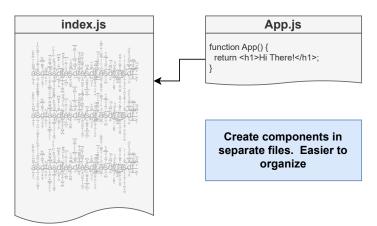
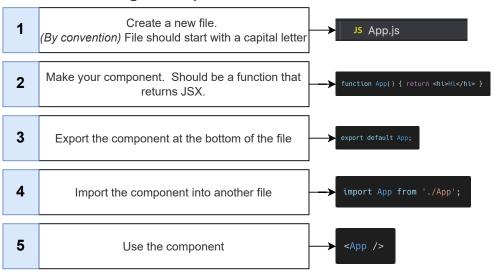
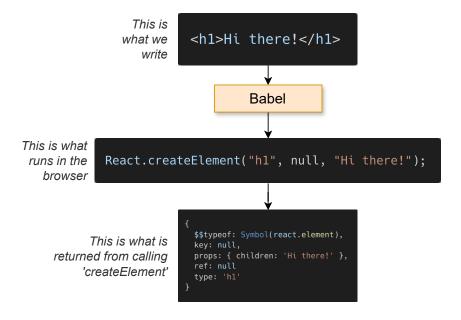
# index.js

The index.js file can get messy really quickly



#### **Creating a Component**





#### babeljs.io/repl

Tool to show you what your JSX

# <h1>Hi there!</h1>

Writing this doesn't make anything show up in the browser automatically

This creates an **instruction** for React, telling it to make an element

We have to **return** it from a component for React to use it

```
Good!

JSX on same line as return

function App() {

return <h1>Hi!</h1>
```

}

```
Good!
Paren on same line as return
```

```
function App() {
  return (
      <h1>Hi!</h1>
  );
}
```

#### Bad! JSX on next line

```
function App() {
  return;
  <h1>Hi!</h1>;
}
```

```
Bad!
Paren on next line
```

```
function App() {
  return
  (<h1>Hi!</h1>);
```

### Standard HTML

## Some tags can be self closing

k />

<col />

# **JSX**

## Any tag can be self closing

```
<div />
          <span />
 <button />
         <label />
```

Use self-closing tags unless you want to nest an element

#### Very long elements should be multi-lined

```
\label{local-condition} $$ -\in umber" type="number" min={5} \max={10} \ value={7} \ placeholder={5} /> \ (10) \ value={7} \ placeholder={5} /> \ (10) \ placeholder={5} /> \ placeholder={5} /
```

```
<input
id="number"
type="number"
min={5}
max={10}
value={7}
placeholder={5}
/>
```

# Curly braces mean we are about to reference a JS variable or expression

```
function App() {
 const message = 'Hi there!';
  return <h1>{message}</h1>
```

# **Expressions** are any snippets of code that result in a value.

```
Good

function App() {
  return <h1>{1 + 1}</h1>
}
```

```
function App() {
  return <h1>{const message = 'hi there'}</h1>
}
```

```
Good
function App() {
  return <hl>{'a,b,c'.split(',')}</hl>
}
```

```
function App() {
  const colors = {};
  return <hl>{colors.favorite = 'red'}</hl>
}
```

# Some values might not display quite as you expect

```
function App() {
  const value = true;

  return <h1>{value}</h1>
}
```

What will be in the h1?

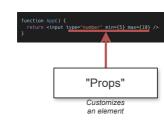
## **Basics of JSX**

Returning JSX
Handling JSX tags

Referencing JS values in JSX

Inline Styles

Element Props



```
function App() {
  const message = 'Enter age';
  return (
    <input
                                               Strings - Wrap with double quotes
       type="number"
                                               Numbers - Wrap with curly braces
       min={5}
       max={10}
                                                Arrays - Wrap with curly braces
       list={[1,2,3]}
       style={{ color: 'red' }}
                                                Objects - Wrap with curly braces
       alt={message}
     />
                                               Variables - Wrap with curly braces
```

#### HTML

<a href="google.com" style="text-decoration: none; font-size: 20px;">
Google
</a>

#### JSX Equivalent

Inline styling is given as an object

Property names are camelCase (no dashes)

Pixel values are strings with 'px'