
Contents

| | | |
|----------|-------------------------------------|-----------|
| 1 | Introduction | 5 |
| | Why Just React? | 7 |
| | How This Book Works | 8 |
| | Environment Setup | 11 |
| | Debugging Crash Course | 14 |
| 2 | Hello World | 16 |
| 3 | JSX: What and Why | 19 |
| | What Is JSX? | 19 |
| | HTML Inside JavaScript?! | 19 |
| 4 | Working With JSX | 24 |
| | Composing Components | 24 |
| | Wrap JSX with Parentheses | 25 |
| | “If” in JSX | 29 |
| | Exercises | 31 |
| 5 | Example: Tweet Component | 34 |
| 6 | Props | 48 |
| | Arguments to Components | 48 |

| | |
|---|-----------|
| Communicating With Parent Components | 51 |
| 7 Example: Tweet With Props | 53 |
| What Exactly Should Be Passed as a Prop? | 57 |
| Guidelines for Naming Props | 58 |
| 8 PropTypes | 63 |
| Documentation and Debugging In One | 63 |
| How Do I Validate Thee, Let Me Count the Ways | 65 |
| Example: Tweet with PropTypes | 70 |
| PropTypes as Documentation | 73 |
| Exercises | 74 |
| 9 Children | 76 |
| Different Types of Children | 77 |
| Dealing with the Children | 77 |
| PropTypes for Children | 78 |
| Versus Transclusion in Angular | 79 |
| A More Interesting Example | 79 |
| Exercises | 81 |
| 10 Example: GitHub File List | 83 |
| The “key” Prop | 88 |

| | |
|------------------------------------|------------|
| Exercises | 97 |
| 11 State | 101 |
| Example: A Counter | 101 |
| setState Is Asynchronous | 103 |
| Shallow vs Deep Merge | 105 |
| Handling Events | 106 |
| What to Put in State | 107 |
| Thinking Declaratively | 107 |
| Where to Keep State | 111 |
| “Kinds” of Components | 114 |
| 12 Input Controls | 115 |
| Controlled Inputs | 115 |
| Uncontrolled Inputs | 118 |
| 13 The Component Lifecycle | 119 |
| 14 Example: Shopping Site | 124 |
| Create ItemPage | 132 |
| Create Item | 135 |
| Create CartPage | 144 |
| Array.prototype.reduce | 146 |

| | |
|---------------------------------|------------|
| Object.keys | 147 |
| Exercises | 153 |
| 15 Where To Go From Here | 156 |