align="center">Without JSX</p>

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index.html

```
<script src="https://unpkg.com/react@16/umd/react.development.js"
crossorigin></script>
<script src="https://unpkg.com/react-dom@16/umd/react-
dom.development.js" crossorigin></script>

<div id="root">
</div>


<script>

let greeting = React.createElement("h1",{},"Hello World!");

ReactDOM.render(
    greeting,
    document.getElementById("root")
);

</script>
```

JSX Expressions

index.html

```
<!-- JSX as an expression -->
<script src="https://unpkg.com/react@16/umd/react.development.js"
crossorigin></script>
<script src="https://unpkg.com/react-dom@16/umd/react-
dom.development.js" crossorigin></script>
<script src="https://unpkg.com/babel-standalone@6/babel.min.js">
</script>

<div id="root">
</div>


<script type="text/babel">

let one = <p> This is a paragraph </p>;
console.log(one);
```

```
sole.log(one);

a = [];
for(let i = 0; i < 5; i++)
{
    a.push(<button> {i} </button>);
}
console.log(a);

function f1(flag)
{
    if(flag) return <div>This is div</div>;
    else return <textarea>This is text area</textarea>
}
console.log(f1(true));
console.log(f1(false));

ReactDOM.render(
    <div>
        {a}
        {f1(true)}
        {f1(false)}
    </div>,
    document.getElementById("root")
);


</script>
```

Composite Elements

index.html

```
<script src="https://unpkg.com/react@16/umd/react.development.js"
crossorigin></script>
<script src="https://unpkg.com/react-dom@16/umd/react-
dom.development.js" crossorigin></script>
<script src="https://unpkg.com/babel-standalone@6/babel.min.js">
</script>

<div id="root">
</div>


<script type="text/babel">
ReactDOM.render(
    <div>
        <div>Div1</div>
        <div>Div2</div>
        <div>Div3</div>
        <div>Div4</div>
        <div>Div5</div>
    </div>,
   document.getElementById("root")
);
</script>
```

Immutability and Rendering

✕   **index.html**   🔍

```html
<script src="https://unpkg.com/react@16/umd/react.development.js"
crossorigin></script>
<script src="https://unpkg.com/react-dom@16/umd/react-
dom.development.js" crossorigin></script>
<script src="https://unpkg.com/babel-standalone@6/babel.min.js">
</script>

<div id="root">
</div>


<script type="text/babel">
ReactDOM.render(
    <h1>Hello World!</h1>,
    document.getElementById("root")
);

ReactDOM.render(
    <h1>Hello Universe</h1>,
    document.getElementById("root")
);
</script>
```

Updation and Diffing

index.html

```html
<script src="https://unpkg.com/react@16/umd/react.development.js"
crossorigin></script>
<script src="https://unpkg.com/react-dom@16/umd/react-
dom.development.js" crossorigin></script>
<script src="https://unpkg.com/babel-standalone@6/babel.min.js">
</script>

<div id="root">
</div>


<button onclick="incrementCount()">+</button>
<button onclick="decrementCount()">-</button>
```

```
tton onctick- decrementcount() > </button>

ript type="text/babel">

let count = 0;

function getCount()
{
    return <h1> {count} </h1>;
}

function incrementCount()
{
    count++;
    updateUI();
}

function decrementCount()
{
    count--;
    updateUI();
}

function updateUI()
{
    ReactDOM.render(
        getCount(),
        document.getElementById("root")
    );
}

ReactDOM.render(
    getCount(),
    document.getElementById("root")
);
</script>
```

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