

Framework Training
React
London July 2018
Exercise F-stateless

- This exercise works with **stateless** components.

Installation

- Install and run the starter version of the project.

```
npm install
npm start
```

Review the starter version of the project

- Stateless components are just one single function.
- They take in data as **props**.
- They return a view as markup.
- A stateless component has no other methods.
- It has no **state**.
- Its simplicity makes it reliable and easily testable.
- Keyword **this** is not available within a stateless component.

Iterate over the books using map

- Iterate over the books array and pass each book down to a separate Book component.

```
let BookShelf = props =>

  <section>
    <h2>Man Booker Prize Winners</h2>
    { props.books.map((b,n) => <Book key={n} book={b} /> ) }
  </section>

let Book = props =>

  <section className="book">
    <h4>{ props.book.author }</h4>
    <p>{ props.book.title }</p>
```

```
</section>
```

Destructuring in the Book component

- We can add **destructuring** in the Book component.
- Once the arrow function contains multiple statements, we need to add brackets and an explicit return statement.

```
let Book = props => {  
  
  let {author,title} = props.book;  
  
  return (  
    <section className="book">  
      <h4>{author}</h4>  
      <p>{title}</p>  
    </section>  
  )  
  
}
```

Spread operator

- We can use the ES6 spread operator in the parent component.
- This will pass down each property of the book object (title,author) to the Book component as individual props.

```
<Book key={n} {...b} />
```

- This is equivalent to writing

```
<Book key={n} author={b.author} title={b.title} />
```

- By passing down both author and title as props, we can simplify the Book component.
- The two components have become one-line ES6 arrow functions.

```
import React from 'react';  
  
let BookShelf = props =>  
  
  <section><h2>Booker Prize</h2>{ props.books.map((b,n) =>  
    <Book key={n} {...b} /> )}</section>
```

```
let Book = ({author,title}) =>  
  
  <section className="book"><h4>{author}</h4><p>{title}</p>  
</section>  
  
export default BookShelf;
```