# Chapter 3: JSX

**Summary**

In this chapter, you learned about the basics of JSX, including its declarative structure, which leads to more maintainable code. Then, you wrote some code to render some basic HTML and learned about describing complex structures using JSX; every React application has at least some structure. Next, you spent some time learning about extending the vocabulary of JSX markup by implementing your own React components, which is how you design your UI as a series of smaller pieces and glue them together to form the whole. Then, you learned how to bring dynamic content into JSX element properties, and how to map JavaScript collections to JSX elements, eliminating the need for imperative logic to control the UI display. Finally, you learned how to render fragments of JSX content using new React 16 functionality, which prevents unnecessary HTML elements from being used. Now that you have a feel for what it's like to render UIs by embedding declarative XML in your JavaScript modules, it's time to move on to the next chapter, where we'll take a deeper look at component properties and state.

**Further reading**

Refer to the following links for more information:

* Introducing JSX: <https://reactjs.org/docs/introducing-jsx.html>
* Fragments: <https://reactjs.org/docs/fragments.html>

**Exercises**

1. Make a MyImage component that includes an <img> and text below it.
2. Add fragments to your component
3. Add code to add the url of the image and the text beneath it as dynamic values
4. Change the code to have a list of 3 images and 3 texts and map the collection to the element

# Chapter 3: Component Properties, State and Context