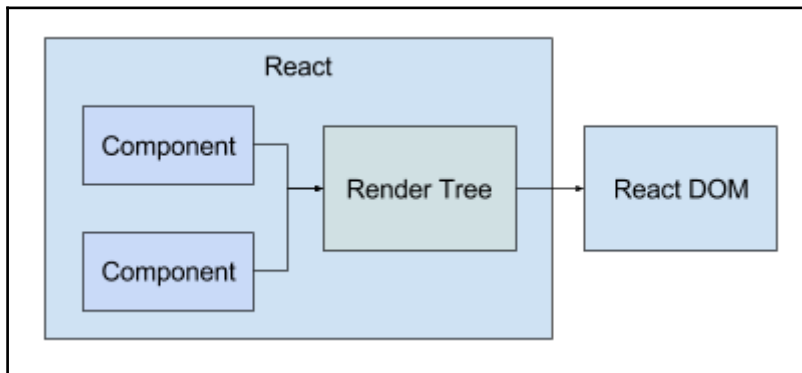
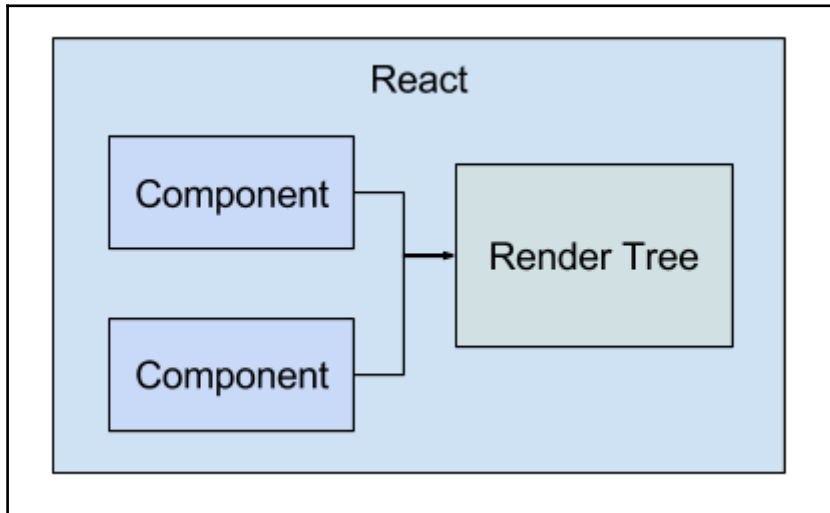
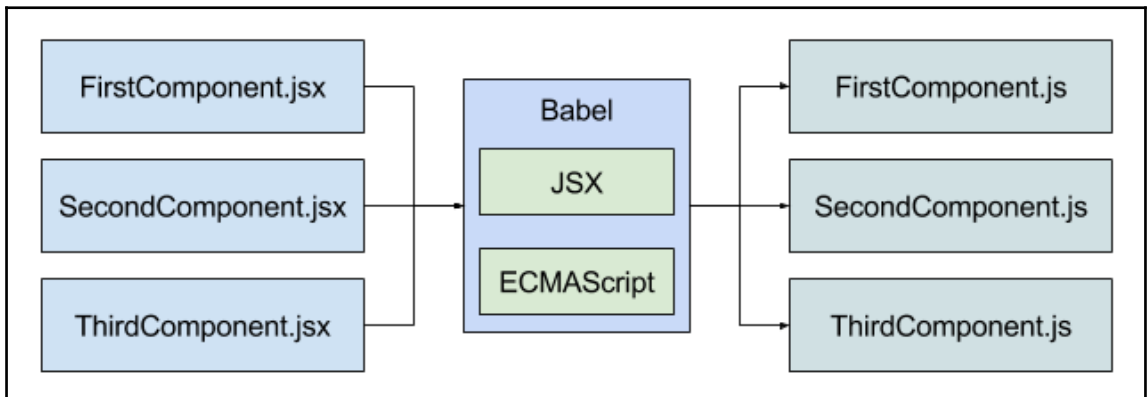
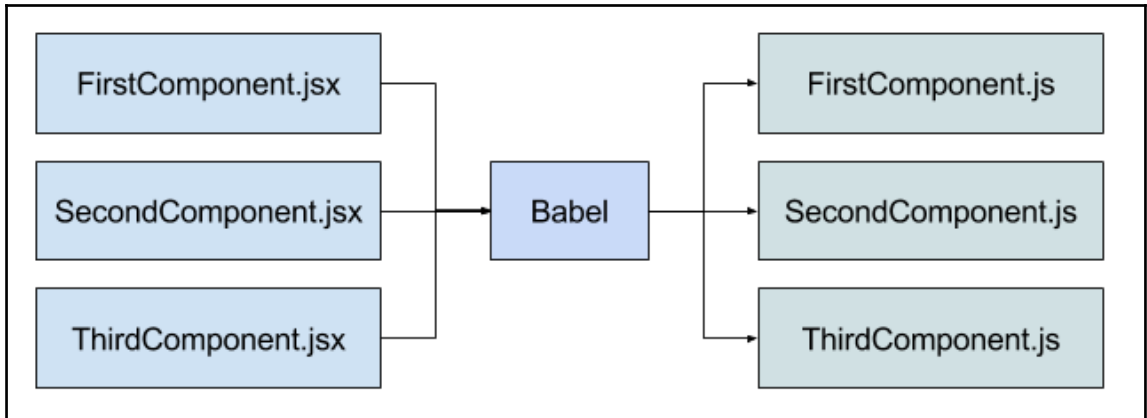
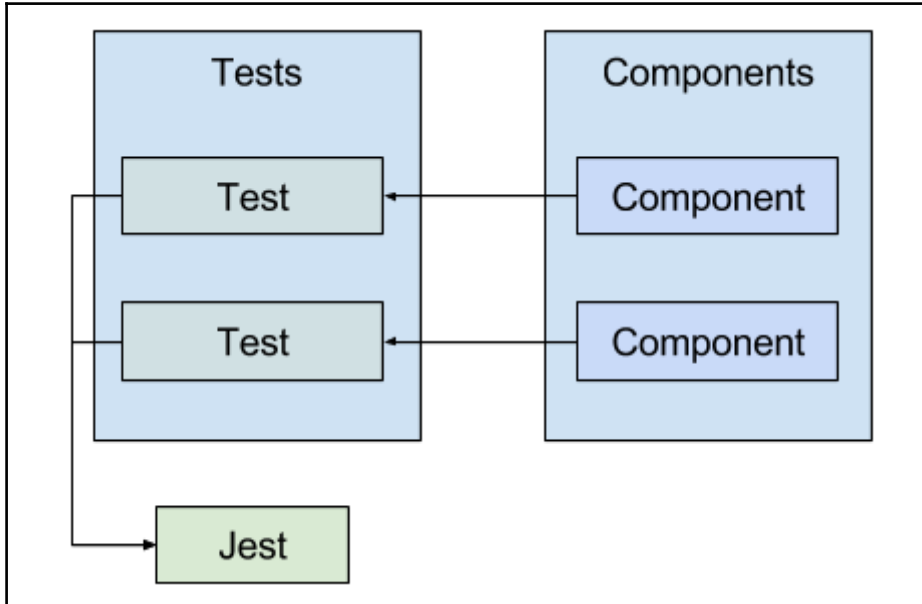
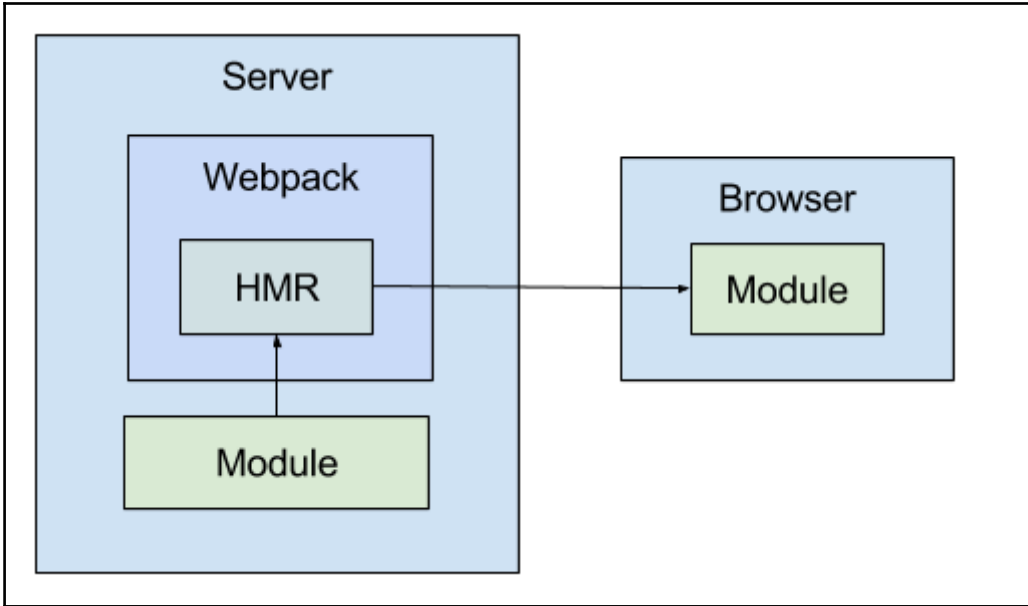
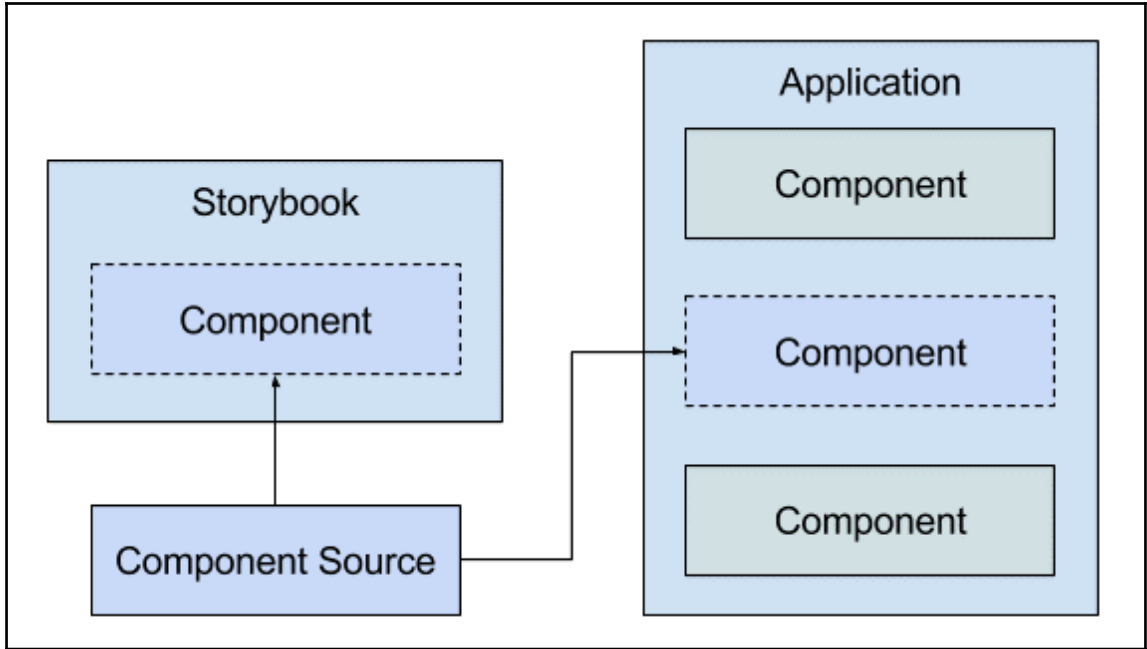


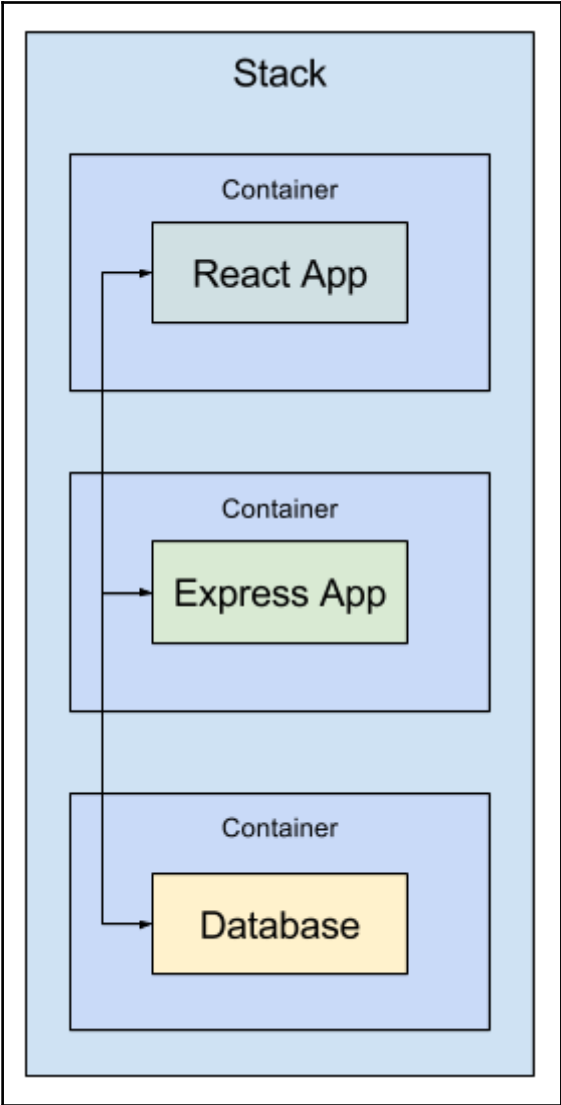
# Chapter 1: Creating a Personalized React Development Ecosystem











---

## Chapter 3: Development Mode and Mastering Hot Reloading



**Welcome to React**

To get started, edit `src/App.js` and save to reload.



**Welcome to React**

**My App**



**Welcome to React**

**My App Heading**

**My App Heading**

Clicks: 0

---

# **My App Heading**

Clicks: 3

# **My App Heading**

Clicks: 0

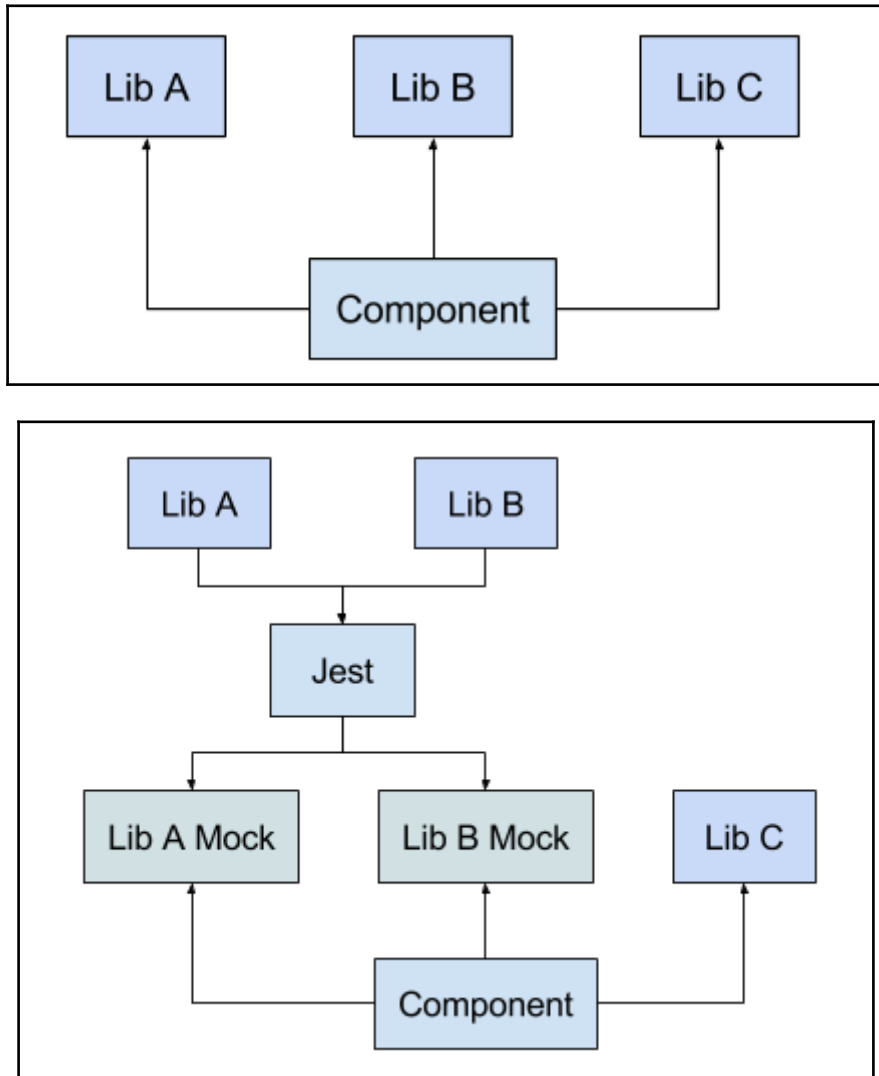
# **My App Heading**

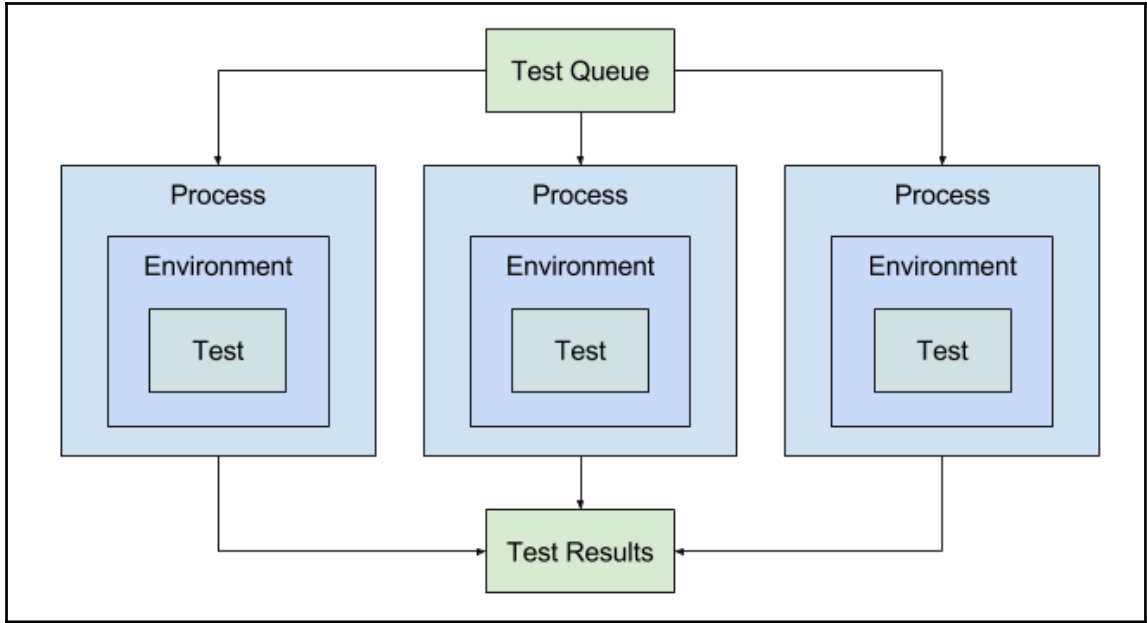
Clicks: 2



---

## Chapter 4: Optimizing Test-Driven React Development





---

# Chapter 5: Streamlining Development and Refactoring with Type-Safe React Components


## Failed to compile

```
Flow: Type Error
Error: src/App.js:6
  6: class App extends Component {
      ~~~~~~ Component. Too few type arguments. Expected at least 1
 26: declare class React$Component<Props, State = void> {
      ~~~~~~ See type parameters of definition here.
```

Found 1 error  
Please wait. Server is garbage collecting shared memory: -

This error occurred during the build time and cannot be dismissed.

**linter-flow** 5.6.1

 41,191

Lint JavaScript on the fly, using Flow



AtomLinter



Settings



Uninstall



Disable

## Executable Path

Absolute path to the Flow executable on your system.

```
./node_modules/.bin/flow
```

---

| Linter   |          |  |      |
|----------|----------|--|------|
| Severity | Provider | Description  | Line |
| Error    | Flow     | Component Too few type arguments.<br>Expected at least 1 See type parameters<br>of definition here | 6:19 |

```
5
6   • class App extends Component {
7     render() {
8     return (
```

---

## Chapter 6: Enforcing Code Quality to Improve Maintainability

### Failed to compile

```
./src/App.js  
Line 5: 'Component' is not defined  no-undef
```

Search for the **keywords** to learn more about each error.

This error occurred during the build time and cannot be dismissed.

**linter-eslint** 8.4.0

 1,087,601

Lint JavaScript on the fly, using ESLint



AtomLinter



Settings



Uninstall



Disable

---

## App.js

```
1  import React from 'react';
2  import logo from './logo.svg';
3  import './App.css';
4
5  class App extends Component {
6    render() {
7      return (
8        <div className="App">
9          <header className="App-header">
10             <img src={logo} className="App-logo" alt="logo" />
11             <h1 className="App-title">Welcome to React</h1>
12          </header>
13          <p className="App-intro">
14             To get started, edit <code>src/App.js</code> and save to reload.
15          </p>
16        </div>
17      );
18    }
19  }
20
21  export default App;
```

```
App.js
1  import React from 'react';
2  import logo from './logo.svg';
3  import './App.css';
4
5  • class App extends Component {
6    render() {
7      return (
8        <div className="App">
9          <header className="App-header">
10           <img1 src={logo} className="App-logo" alt="logo" />
11           <h1 className="App-title">Welcome to React</h1>
12         </header>
13         <p className="App-intro">
14           To get started, edit <code>src/App.js</code> and save to reload.
15         </p>
16       </div>
17     );
18   }
19 }
20
21 export default App;
22
```

Linter

| Severity | Provider | Description                            | Line |
|----------|----------|--|------|
| Error    | ESLint   | 'Component' is not defined. (no-undef) | 5:19 |

---

**prettier-atom** 0.48.0

 178,455

Atom plugin for formatting JavaScript using prettier with (optional) prettier-eslint integration



prettier



Uninstall



Disable



**Format Files on Save**

Automatically format entire file when saving.



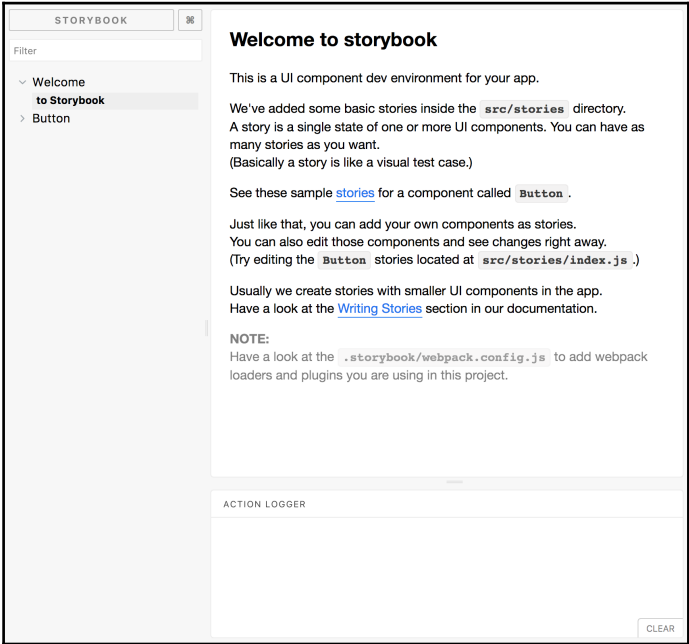
```
App.js
1  import
2  React, { Component } from "react";
3      import logo from "./logo.svg";
4  import "./App.css";
5
6  class App extends Component {
7    render () {return (
8      <div className="App">
9        <header className="App-header" >
10         <img src={logo} className="App-logo" alt="logo" />
11
12         <h1 className="App-title">Welcome to React</h1>
13       </header>
14       <p      className="App-intro">
15         To get started, edit <code>src/App.js</code> and save to reload.
16
17       </p>
18     </div>
19   );
20 }
21 }
22
23 export default App
24 ;
25
```

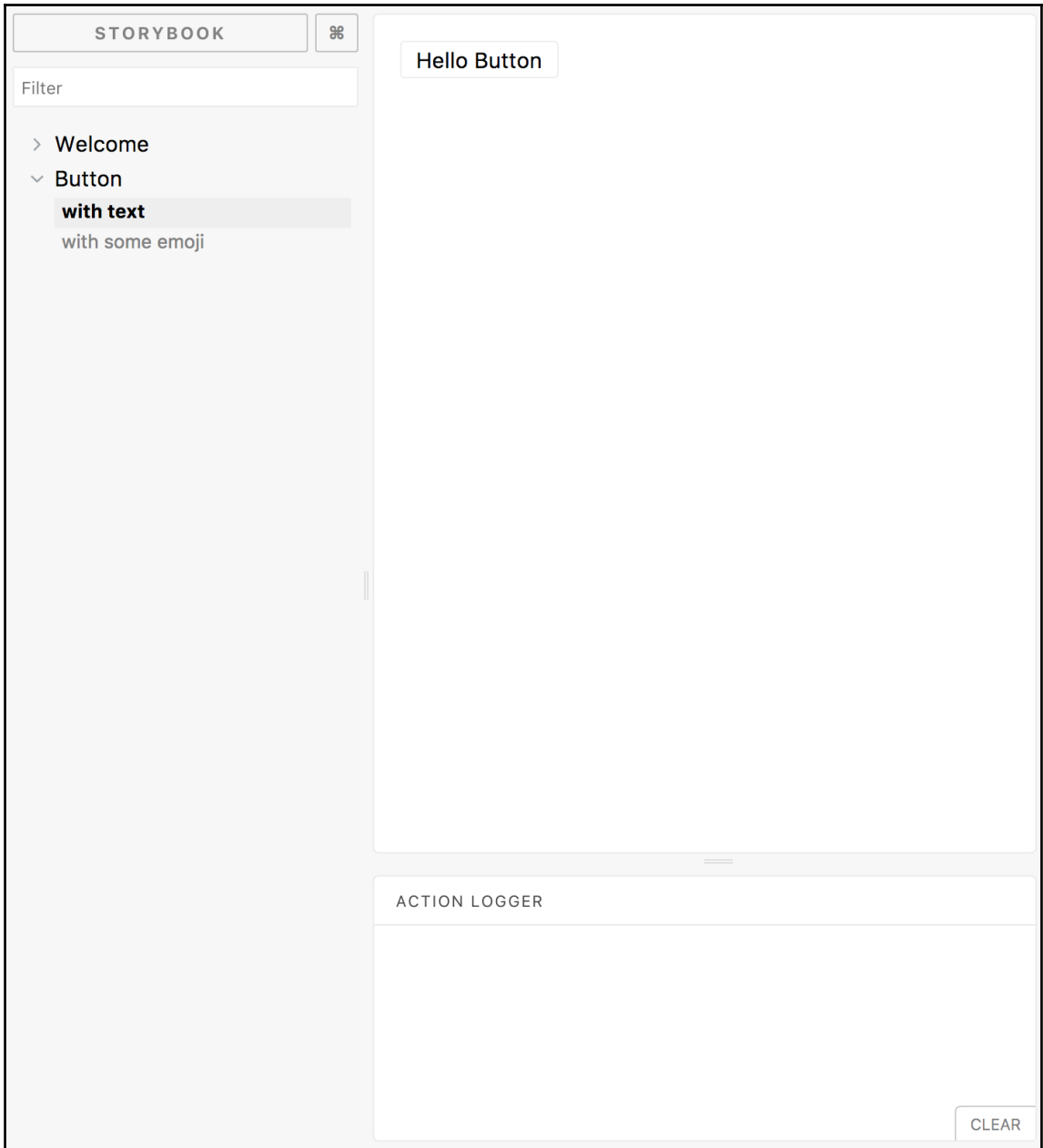
---

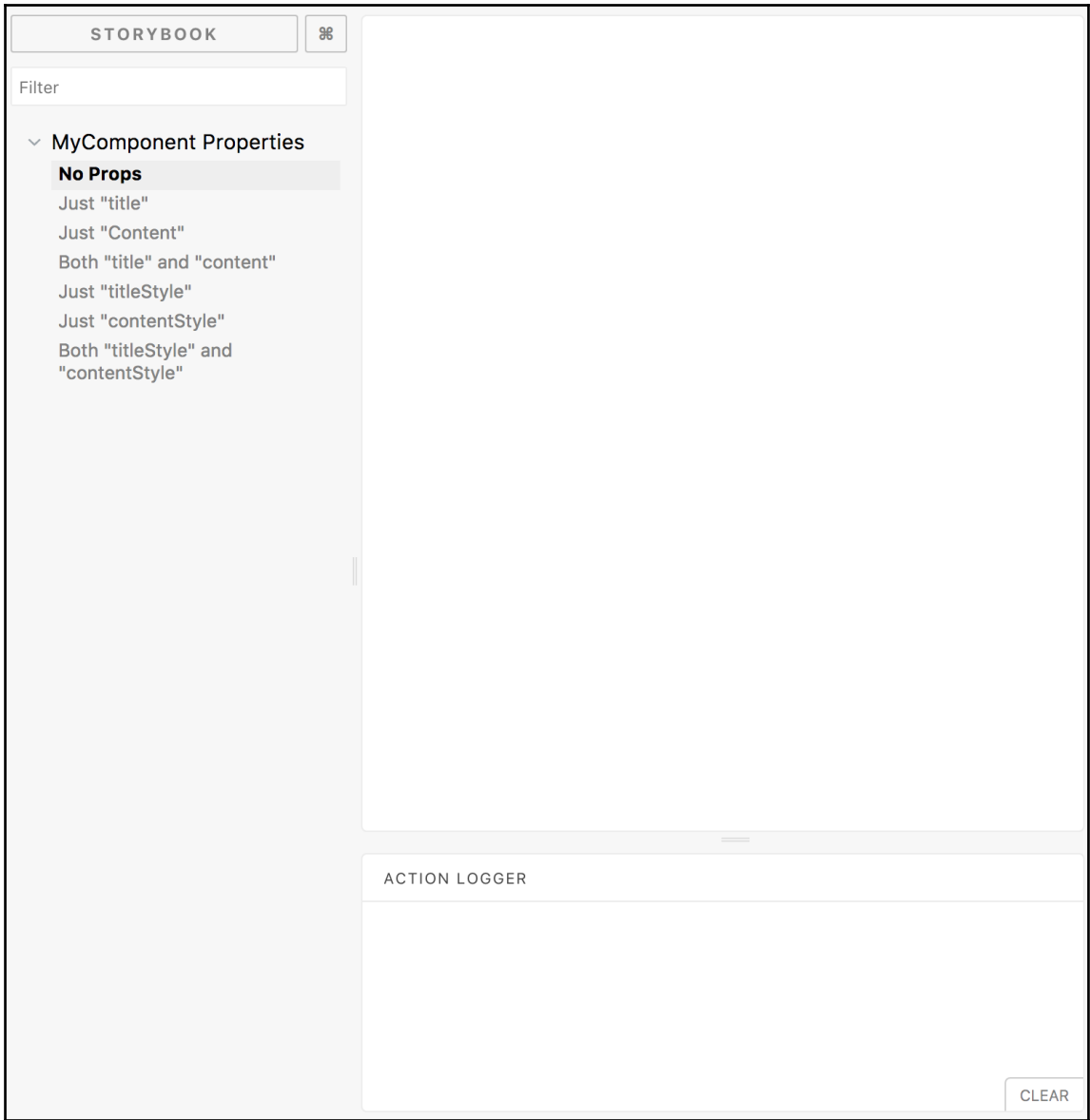
App.js

```
1  import React, { Component } from 'react';
2  import logo from './logo.svg';
3  import './App.css';
4
5  class App extends Component {
6    render() {
7      return (
8        <div className="App">
9          <header className="App-header">
10             <img src={logo} className="App-logo" alt="logo" />
11
12             <h1 className="App-title">Welcome to React</h1>
13           </header>
14           <p className="App-intro">
15             To get started, edit <code>src/App.js</code> and save to reload.
16           </p>
17         </div>
18       );
19     }
20   }
21
22  export default App;
```


# Chapter 7: Isolating Components with Storybook







---

STORYBOOK 

Filter

MyComponent Properties

- No Props
- Just "title"**
- Just "Content"
- Both "title" and "content"
- Just "titleStyle"
- Just "contentStyle"
- Both "titleStyle" and "contentStyle"

# The Title

ACTION LOGGER

CLEAR

---

---

STORYBOOK ⌘

Filter

MyComponent Properties

- No Props
- Just "title"
- Just "Content"**
- Both "title" and "content"
- Just "titleStyle"
- Just "contentStyle"
- Both "titleStyle" and "contentStyle"


### The Content

ACTION LOGGER

CLEAR

---

---

STORYBOOK 

Filter

- MyComponent Properties
  - No Props
  - Just "title"
  - Just "Content"
  - Both "title" and "content"**
  - Just "titleStyle"
  - Just "contentStyle"
  - Both "titleStyle" and "contentStyle"

# The Title

The Content


ACTION LOGGER

CLEAR

---



---

STORYBOOK 

Filter

MyComponent Properties

- No Props
- Just "title"
- Just "Content"
- Both "title" and "content"
- Just "titleStyle"**
- Just "contentStyle"
- Both "titleStyle" and "contentStyle"

# The Title


The Content

ACTION LOGGER

CLEAR

---

---

STORYBOOK 

Filter

MyComponent Properties

- No Props
- Just "title"
- Just "Content"
- Both "title" and "content"
- Just "titleStyle"
- Just "contentStyle"**
- Both "titleStyle" and "contentStyle"

# The Title

The Content

ACTION LOGGER

CLEAR

---

STORYBOOK ⌘

Filter

MyComponent Properties


- No Props
- Just "title"
- Just "Content"
- Both "title" and "content"
- Just "titleStyle"
- Just "contentStyle"
- Both "titleStyle" and "contentStyle"**

The Title

The Content

ACTION LOGGER

CLEAR

STORYBOOK 

Filter

- MyComponent Properties
  - No Props
  - Just "title"
  - Just "Content"
  - Both "title" and "content"
  - Just "titleStyle"
  - Just "contentStyle"
  - Both "titleStyle" and "contentStyle"
- MyComponent Prop Knobs
  - default**

# The Title

## The Content

ACTION LOGGER **KNOBS**

|                      |   |
|----------------------|---|
| <b>Title</b>         | <input type="text" value="The Title"/>                                    |
| <b>Content</b>       | <input type="text" value="The Content"/>                                  |
| <b>Title Style</b>   | <pre>{<br/>  "fontWeight": "normal"<br/>}</pre>                           |
| <b>Content Style</b> | <pre>{<br/>  "fontFamily": "arial",<br/>  "fontSize": "1.2em"<br/>}</pre> |

RESET

STORYBOOK ⌘

Filter

- MyComponent Properties
  - No Props
  - Just "title"
  - Just "Content"
  - Both "title" and "content"
  - Just "titleStyle"
  - Just "contentStyle"
  - Both "titleStyle" and "contentStyle"
- MyComponent Prop Knobs
  - default**

## Changed Title


Changed Content, Long...

ACTION LOGGER    KNOBS

|                      |   |    |
|----------------------|---|----|
| <b>Title</b>         | Changed Title   | // |
| <b>Content</b>       | Changed Content, Longer Content   | // |
| <b>Title Style</b>   | <pre>{   "fontWeight": "normal",   "fontSize": "1.8em",   "textDecoration": "underline" }</pre>   | // |
| <b>Content Style</b> | <pre>{   "fontFamily": "arial",   "fontSize": "1.2em",   "width": "225px",   "whiteSpace": "nowrap",   "overflow": "hidden",   "textOverflow": "ellipsis" }</pre> | // |

RESET

---

STORYBOOK 

Filter

MyButton

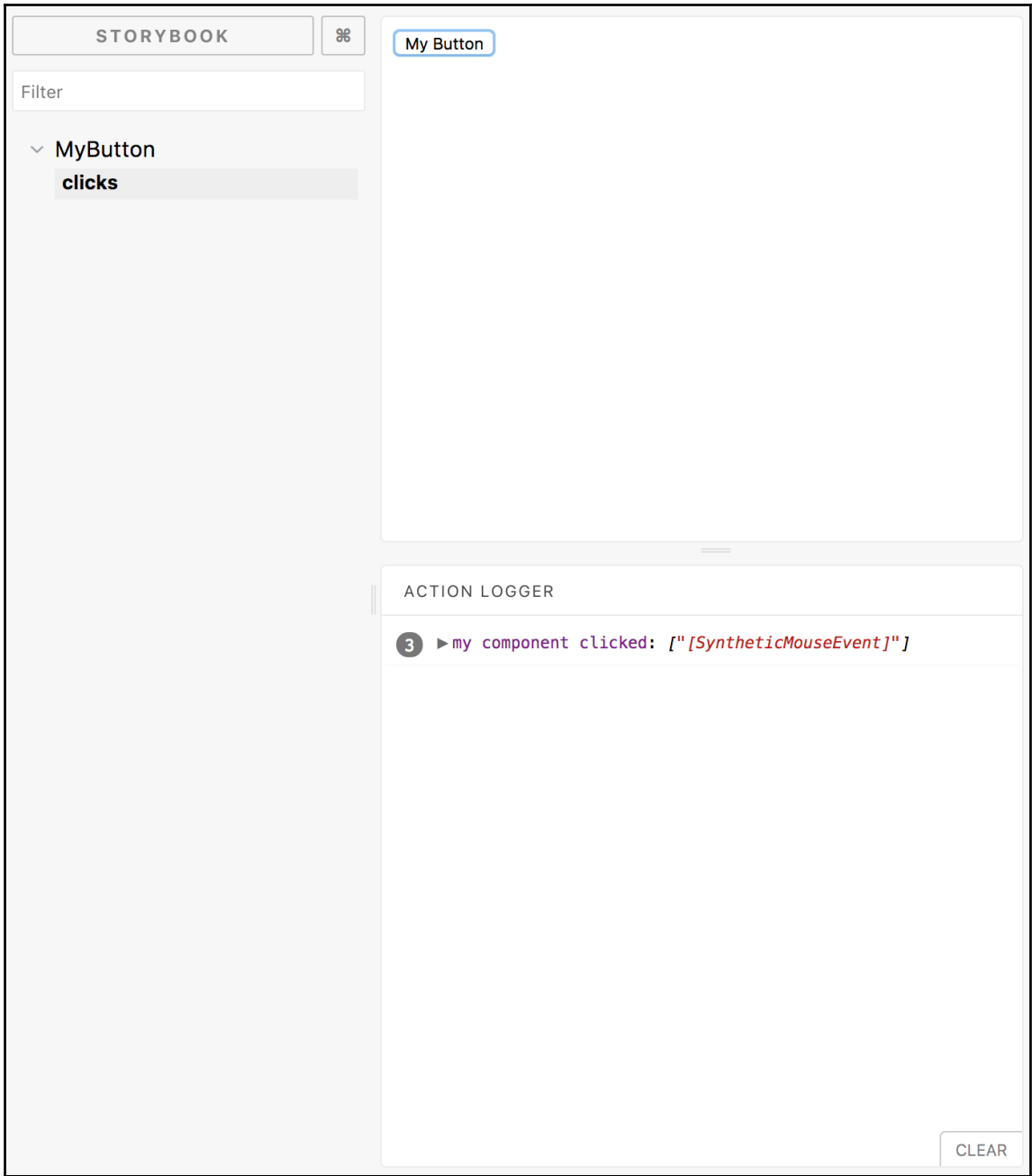
**clicks**

My Button


ACTION LOGGER

3 ▶ my component clicked: `["[SyntheticMouseEvent]"]`

CLEAR




The image shows a Storybook interface. On the left, there is a sidebar with a 'STORYBOOK' header and a 'Filter' input field. Below the filter, a tree view shows 'MyButton' expanded, with 'clicks' selected. The main area displays a 'My Button' component. Below the component is an 'ACTION LOGGER' panel showing a log entry: '3 ▶ my component clicked: ["[SyntheticMouseEvent]"]'. A 'CLEAR' button is located in the bottom right corner of the action logger panel.

STORYBOOK 

Filter

- > MyButton
- ▼ MyRangeInput
  - slides**



ACTION LOGGER


- ▶ range input rendered: ["40"]
- ▶ range input changed: ["40"]
- ▶ range input rendered: ["39"]
- ▶ range input changed: ["39"]
- ▶ range input rendered: ["38"]
- ▶ range input changed: ["38"]
- ▶ range input rendered: ["37"]
- ▶ range input changed: ["37"]
- ▶ range input rendered: ["36"]
- ▶ range input changed: ["36"]
- ▶ range input rendered: ["35"]
- ▶ range input changed: ["35"]
- ▶ range input rendered: ["34"]
- ▶ range input changed: ["34"]
- ▶ range input rendered: ["33"]
- ▶ range input changed: ["33"]
- ▶ range input rendered: ["32"]

CLEAR

STORYBOOK ⌘

Filter

- > MyButton
- ▼ MyRangeInput
  - slides**



ACTION LOGGER

- ▶ range input rendered: ["40"]
- ▶ range input changed: ["39"]
- ▶ range input rendered: ["39"]
- ▶ range input changed: ["38"]
- ▶ range input rendered: ["38"]
- ▶ range input changed: ["37"]
- ▶ range input rendered: ["37"]
- ▶ range input changed: ["36"]
- ▶ range input rendered: ["36"]
- ▶ range input changed: ["35"]
- ▶ range input rendered: ["35"]
- ▶ range input changed: ["34"]
- ▶ range input rendered: ["34"]
- ▶ range input changed: ["33"]
- ▶ range input rendered: ["33"]
- ▶ range input changed: ["32"]
- ▶ range input rendered: ["32"]

CLEAR



---

STORYBOOK ☰

Filter

MyComponent

- default**
- heading text
- children

## Heading Text


This is the default. You can also change the [heading text](#).

ACTION LOGGER

CLEAR

---

---

STORYBOOK 

Filter

- MyComponent
  - default
  - heading text**
  - children

## Changed Heading!

This time, a custom `headingText` prop changes the heading text. You can also pass [child elements](#) to `MyComponent`.

Default

ACTION LOGGER

CLEAR

---

---

STORYBOOK ☰

Filter

- MyButton
  - basic usage**
  - click handler
- MyList
  - basic usage
  - passing an array of items

My Button Show Info

ACTION LOGGER

CLEAR

---

STORYBOOK

Filter

- MyButton
  - basic usage**
  - click handler
- MyList
  - basic usage
  - passing an array of items

# MyButton

## basic usage

Without passing any properties

## Story Source

```
<MyButton/>
```


## Prop Types

### "MyButton" Component

No propTypes defined!

ACTION LOGGER

CLEAR

STORYBOOK 

Filter

- MyButton
  - basic usage
  - click handler
- MyList
  - basic usage
  - passing an array of items**

• first  
• second  
• third

Show Info

ACTION LOGGER

CLEAR

STORYBOOK

Filter

- MyButton
  - basic usage
  - click handler
- MyList
  - basic usage
  - passing an array of items**

# MyList

passing an array of items

Passing an array to the items property

## Story Source

```
<MyList items={["first", "second", "third"]} />
```

## Prop Types

### "MyList" Component

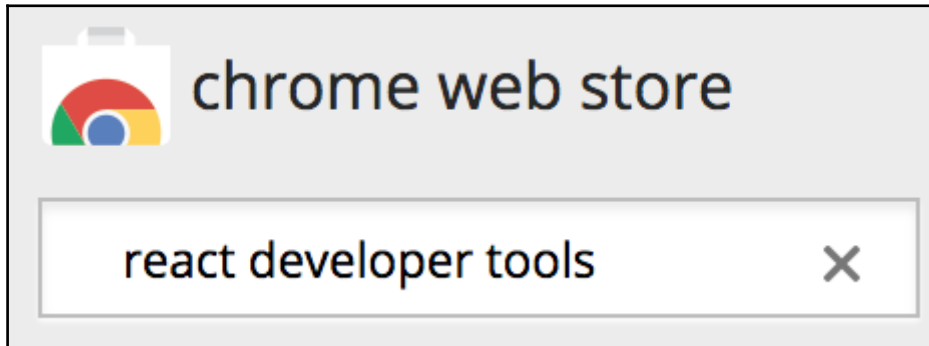
| property | propType | required | default | description |
|----------|----------|----------|---------|-------------|
| items    | array    | -        | []      |             |

ACTION LOGGER

CLEAR

---

# Chapter 8: Debugging Components in the Browser




A card for the "React Developer Tools" extension. It features the React logo icon on the left. The text reads "React Developer Tools" followed by "Facebook" and "Adds React debugging tools to the Chrome Developer Tools." On the right, there is a blue button that says "+ ADD TO CHROME" and a rating of "Developer Tools ★★★★★ (878)".

Add "React Developer Tools"?

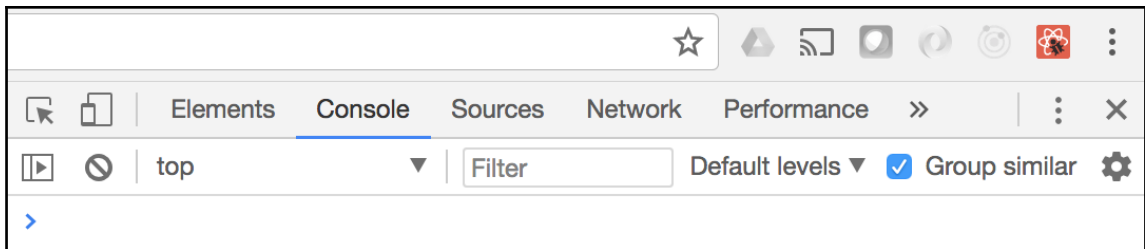
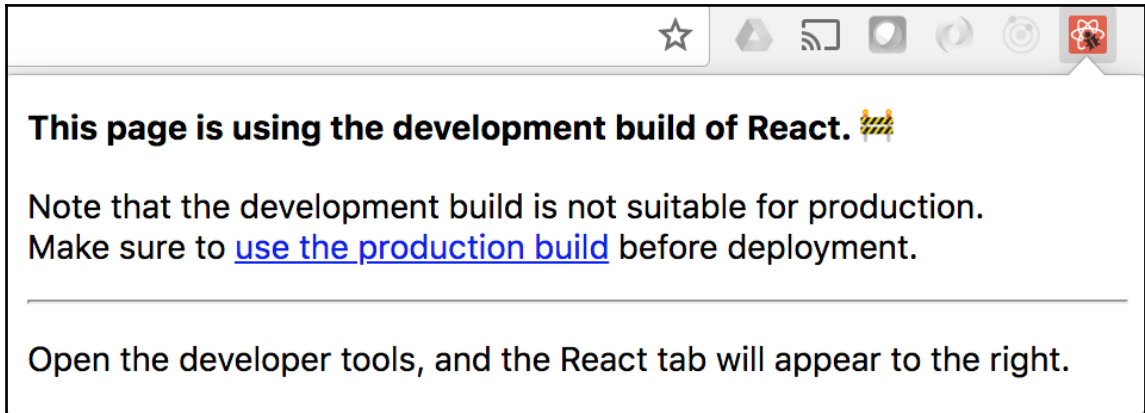
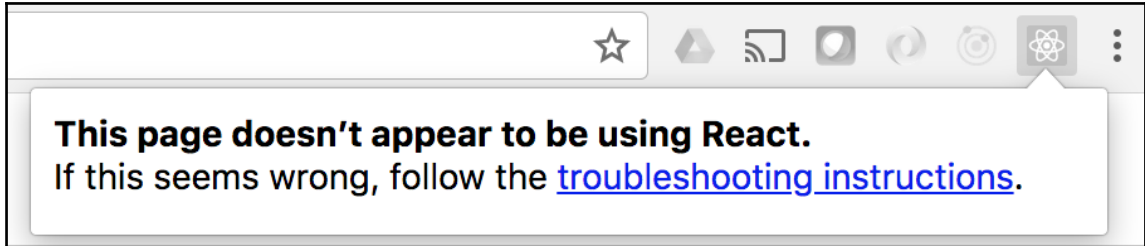
It can:

- Read and change all your data on the websites you visit

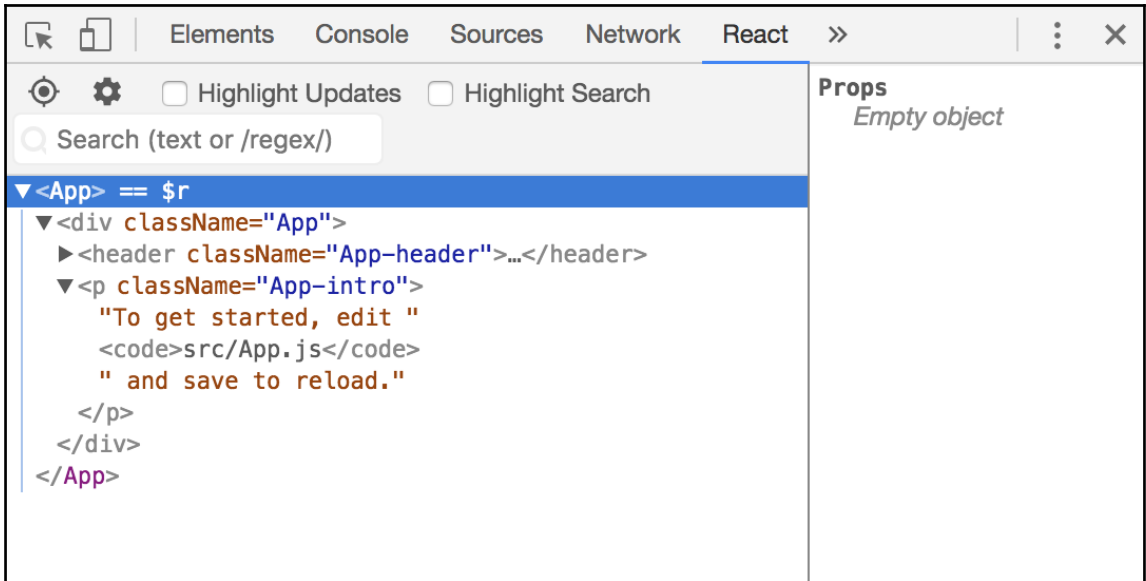
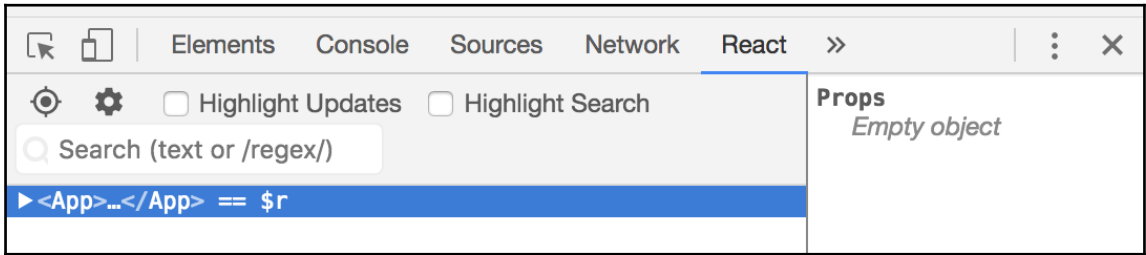
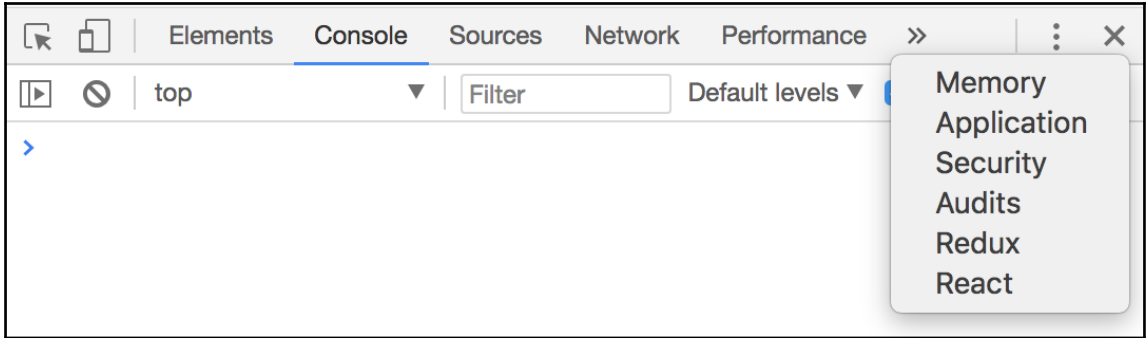


**Cancel**      Add extension

A card for the "React Developer Tools" extension, similar to the one above but with a green "ADDED" badge in the top left corner. The text reads "React Developer Tools" followed by "Facebook" and "Adds React debugging tools to the Chrome Developer Tools." On the right, there is a green button that says "★ RATE IT" and a rating of "Developer Tools ★★★★★ (878)".



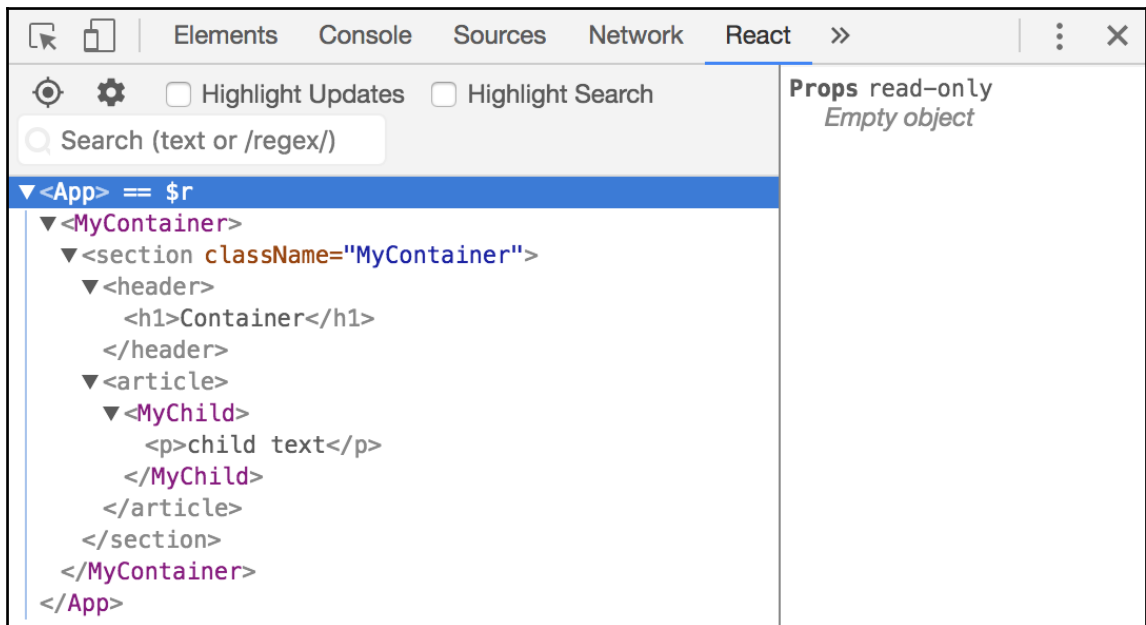




---

# Container

child text



Elements Console Sources Network React >>

Highlight Updates

Highlight Search

```
▼ <App>
  ▼ <MyContainer> == $r
    ▼ <section className="MyContainer">
      ▼ <header>
        <h1>Container</h1>
      </header>
      <article>
        ▼ <MyChild>
          <p>child text</p>
        </MyChild>
      </article>
    </section>
  </MyContainer>
</App>
```

**Props** read-only

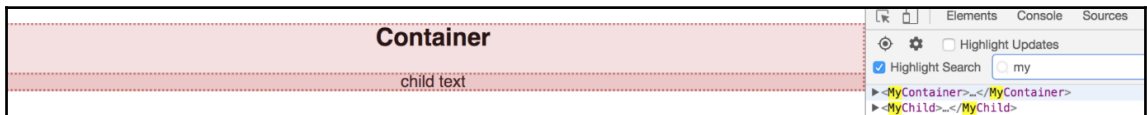
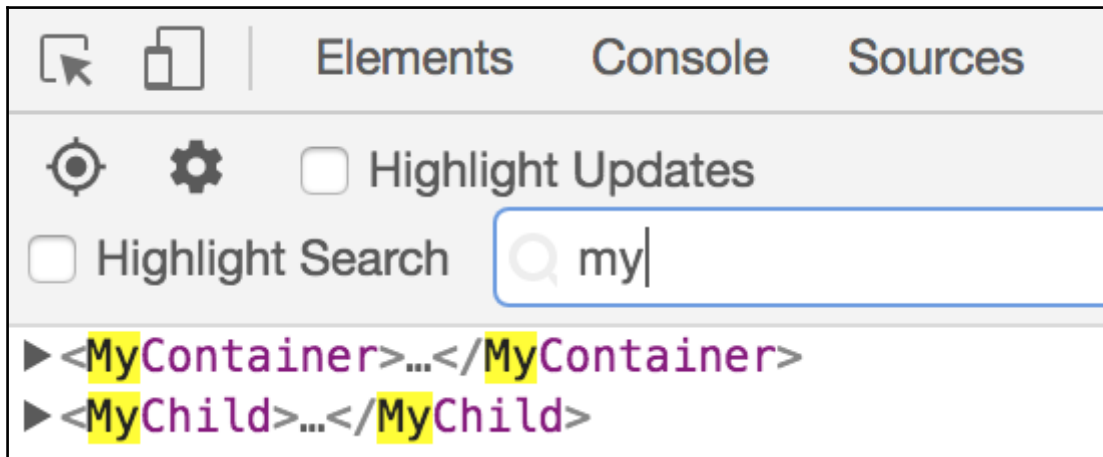
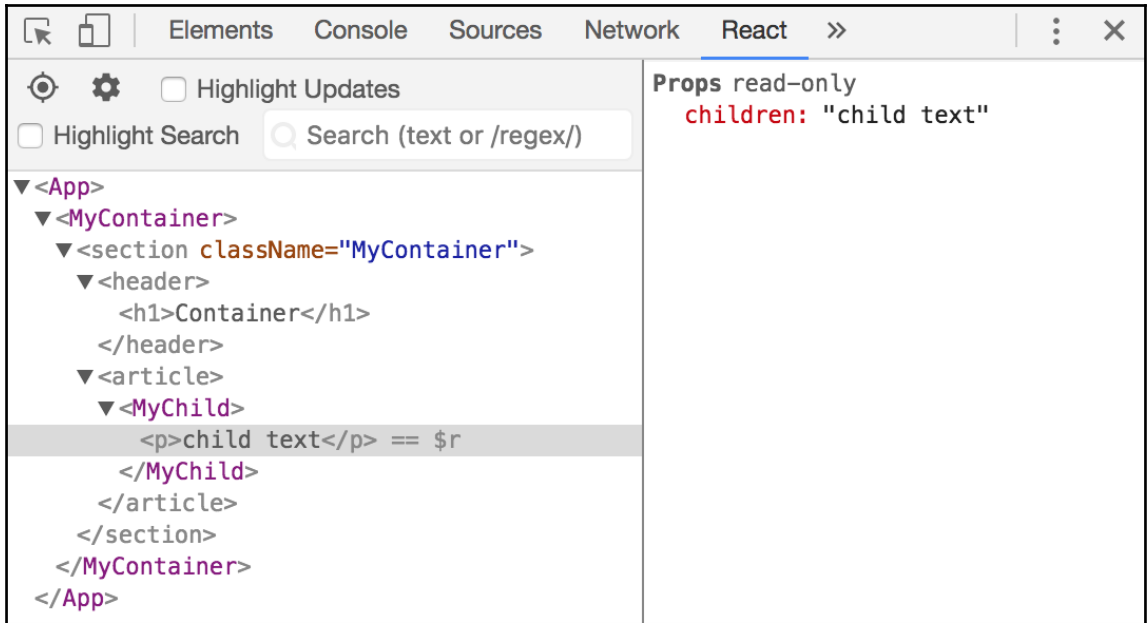
- ▼ children: {...}
- ▶ \$\$typeof: Symbol(react.element)
- ▶ \_owner: FiberNode{...}
- ▶ \_store: {...}
- key: null
- ▶ props: {...}
- ref: null
- ▶ type: MyChild()

  Highlight Updates

**Container**

child text

**p** 843px × 18px



## Container

child text

Elements Console Sources Netw

Highlight Updates
  Highlight Search

▶ MyChild <~/MyChild>

- Item 1
- Item 2
- Item 3
- Item 4
- Item 5

Elements Console Sources Network React >>

Highlight Updates
  Highlight Search

▼ <App>

▶ <MyList>...</MyList> == \$r

</App>

**Props**  
Empty object

**State**  
▶ items: Array[5]

- Item 1
- Item 2
- Item 3
- Item 4
- Item 5
- Item 6
- Item 7
- Item 8
- Item 9
- Item 10

Elements Console Sources Network React >>

Highlight Updates
  Highlight Search

▼ <App>

▶ <MyList>...</MyList> == \$r

</App>

**Props**  
Empty object

**State**  
▼ items: Array[10]

- ▶ 0: {...}
- ▶ 1: {...}
- ▼ 2: {...>
  - label: "Item 3"
  - strikethrough: false
- ▶ 3: {...}
- ▶ 4: {...}
- ▶ 5: {...}
- ▶ 6: {...}
- ▶ 7: {...}
- ▶ 8: {...}
- ▶ 9: {...}

The screenshot shows the React component inspector in Chrome DevTools. The component tree on the left shows the following structure:

```

<App>
  <MyList>
    <ul>
      <MyItem key="0" label="Item 1" strikethrough...
      <MyItem key="1" label="Item 2" strikethrough...
      <MyItem key="2" label="Item 3" strikethrough...
      <MyItem key="3" label="Item 4" strikethrough...
      <MyItem key="4" label="Item 5" strikethrough...
      <MyItem key="5" label="Item 6" strikethrough...
      <MyItem key="6" label="Item 7" strikethrough...
      <MyItem key="7" label="Item 8" strikethrough...
      <MyItem key="8" label="Item 9" strikethrough...
      <MyItem key="9" label="Item 10" strikethrough...
    </ul>
  </MyList>
</App>

```

The selected component is `<MyItem key="0" label="Item 1" strikethrough...>`. The props panel on the right shows the following props:

```

Key "0"
Props read-only
  label: "Item 1"
  > onClick: fn()
  strikethrough: false

```

The screenshot shows the React component inspector in Chrome DevTools. On the left side, there is a list of items:

- ~~Item 1~~
- Item 2
- Item 3
- Item 4
- Item 5
- Item 6
- Item 7
- Item 8
- Item 9
- Item 10

The component tree on the right shows the same structure as the first screenshot:

```

<App>
  <MyList>
    <ul>
      <MyItem key="0" label="Item 1" strikethrough...
      <MyItem key="1" label="Item 2" strikethrough...
      <MyItem key="2" label="Item 3" strikethrough...
      <MyItem key="3" label="Item 4" strikethrough...
      <MyItem key="4" label="Item 5" strikethrough...
      <MyItem key="5" label="Item 6" strikethrough...
      <MyItem key="6" label="Item 7" strikethrough...
      <MyItem key="7" label="Item 8" strikethrough...
      <MyItem key="8" label="Item 9" strikethrough...
      <MyItem key="9" label="Item 10" strikethrough...
    </ul>
  </MyList>
</App>

```

The selected component is `<MyItem key="0" label="Item 1" strikethrough...>`. The props panel on the right shows the following props:

```

Key "0"
Props read-only
  label: "Item 1"
  > onClick: fn()
  strikethrough: true

```

- Item 1
- Item 2
- Item 3
- Item 4
- Item 5
- Item 6
- Item 7
- Item 8
- Item 9
- Item 10

Elements Console Sources Network Performance React >>

Highlight Updates  Highlight Search

- ▼ <App>
- ▼ <MyList> == \$r
- ▼ <ul>
- ▶ <MyItem key="0" label="Item 1" strikethrough
- ▶ <MyItem key="1" label="Item 2" strikethrough
- ▶ <MyItem key="2" label="Item 3" strikethrough
- ▶ <MyItem key="3" label="Item 4" strikethrough
- ▶ <MyItem key="4" label="Item 5" strikethrough
- ▶ <MyItem key="5" label="Item 6" strikethrough
- ▶ <MyItem key="6" label="Item 7" strikethrough
- ▶ <MyItem key="7" label="Item 8" strikethrough
- ▶ <MyItem key="8" label="Item 9" strikethrough
- ▶ <MyItem key="9" label="Item 10" strikethrough

```

</ul>
</MyList>
</App>
          
```

**Props**  
Empty object

**State**

- ▼ items: Array[10]
- ▶ 0: {...}
- ▶ 1: {...}
- ▶ 2: {...}
- ▶ 3: {...}
- ▶ 4: {...}
- ▶ 5: {...}
- ▶ 6: {...}
- ▶ 7: {...}
- ▶ 8: {...}
- ▶ 9: {...}

- **Changed Label**
- Item 2
- Item 3
- Item 4
- Item 5
- Item 6
- Item 7
- Item 8
- Item 9
- Item 10

Elements Console Sources Network React >>

Highlight Updates

Highlight Search

- ▼ <App>
- ▼ <MyList> == \$r
- ▼ <ul>
- ▶ <MyItem key="0" label="Changed Label" str
- ▶ <MyItem key="1" label="Item 2" strikethrou
- ▶ <MyItem key="2" label="Item 3" strikethrou
- ▶ <MyItem key="3" label="Item 4" strikethrou
- ▶ <MyItem key="4" label="Item 5" strikethrou
- ▶ <MyItem key="5" label="Item 6" strikethrou
- ▶ <MyItem key="6" label="Item 7" strikethrou
- ▶ <MyItem key="7" label="Item 8" strikethrou
- ▶ <MyItem key="8" label="Item 9" strikethrou
- ▶ <MyItem key="9" label="Item 10" strikethrou

```

</ul>
</MyList>
</App>
          
```

**Props**  
Empty object

**State**

- ▼ items: Array[10]
- ▶ 0: {...
- label: "Changed Label"
- strikethrough: true
- ▶ 1: {...}
- ▶ 2: {...}
- ▶ 3: {...}
- ▶ 4: {...}
- ▶ 5: {...}
- ▶ 6: {...}
- ▶ 7: {...}
- ▶ 8: {...}
- ▶ 9: {...}

---

**Groups**



**Members**



**Group 1**

Add Member

- Member 1
- Member 2
- Member 3
- Member 4
- Member 5
- Member 6
- Member 7
- Member 8
- Member 9
- Member 10
- Member 11



---

Highlight Updates

Groups



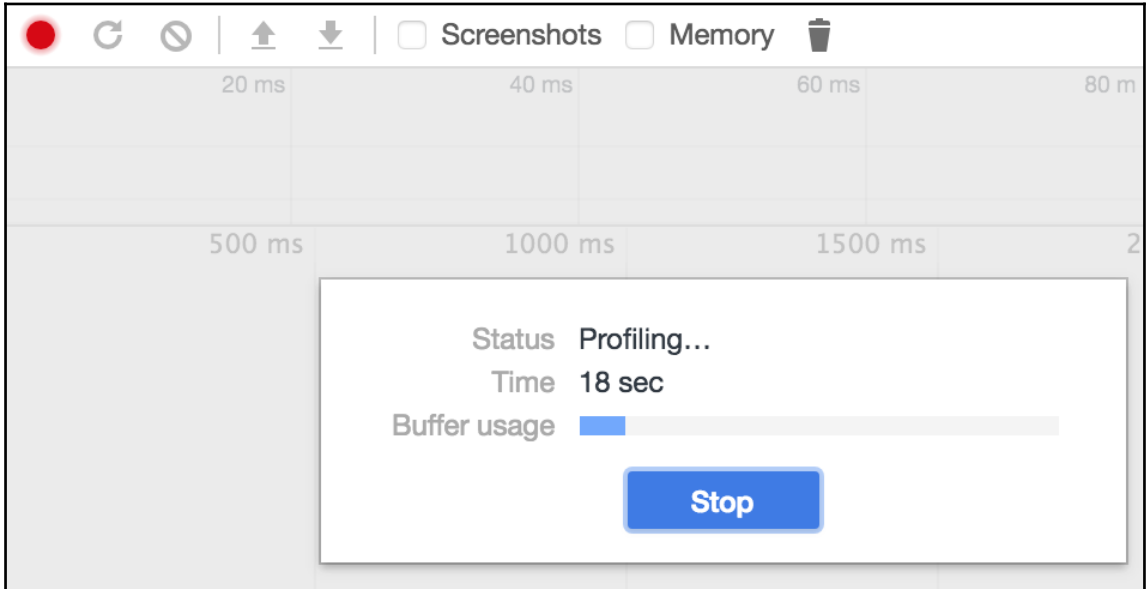
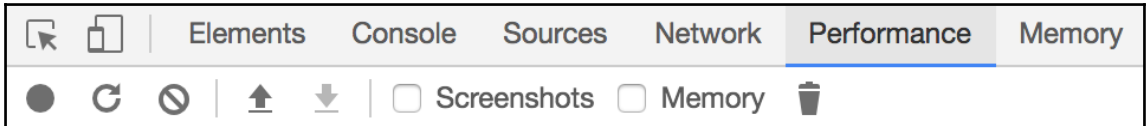
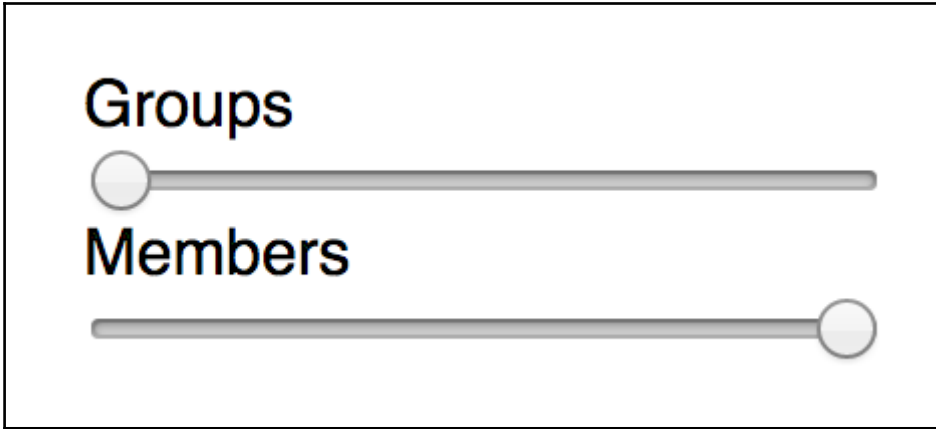
Members

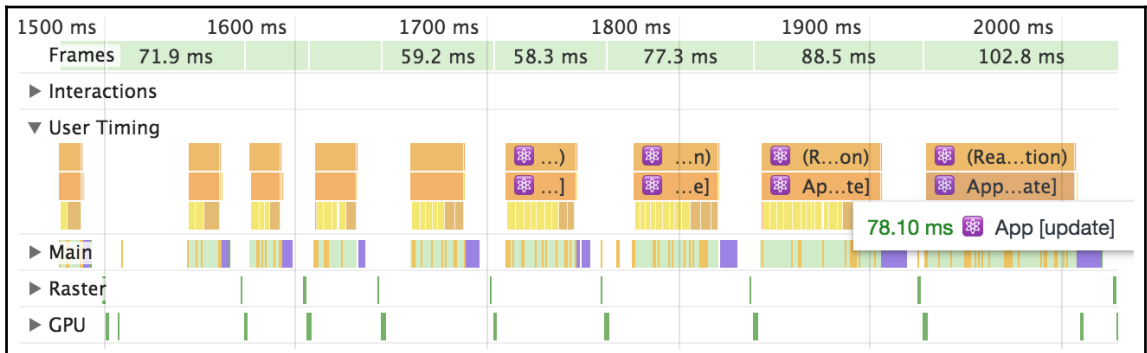
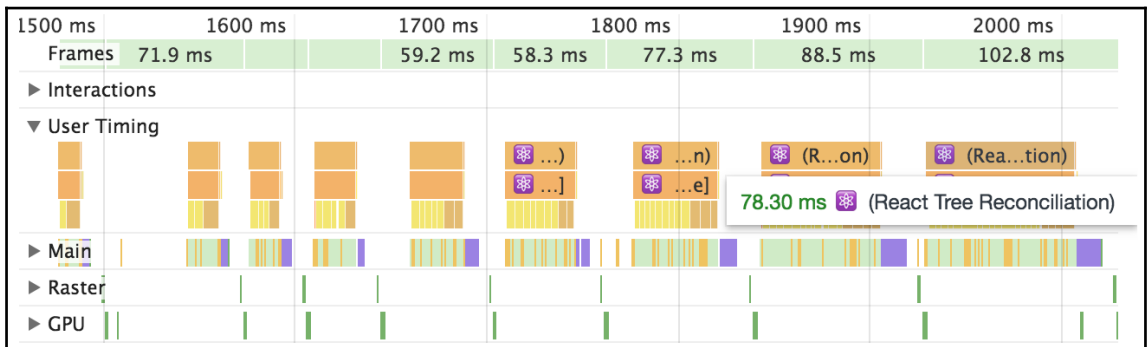
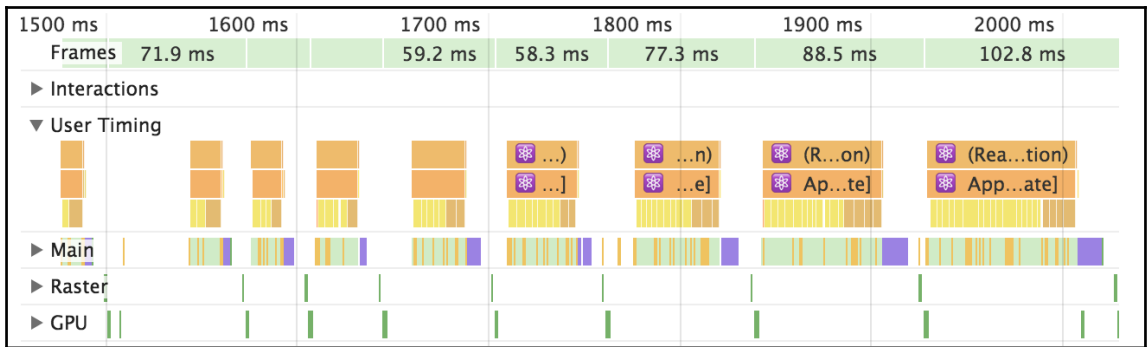


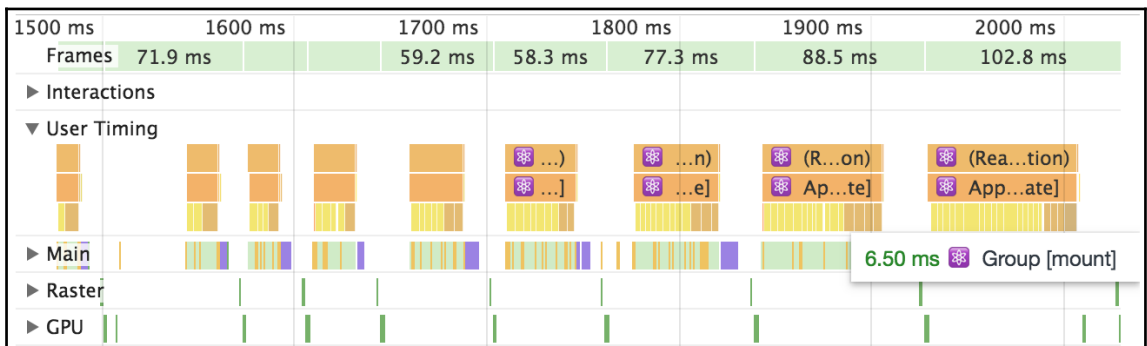
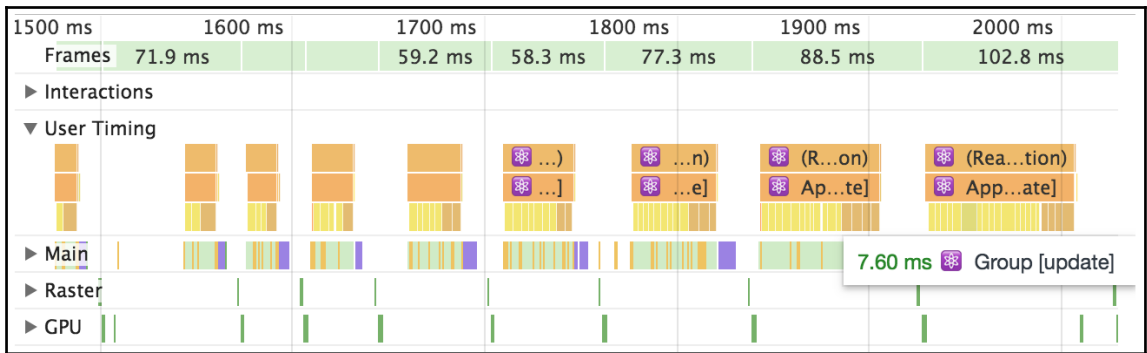
**Group 1**

Add Member

- Member 1
- Member 2
- Member 3
- Member 4
- Member 5
- Member 6
- Member 7













---

# Chapter 9: Instrumenting Application State with Redux

[Home](#)

[New Book](#)

|   |   |   |
|---|---|---|
| <p><b><u>React 16 Essentials</u></b></p>  <p>Artemij Fedosejev, Adam Boduch</p> <p><b>React 16 Essentials</b><br/>Second Edition</p> <p>A fast-paced, hands-on guide to designing and building scalable and maintainable web apps with React 16</p> <p>Packt</p>   | <p><b><u>Getting Started with React VR</u></b></p>  <p>John Gwinner</p> <p><b>Getting Started with React VR</b></p> <p>Build immersive Virtual Reality apps for the web with React</p> <p>Packt</p>  | <p><b><u>React Native Blueprints</u></b></p>  <p>Emilio Rodriguez Martinez</p> <p><b>React Native Blueprints</b></p> <p>Create right exciting native cross-platform mobile applications with JavaScript</p> <p>Packt</p>  |
| <p><b><u>React Design Patterns and Best Practices</u></b></p>  <p>Michele Bertoli</p> <p><b>React Design Patterns and Best Practices</b></p> <p>Build modular applications that are easy to scale using the most powerful components and design patterns that React can offer you right now</p> <p>Packt</p> | <p><b><u>React Native Cookbook</u></b></p>  <p>Stan Bershadskiy, Crystel Villa</p> <p>Foreword by Christopher Chedreau<br/>Foreword by Andrew Collier</p> <p><b>React Native Cookbook</b></p> <p>Take your React Native application development to the next level with this large collection of recipes</p> <p>Packt</p> | <p><b><u>React Native By Example</u></b></p>  <p>Richard Kho</p> <p>Foreword by Tyler McGinnis<br/>Foreword by David Dorian</p> <p><b>React Native By Example</b></p> <p>Leverage the full potential of the React Native framework to build and deploy your own native mobile applications for iOS and Android</p> <p>Packt</p> |
| <p><b>Artemij Fedosejev</b></p>   | <p><b>John Gwinner</b></p>  | <p><b>Emilio Rodriguez Martinez</b></p>   |
| <p><b>Michele Bertoli</b></p>   | <p><b>Crystel Villa, Stan Bershadskiy</b></p>   | <p><b>Richard Kho</b></p>   |

---

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Title:

Author:

Image URL:

Create



chrome web store

redux



Redux DevTools

remotedev.io

Redux DevTools for debugging application's state changes.

+ ADD TO CHROME

Developer Tools

★★★★★ (351)

---

## Add "Redux DevTools"?

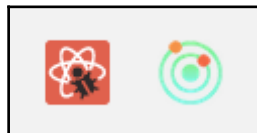
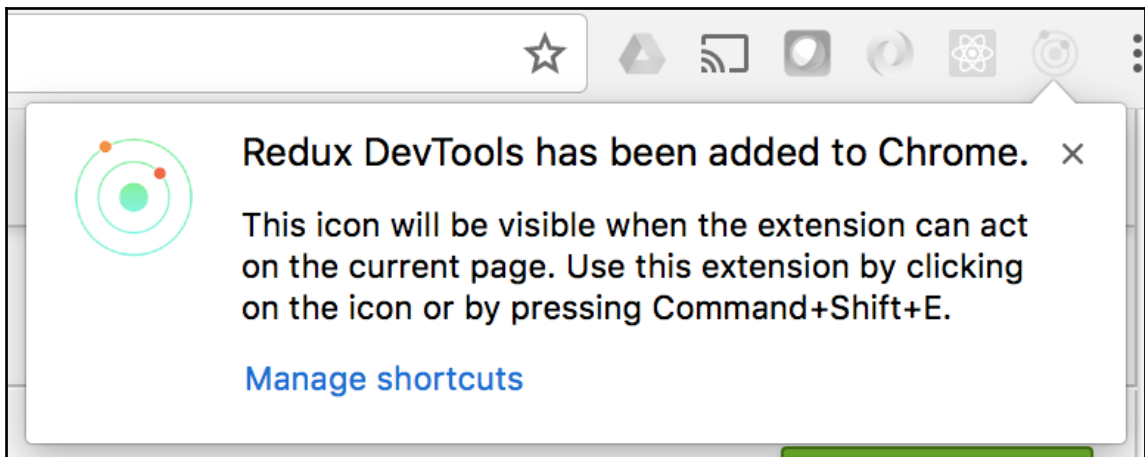
### It can:

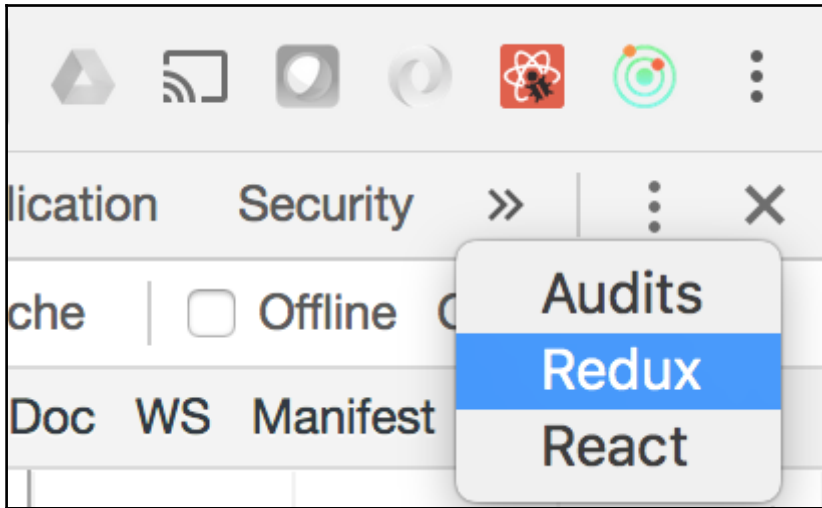
- Read and change all your data on the websites you visit
- Display notifications



Cancel

Add extension







The image shows a screenshot of the Redux DevTools interface. The top navigation bar includes tabs for Elements, Console, Sources, Network, Performance, Memory, Application, and Redux. The Redux tab is active, showing the Redux state tree. The state tree is displayed in a 'Diff' view, showing a change in the 'home' state. The 'loading' property has changed from 'true' to 'false'. The 'books' property is an array of objects, with the first element expanded to show its structure. The state tree is as follows:

```
home (pin)
  loading (pin): true => false
  books (pin): { 0: {...}, 1: {...}, 2: {...}, ... }
```

The left sidebar shows the Redux state tree with a 'Commit' button. The state tree is as follows:

```
filter...
@@INIT
FETCHING_BOOKS
FETCHED_BOOKS
```

The bottom toolbar includes buttons for Pause, Lock, and other DevTools controls.

---

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[New Book](#)

## [React Native Blueprints](#)



**Emilio Rodriguez  
Martinez**

Delete

|                |            |
|----------------|------------|
| filter...      | Commit     |
| @@INIT         | 8:20:42.07 |
| FETCHING_BOOKS | +00:00.02  |
| FETCHED_BOOKS  | +00:01.00  |
| FETCHING_BOOK  | +00:01.56  |
| FETCHED_BOOK   | +00:01.00  |

|                |            |                              |        |       |      |      |
|----------------|------------|------------------------------|--------|-------|------|------|
| filter...      | Commit     | Action                       | Action | State | Diff | Test |
| @@INIT         | 8:20:42.07 | Tree                         | Chart  | Raw   |      |      |
| FETCHING_BOOKS | +00:00.02  | type (pin): "FETCHING_BOOKS" |        |       |      |      |
| FETCHED_BOOKS  | +00:01.00  |                              |        |       |      |      |
| FETCHING_BOOK  | +00:01.56  |                              |        |       |      |      |
| FETCHED_BOOK   | +00:01.00  |                              |        |       |      |      |

| filter...      | Commit     | Action | Action  | State | Diff | Test |
|----------------|------------|--------|---|-------|------|------|
| @@INIT         | 8:20:42.07 |        | Tree  | Chart | Raw  |      |
| FETCHING_BOOKS | +00:00.02  |        | <pre> type (pin): "FETCHED_BOOKS" </pre>  |       |      |      |
| FETCHED_BOOKS  | +00:01.00  |        | <pre> ▼ books (pin) ▶ 0 (pin): { title: "React 16 E...", author: "Artemij Fe...", in ▶ 1 (pin): { title: "Getting St...", author: "John Gwin...", in ▶ 2 (pin): { title: "React Nati...", author: "Emilio Rod...", in ▶ 3 (pin): { title: "React Desi...", author: "Michele Be...", in ▶ 4 (pin): { title: "React Nati...", author: "Crysfel Vi...", in ▶ 5 (pin): { title: "React Nati...", author: "Richard Kh...", in </pre> |       |      |      |
| FETCHING_BOOK  | +00:01.56  |        |   |       |      |      |
| FETCHED_BOOK   | +00:01.00  |        |   |       |      |      |

| filter...      | Commit     | State | Action  | State | Diff | Test |
|----------------|------------|-------|---|-------|------|------|
| @@INIT         | 8:20:42.07 |       | Tree  | Chart | Raw  |      |
| FETCHING_BOOKS | +00:00.02  |       | <pre> ▶ app (pin): { title: "Book Manag..." } ▶ home (pin): { loading: false, books: [...], filterValue: "" } ▶ newBook (pin): { title: "", author: "", imgUrl: "", ... } ▼ bookDetails (pin)   loading (pin): true   book (pin): null   controlsDisabled (pin): false </pre> |       |      |      |
| FETCHED_BOOKS  | +00:01.00  |       |   |       |      |      |
| FETCHING_BOOK  | +00:01.56  |       |   |       |      |      |
| FETCHED_BOOK   | +00:01.00  |       |   |       |      |      |

| filter...      | Commit     | State | Action | State | Diff | Test |
|----------------|------------|-------|--------|-------|------|------|
| @@INIT         | 8:20:42.07 |       | Tree   | Chart | Raw  |      |
| FETCHING_BOOKS | +00:00.02  |       |        |       |      |      |
| FETCHED_BOOKS  | +00:01.00  |       |        |       |      |      |
| FETCHING_BOOK  | +00:01.56  |       |        |       |      |      |
| FETCHED_BOOK   | +00:01.00  |       |        |       |      |      |

|                |            |
|----------------|------------|
| filter...      | Commit     |
| @@INIT         | 8:20:42.07 |
| FETCHING_BOOKS | +00:00.02  |
| FETCHED_BOOKS  | +00:01.00  |
| FETCHING_BOOK  | +00:01.56  |
| FETCHED_BOOK   | +00:01.00  |

State

Tree Chart Raw

```

graph LR
  Root(( )) --- app((app))
  Root --- home((home))
  Root --- newBook((newBook))
  Root --- bookDetails((bookDetails))
  app --- title1((title))
  home --- books((books))
  home --- loading1((loading))
  home --- filterValue((filterValue))
  newBook --- title2((title))
  newBook --- author((author))
  newBook --- imgURL((imgURL))
  newBook --- controlsDisabled1((controlsDisabled))
  bookDetails --- loading2((loading))
  bookDetails --- book((book))
  bookDetails --- controlsDisabled2((controlsDisabled))
  title1 --- books0((books[0]))
  title1 --- books1((books[1]))
  title1 --- books2((books[2]))
  title1 --- books3((books[3]))
  title1 --- books4((books[4]))
  title1 --- books5((books[5]))
  loading1 --- books0
  loading1 --- books1
  loading1 --- books2
  loading1 --- books3
  loading1 --- books4
  loading1 --- books5
  filterValue --- books0
  filterValue --- books1
  filterValue --- books2
  filterValue --- books3
  filterValue --- books4
  filterValue --- books5
  loading2 --- title3((title))
  loading2 --- author3((author))
  loading2 --- imgURL3((imgURL))
  loading2 --- controlsDisabled3((controlsDisabled))
  book --- title3
  book --- author3
  book --- imgURL3
  
```

|                |            |
|----------------|------------|
| filter...      | Commit     |
| @@INIT         | 8:20:42.07 |
| FETCHING_BOOKS | +00:00.02  |
| FETCHED_BOOKS  | +00:01.00  |
| FETCHING_BOOK  | +00:01.56  |
| FETCHED_BOOK   | +00:01.00  |

State

Tree Chart Raw

```

graph LR
  Root(( )) --- app((app))
  Root --- home((home))
  Root --- newBook((newBook))
  Root --- bookDetails((bookDetails))
  app --- title1((title))
  home --- books((books))
  home --- loading1((loading))
  home --- filterValue((filterValue))
  newBook --- title2((title))
  newBook --- author((author))
  newBook --- imgURL((imgURL))
  newBook --- controlsDisabled1((controlsDisabled))
  bookDetails --- loading2((loading))
  bookDetails --- book((book))
  bookDetails --- controlsDisabled2((controlsDisabled))
  title1 --- books0((books[0]))
  title1 --- books1((books[1]))
  title1 --- books2((books[2]))
  title1 --- books3((books[3]))
  title1 --- books4((books[4]))
  title1 --- books5((books[5]))
  loading1 --- books0
  loading1 --- books1
  loading1 --- books2
  loading1 --- books3
  loading1 --- books4
  loading1 --- books5
  filterValue --- books0
  filterValue --- books1
  filterValue --- books2
  filterValue --- books3
  filterValue --- books4
  filterValue --- books5
  loading2 --- title3((title))
  loading2 --- author3((author))
  loading2 --- imgURL3((imgURL))
  loading2 --- controlsDisabled3((controlsDisabled))
  book --- title3
  book --- author3
  book --- imgURL3
  
```

|                    |            |
|--------------------|------------|
| filter...          | Commit     |
| @@INIT             | 9:41:30.26 |
| SET_NEW_BOOK_TITLE | +00:09.51  |

Diff

Tree Raw

```

newBook (pin)
  title (pin): '' => 'React 16 Tooling'
  
```

|                     |            |                                   |        |       |      |      |
|---------------------|------------|-----------------------------------|--------|-------|------|------|
| filter...           | Commit     | Diff                              | Action | State | Diff | Test |
| @@INIT              | 9:41:30.26 | Tree                              | Raw    |       |      |      |
| SET_NEW_BOOK_TITLE  | +00:09.51  | ▼ newBook (pin)                   |        |       |      |      |
| SET_NEW_BOOK_AUTHOR | +52:31.81  | author (pin): '' => 'Adam Boduch' |        |       |      |      |

|                        |            |   |        |       |      |      |
|------------------------|------------|---|--------|-------|------|------|
| filter...              | Commit     | Diff  | Action | State | Diff | Test |
| @@INIT                 | 9:41:30.26 | Tree  | Raw    |       |      |      |
| SET_NEW_BOOK_TITLE     | +00:09.51  | ▼ newBook (pin)   |        |       |      |      |
| SET_NEW_BOOK_AUTHOR    | +52:31.81  | imgURL (pin): '' => 'https://d1ldz4te4covpm.cloudf...Cover.png' |        |       |      |      |
| SET_NEW_BOOK_IMAGE_URL | +06:06.81  |   |        |       |      |      |

|                        |            |                                       |        |       |      |      |
|------------------------|------------|---------------------------------------|--------|-------|------|------|
| filter...              | Commit     | Diff                                  | Action | State | Diff | Test |
| @@INIT                 | 9:41:30.26 | Tree                                  | Raw    |       |      |      |
| SET_NEW_BOOK_TITLE     | +00:09.51  | ▼ newBook (pin)                       |        |       |      |      |
| SET_NEW_BOOK_AUTHOR    | +52:31.81  | controlsDisabled (pin): false => true |        |       |      |      |
| SET_NEW_BOOK_IMAGE_URL | +06:06.81  |                                       |        |       |      |      |
| CREATING_BOOK          | +06:52.73  |                                       |        |       |      |      |
| CREATED_BOOK           | +00:01.00  |                                       |        |       |      |      |

|                        |            |   |        |       |      |      |
|------------------------|------------|---|--------|-------|------|------|
| filter...              | Commit     | Diff  | Action | State | Diff | Test |
| @@INIT                 | 9:41:30.26 | Tree  | Raw    |       |      |      |
| SET_NEW_BOOK_TITLE     | +00:09.51  | ▼ newBook (pin)   |        |       |      |      |
| SET_NEW_BOOK_AUTHOR    | +52:31.81  | title (pin): 'React 16 Tooling' => ''                           |        |       |      |      |
| SET_NEW_BOOK_IMAGE_URL | +06:06.81  | author (pin): 'Adam Boduch' => ''                               |        |       |      |      |
| CREATING_BOOK          | +06:52.73  | imgURL (pin): 'https://d1ldz4te4covpm.cloudf...Cover.png' => '' |        |       |      |      |
| CREATED_BOOK           | +00:01.00  | controlsDisabled (pin): true => false                           |        |       |      |      |

[Home](#)  
[New Book](#)

native b

## [React Native Blueprints](#)



**Emilio Rodriguez  
Martinez**

## [React Native By Example](#)



**Richard Kho**

| filter...        | Commit      |
|------------------|-------------|
| @@INIT           | 12:09:01.07 |
| FETCHING_BOOKS   | +00:00.02   |
| FETCHED_BOOKS    | +00:01.00   |
| SET_FILTER_VALUE | +00:02.89   |
| SET_FILTER_VALUE | +00:00.20   |
| SET_FILTER_VALUE | +00:00.34   |
| SET_FILTER_VALUE | +00:00.19   |
| SET_FILTER_VALUE | +00:00.17   |
| SET_FILTER_VALUE | +00:00.22   |
| SET_FILTER_VALUE | +00:03.23   |
| SET_FILTER_VALUE | +00:29.46   |

Diff Action State Diff Test

Tree Raw

▼ home (pin)

filterValue (pin): 'native' => 'native b'

| filter...        | Commit      |
|------------------|-------------|
| @@INIT           | 12:09:01.07 |
| FETCHING_BOOKS   | +00:00.02   |
| FETCHED_BOOKS    | +00:01.00   |
| SET_FILTER_VALUE | +00:02.89   |
| SET_FILTER_VALUE | +00:00.20   |
| SET_FILTER_VALUE | +00:00.34   |
| SET_FILTER_VALUE | +00:00.19   |
| SET_FILTER_VALUE | +00:00.17   |
| SET_FILTER_VALUE | +00:00.22   |
| SET_FILTER_VALUE | +00:03.23   |
| SET_FILTER_VALUE | +00:29.46   |

Diff Action State Diff Test

Tree Raw

▼ home (pin)

filterValue (pin): 'nativ' => 'native'



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native

### [React Native Blueprints](#)



**Emilio Rodriguez  
Martinez**

### [React Native Cookbook](#)

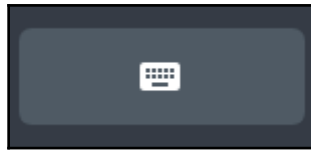


**Crysel Villa, Stan  
Bershadskiy**

### [React Native By Example](#)



**Richard Kho**



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# [React Native By Example](#)



**Richard Kho**

Delete

```
{ type: 'DELETING_BOOK' }
```

Dispatch



Pause



Lock



---

| filter...     | Commit     | Diff                | Action                                | State | Diff | Test |
|---------------|------------|---------------------|---------------------------------------|-------|------|------|
| @@INIT        | 4:12:14.92 | Tree                | Raw                                   |       |      |      |
| FETCHING_BOOK | +00:00.02  | ▼ bookDetails (pin) | controlsDisabled (pin): false => true |       |      |      |
| FETCHED_BOOK  | +00:01.00  |                     |                                       |       |      |      |
| DELETING_BOOK | +25:55.78  |                     |                                       |       |      |      |

```
{ type: 'DELETED_BOOK' }
```

Dispatch

Pause Lock Pin Comment Stop Up Down (A) Settings

---

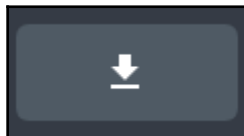
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[New Book](#)

## React 16 Essentials



**Artemij Fedosejev**

Delete



---

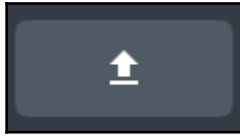
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[New Book](#)

## Getting Started with React VR



**John Gwinner**

Delete



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## [React 16](#) [Essentials](#)



**Artemij Fedosejev**

Delete

---

## Chapter 10: Building and Deploying Static React Sites with Gatsby



# Gatsby

## Hi people

Welcome to your new Gatsby site.

Now go build something great.

[Go to page 2](#)

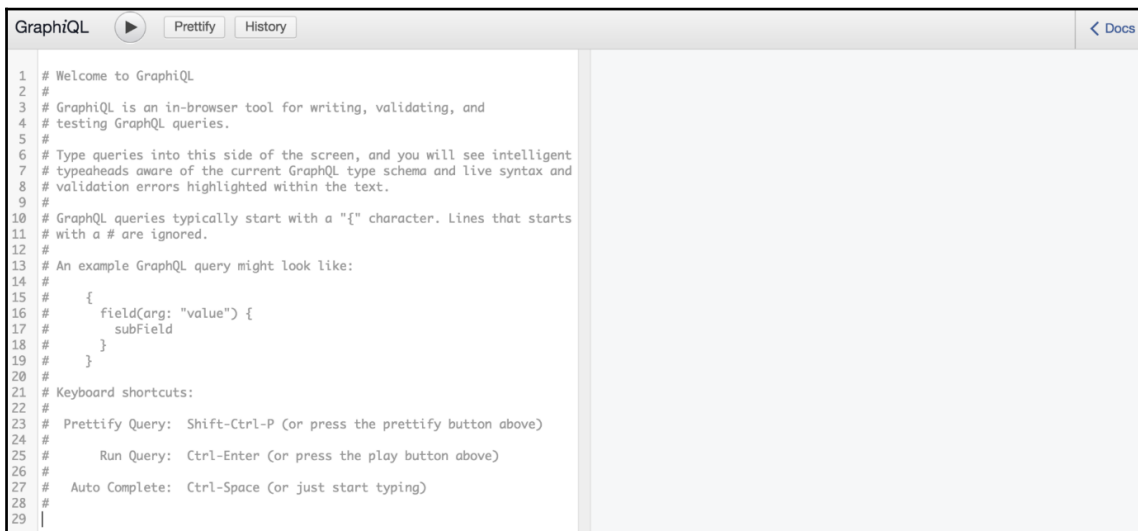
---

# Gatsby

## Hi from the second page

Welcome to page 2

[Go back to the homepage](#)



The screenshot shows the GraphQL Playground interface. At the top, there is a header with the text "GraphQL" and a play button icon. To the right of the header are two buttons: "Prettify" and "History". In the top right corner, there is a link labeled "< Docs". The main area is split into two panes. The left pane contains a text editor with the following content:

```
1 # Welcome to GraphQL
2 #
3 # GraphQL is an in-browser tool for writing, validating, and
4 # testing GraphQL queries.
5 #
6 # Type queries into this side of the screen, and you will see intelligent
7 # typeahead aware of the current GraphQL type schema and live syntax and
8 # validation errors highlighted within the text.
9 #
10 # GraphQL queries typically start with a "{" character. Lines that starts
11 # with a # are ignored.
12 #
13 # An example GraphQL query might look like:
14 #
15 #   {
16 #     field(arg: "value") {
17 #       subField
18 #     }
19 #   }
20 #
21 # Keyboard shortcuts:
22 #
23 # Prettify Query: Shift-Ctrl-P (or press the prettify button above)
24 #
25 # Run Query: Ctrl-Enter (or press the play button above)
26 #
27 # Auto Complete: Ctrl-Space (or just start typing)
28 #
29 |
```

The right pane is currently empty, representing the results of the query.



GraphiQL ▶ Prettify History < Docs

```
1 {
2   allFile {
3     edges {
4       node {
5         name,
6         ext,
7         prettySize
8       }
9     }
10  }
11 }
```

```
{
  "data": {
    "allFile": {
      "edges": [
        {
          "node": {
            "name": "articles",
            "ext": ".json",
            "prettySize": "323 B"
          }
        }
      ]
    }
  }
}
```

```
GraphQL ▶ Prettify History < Docs
```

```
1 {
2   allArticlesJson {
3     edges {
4       node {
5         topic
6         title
7       }
8     }
9   }
10 }
11
```

```
{
  "data": {
    "allArticlesJson": {
      "edges": [
        {
          "node": {
            "topic": "global",
            "title": "Global Article 1"
          }
        },
        {
          "node": {
            "topic": "global",
            "title": "Global Article 2"
          }
        },
        {
          "node": {
            "topic": "local",
            "title": "Local Article 1"
          }
        },
        {
          "node": {
            "topic": "local",
            "title": "Local Article 2"
          }
        },
        {
          "node": {
            "topic": "sports",
            "title": "Sports Article 1"
          }
        }
      ]
    }
  }
}
```

GraphiQL ▶ Prettify History < Docs

```
1 {
2   allArticlesJson(filter: {topic: {eq: "global"}}) {
3     edges {
4       node {
5         topic
6         title
7       }
8     }
9   }
10 }
11
```

```
{
  "data": {
    "allArticlesJson": {
      "edges": [
        {
          "node": {
            "topic": "global",
            "title": "Global Article 1"
          }
        },
        {
          "node": {
            "topic": "global",
            "title": "Global Article 2"
          }
        }
      ]
    }
  }
}
```

---

# Gatsby

## Home

Choose an article category

- [Global](#)
- [Local](#)
- [Sports](#)

---

# Gatsby

## Global Articles

[Home](#)

- Global Article 1
- Global Article 2



**Google Cloud Text-To-Speech Powered by DeepMind WaveNet Technology** (googleblog.com)

▲ **126** by pseudobry 3 hours ago 28 comments

**How I Erased Facebook Comments and Likes** (jaruzel.com)

▲ **267** by Jaruzel 5 hours ago 118 comments

**Oracle Wins Revival of Billion-Dollar Case Against Google**

(bloomberg.com)

▲ **545** by uptown 7 hours ago 414 comments

**Waymo teams up with Jaguar to intro a new, premium self-driving car**

(techcrunch.com)

▲ **220** by kaboro 7 hours ago 97 comments

**Fast, Safe, and Complete(ish) Web Service in Rust** (brandur.org)

▲ **226** by henridf 6 hours ago 44 comments

```

GraphiQL ▶ Prettify History < Docs
1 fragment Story on HNStory {
2   id
3   title
4   score
5   order
6   domain
7   url
8   by
9   descendants
10  timeISO(fromNow: true)
11 }
12
13 query PageQuery {
14   allHNStory(sort: {fields: [order]}, limit: 10) {
15     edges {
16       node {
17         ...Story
18       }
19     }
20   }
21 }
22
{
  "data": {
    "allHNStory": {
      "edges": [
        {
          "node": {
            "id": "16691203",
            "title": "Google Cloud Text-To-Speech Powered by
            DeepMind WaveNet Technology",
            "score": 126,
            "order": 1,
            "domain": "googleblog.com",
            "url":
            "https://cloudplatform.googleblog.com/2018/03/introducing-Cloud-
            Text-to-Speech-powered-by-Deepmind-WaveNet-technology.html",
            "by": "pseudobry",
            "descendants": 28,
            "timeISO": "3 hours ago"
          }
        },
        {
          "node": {
            "id": "16689699",
            "title": "How I Erased Facebook Comments and Likes",
            "score": 267,
            "order": 2,
            "domain": "jaruzel.com",
            "url": "http://www.jaruzel.com/blog/How-I-Erased-
            5000-Facebook-Comments-and-Likes",
            "by": "Jaruzel",
            "descendants": 118,
            "timeISO": "5 hours ago"
          }
        }
      ]
    }
  }
}

```

# Hacker News

## Google Cloud Text-To-Speech Powered by DeepMind WaveNet Technology (googleblog.com)

▲ 126 by pseudobry 3 hours ago

Google also announced today their Tacotron engine which features new prosody modeling speech generation. It allows them to generate speech that mimics personal intonation, accents, and rhythm, effectively mimicking an individuals "expression" in their speech.

HN discussion here: <https://news.ycombinator.com/item?id=16691197>

by [coryfklein](#) 15 minutes ago

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# Chapter 11: Building and Deploying React Applications with Docker Containers

