# 

# **JSX**

- A file extension: tsx for TypeScript.
- A syntax for building trees: <div>Hello!</div>
- With built-in interpolation syntax: {foo} interpolates the variable foo for either content or property values.
- Which returns a new type: JSX.Element
- An integration with a library: The syntax translates to a function call of your choice to work with React or other libraries.

### Food Truck Receipt

- Entrees, toppings, proteins get emoji icons.
- Pricey proteins get a crown next to them.
- Awesome sauce gets a nuclear icon.
- Any line item with awesome sauce is mind-blowing, and therefore gets an emoji backdrop.
- Display a subtotal, tip, and total.

### **Order Summary**













Total: \$11







Tomato

Total: \$5

Subtotal: \$16

Tip: \$4

Total: \$20.00

# Storybook

npm run exercise-4

Browse http://localhost:6006

# React Components

```
const motivation =
  <MyComponent name="Drew" />
```

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```
type MyComponentProps = { name: string };
const MyComponent: React.SFC<MyComponentProps> = props =>
    <div>Hello {name}!</div>
const ex1 =
    <MyComponent name="Drew" />
const aName = "Rachael";
const b = <MyComponent name={aName} />
const invalid = <MyComponent name={1} />
// Type Error!
```

### **Prop Types**

```
export interface ReceiptProps {
  items: ItemSummaryProps[];
  subtotal: number;
  tip: number;
 total: number;
export interface ItemSummaryProps {
  entreeType: EntreeType;
  additions: AdditionSummaryProps[];
  mindBlowing: boolean;
  itemTotal: number;
export interface AdditionSummaryProps {
  annotation?: Annotation; // Pricey or nuclear?
  additionType: AllComponents;
export enum Annotation {
  Pricey = "Pricey",
  Nuclear = "Nuclear"
```

### **Order Summary**





Carnitas





Extra Taco

**Awesome Sauce** 

Total: \$11



Chicken

Lettuce

Tomato

Total: \$5

Subtotal: \$16 Tip: \$4

Total: \$20.00

### References

- Introducing JSX <a href="https://reactjs.org/docs/introducing-jsx.html">https://reactjs.org/docs/introducing-jsx.html</a>
- Lists and Keys <a href="https://reactjs.org/docs/lists-and-keys.html">https://reactjs.org/docs/lists-and-keys.html</a>
- Git book:

https://basarat.gitbooks.io/typescript/content/docs/jsx/tsx.html